

USAGE AND SAFETY PRECAUTIONS

USAGE AND SAFETY PRECAUTIONS

adapter before moving the RT-123.

In this manual, symbols are used to highlight warnings and cautions for you to read so that accidents can be prevented. The meanings of these symbols are as follows:



This symbol indicates explanations about extremely dangerous matters. If users ignore this symbol and handle the device the wrong **Warning** way, serious injury or death could result.



This symbol indicates explanations about dangerous matters. If users ignore this symbol and handle the device the wrong way, bodily injury and damage to the equipment could result.

Please observe the following safety tips and precautions to ensure hazard-free use of the RT-123.



• Power requirements

The RT-123 is powered by the supplied AC adapter. To prevent malfunction and safety hazards, do not use any other kind of AC adapter.

When using the RT-123 in an area with a different line voltage, please consult your local ZOOM distributor about acquiring a proper AC adapter.

//\ Caution

Environment

Avoid using your RT-123 in environments where it will be exposed to:

- Extreme temperature
- · High humidity or moisture
- · Excessive dust or sand
- · Excessive vibration or shock



Handling

The RT-123 is a precision instrument. Do not exert undue pressure on the keys and other controls. Also take care not to drop the unit, and do not subject it to shock or excessive pressure.



Alterations

Never open the case of the RT-123 or attempt to modify the product in any way since this can result in damage to the unit.



· Connecting cables and input and output jacks

You should always turn off the power to the RT-123 and all other equipment before connecting or disconnecting any cables. Also make sure to disconnect all cables and the AC



Usage Precautions

• Electrical interference

For safety considerations, the RT-123 has been designed to provide maximum protection against the emission of electromagnetic radiation from inside the device, and protection from external interference. However, equipment that is very susceptible to interference or that emits powerful electromagnetic waves should not be placed near the RT-123, as the possibility of interference cannot be ruled out entirely.

With any type of digital control device, the RT-123 included, electromagnetic interference can cause malfunctioning and can corrupt or destroy data. Care should be taken to minimize the risk of damage.

Cleaning

Use a soft, dry cloth to clean the RT-123. If necessary, slightly moisten the cloth. Do not use abrasive cleanser, wax, or solvents (such as paint thinner or cleaning alcohol), since these may dull the finish or damage the surface.

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

CONTENTS

USAGE AND SAFETY PRECAUTIONS

| Introduction 5 |
|--|
| Names of Parts |
| Rear Panel |
| Getting Connected 7 |
| Preparations |
| Quick Guide 8 |
| Quick Guide (1) |
| Listening to the Demo 8 |
| Quick Guide (2) |
| Playing the Pads 10 |
| Quick Guide (3) |
| Playing a Pattern 12 |
| Quick Guide (4) |
| Using Groove Play 14 |
| Playing the Pads (Manual Play) 16 |
| Playing by tapping the pads 16 |
| Selecting a kit/program for manual play 17 |
| Playing the Patterns |
| (Pattern Mode) 18 |
| Pattern play 18 |
| Changing the tempo of pattern |
| playback 19 |
| Pattern Recording |
| (Real-Time Recording) 20 |
| Real-time recording of a drum track 20 |
| Real-time recording of a bass track 24 |
| Pattern Recording |
| (Step Recording) 28 |
| What is step recording? 28 |
| Step recording of a drum track 29 |
| Step recording of a bass track 31 |
| Pattern Copy/Erase |
| Copying a pattern 33 |
| Erasing a pattern 34 |

| Creating Songs (Song Mode) | 35 |
|---|----------------|
| What is a song? | 35 |
| Recording and playing a song | 36 |
| Editing a song | 39 |
| Deleting a song | 40 |
| Using Pads to Play Patterns | |
| (Groove Play) | 41 |
| [FUNCTION] Key Settings | 43 |
| Basic [FUNCTION] key operation steps | 43 |
| [FUNCTION] key items | 45 |
| RT-123 Application Examples | 51 |
| Controlling the RT-123 with the FS01 | 51 |
| Synchronized MIDI operation | 52 |
| Using MIDI equipment to play | |
| | |
| the RT-123 | 53 |
| | 53 |
| Returning the RT-123 to the factory | 53 54 |
| Returning the RT-123 to the factory default condition(initialization) | |
| Returning the RT-123 to the factory | 54 |
| Returning the RT-123 to the factory default condition(initialization) | 54 55 55 |

Reference

Program Change Table Drum and Bass Kit Table Preset Pattern List MIDI Note Number Table Drum KIT EXTRA List MIDI Implementation MIDI Implementation Chart

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> ZOOM RhythmTrak FTT-123

Introduction

Thank you for selecting the *ZOOM RhythmTrak RT-123* (hereafter simply called the ''*RT-123*''). The RT-123 is a rhythm machine with the following features and functions.

- Functionality of RhythmTrak 234 in a compact body. Play cool backing patterns made up of two drum tracks and one bass track. 297 preset patterns provide a wide variety of popular rhythms. 99 additional patterns can be programmed and stored by the user.
- Create a backing sequence (song) with up to 99 patterns. As many as 99 songs can be stored.
- Self-lighting pads indicate when sound is produced. While playing patterns or songs, you can check the rhythm visually as well.
- Choose from a variety of 105 built-in super-realistic drum and bass sounds. Practice parts as if you were playing in a band. Also great for making guitar or keyboard demo tapes.
- LINE IN jack allows connection of external instruments. Mix the sound from an instrument processed by a multi-effect such as the ZOOM 503 with the backing sound provided by the RT-123.
- Simple and intuitive controls make it a snap to operate the RT-123 even if you have never used a drum machine or sequencer before.
- Groove play mode allows changing patterns during play simply by tapping pads on the unit. Great for live performances and for DJ use.
- Optional foot switch FS01 allows pattern start/stop control or tempo switching. You can also operate an assigned sound such as bass drum or open/closed hi-hat.
- MIDI IN connector allows synchronization with external MIDI sequencer or control of the RT-123 from other MIDI equipment.

Please take the time to read this manual carefully so as to get the most out of your RT-123 and to ensure optimum performance and reliability. Retain this manual, the warranty card and all other documentation for future reference.



Names of Parts

Top Panel



77-123

6

Getting Connected

Connection to MIDI sequencer/computer MIDI interface



Preparations

After connections are established, check the sound by performing the following steps.

While the playback system is still turned off and the volume is fully turned down, double-check whether all connections have been made correctly.

If cables are plugged in while power is turned on, or if the system is turned on with the volume control turned up, speaker damage may occur.

STEP2 Turn power to the RT-123 on.

Connect the supplied AC adapter to the [DC IN] connector and set the [POWER] switch to ON.



STEP3

Turn power to the playback system on.

While tapping a pad to produce sound, adjust the [VOLUME] control of the RT-123 and the volume control on the playback system to a suitable position.



Quick Guide

This Quick Guide shows how to operate your RT-123, using a few representative examples. Some of terms and concepts used in this manual are also explained here.

Quick Guide (1) Listening to the Demo







Drum kits and bass programs

The backup sound provided by the RT-123 consists of up to two drum kits and one bass program. A drum kit is a collection of drum sounds including bass drum, snares, and tomtom, percussion sounds such as congas and bongos, and various other effect sounds. These are combined to create backing tracks for a wide range of music genres. The RT- 123 comes with 80 preprogrammed drum kits of which up to two can be used simultaneously. A bass program is a bass sound such as electric bass, acoustic bass, synthesizer bass, etc. 25 types of bass programs are available, of which one can be selected for playback.

- Sess

 Image: ses

 Image: ses
- [PATTERN] key: RT-123 switches to pattern mode (for playing and recording patterns).
- [SONG] key: RT-123 switches to song mode (for creating backing songs which are sequences of patterns).



Drum kit B

Quick Guide (2) Playing the Pads

The top panel of the RT-123 has 13 pads which serve to play drum kits and bass programs.



76120





Press the [BASS] key.

The [BASS] key LED lights up and the current bass program can be played with the pads. Give it a try ! You will notice that different pads produce sound of a different pitch. Unlike with the drum kit, the bass program does not consist of different instrument

sounds. Rather, one type of bass sound is varied in pitch. You can use the 13 pads like the keys of a keyboard.

The illustration below shows an example for the notes produced by the 13 pads with a bass program.

You can also shift the pitch of each pad (\rightarrow *p. 24*).



When a user pattern is selected (display shows U00 - U99; for details see page 12), the drum kit played by the pads can be changed.

Press and hold the [DRUM A] key...

While the [DRUM A] key is being pressed, the display shows the currently selected kit number (0 - 79).



Press the [VALUE +/-] keys.

- [+] key: Selects the next higher kit number.
- [-] key: Selects the next lower kit number.



Quick Guide (3) Playing a Pattern

The RT-123 already contains many preprogrammed patterns (backing sequence of several bars). Each pattern combines up to two drum kits and a bass program. Here's how you can play a pattern.



T-12

12



Quick Guide

Quick Guide (4) Using Groove Play

Groove play is a special feature of the RT-123 which lets you switch among various patterns simply by tapping the pads. This makes it easy to play with patterns like a DJ spinning records.



7-125

6 Push several pads together.

simultaneously In groove play mode, up to 4 patterns can be played simultaneously. For example, while playing a basic drum pattern, you can hit another pad to overlay a bass pattern and then add a snare fill-in. By using the right timing when pushing the pads, you can create complex rhythms.

Press the [SONG] key or [PATTERN] key.

- [PATTERN] key was pressed: RT-123 switches to pattern mode.
- [SONG] key was pressed: RT-123 switches to song mode.



4 Hold the [REPEAT/STEP] key down while pushing the pad.

REPEAT/STEE

PAD

PAD

To play multiple patterns

To stop

groove play

LINE IN

-**64** eral Dru

-54 mo Beat -49 /HipHop -**44** ern Drui

-**39** ad Set

RUM B

GTH

XTRA 1

L/MONO

ZOOM RI

STEP REC

EXTRA CYMBAL

SHIFT

EXTRA 3

12

TEMPO

RIDF

SWING

EXTRA 2

11 PAD SENS

10

FOOT SV

R

OUTPUT

PHONES

VOLUME

EXI

The pattern will continue to play also when the pad is released.

This is useful for example to keep on playing a basic drum pattern.

To stop the pattern, push the same pad once more.

PAD



Pattern

assigned to pad

Playing the Pads (Manual Play)

The RT-123 lets you not only play back existing patterns and songs, it also allows you to manually play the unit by tapping the pads. This section describes how to manually play the unit.

Playing by tapping the pads

The RT-123 assigns various sounds to the pads, depending on the currently selected drum kit. Play the pads to discover the realistic sounds offered by the RT-123.



STEP Press the [PATTERN] key.

This activates the pattern mode. The [PATTERN] key LED lights up.

Press the [DRUM A] key.

During manual play, you use the [DRUM A] key, [DRUM B] key, and [BASS] key to select the desired drum kit or bass program. (The LED of the selected key lights up.) Pressing the [DRUM A] or [DRUM B] selects drum kit A or B. Pressing the [BASS] key selects the bass program. In this example, let's use drum kit A.

Tap one of the pads.

The LED of the pad lights up briefly and the sound assigned in the drum kit to that pad is heard. The volume changes according to how strongly you tap the pad.

When the [BASS] key is pressed in step 1, a bass program can be played, but there is a difference in how the pads operate. With a drum kit, the sound plays through even if the pad is released immediately. With a bass program, the sound continues only as long as the pad is pressed.

TEP4 Tap a pad while holding the [REPEAT/STEP] key down.

The sound will be produced continuously for as long as the pad is pressed. The repetition speed depends on the tempo.



You can adjust the interval for repeated play. See the "Quantize" section on page 46.









STEP.3

Selecting a kit/program for manual play

17-123

For manual play, you can select among 80 drum kits and 25 bass programs to create your own combinations.



This section describes how to play patterns that are built into the RT-123 or that have been recorded by the user.

Pattern play

The RT-123 incorporates 297 preset patterns (A01 - A99, B01 - B99, C01 - C99) which cannot be changed by the user, as well as 99 user-definable patterns (U01 - U99). (The unit is shipped with the user patterns blank.) This section describes how to select and play a pattern.



Press the [PATTERN] key so that the LED lights up.

The RT-123 switches to pattern mode and the number of the currently selected pattern is shown on the display. A01 - A99, B01 - B99, C01 - C99 indicates a preset pattern, and U01 - U99 a user pattern. If an empty user pattern was selected, the display shows "E" (Empty).



Use the [VALUE +/-] keys to select the desired pattern number.

In pattern mode, the [VALUE +/-] keys serve to switch the pattern.

TEP3 Press the [PLAY] key.

The [PLAY] key LED lights up, and the pattern is played repeatedly. The [TEMPO] key LED flashes according to the tempo of the pattern. The display shows the current position in the pattern (measure/beat).

Also while playing a pattern, you can use the pads for manual play.
Also while playing, you can switch the bank and number. In this case, the new pattern starts playing as soon as you make the switch.

To mute only the bass track, press the [BASS MUTE] key.

The LED of the key lights up and only the drum tracks A/B are heard. To turn the bass track back on, press the [BASS MUTE] key once more.

Also while the bass track is muted, you can play bass programs manually with the pads. To do this, press the [BASS] key so that the LED of the key is lit.
The bass track can be muted also while the pattern is stopped.

The buss muck can be marea also while the patient is stopped.

TEP5 Press the [STOP/EXIT] key when you want to stop the pattern.

Pressing the [PLAY] key instead of the [STOP/EXIT] key sets the unit to pause mode. The [PLAY] key LED flashes. Pressing the [PLAY] key again in this condition resumes playback from the point where it was paused.









Changing the tempo of pattern playback

When playing a pattern in pattern mode, the playback tempo for the pattern can be varied over the range of 40 - 250 BPM (BPM = beats per minute, using quarter notes).







Pattern Recording (Real-Time Recording)

The RT-123 has 99 user pattern slots which can be filled with your own patterns. Creating and recording a pattern is possible in two ways: by actually playing the pattern on the pads (real-time recording), or by entering each sound individually (step recording). The procedure for real-time recording of a drum track and bass track is described below.

Real-time recording of a drum track

Real-time recording refers to the process of playing the pads while listening to a metronome sound and recording what you play. First, let's record drum tracks in real time.



In pattern mode, select an empty user pattern (U01 - U99), and select a drum kit if desired.

When a pattern that contains nothing is selected, the display shows only "E".



You cannot record over a preset pattern.

Press the [FUNCTION] key and then pad 6 (QUANTIZE).

The display shows the current quantize setting. Quantization refers to the degree of detail with which notes are recorded. By setting the quantize value to the shortest note that you want to use for the pattern, recording can be carried out while automatically maintaining precise timing. You can also turn the quantize function off, to retain the human touch that is characterized by slightly irregular timing.

The [FUNCTION] key is used to make various settings for the RT-123. For details, please refer to page 43.













••••••Quarter note ·····Eighth note 12 •••••Eighth triplet note

Select the track on which to record by pressing the [DRUM A], [DRUM B], or [BASS]

Use the [VALUE +/-] keys to set the quantize value (shortest note to be recorded).

24 •••••Sixteenth triplet note

32 ••••• Thirty-second note

While holding down the key selected in step 5, use the [VALUE] +/- keys to select

STEP 7

ZOOM RhythmTra

17-123







STEP8 Tap the pads in accordance with the metronome sound.

The sound of the respective pad is heard, and it is recorded for the duration set with the quantize value. You can verify the current position in the pattern by checking the display. When the end of the pattern is reached, the recording loops back to the beginning and continues, allowing you to add to the recording as often as desired.



When the [REC] key is pressed during real-time recording, the [REC] key LED starts to flash and pattern recording is suspended. In this condition, tapping the pads will produce sound, but it is not recorded. This is useful to check phrasing and sound before actually recording. To resume recording, press the [REC] key once more.

To erase the sound from a specific pad, push the pad while holding the [DELETE/ERASE] key down.

While the key is held down, the sound from that pad is erased from the pattern. To erase the entire track, push the [DRUM A], [DRUM B], or [BASS] key while holding the [DELETE/ERASE] key down. While both keys are held down, all sounds in that track are erased.











Real-time recording of a bass track

Next, let's add a bass track to the drum track pattern recorded in the previous section.



STEP Press the [BASS] key and hold the key down.

The bass track is selected for recording.

While holding the [BASS] key down, use the [VALUE +/-] keys to select a bass program.

HINT The bass program can also be changed during recording.

TEP3 Press the [FUNCTION] key and then pad 1 (BASS KEY).

To record a bass track, you must first assign the pitches from the bass pattern to the pads. Pressing the [FUNCTION] key followed by pad 1 (BASS KEY) enables pitch setting for each pad. The [FUNCTION] key LED lights up and the display shows the pitch name assigned to pad 1.

Also if a pattern was erased, the pitches assigned to the pads in the previous pattern are retained. When wishing to use these as is, steps 3 - 7 can be omitted.



BASS

BASS









To shift the pitch of all pads, operate the [VALUE +/-] keys while no pad is pushed.

When the pitch assigned to pad 1 is changed, the pitch of pads 2 -13 also changes accordingly in semitone steps. For example, if the E minor scale is assigned and you shift pad 1 from "E 2" to "A 2", the A minor scale will be assigned to the pads.



Because this operation shifts the pitch of the entire bass track, it is useful for example to create a bass line that follows chord progress.

Example with A minor scale assigned to pads



When the pitch has been assigned as desired, press the [FUNCTION] key once more.

The [FUNCTION] key LED goes out.

STEP8 While holding the [REC] key down, press the [PLAY] key.

The [REC] key LED and [PLAY] key LED light up and the [TEMPO] key LED flashes. The already recorded drum tracks are played back.



Tap the pads in accordance with the metronome sound.

As opposed to drum track recording, the bass track records for the length of which you press a pad. For example, to record the following sequence, hold the pad to which A2 has been assigned and the pad to which E2 has been assigned down for the length of a quarter note each.







When the [REC] key is pressed during real-time recording, the [REC] key LED starts to flash and pattern recording is suspended. In this condition, tapping the pads will produce sound, but it is not recorded. This is useful to check phrasing and sound before actually recording.

To erase the sound from a specific pad, push the pad while holding the [DELETE/ERASE] key down.



STEP11 When recording is completed, press the [STOP/EXIT] key.





This section describes step recording, which is another recording type that is possible with the RT-123.

What is step recording?

Step recording allows you to enter and record each sound separately, step by step, while the RT-123 is in the stop condition. Even without mastering how to play the pads in real time, you can easily create complex drum and bass patterns. And you don't need to stop there, because you can even create patterns that would be impossible to play in real time.

For step recording of a drum track, you select the shortest note that is to be used as unit, and you create the pattern by pressing a pad (note) or the [REPEAT/STEP] key (rest) for each step.

For example, to create the following bass drum pattern with step recording, select an eighth note as smallest unit and make the entry as follows:



When the end of a pattern is reached, it loops automatically back to the beginning, allowing you to add for example snare and hi-hat separately, to complete the pattern. By pushing 2 pads at the same time, you can enter 2 sounds in the same position.

For step recording of a bass track, the procedure is slightly different, because unlike for the drum track, the pitch and duration of the sound must be specified. The fact that tapping a pad gives the shortest-unit note and pushing the [REPEAT/STEP] key gives the shortest-unit rest is the same. The pitch is determined by which pad you push. The length is determined by holding down the pad and down and pressing the [REPEAT/STEP] key multiple times. Each push of the [REPEAT/STEP] key increases the duration of the sound by the shortest unit note.

For example, to enter the following bass phrase, select an eighth note as smallest unit and make the entry as follows:





Step recording of a drum track



This section describes how to record drum tracks A/B using step recording.

Use the [VALUE +/-] key to set the quantize value, and then press the [FUNCTION] key once more.

4 ••••••Quarter note 8-----Eighth note 12 ·····Eighth triplet note 16 •••••Sixteenth note

17-123

ZOOM. Rh

24-----Sixteenth triplet note 32 Thirty-second note 48 •••• Thirty-second triplet note Hi•••1 tick (1/96 of quarter note)

(HINT) For details on the [FUNCTION] key, please refer to page 43.



Quantize value

PATTERNISONG RECT

Pattern Recording (Step Recording

Press the [REC] key.

RT-123 is ready for recording.

STEP REC



STEP6

To enter a note, press the pad corresponding to the desired sound. To enter a rest, press the [REPEAT/STEP] key.

For example, tapping the [KICK] pad will enter a bass drum note (the [KICK] pad LED flashes briefly). The current position of the pattern then advances by one unit. The tapping intensity will of course also be recorded.

The [REC] key LED and [PLAY] key LED light up, indicating that the



PAD

When the end of the pattern is reached, the recording loops back to the beginning and continues, allowing you to add to the recording as often as desired.



The display shows the current position in the pattern (measure/beat).

To erase a sound, use the [REPEAT/STEP] key to move to the desired position. Then press the corresponding pad while holding down the [DELETE/ERASE] key.

As you move the position with the [REPEAT/STEP] key, the LED of a pad that has been input for the current position lights up. Pressing the pad while holding the [DELETE/ERASE] key down causes the LED to go out and the sound will be erased.





During step recording, erasing the entire track is not possible.

When recording is completed, press the [STOP/EXIT] key.

The [REC] key LED goes out, and step recording ends.

STEP9 To record drum track B, repeat steps 3 - 8.

If step 4 is carried out without pressing the [FUNCTION] key, the quantize value of the pattern already recorded in that track will also be changed. For example, if step recording was carried out with sixteenth notes and the quantize value was then changed to quarter notes, the pattern already recorded will also be changed to quarter notes if the [REC] key is pushed without pressing the [FUNCTION] key.



Step recording of a bass track

77-12-

Now let's add a bass track to the drum tracks recorded as described in the previous section. Because pitch and duration must be specified for the bass track, the procedure is slightly different from step recording of the drum track.



that pad is entered, and the position proceeds to the next step.

• Enter the minimum unit rest: Briefly tap the [REPEAT/STEP] key and release it. A rest of the selected minimum duration is entered, and the position proceeds to the next step.



• Enter a note longer than the minimum unit: Hold the pad down and repeatedly press the [REPEAT/STEP] key. With each push of the [REPEAT/STEP] key, the immediately preceding note is extended by one unit.



When you press a pad, its LED lights up, indicating that the note has been input. The display shows the current position in the pattern (measure/beat).



A note longer than the entire pattern cannot be input. When the input exceeds the pattern length, the note will only be as long as the pattern.

7 To erase a note, use the [REPEAT/STEP] key to move to the desired position. Then press the corresponding pad while holding down the [DELETE/ERASE] key.

As you move the position with the [REPEAT/STEP] key, the LED of a pad that has been input for the current position lights up. Pressing the pad while holding the [DELETE/ERASE] key down causes the LED to go out and the note will be erased. Bass track



To decrease the length of a note, use the [REPEAT/STEP] key to move to the position where the note should stop.





Pattern Copy/Erase

This section explains how to copy or erase a pattern.

Copying a Pattern

17-12-

The patterns in the RT-123 (preset patterns or user patterns) can be copied to a different user pattern number. This is useful for example when wishing to change only a part of a pattern, such as changing the bass track phrasing while keeping the drum track.



33

Erasing a Pattern

A user pattern can be erased when it is no longer needed. This serves to make way for storing new user patterns or to free up memory space.



To execute the erasing process, press the [DELETE/ERASE] key once more. When wishing to cancel the process, press the [STOP/EXIT] key.

When erasing is completed, the unit returns to the pattern mode with the empty user pattern being selected. The display will show "E". If erasing was cancelled, the unit returns to the pattern mode with the original user pattern being selected.

DELETE/ERASE





Creating Songs (Song Mode)

This section describes how to line up user patterns in a desired order to create the backing for an entire song. This mode of operation is called the song mode.

What is a song?

A song is a sequence of user patterns (preset patterns cannot be used). A song consists of multiple slots (called "steps") each of which contains one pattern. The maximum length of a song is 99 steps. The maximum number of songs that can be stored in the RT-123 is 99. (The actual number of available steps and songs will depend on the number of distinct sounds used for user patterns and other songs.) In song mode, you can change also the tempo and volume during a song.



Besides the pattern number, each song step can contain the following settings:

- **Tempo change:** In song mode, the tempo is stored individually for each song. (The tempo is set with the [TEMPO] key, as described on page 38.) Using this tempo as reference, the tempo for each step can be varied in the range from -30 to 0 (no change) to +30 BPM (beats per minute = number of quarter notes per minute).
- Volume: The volume of the pattern as contained in the step can be set in the range from 0 (no change) to -30.
- **Transpose:** The bass track can be transposed in semitone steps in the range from -6 to 0 (no change) to +6.

| Step 0 | Step 1 | Step 2 | Step 98 |
|---|---|---|---------|
| Pattern number Tempo information Volume information Transpose information | Pattern number Tempo information Volume information Transpose information | Pattern number Tempo information Volume information Transpose information | |



Recording and playing a song

Let's collect a number of patterns into a song.





Selected pattern Step number number



the display.
When wishing to hear the currently selected pattern, you can use (HINT) the [PLAY] and [STOP/EXIT] keys to play it. While a pattern is playing, you can also switch the step number back and forth to check the patterns in other steps. STEP 5 To proceed to the next step, press the [REPEAT/STEP] key. The lower two digits of the display show the second step, and the REPEAT/STEP upper two digits show "EE" which indicates the end of the song. In this condition, you can select the pattern for the second step. If you wish to return to the previous step, hold down the [REPEAT/STEP] key and press the [VALUE -] key. You can move back and forth in the step numbers by holding down the (HINT) [SONG] key and using the [VALUE +/-] keys. STEP6 Repeat steps 4 - 5 to create the entire song. One song can have up to 99 steps (00 - 98) for patterns. To change a (HINT) pattern selection, hold down the [REPEAT/STEP] key and use the [VALUE -] key to return to the previous step. To insert a pattern before the currently selected step, press the [INSERT/COPY] key and perform step 4. A new step is inserted before the currently selected step, and INSERT/COPY subsequent steps are shifted one count up. Pattern E Insert Pattern C Pattern B Pattern A Pattern D Pattern A Pattern B Pattern E Pattern C Pattern D STEP8 To delete the currently selected step, press the [DELETE/ERASE] key. The currently selected step is deleted, and subsequent steps are DELETE/ERASE shifted one count down. Delete Pattern A Pattern B Pattern C Pattern D Pattern B Pattern A Pattern D When one song is completed, press the [STOP/EXIT] key. The [REC] key LED goes out, and song recording stops. The song STOP / EXIT position returns to step 1.

ZOOM RhvthmTr

TT-12

STEP 10 To listen to the song, press the [PLAY] key.

The [PLAY] key LED lights up and the song is played back. The [TEMPO] key LED flashes according to the tempo of the song. During playback, the upper two digits of the display show the current step number, and the lower two digits show the song number.

Pressing the [PATTERN] key during playback causes the display to

PLAY



Measure count from start of song (125 in this example)

show the number of measures since the start of the song.
By performing step 2 during playback, you can switch to the

- next song without stopping play.
 By pressing the [BASS MUTE] key during playback, the bass track can be muted. To restore the original condition, press the
 - key once more.
- To insert a rest in a song, first create a "rest pattern" in pattern mode and then select this pattern for the desired step in song mode. Note that if an empty pattern is selected as a song step, song playback will stop at this step.
- To create a rest pattern, select an empty pattern in pattern mode and press the [REC] key. The BASS KEY (bass track only), MIX, TIME SIG, BAR LENGTH, and drum kit/bass program settings active at this point will be stored.

TEP11 Press the [STOP/EXIT] key when wishing to terminate playback.

The LED goes out and the song returns to the start position. By pressing the [PLAY] key again, you can start playback of the song again from the beginning.

Pressing the [PLAY] key instead of the [STOP/EXIT] key causes the PAUSE LED to flash, and playback is paused. To resume playback from the same point, press the [PLAY] key once more.



NOT

(HINT

Also during playback of a song, you can use the pads for manual play.

To play a song from half-way, hold the [SONG] key down and use the [VALUE +/-] keys to select the step while the song is stopped.

With each push of the [VALUE +] key, the step number shown on the display will advance by one increment. With each push of the [VALUE -] key, the step number shown on the display will decrease by one increment. Pressing the [PLAY] key in this condition will start playback from the selected step.





To change the tempo of the song, hold down the [TEMPO] key and use the [VALUE +/-] keys to adjust the tempo value (BPM).

As in pattern mode, the tempo can also be specified by tapping the [TEMPO] key 2 times.

The RT-123 automatically stores a so-called "master tempo" for each song. When a song is switched, the tempo last set for that song will be used.





Editing a song

This section describes how you can alter parameters such as tempo or volume for a song that has already been recorded.



Deleting a song

When you wish to delete a song, for example to make room for new recordings, proceed as follows.





Using Pads to Play Patterns (Groove Play)

This section describes the groove play mode. In this mode, the 13 pads are used to play patterns assigned to them. This allows quick switching between patterns during a performance. Up to 4 patterns can be played simultaneously, letting you for example play two patterns with a different beat, or the same pattern twice, shifted by 1 beat, to create a complex rhythm.



Press the [SONG] key and the [PATTERN] together.

The RT-123 switches to groove play mode, and the [SONG] key LED and [PATTERN] key LED light up.

The song number is shown on the display.

In groove play mode, all patterns are played with the master tempo of the currently selected song. If desired, use the [TEMPO] key to change the song tempo.



Try out the sound by pressing any pad.

In the factory default condition, the RT-123 has 13 patterns specially designed for groove play assigned to pads 1 - 13. If a pad is held down, the assigned pattern plays repeatedly. The intensity with which the pad is hit controls the overall pattern volume. While the pad is pressed, the pattern number is shown on the display.





To change the pattern assigned to a pad, hold the pad down and use the [VALUE +/-] keys to select the new pattern.

You can select either a preset pattern or a user pattern. If the [VALUE -] key is pressed while "U01" (user pattern 01) is displayed, the display indication changes to "PAd". Instead of a pattern, a pad for which "PAd" is selected will play the single sound originally allocated to the pad (such as kick drum or snare).

STEP 1

STEP3

The patterns assigned to the pads are retained also while the unit is turned off.







42

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FUNCTION Key Settings

The [FUNCTION] key is used to make various settings for the RT-123. The basic steps for using the [FUNCTION] key and the setting items are described below.

Basic [FUNCTION] key operation steps

The [FUNCTION] key is used in the same way for most setting items.



The display shows the setting of the selected item.

For some items, the sound or track that is to be set must be selected after selecting the item.



Change the setting with the [VALUE +/-] keys.

- Keeping a [VALUE +/-] key depressed changes numbers continuously.
 - To change numbers quickly, hold one of the [VALUE +/-] keys depressed and press the other key. The numbers will change continuously.



TEP4. Press the [FUNCTION] key once more.

The setting changed at step 3 is now determined, and the RT-123 puts the function settings to an end.

The beat (TIME SIG) and measure (BAR LENGTH) setting can be returned to the original setting by pressing the [EXIT] key instead of the [FUNCTION] key in step 4.

The [FUNCTION] key is also used for pattern bank switching (\rightarrow p. 13), clearing all user patterns (\rightarrow p. 55), and demo play (\rightarrow p. 8, p. 55).





[FUNCTION] key items

The setting range of the various items controlled with the [FUNCTION] key is described below.

Shifting bass program pitch in semitones (BASS KEY)

Setting Range A1 - A2 Pad 1 pitch: Pad 2 - 13 pitch: E1 - A4

Sets the pitch of the tones assigned to the pads for a bass program in semitones. You can either shift the pitch of the entire bass program or the pitch of pads 2 - 13 individually.

■ Shifting the pitch of the entire bass program

Immediately after pressing the [FUNCTION] key and then pad 1 (BASS KEY), the pitch assigned to pad 1 (A1 - A2) is shown on the display. Use the [VALUE +/-] keys to set the pitch. This will cause the pitch of pads 2 - 13 to change accordingly.

■ Shifting the pitch of pads 2 - 13 individually

After pressing the [FUNCTION] key and then pad 1 (BASS KEY), hold down one of pads 2 - 13, and then use the [VALUE +/-] keys to set the pitch (E1 - A4) for that pad. This will not affect the pitch of other pads.



Setting the pattern/track level (MIX)

Setting Range: 0 - 99

Sets the volume for each track in the currently selected pattern over a range of 0 - 99. After selecting this item, use the [DRUM A], [DRUM B], and [BASS] keys to select the track and then use the [VALUE +/-] keys to make the setting.



Tuning a bass program (BASS TUNE)

Setting Range: 435 - 445 (Default value: 440)

Allows tuning the bass pitch keys in the range of A = 435 Hz to A = 445 Hz.



Setting Range: 2, 3, 4

Set the beat for the pattern to 2 (2/4 beat), 3 (3/4 beat), or 4 (4/4 beat).

Changing the beat of an already recorded pattern is also possible, but the recorded sound will change as follows. Proceed with care, especially when making the beat shorter.

Choosing a longer beat than the current beat

A blank space with the length of the additional beat is added to each measure.

Choosing a shorter beat than the current beat

The excess duration of each measure is cut off. Once the [FUNCTION] key is pressed to accept the setting, it will not be possible to restore the cut-off sections.

The RT-123 stores this setting for each pattern individually when the [FUNCTION] key is pressed once more to terminate the mode.

Setting the pre-count (PRE COUNT)

Setting Range: 0, 1, 2, PAd (Default value: 1)

The pre-count (number of metronome ticks before the start of pattern real-time recording) can be turned on and off, and the number of measures etc. can be set. This setting applies to all patterns.

The settings have the following meaning.

0: Real-time recording starts immediately when the [PLAY] key is pressed.

1: Real-time recording starts after 1 measure has been counted.

2: Real-time recording starts after 2 measures have been counted.

PAd: The unit goes into recording standby mode when the [PLAY] key is pressed, and recording starts when any pad is pressed.

Setting the pattern resolution (QUANTIZE)

Setting Range: 4, 8, 12, 16, 24, 32, 48, Hi (Default value: 16)

Sets the quantize value (shortest note) for the pattern. The quantize setting affects the following four functions:

- · Shortest note for real-time recording
- Shortest note for step recording
- Sound interval when [REPEAT/STEP] key is used together with pad for continuous repetition
- Pad push/release detection timing during groove play

The following 8 settings are available for the quantize value.

| 4Quarter note | 16Sixteenth note | 48Thirty-second triplet note |
|-----------------------|--------------------------|------------------------------|
| 8Eighth note | 24Sixteenth triplet note | HiQuantize function off |
| 12Eighth triplet note | 32Thirty-second note | During step recording: |
| | | 1 tick (1/96 quarter note) |





Even when the quantize value is set to Hi, the [REPEAT/STEP] key interval is a thirty-second note.
The quantize value cannot be set separately for each track.

Setting the metronome volume level (CLICK VOL)

Setting Range: 0 - 99 (Default value: 70)

The volume level of the metronome click sound heard during real-time recording can be adjusted with the [VALUE +/-] keys. This setting applies to all patterns.

Setting the number of measures for a pattern (BAR LENGTH)

Setting Range: 1 - 99

Sets the length of the pattern in the range from 1 - 99 measures. Changing the length of an already recorded pattern is also possible, but the recorded sound will change as follows. Proceed with care, especially when making the number of measures smaller.

Making the number of measures larger

Blank measures are added to the end of the pattern.

Making the number of measures smaller

The excess measures at the end of the pattern are cut off. Once the [FUNCTION] key is pressed to accept the setting, it will not be possible to restore the cut-off measures.

The RT-123 stores this setting for each pattern individually when the [FUNCTION] key is pressed once more to terminate the mode.

Selecting the foot switch function (FOOT SW)

This section describes how to set the function of a foot switch (FS01) connected to the [FOOT SW] jack on the rear panel. The setting is made by pressing the [FUNCTION] key followed by pad 9 (FOOT SW) and then the respective pad or key.

[Setting Range] 1 - 13, tAP, Cont, Strt, bMut, MutE, SoLo, rEP (Default value: Strt)

■ Using the FS01 to play the sound of a pad

Press the [FUNCTION] key followed by pad 9 (FOOT SW) and then one of pads 1 - 13. (The number of the pressed pad is shown on the display.) The force with which the pad is pushed is also memorized.

The FS01 will play the sound of the assigned pad when it is pushed. This is useful for example to play the bass drum with your foot.

■ Using the FS01 to change the sound of a pad

Press the [FUNCTION] key followed by pad 9 (FOOT SW). Then push the FS01 and press the first pad. Release the FS01 and press the second pad. The sound of the first pad can now be switched with the FS01. The lower two digits of the display show the number of the first pad, and the upper two digits the number of the second pad. When the foot switch is pushed, the sound of the first pad is heard. When it is released, the sound of the second pad is heard. When wishing for example to switch

ZOOM RhythmTr 77.123

between open hi-hat and closed hi-hat with your foot, push the FS01 and press pad 5 (CLOSED HAT). Then release the FS01 and press pad 7 (OPEN HAT). The sound of the first pad will be heard as soon as the FS01 is pushed, also when the pad itself is not pressed.

Using the FS01 to set the tempo

Press the [FUNCTION] key followed by pad 9 (FOOT SW) and then press the [TEMPO] key. (The indication "tAP" appears on the display.)

The FS01 will function in the same way as the [TEMPO] key. The tempo can be specified by pushing it two times (tap tempo function).

■ Using the FS01 to control start/pause

Press the [FUNCTION] key followed by pad 9 (FOOT SW) and then press the [PLAY] key. (The indication "Cont" appears on the display.)

The FS01 will function in the same way as the [PLAY] key. The unit switches between [Playback start] \rightarrow [Pause] \rightarrow [Playback start from paused position] with every push.

■ Using the FS01 to control start/stop

Press the [FUNCTION] key followed by pad 9 (FOOT SW) and then press the [STOP/EXIT] key. (The indication "Strt" appears on the display.)

The FS01 will function in the same way as the [STOP/EXIT] key. The unit switches between [Playback start] \rightarrow [Stop] \rightarrow [Playback start] with every push.

Using the FS01 to control bass muting

Press the [FUNCTION] key followed by pad 9 (FOOT SW) and then press the [BASS MUTE] key. (The indication "bMut" appears on the display.)

The FS01 will function in the same way as the [BASS MUTE] key. Pushing the switch once mutes the bass and pushing it once more turns the bass on again.

Using the FS01 to mute a desired track

Press the [FUNCTION] key followed by pad 9 (FOOT SW) and then press the [-] key. (The indication "MutE" appears on the display.)

When the FS01 is pushed, the currently selected track will be muted. To select the track, use the [DRUM A], [DRUM B], or [BASS] key.

■ Using the FS01 to play a desired track solo

Press the [FUNCTION] key followed by pad 9 (FOOT SW) and then press the [+] key. (The indication "SoLo" appears on the display.)

When the FS01 is pushed, all tracks except the currently selected track will be muted. To select the track, use the [DRUM A], [DRUM B], or [BASS] key.

■ Using the FS01 to control continuous percussion sound

Press the [FUNCTION] key followed by pad 9 (FOOT SW) and then press the [REPEAT/STEP] key. (The indication "rEP" appears on the display.)

When the FS01 is pushed in pattern mode while pressing a pad, the sound of that pad will be heard continuously.





Setting the playback swing amount (SWING)

Setting Range: 50 - 75 (Default value: 50)

This setting controls the swing amount (rhythm flourish). Higher values result in more pronounced swing. This item influences only the playback timing of the pattern. It does not affect the recorded data of the pattern.

Setting the pad sensitivity (PAD SENS)

Setting Range: Ehrd, HArd, norM, LItE, Loud, MEd, Soft (Default value: norM)

The [VALUE +/-] keys are used to set the pad sensitivity.

The following 7 settings are available.

- Soft (Fixed Soft): Gives a soft sound regardless of the tapping intensity.
- MEd (Fixed Medium): Gives a medium sound regardless of the tapping intensity.
- Loud (Fixed Loud): Gives a loud sound regardless of the tapping intensity.
- LITE (Light): This setting gives the highest sensitivity.
- norM (Normal): This setting gives medium sensitivity.
- HArd (Hard): This setting gives low sensitivity.
- Ehrd (Extra Hard): This setting gives the lowest sensitivity. To achieve a loud sound, the pads must be hit very hard.

Setting the playback timing shift (SHIFT)

Setting Range: -192 to +192 (Default value: 0)

Shifts the playback timing of a specific track in the currently selected pattern back or forth in 1-tick units (1/96 of a quarter note). The maximum shift is 2 measures.

■ When set to a negative value (-)

The playback timing of the selected track is shifted forward. The pattern shifted forward is deleted.

■ When set to a positive value (+)

The playback timing of the selected track is shifted backwards. The pattern shifted backwards is deleted.

Proceed with care, because once the [FUNCTION] key is used to terminate the setting, it cannot be undone.

Setting MIDI input on/off (MIDI)

Setting Range: Int, Midi (Default value: Int)

When this item is set to "Midi", the RT-123 can receive the following MIDI messages from external components.

MIDI clock • Start • Stop • Continue • Song select

When this item is set to "Midi", real-time recording is not possible.



Setting the MIDI receive channel for each track (MIDI)

Setting Range: oFF, 1 – 16

(Default values, drum track A: 10, drum track B: oFF, bass track: 9)

This item sets the MIDI channel for each track. Available settings for drum tracks are oFF (not received) and 1 - 16. Available settings for the bass track are oFF (not received), 1 - 16, and Auto.

"Auto" is a special setting for playing standard GM sound source compatible MIDI files. When the RT-123 receives a GM sound source bass select message, it automatically switches the bass track to that MIDI channel.

When the [DRUM A], [DRUM B], or [BASS] key is pressed immediately after pressing the [FUNCTION] key and pad 13 (MIDI), the MIDI receive channel is shown for each track. Hold the key down and use the [VALUE +/-] keys to change the setting. This can be performed separately for each track.

Selectable settings are oFF (receive off) and 1 - 16.

Switching the information displayed in pattern mode (PATTERN) (PATTERN mode only)

[Setting Range] Auto, LoCA, Ptno (default setting: Auto)

By pressing the [FUNCTION] key and then the [PATTERN] key, you can select which information is to be shown on the display in pattern mode.

| | Яисо | LoCA | PEno |
|------------------|---------------------------------------|---------------------------------|----------------|
| Pattern stopped | Pattern number | Pattern number | Pattern number |
| Pattern playing | Current position (measure/beat) | Current position (measure/beat) | Pattern number |
| Pattern switched | New pattern number shown for 1 second | Current position (measure/beat) | Pattern number |

Displaying the remaining amount of memory (PATTERN) (SONG mode only)

In song mode, pressing the [FUNCTION] key followed by the [PATTERN] key brings up a percentage display of the remaining amount of memory. This display is for information only, it cannot be changed. Pressing the [FUNCTION] key again returns to the song mode.



RT-123 Application Examples

This section describes examples for combining the RT-123 with optional equipment and external components.



Controlling the RT-123 with the FS01

When the separately available foot switch (FS01) is connected to the [FOOT SW] jack on the rear panel, it can be used to operate for example the bass drum or switch between open and closed hi-hat sound. The switch can also be used to start and stop playback of the RT-123 with your foot.



Connect the FS01 to the [FOOT SW] jack on the rear panel.

For information on connections, see page 7.

STEP2 Use the [FUNCTION] key and pad 9 (FOOT SW) to set the FS01 function.

For information on the setting procedure, see page 47.





STEP3 Use the FS01 in pattern mode or play mode.

Depending on the function selected in step 2, the FS01 activates the sound of a specific pad, switches between the sound of two pads, or controls playback start/stop of a song or pattern. For details, see page 47 - 48.

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Synchronized MIDI operation

Operation of the RT-123 can be synchronized with a sequencer or other rhythm machine equipped with a MIDI jack. This allows playback of the patterns or songs of the RT-123 with the tempo determined by the sequencer.





Connect the MIDI OUT jack of the MIDI sequencer, rhythm machine, or other MIDI component to the [MIDI IN] connector of the RT-123, using a MIDI cable.

For information on connections, see page 3.



Verify that the external MIDI sequencer can send the MIDI clock, start, stop, and continue signals.



For information on the setting procedure, see page 49.







Start the external MIDI sequencer.

The RT-123 operates under control of the MIDI sequencer.



Using MIDI equipment to play the RT-123

Using a MIDI sequencer, MIDI keyboard, or similar MIDI Device you can play the built-in sound sources of the RT-123.



The RT-123 produces sound according to the note numbers received via the [MIDI IN] connector. Program change messages can be used to switch drum kits and bass programs of the RT-123. For information on program change numbers and corresponding drum kits and bass programs, please refer to the "Reference" section at the end of this manual.



Returning the RT-123 to the factory default condition (initialization)

You can reset the RT-123 to the factory default condition. Use this function with care, because it will erase all patterns and songs that have been recorded by the user.





Listening to the demo



Troubleshooting

Check the following items first if there seems to be a problem with the RT-123.

| Symptom | Check | Remedy |
|--|--|--|
| | Is supplied AC adapter connected properly? | Connect AC adapter as described in "Getting Connected" (page 7). Use only the supplied AC adapter. |
| No sound or | Is [OUTPUT] jack connected correctly to the playback system? | Make connections as described in "Getting Connected" (page 7). |
| very low volume. | Is there a problem with the shielded cable? | Try using another cable. |
| | Is the connected playback system operating normally? | Check the system and make sure that the volume level is adjusted properly. |
| | Is volume of RT-123 set correctly? | Set [VOLUME] control to a suitable position. |
| Sound is distorted or intermittent. | Is output level of RT-123 set too high? | Set [VOLUME] control of RT-123 to a suitable position. |
| Song cannot be | Is RT-123 set to mode other than song mode? | Activate song mode (page 34). |
| recorded. | Is memory capacity limit reached? | Delete unneeded patterns and songs. |
| | | |
| FS01 has no effect. | Is FS01 connected correctly to [FOOT SW] jack? | Make connections as described in "Getting Connected" (page 7). |
| | Is desired function of FS01 activated? | Use [FUNCTION] key and pad 9 (FOOT SW) to select function (\rightarrow p. 47). |
| | | |
| Simultaneous playback with MIDI components is not possible. | Is the MIDI receive function set to ON? | Use the [FUNCTION] key and pad 13 (MIDI) to change the setting from "Int" (MIDI clock receive disabled) to "Midi" (MIDI clock receive enabled). |



SPECIFICATIONS

• Drum Kits:

80 (Including Percussion, SFX kit)

- Bass Programs: 25
- Rhythm Patterns: Preset; 297/User; 99
- Songs: 99
- Maximum Notes: 10,000 notes
- Maximum Polyphony: 30 voices
- Resolution: 96 PPQN
- Tempo: 40 to 250 BPM
- Pads: 13 with Velocity Sensitivity
- Control: MIDI in, Control in for FS01
- Display: 4-digit, 7-segment LED
- Input: Line; 1/4" jack (Mono)X 1, Impedance 33kΩ
- Outputs: Line (L/Mono, R); 1/4" jack (Mono)X 2, Impedance $2.2k\Omega$ or less Phones; 1/4" jack (Stereo)X 1, Output Power 50mW into 32Ω
- Power Requirements: 9V DC/300mA (from supplied AC adaptor AD-0006)
- Dimensions: 196(W) X 158(D) X 35(H)mm
- Weight: 550g
- Accessory: Footswitch FS01

* All specifications and appearance subject to change without notice.



Reference

MIDI ProgramChange# to DRUM/percussion/SFX KIT Assign

| PC | | КІТ |
|----|----|----------------|
| 0 | 9 | General Drum |
| 1 | 55 | General Drum 1 |
| 2 | 0 | Live Rock |
| 3 | 1 | Studio |
| 4 | 2 | Standard |
| 5 | 3 | Funk Trap |
| 6 | 4 | Epic Rock |
| 7 | 5 | Ballad |
| 8 | 57 | General Drum 3 |
| 9 | 6 | Modern |
| 10 | 7 | Rap/HipHop |
| 11 | 8 | Techno Beat |
| 12 | 9 | General Drum |
| 13 | 10 | Live Rock 1 |
| 14 | 11 | Live Rock 2 |
| 15 | 12 | Live Rock 3 |
| 16 | 58 | General Drum 4 |
| 17 | 13 | Live Rock 4 |
| 18 | 14 | Live Rock 5 |
| 19 | 15 | Studio 1 |
| 20 | 16 | Studio 2 |
| 21 | 17 | Studio 3 |
| 22 | 18 | Studio 4 |
| 23 | 19 | Studio 5 |
| 24 | 59 | General Drum 5 |
| 25 | 61 | General Drum 7 |
| 26 | 62 | General Drum 8 |
| 27 | 20 | Standard 1 |
| 28 | 21 | Standard 2 |
| 29 | 22 | Standard 3 |
| 30 | 23 | Standard 4 |
| 31 | 24 | Standard 5 |
| 32 | 9 | General Drum |
| 33 | 25 | Funk Trap 1 |
| 34 | 26 | Funk Trap 2 |
| 35 | 27 | Funk Trap 3 |
| 36 | 28 | Funk Trap 4 |
| 37 | 29 | Funk Trap 5 |
| 38 | 30 | Epic Rock 1 |
| 39 | 31 | Epic Rock 2 |
| 40 | 63 | General Drum 9 |
| 41 | 32 | Epic Rock 3 |
| 42 | 33 | Epic Rock 4 |

| PC | | КІТ |
|----|----|----------------------|
| 43 | 34 | Epic Rock 5 |
| 44 | 35 | Ballad 1 |
| 45 | 36 | Ballad 2 |
| 46 | 37 | Ballad 3 |
| 47 | 38 | Ballad 4 |
| 48 | 39 | Ballad 5 |
| 49 | 40 | Modern 1 |
| 50 | 78 | Kick and Snare 1 |
| 51 | 41 | Modern 2 |
| 52 | 42 | Modern 3 |
| 53 | 43 | Modern 4 |
| 54 | 44 | Modern 5 |
| 55 | 45 | Rap/HipHop 1 |
| 56 | 64 | Effected Drum |
| 57 | 64 | Effected Drum |
| 58 | 46 | Rap/HipHop 2 |
| 59 | 47 | Rap/HipHop 3 |
| 60 | 48 | Rap/HipHop 4 |
| 61 | 49 | Rap/HipHop 5 |
| 62 | 50 | Techno Beat 1 |
| 63 | 51 | Techno Beat 2 |
| 64 | 52 | Techno Beat 3 |
| 65 | 53 | Techno Beat 4 |
| 66 | 54 | Techno Beat 5 |
| 67 | 55 | General Drum 1 |
| 68 | 56 | General Drum 2 |
| 69 | 57 | General Drum 3 |
| 70 | 58 | General Drum 4 |
| 71 | 59 | General Drum 5 |
| 72 | 60 | General Drum 6 |
| 73 | 61 | General Drum 7 |
| 74 | 62 | General Drum 8 |
| 75 | 63 | General Drum 9 |
| 76 | 64 | Effected Drum |
| 77 | 65 | Drum Skins |
| 78 | 66 | Lo Percussion |
| 79 | 67 | Hi Percussion |
| 80 | 68 | Clicks and Sticks |
| 81 | 69 | Single Percussion |
| 82 | 70 | Agogo Gamelan |
| 83 | 71 | Percussion/SFX |
| 84 | 72 | Various Percussion 1 |
| 85 | 73 | Various Percussion 2 |

| PC | 1 | VIT |
|-----|----|-----------------------------|
| 86 | 74 | KIT Various Percussion 3 |
| 87 | 74 | Various Percussion 3 |
| 88 | 76 | Various Percussion 5 |
| 89 | 77 | Cymbal Set |
| 90 | 78 | Kick and Snare 1 |
| 91 | 79 | Kick and Snare 2 |
| 92 | 0 | Live Rock |
| 93 | 1 | Studio |
| 94 | 2 | Standard |
| 95 | 3 | Funk Trap |
| 96 | 4 | Epic Rock |
| 97 | 5 | Ballad |
| 98 | 6 | Modern |
| 99 | 7 | Rap/HipHop |
| 100 | 8 | Techno Beat |
| 101 | 9 | General Drum |
| 102 | 10 | Live Rock 1 |
| 103 | 11 | Live Rock 2 |
| 104 | 12 | Live Rock 3 |
| 105 | 13 | Live Rock 4 |
| 106 | 14 | Live Rock 5 |
| 107 | 15 | Studio 1 |
| 108 | 16 | Studio 2 |
| 109 | 17 | Studio 3 |
| 110 | 18 | Studio 4 |
| 111 | 19 | Studio 5 |
| 112 | 20 | Standard 1 |
| 113 | 21 | Standard 2 |
| 114 | 22 | Standard 3 |
| 115 | 23 | Standard 4 |
| 116 | 24 | Standard 5 |
| 117 | 25 | Funk Trap 1 |
| 118 | 26 | Funk Trap 2 |
| 119 | 27 | Funk Trap 3 |
| 120 | 28 | Funk Trap 4 |
| 121 | 29 | Funk Trap 5 |
| 122 | 30 | Epic Rock 1 |
| 123 | 31 | Epic Rock 2 |
| 124 | 32 | Epic Rock 3 |
| 125 | 33 | Epic Rock 4 |
| 126 | 34 | Epic Rock 5 |
| 127 | 9 | General Drum |



MIDI ProgramChange# to BASS PROGRAM Assign

.

| PC | | КІТ |
|----|----|------------------|
| 0 | 0 | Live Bass |
| 1 | 1 | Studio Bass |
| 2 | 2 | Epic Bass |
| 3 | 3 | Funk Bass |
| 4 | 4 | Ballad Bass |
| 5 | 5 | Acoustic Bass |
| 6 | 6 | Modern Bass |
| 7 | 7 | Synth Bass |
| 8 | 8 | Techno Bass |
| 9 | 9 | Big Bottom Bass |
| 10 | 10 | SubSlap Bass |
| 11 | 11 | Digital Acoustic |
| 12 | 12 | Bass Harmonics |
| 13 | 13 | No Frets |
| 14 | 14 | Acoustic Jazz |
| 15 | 15 | Digital Pick |
| 16 | 16 | Techno Analog |
| 17 | 17 | Analog Touch |
| 18 | 18 | Lo Sine |
| 19 | 19 | Harmonics Bass |
| 20 | 20 | Saw Wave |
| 21 | 21 | Square Wave |
| 22 | 22 | Hi Sine |
| 23 | 23 | Drive Bass |
| 24 | 24 | Fuzz Bass |
| 25 | 0 | Live Bass |
| 26 | 1 | Studio Bass |
| 27 | 2 | Epic Bass |
| 28 | 3 | Funk Bass |
| 29 | 4 | Ballad Bass |
| 30 | 5 | Acoustic Bass |
| 31 | 6 | Modern Bass |
| 32 | 5 | Acoustic Bass |
| 33 | 14 | Acoustic Jazz |
| 34 | 1 | Studio Bass |
| 35 | 13 | No Frets |
| 36 | 3 | Funk Bass |
| 37 | 10 | SubSlap Bass |
| 38 | 7 | Synth Bass |
| 39 | 8 | Techno Bass |
| 40 | 7 | Synth Bass |
| 41 | 8 | Techno Bass |
| 42 | 9 | Big Bottom Bass |

| PC | КІТ | |
|----|-----|------------------|
| 43 | 10 | SubSlap Bass |
| 44 | 11 | Digital Acoustic |
| 45 | 12 | Bass Harmonics |
| 46 | 13 | No Frets |
| 47 | 14 | Acoustic Jazz |
| 48 | 15 | Digital Pick |
| 49 | 16 | Techno Analog |
| 50 | 17 | Analog Touch |
| 51 | 18 | Lo Sine |
| 52 | 19 | Harmonics Bass |
| 53 | 20 | Saw Wave |
| 54 | 21 | Square Wave |
| 55 | 22 | Hi Sine |
| 56 | 23 | Drive Bass |
| 57 | 24 | Fuzz Bass |
| 58 | 0 | Live Bass |
| 59 | 1 | Studio Bass |
| 60 | 2 | Epic Bass |
| 61 | 3 | Funk Bass |
| 62 | 4 | Ballad Bass |
| 63 | 5 | Acoustic Bass |
| 64 | 6 | Modern Bass |
| 65 | 7 | Synth Bass |
| 66 | 8 | Techno Bass |
| 67 | 9 | Big Bottom Bass |
| 68 | 10 | SubSlap Bass |
| 69 | 11 | Digital Acoustic |
| 70 | 12 | Bass Harmonics |
| 71 | 13 | No Frets |
| 72 | 14 | Acoustic Jazz |
| 73 | 15 | Digital Pick |
| 74 | 16 | Techno Analog |
| 75 | 17 | Analog Touch |
| 76 | 18 | Lo Sine |
| 77 | 19 | Harmonics Bass |
| 78 | 20 | Saw Wave |
| 79 | 21 | Square Wave |
| 80 | 22 | Hi Sine |
| 81 | 23 | Drive Bass |
| 82 | 24 | Fuzz Bass |
| 83 | 0 | Live Bass |
| 84 | 1 | Studio Bass |
| 85 | 2 | Epic Bass |

| PC | | КІТ |
|-----|----|------------------|
| 86 | 3 | Funk Bass |
| 87 | 4 | Ballad Bass |
| 88 | 5 | Acoustic Bass |
| 89 | 6 | Modern Bass |
| 90 | 7 | Synth Bass |
| 91 | 8 | Techno Bass |
| 92 | 9 | Big Bottom Bass |
| 93 | 10 | SubSlap Bass |
| 94 | 11 | Digital Acoustic |
| 95 | 12 | Bass Harmonics |
| 96 | 13 | No Frets |
| 97 | 14 | Acoustic Jazz |
| 98 | 15 | Digital Pick |
| 99 | 16 | Techno Analog |
| 100 | 17 | Analog Touch |
| 101 | 18 | Lo Sine |
| 102 | 19 | Harmonics Bass |
| 103 | 20 | Saw Wave |
| 104 | 21 | Square Wave |
| 105 | 22 | Hi Sine |
| 106 | 23 | Drive Bass |
| 107 | 24 | Fuzz Bass |
| 108 | 0 | Live Bass |
| 109 | 1 | Studio Bass |
| 110 | 2 | Epic Bass |
| 111 | 3 | Funk Bass |
| 112 | 4 | Ballad Bass |
| 113 | 5 | Acoustic Bass |
| 114 | 6 | Modern Bass |
| 115 | 7 | Synth Bass |
| 116 | 8 | Techno Bass |
| 117 | 9 | Big Bottom Bass |
| 118 | 10 | SubSlap Bass |
| 119 | 11 | Digital Acoustic |
| 120 | 12 | Bass Harmonics |
| 121 | 13 | No Frets |
| 122 | 14 | Acoustic Jazz |
| 123 | 15 | Digital Pick |
| 124 | 16 | Techno Analog |
| 125 | 17 | Analog Touch |
| 126 | 18 | Lo Sine |
| 127 | 19 | Harmonics Bass |



DRUM KITs

| 0 | Live Rock |
|--|--|
| 1 | Studio |
| 2 | Standard |
| 3 | Funk Trap |
| 4 | Epic Rock |
| 5 | Ballad |
| 6 | Modern |
| 7 | Rap/HipHop |
| 8 | Techno Beat |
| 9 | General Drum |
| 10 | Live Rock 1 |
| 11 | Live Rock 2 |
| 12 | Live Rock 3 |
| 13 | Live Rock 4 |
| 14 | Live Rock 5 |
| 15 | Studio 1 |
| 16 | Studio 2 |
| 17 | Studio 3 |
| 18 | Studio 4 |
| 19 | Studio 5 |
| | |
| 20 | Standard 1 |
| - | |
| 20 | Standard 1 |
| 20 21 | Standard 1 Standard 2 |
| 20 21 22 | Standard 1 Standard 2 Standard 3 |
| 20 21 22 23 | Standard 1 Standard 2 Standard 3 Standard 4 |
| 20 21 22 23 24 | Standard 1 Standard 2 Standard 3 Standard 4 Standard 5 |
| 20 21 22 23 24 25 | Standard 1 Standard 2 Standard 3 Standard 4 Standard 5 Funk Trap 1 |
| 20 21 22 23 24 25 26 | Standard 1 Standard 2 Standard 3 Standard 4 Standard 5 Funk Trap 1 Funk Trap 2 |
| 20 21 22 23 24 25 26 27 | Standard 1 Standard 2 Standard 3 Standard 4 Standard 5 Funk Trap 1 Funk Trap 2 Funk Trap 3 |
| 20 21 22 23 24 25 26 27 28 | Standard 1 Standard 2 Standard 3 Standard 4 Standard 5 Funk Trap 1 Funk Trap 2 Funk Trap 3 Funk Trap 4 |
| 20 21 22 23 24 25 26 27 28 29 | Standard 1 Standard 2 Standard 3 Standard 4 Standard 5 Funk Trap 1 Funk Trap 2 Funk Trap 3 Funk Trap 4 Funk Trap 5 |
| 20 21 22 23 24 25 26 27 28 29 30 | Standard 1 Standard 2 Standard 3 Standard 4 Standard 5 Funk Trap 1 Funk Trap 2 Funk Trap 3 Funk Trap 4 Funk Trap 5 Epic Rock 1 |
| 20 21 22 23 24 25 26 27 28 29 30 31 | Standard 1 Standard 2 Standard 3 Standard 4 Standard 5 Funk Trap 1 Funk Trap 2 Funk Trap 3 Funk Trap 4 Funk Trap 5 Epic Rock 1 Epic Rock 2 |
| 20 21 22 23 24 25 26 27 28 29 30 31 32 | Standard 1 Standard 2 Standard 3 Standard 4 Standard 5 Funk Trap 1 Funk Trap 2 Funk Trap 3 Funk Trap 4 Funk Trap 5 Epic Rock 1 Epic Rock 2 Epic Rock 3 |
| 20 21 22 23 24 25 26 27 28 29 30 31 32 33 | Standard 1 Standard 2 Standard 3 Standard 4 Standard 5 Funk Trap 1 Funk Trap 2 Funk Trap 3 Funk Trap 4 Funk Trap 5 Epic Rock 1 Epic Rock 2 Epic Rock 3 Epic Rock 4 |
| 20 21 22 23 24 25 26 27 28 29 30 31 32 33 33 34 | Standard 1 Standard 2 Standard 3 Standard 4 Standard 5 Funk Trap 1 Funk Trap 2 Funk Trap 3 Funk Trap 4 Funk Trap 5 Epic Rock 1 Epic Rock 2 Epic Rock 3 Epic Rock 4 Epic Rock 5 |
| 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 | Standard 1 Standard 2 Standard 3 Standard 4 Standard 5 Funk Trap 1 Funk Trap 2 Funk Trap 3 Funk Trap 4 Funk Trap 5 Epic Rock 1 Epic Rock 2 Epic Rock 3 Epic Rock 4 Epic Rock 5 Ballad 1 |
| 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 | Standard 1 Standard 2 Standard 3 Standard 4 Standard 5 Funk Trap 1 Funk Trap 2 Funk Trap 3 Funk Trap 3 Funk Trap 4 Funk Trap 5 Epic Rock 1 Epic Rock 2 Epic Rock 3 Epic Rock 4 Epic Rock 5 Ballad 1 Ballad 2 |
| 20 21 22 23 24 25 26 27 28 29 30 31 32 33 32 33 34 35 36 37 | Standard 1 Standard 2 Standard 3 Standard 4 Standard 5 Funk Trap 1 Funk Trap 2 Funk Trap 2 Funk Trap 3 Funk Trap 4 Funk Trap 5 Epic Rock 1 Epic Rock 2 Epic Rock 3 Epic Rock 3 Epic Rock 4 Epic Rock 5 Ballad 1 Ballad 2 Ballad 3 |

| 40 | Modern 1 |
|----|----------------------|
| 41 | Modern 2 |
| 42 | Modern 3 |
| 43 | Modern 4 |
| 44 | Modern 5 |
| 45 | Rap/HipHop 1 |
| 46 | Rap/HipHop 2 |
| 47 | Rap/HipHop 3 |
| 48 | Rap/HipHop 4 |
| 49 | Rap/HipHop 5 |
| 50 | Techno Beat 1 |
| 51 | Techno Beat 2 |
| 52 | Techno Beat 3 |
| 53 | Techno Beat 4 |
| 54 | Techno Beat 5 |
| 55 | General Drum 1 |
| 56 | General Drum 2 |
| 57 | General Drum 3 |
| 58 | General Drum 4 |
| 59 | General Drum 5 |
| 60 | General Drum 6 |
| 61 | General Drum 7 |
| 62 | General Drum 8 |
| 63 | General Drum 9 |
| 64 | Effected Drum |
| 65 | Drum Skins |
| 66 | Lo Percussion |
| 67 | Hi Percussion |
| 68 | Clicks and Sticks |
| 69 | Single Percussion |
| 70 | Agogo Gamelan |
| 71 | Percussion/SFX |
| 72 | Various Percussion 1 |
| 73 | Various Percussion 2 |
| 74 | Various Percussion 3 |
| 75 | Various Percussion 4 |
| 76 | Various Percussion 5 |
| 77 | Cymbal Set |
| 78 | Kick and Snare 1 |
| 79 | Kick and Snare 2 |
| | |

BASS Programs

| 0 | Live Bass |
|----|------------------|
| 1 | Studio Bass |
| 2 | Epic Bass |
| 3 | Funk Bass |
| 4 | Ballad Bass |
| 5 | Acoustic Bass |
| 6 | Modern Bass |
| 7 | Synth Bass |
| 8 | Techno Bass |
| 9 | Big Bottom Bass |
| 10 | SubSlap Bass |
| 11 | Digital Acoustic |
| 12 | Bass Harmonics |
| 13 | No Frets |
| 14 | Acoustic Jazz |
| 15 | Digital Pick |
| 16 | Techno Analog |
| 17 | Analog Touch |
| 18 | Lo Sine |
| 19 | Harmonics Bass |
| 20 | Saw Wave |
| 21 | Square Wave |
| 22 | Hi Sine |
| 23 | Drive Bass |
| 24 | Fuzz Bass |

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PRESET PATTERN LIST

| No | Name | BPM | DrumA | | DrumB | | Bass | |
|-----|------------|-----|-------|----------------------|-------|----------------------|------|------------------|
| A01 | Rock01 | 130 | 0 | Live Rock | | | 0 | Live Bass |
| A02 | Rock02 | 136 | 0 | Live Rock | 10 | Live Rock 1 | 3 | Funk Bass |
| A03 | Rock03 | 136 | 27 | Funk Trap 3 | 79 | Kick and Snare 2 | 23 | Drive Bass |
| A04 | Rock04 | 136 | 25 | Funk Trap 1 | | | 1 | Studio Bass |
| A05 | Rock05 | 112 | 25 | Funk Trap 1 | 25 | Funk Trap 1 | 4 | Ballad Bass |
| A06 | Rock06 | 140 | 16 | Studio 2 | | | 4 | Ballad Bass |
| A07 | Rock07 | 120 | 0 | Live Rock | | | 15 | Digital Pick |
| A08 | Rock08 | 120 | 0 | Live Rock | 25 | Funk Trap 1 | 3 | Funk Bass |
| A09 | Rock09 | 120 | 22 | Standard 3 | 67 | Hi Percussion | 4 | Ballad Bass |
| A10 | Rock10 | 92 | 0 | Live Rock | 25 | Funk Trap 1 | 0 | Live Bass |
| A11 | Rock11 | 116 | 0 | Live Rock | 25 | Funk Trap 1 | 0 | Live Bass |
| A12 | Rock12 | 96 | 23 | Standard 4 | 11 | Live Rock 2 | 4 | Ballad Bass |
| A13 | Rock13 | 96 | 0 | Live Rock | | | 4 | Ballad Bass |
| A14 | Rock14 | 111 | 23 | Standard 4 | | | 4 | Ballad Bass |
| A15 | Rock15 | 103 | 0 | Live Rock | | | 0 | Live Bass |
| A16 | Rock16 | 120 | 41 | Modern 2 | 21 | Standard 2 | 5 | Acoustic Bass |
| A17 | Rock17 | 120 | 6 | Modern | | | 2 | Epic Bass |
| A18 | Rock18 | 99 | 3 | Funk Trap | 74 | Various Percussion 3 | 5 | Acoustic Bass |
| A19 | Rock19 | 132 | 16 | Studio 2 | 8 | Techno Beat | 23 | Drive Bass |
| A20 | Rock20 | 130 | 31 | Epic Rock 2 | 2 | Standard | 4 | Ballad Bass |
| A21 | Rock21 | 96 | 43 | Modern 4 | 9 | General Drum | 4 | Ballad Bass |
| A22 | Rock22 | 160 | 21 | Standard 2 | 25 | Funk Trap 1 | 1 | Studio Bass |
| A23 | Rock23 | 160 | 25 | Funk Trap 1 | 25 | Funk Trap 1 | 1 | Studio Bass |
| A24 | Rock24 | 120 | 23 | Standard 4 | 25 | Funk Trap 1 | 1 | Studio Bass |
| A25 | Rock25 | 100 | 13 | Live Rock 4 | 74 | Various Percussion 3 | 4 | Ballad Bass |
| A26 | Rock26 | 180 | 6 | Modern | 74 | Various Percussion 3 | 13 | No Frets |
| A27 | Rock27 | 104 | 75 | Various Percussion 4 | 20 | Standard 1 | 4 | Ballad Bass |
| A28 | HardRock01 | 103 | 6 | Modern | | | 14 | Acoustic Jazz |
| A29 | HardRock02 | 121 | 0 | Live Rock | | | 4 | Ballad Bass |
| A30 | HardRock03 | 99 | 0 | Live Rock | | | 3 | Funk Bass |
| A31 | HardRock04 | 115 | 0 | Live Rock | 67 | Hi Percussion | 4 | Ballad Bass |
| A32 | HardRock05 | 121 | 0 | Live Rock | | | 0 | Live Bass |
| A33 | HardRock06 | 136 | 0 | Live Rock | 67 | Hi Percussion | 0 | Live Bass |
| A34 | HardRock07 | 120 | 0 | Live Rock | 76 | Various Percussion 5 | 0 | Live Bass |
| A35 | HardRock08 | 79 | 0 | Live Rock | 66 | Lo Percussion | 11 | Digital Acoustic |
| A36 | Metal01 | 98 | 0 | Live Rock | 30 | Epic Rock 1 | 0 | Live Bass |
| A37 | Metal02 | 100 | 3 | Funk Trap | 6 | Modern | 2 | Epic Bass |
| A38 | Metal03 | 100 | 31 | Epic Rock 2 | 38 | Ballad 4 | 0 | Live Bass |
| A39 | Metal04 | 103 | 32 | Epic Rock 3 | 32 | Epic Rock 3 | 23 | Drive Bass |
| A40 | Metal05 | 112 | 1 | Studio | 79 | Kick and Snare 2 | 0 | Live Bass |
| A41 | Metal06 | 150 | 0 | Live Rock | | | 0 | Live Bass |
| A42 | Thrash01 | 166 | 30 | Epic Rock 1 | 34 | Epic Rock 5 | 4 | Ballad Bass |
| A43 | Thrash02 | 186 | 0 | Live Rock | | | 24 | Fuzz Bass |
| A44 | Thrash03 | 136 | 34 | Epic Rock 5 | 30 | Epic Rock 1 | 24 | Fuzz Bass |
| A45 | Thrash04 | 148 | 32 | Epic Rock 3 | 34 | Epic Rock 5 | 9 | Big Bottom Bass |
| A46 | Punk01 | 120 | 30 | Epic Rock 1 | | | 0 | Live Bass |
| A47 | Punk02 | 160 | 14 | Live Rock 5 | | | 0 | Live Bass |
| A48 | Punk03 | 158 | 25 | Funk Trap 1 | 4 | Epic Rock | 24 | Fuzz Bass |
| A49 | Punk04 | 160 | 26 | Funk Trap 2 | 1 | Studio | 4 | Ballad Bass |
| A50 | Fusion01 | 105 | 41 | Modern 2 | 21 | Standard 2 | 15 | Digital Pick |
| A51 | Fusion02 | 113 | 1 | Studio | 74 | Various Percussion 3 | 5 | Acoustic Bass |
| A52 | Fusion03 | 120 | 20 | Standard 1 | 74 | Various Percussion 3 | 15 | Digital Pick |
| A53 | Fusion04 | 94 | 18 | Studio 4 | 64 | Effected Drum | 1 | Studio Bass |
| A54 | Industry01 | 111 | 64 | Effected Drum | 76 | Various Percussion 5 | 11 | Digital Acoustic |
| A55 | Industry02 | 129 | 32 | Epic Rock 3 | 8 | Techno Beat | 11 | Digital Acoustic |
| A56 | Industry03 | 137 | 32 | Epic Rock 3 | 8 | Techno Beat | 15 | Digital Pick |
| A57 | Industry04 | 120 | 32 | Epic Rock 3 | 71 | Percussion/SFX | 9 | Big Bottom Bass |
| A58 | Pop01 | 100 | 18 | Studio 4 | | | 4 | Ballad Bass |
| , | | 100 | 10 | | I | ļ | т | Salua Bass |



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|------------|-------------|------|----------|----------------------|----|-----------------------------|----|-------------------------------|
| | Pop02 | 124 | 3 | Funk Trap | 65 | Drum Skins | 4 | Ballad Bass |
| A60 | Pop03 | 132 | 17 | Studio 3 | | | 0 | Live Bass |
| A61 | Pop04 | 112 | 2 | Standard | 67 | Hi Percussion | 0 | Live Bass |
| | Pop05 | 104 | 25 | Funk Trap 1 | | | 3 | Funk Bass |
| | Pop06 | 80 | 67 | Hi Percussion | 2 | Standard | 5 | Acoustic Bass |
| A64 | Pop07 | 117 | 47 | Rap/HipHop 3 | 67 | Hi Percussion | 4 | Ballad Bass |
| | Pop08 | 106 | 22 | Standard 3 | 41 | Modern 2 | | |
| | Pop09 | 100 | 26 | Funk Trap 2 | 2 | Standard | 4 | Ballad Bass |
| A67 | Pop10 | 124 | 35 | Ballad 1 | 67 | Hi Percussion | 4 | Ballad Bass |
| A68 | Pop11 | 110 | 16 | Studio 2 | | | 1 | Studio Bass |
| | Pop12 | 120 | 16 | Studio 2 | 31 | Epic Rock 2 | 4 | Ballad Bass |
| A70 | Pop13 | 110 | 20 | Standard 1 | 24 | Standard 5 | 2 | Epic Bass |
| A71 | R&B01 | 138 | 26 | Funk Trap 2 | 9 | General Drum | 18 | Lo Sine |
| A72 | R&B02 | 100 | 20 | Standard 1 | 67 | Hi Percussion | 0 | Live Bass |
| A73 | R&B03 | 120 | 25 | Funk Trap 1 | | | 0 | Live Bass |
| A74 | R&B04 | 116 | 23 | Standard 4 | 65 | Drum Skins | 4 | Ballad Bass |
| A75 | R&B05 | 120 | 45 | Rap/HipHop 1 | | | 3 | Funk Bass |
| A76 | R&B06 | 96 | 28 | Funk Trap 4 | 65 | Drum Skins | 4 | Ballad Bass |
| A77 | R&B07 | 168 | 26 | Funk Trap 2 | 25 | Funk Trap 1 | 0 | Live Bass |
| A78 | R&B08 | 100 | 25 | Funk Trap 1 | 67 | Hi Percussion | 3 | Funk Bass |
| A79 | R&B09 | 120 | 3 | Funk Trap | | | 2 | Epic Bass |
| A80 | R&B10 | 146 | 20 | Standard 1 | 0 | Live Rock | 0 | Live Bass |
| A81 | R&B11 | 112 | 25 | Funk Trap 1 | | | 6 | Modern Bass |
| A82 | R&B12 | 114 | 45 | Rap/HipHop 1 | 69 | Single Percussion | 18 | Lo Sine |
| A83 | R&B13 | 90 | 46 | Rap/HipHop 2 | 69 | Single Percussion | 17 | Analog Touch |
| A84 | Funk01 | 112 | 2 | Standard | 3 | Funk Trap | 3 | Funk Bass |
| A85 | Funk02 | 120 | 27 | Funk Trap 3 | | | 3 | Funk Bass |
| A86 | Funk03 | 120 | 41 | Modern 2 | 2 | Standard | 3 | Funk Bass |
| A87 | Funk04 | 112 | 28 | Funk Trap 4 | 2 | Standard | 3 | Funk Bass |
| A88 | Funk05 | 121 | 3 | Funk Trap | 47 | Rap/HipHop 3 | 3 | Funk Bass |
| A89 | Funk06 | 120 | 27 | Funk Trap 3 | | | 4 | Ballad Bass |
| | Funk07 | 98 | 28 | Funk Trap 4 | 10 | Live Rock 1 | 8 | Techno Bass |
| | Funk08 | 94 | 29 | Funk Trap 5 | 67 | Hi Percussion | 3 | Funk Bass |
| | Funk09 | 100 | 25 | Funk Trap 1 | 65 | Drum Skins | 0 | Live Bass |
| A93 | Funk10 | 92 | 26 | Funk Trap 2 | 65 | Drum Skins | 9 | Big Bottom Bass |
| | Funk11 | 112 | 2 | Standard | 3 | Funk Trap | 10 | SubSlap Bass |
| | Funk12 | 99 | 22 | Standard 3 | 68 | Clicks and Sticks | 5 | Acoustic Bass |
| | Funk13 | 125 | 49 | Rap/HipHop 5 | 71 | Percussion/SFX | 18 | Lo Sine |
| A97 | Funk14 | 92 | 27 | Funk Trap 3 | 6 | Modern | 10 | SubSlap Bass |
| | Funk15 | 100 | 21 | Standard 2 | 67 | Hi Percussion | 18 | Lo Sine |
| | Funk16 | 114 | 75 | Various Percussion 4 | 7 | Rap/HipHop | 10 | Analog Touch |
| | RapHipHop01 | 110 | 46 | Rap/HipHop 2 | 11 | Live Rock 2 | 18 | Lo Sine |
| | RapHipHop02 | 96 | 40 | Modern 1 | 77 | Cymbal Set | 18 | Lo Sine |
| B02 B03 | RapHipHop02 | 102 | 40 | Rap/HipHop | 67 | Hi Percussion | 17 | Analog Touch |
| B03 B04 | RapHipHop03 | 112 | 3 | Funk Trap | | | | Analog Touch Acoustic Jazz |
| | | | | | | | 14 | |
| B05 | RapHipHop05 | 86 | 48 | Rap/HipHop 4 | 47 | Rap/HipHop 3 | 8 | Techno Bass |
| B06 | RapHipHop06 | 96 | 21 | Standard 2 | 67 | Hi Percussion Standard 5 | 10 | SubSlap Bass |
| B07 | RapHipHop07 | 99 | 52 | Techno Beat 3 | 24 | | 4 | Ballad Bass |
| B08 | RapHipHop08 | 112 | 3 | Funk Trap | 7 | Rap/HipHop | 5 | Acoustic Bass |
| B09 | RapHipHop09 | 100 | 7 | Rap/HipHop | | | 17 | Analog Touch |
| B10 | RapHipHop10 | 112 | 7 | Rap/HipHop | 2 | Standard | 18 | Lo Sine |
| B11 | RapHipHop11 | 91 | 8 | Techno Beat | 2 | Standard | 0 | Live Bass |
| | RapHipHop12 | 112 | 3 | Funk Trap | 2 | Standard | 4 | Ballad Bass |
| B13 | RapHipHop13 | 112 | 2 | Standard | 7 | Rap/HipHop | 4 | Ballad Bass |
| B14 | RapHipHop14 | 104 | 62 | General Drum 8 | 67 | Hi Percussion | 18 | Lo Sine |
| B15 | RapHipHop15 | 112 | 6 | Modern | 5 | Ballad | 4 | Ballad Bass |
| | RapHipHop16 | 88 | 0 | Live Rock | 3 | Funk Trap | 5 | Acoustic Bass |
| B17 | RapHipHop17 | 103 | 64 | Effected Drum | 69 | Single Percussion | 16 | Techno Analog |
| B18 | RapHipHop18 | 93 | 47 | Rap/HipHop 3 | 20 | Standard 1 | 18 | Lo Sine |
| B19 | RapHipHop19 | 92 | 7 | Rap/HipHop | 70 | Agogo Gamelan | 5 | Acoustic Bass |
| | RapHipHop20 | 84 | 47 | Rap/HipHop 3 | 31 | Epic Rock 2 | 4 | Ballad Bass |





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|------------|--------------------|-----|----------|----------------|----|----------------------|----|------------------|
| B21 | RapHipHop21 | 99 | 47 | Rap/HipHop 3 | 67 | Hi Percussion | 4 | Ballad Bass |
| B22 | RapHipHop22 | 88 | 13 | Live Rock 4 | 8 | Techno Beat | 4 | Ballad Bass |
| B23 | RapHipHop23 | 88 | 13 | Live Rock 4 | 47 | Rap/HipHop 3 | 4 | Ballad Bass |
| B24 | RapHipHop24 | 102 | 51 | Techno Beat 2 | 49 | Rap/HipHop 5 | 18 | Lo Sine |
| B25 | RapHipHop25 | 90 | 3 | Funk Trap | 65 | Drum Skins | 11 | Digital Acoustic |
| B26 | RapHipHop26 | 85 | 8 | Techno Beat | 71 | Percussion/SFX | 18 | Lo Sine |
| B27 | RapHipHop27 | 96 | 10 | Live Rock 1 | 67 | Hi Percussion | 8 | Techno Bass |
| B28 | RapHipHop28 | 96 | 0 | Live Rock | 71 | Percussion/SFX | 18 | Lo Sine |
| B29 | RapHipHop29 | 87 | 62 | General Drum 8 | 71 | Percussion/SFX | 17 | Analog Touch |
| B30 | RapHipHop30 | 116 | 59 | General Drum 5 | | | 17 | Analog Touch |
| B31 | RapHipHop31 | 136 | 7 | Rap/HipHop | 69 | Single Percussion | 17 | Analog Touch |
| B32 | RapHipHop32 | 148 | 51 | Techno Beat 2 | 2 | Standard | 17 | Analog Touch |
| B33 | RapHipHop33 | 103 | 2 | Standard | 3 | Funk Trap | 5 | Acoustic Bass |
| B34 | RapHipHop34 | 107 | 3 | Funk Trap | 67 | Hi Percussion | 5 | Acoustic Bass |
| B35 | RapHipHop35 | 120 | 45 | Rap/HipHop 1 | 27 | Funk Trap 3 | 8 | Techno Bass |
| B36 | Dance01 | 111 | 8 | Techno Beat | 2 | Standard | 8 | Techno Bass |
| B37 | Dance02 | 120 | 2 | Standard | 6 | Modern | 4 | Ballad Bass |
| B37 B38 | Dance02 Dance03 | 102 | | | 47 | | 4 | Ballad Bass |
| | | | 26 | Funk Trap 2 | | Rap/HipHop 3 | | - |
| B39 | Dance04 | 107 | 50 | Techno Beat 1 | 47 | Rap/HipHop 3 | 17 | Analog Touch |
| B40 | Dance05 | 107 | 50 | Techno Beat 1 | 48 | Rap/HipHop 4 | 17 | Analog Touch |
| B41 | Dance06 | 122 | 8 | Techno Beat | 74 | Various Percussion 3 | 8 | Techno Bass |
| B42 | Dance07 | 120 | 8 | Techno Beat | 68 | Clicks and Sticks | 3 | Funk Bass |
| B43 | Dance08 | 180 | 45 | Rap/HipHop 1 | 74 | Various Percussion 3 | 18 | Lo Sine |
| B44 | Dance09 | 103 | 43 | Modern 4 | 67 | Hi Percussion | 18 | Lo Sine |
| B45 | Dance10 | 137 | 45 | Rap/HipHop 1 | | | 18 | Lo Sine |
| B46 | Dance11 | 120 | 6 | Modern | 67 | Hi Percussion | 10 | SubSlap Bass |
| B47 | Dance12 | 100 | 41 | Modern 2 | 76 | Various Percussion 5 | 8 | Techno Bass |
| B48 | House01 | 122 | 45 | Rap/HipHop 1 | 22 | Standard 3 | 17 | Analog Touch |
| B49 | House02 | 120 | 45 | Rap/HipHop 1 | 73 | Various Percussion 2 | 18 | Lo Sine |
| B50 | House03 | 120 | 53 | Techno Beat 4 | 71 | Percussion/SFX | 16 | Techno Analog |
| B51 | House04 | 126 | 45 | Rap/HipHop 1 | 68 | Clicks and Sticks | 18 | Lo Sine |
| B52 | House05 | 120 | 40 | Modern 1 | 76 | Various Percussion 5 | 8 | Techno Bass |
| B53 | House06 | 120 | 50 | Techno Beat 1 | 8 | Techno Beat | 8 | Techno Bass |
| B54 | House07 | 120 | 41 | Modern 2 | 68 | Clicks and Sticks | 7 | Synth Bass |
| | | | | General Drum 5 | | Clicks and Sticks | | Lo Sine |
| B55 | House08 | 126 | 59 | | 68 | | 18 | - |
| B56 | Techno01 | 148 | 46 | Rap/HipHop 2 | 50 | Techno Beat 1 | 20 | Saw Wave |
| B57 | Techno02 | 125 | 8 | Techno Beat | 54 | Techno Beat 5 | 17 | Analog Touch |
| B58 | Techno03 | 125 | 8 | Techno Beat | 54 | Techno Beat 5 | 17 | Analog Touch |
| B59 | Techno04 | 160 | 49 | Rap/HipHop 5 | 51 | Techno Beat 2 | 8 | Techno Bass |
| B60 | Techno05 | 138 | 51 | Techno Beat 2 | 68 | Clicks and Sticks | 18 | Lo Sine |
| B61 | Techno06 | 164 | 7 | Rap/HipHop | 68 | Clicks and Sticks | 18 | Lo Sine |
| B62 | Techno07 | 118 | 6 | Modern | 8 | Techno Beat | 17 | Analog Touch |
| B63 | Techno08 | 126 | 54 | Techno Beat 5 | 46 | Rap/HipHop 2 | 18 | Lo Sine |
| B64 | Techno09 | 140 | 45 | Rap/HipHop 1 | 68 | Clicks and Sticks | 18 | Lo Sine |
| B65 | Techno10 | 136 | 45 | Rap/HipHop 1 | 68 | Clicks and Sticks | 18 | Lo Sine |
| B66 | Techno11 | 120 | 49 | Rap/HipHop 5 | 71 | Percussion/SFX | 18 | Lo Sine |
| B67 | Techno12 | 119 | 30 | Epic Rock 1 | 52 | Techno Beat 3 | 17 | Analog Touch |
| B68 | Techno13 | 127 | 59 | General Drum 5 | 67 | Hi Percussion | 22 | Hi Sine |
| B69 | Techno14 | 170 | 61 | General Drum 7 | 71 | Percussion/SFX | 17 | Analog Touch |
| B70 | Techno15 | 120 | 51 | Techno Beat 2 | 46 | Rap/HipHop 2 | 2 | Epic Bass |
| B71 | Drum&Bass01 | 150 | 45 | Rap/HipHop 1 | 46 | Rap/HipHop 2 | 18 | Lo Sine |
| B72 | Drum&Bass02 | 150 | 26 | Funk Trap 2 | 7 | Rap/HipHop | 18 | Lo Sine |
| B72 | Drum&Bass03 | 158 | 46 | Rap/HipHop 2 | 78 | Kick and Snare 1 | 5 | Acoustic Bass |
| B73 | Drum&Bass04 | 166 | 40 60 | General Drum 6 | 61 | General Drum 7 | 18 | Lo Sine |
| | | | | | | | | - |
| B75 | Drum&Bass05 | 164 | 45 | Rap/HipHop 1 | 67 | Hi Percussion | 18 | Lo Sine |
| B76 | Drum&Bass06 | 144 | 7 | Rap/HipHop | 8 | Techno Beat | 18 | Lo Sine |
| B77 | Drum&Bass07 | 154 | 7 | Rap/HipHop | 2 | Standard | 18 | Lo Sine |
| B78 | Drum&Bass08 | 154 | 29 | Funk Trap 5 | 65 | Drum Skins | 18 | Lo Sine |
| B79 | Drum&Bass09 | 154 | 25 | Funk Trap 1 | 50 | Techno Beat 1 | 5 | Acoustic Bass |
| | | | | Otau alawal 4 | | Chanalanal 1 | 14 | Acoustic Jazz |
| B80 | Drum&Bass10 | 150 | 23 | Standard 4 | 20 | Standard 1 | 14 | ACOUSTIC JAZZ |



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|------------|----------------|------------|----|----------------|----|----------------------|----------|-----------------------------------|
| B82 | Jungle01 | 160 | 45 | Rap/HipHop 1 | 62 | General Drum 8 | 18 | Lo Sine |
| B83 | Jungle02 | 163 | 61 | General Drum 7 | 66 | Lo Percussion | 18 | Lo Sine |
| B84 | Jungle03 | 172 | 41 | Modern 2 | 65 | Drum Skins | 18 | Lo Sine |
| B85 | TripHop01 | 120 | 45 | Rap/HipHop 1 | 46 | Rap/HipHop 2 | 5 | Acoustic Bass |
| B86 | TripHop02 | 75 | 63 | General Drum 9 | 67 | Hi Percussion | 14 | Acoustic Jazz |
| B87 | TripHop03 | 152 | 47 | Rap/HipHop 3 | 71 | Percussion/SFX | 5 | Acoustic Bass |
| B88 | TripHop04 | 83 | 46 | Rap/HipHop 2 | 7 | Rap/HipHop | 18 | Lo Sine |
| B89 | TripHop05 | 110 | 67 | Hi Percussion | 47 | Rap/HipHop 3 | 8 | Techno Bass |
| B90 | TripHop06 | 101 | 41 | Modern 2 | 49 | Rap/HipHop 5 | 4 | Ballad Bass |
| B91 | TripHop07 | 101 | 61 | General Drum 7 | 66 | Lo Percussion | 13 | No Frets |
| B92 | TripHop08 | 73 | 44 | Modern 5 | 67 | Hi Percussion | 10 | SubSlap Bass |
| B93 | TripHop09 | 97 | 64 | Effected Drum | 66 | Lo Percussion | 4 | Ballad Bass |
| B94 | Ambient01 | 112 | 1 | Studio | 7 | Rap/HipHop | 18 | Lo Sine |
| B95 | Ambient02 | 98 | 60 | General Drum 6 | 68 | Clicks and Sticks | 4 | Ballad Bass |
| B96 | Ambient03 | 157 | 46 | Rap/HipHop 2 | 46 | Rap/HipHop 2 | 18 | Lo Sine |
| B97 | Ambient04 | 94 | 46 | Rap/HipHop 2 | 40 | Rap/HipHop 2 | 17 | Analog Touch |
| | | | | | 40 | нар/пірпор 2 | | |
| B98 | Ambient05 | 89 | 7 | Rap/HipHop | | | 18 | Lo Sine |
| B99 | Ambient06 | 96 | 7 | Rap/HipHop | | | 8 | Techno Bass |
| C01 | Ballad01 | 76 | 5 | Ballad | 25 | Funk Trap 1 | 4 | Ballad Bass |
| C02 | Ballad02 | 75 | 21 | Standard 2 | 77 | Cymbal Set | 4 | Ballad Bass |
| C03 | Ballad03 | 65 | 5 | Ballad | 77 | Cymbal Set | 4 | Ballad Bass |
| C04 | Ballad04 | 152 | 0 | Live Rock | 60 | General Drum 6 | 18 | Lo Sine |
| C05 | Ballad05 | 65 | 5 | Ballad | 20 | Standard 1 | 4 | Ballad Bass |
| C06 | Ballad06 | 108 | 21 | Standard 2 | 78 | Kick and Snare 1 | 0 | Live Bass |
| C07 | Ballad07 | 99 | 2 | Standard | 3 | Funk Trap | 4 | Ballad Bass |
| C08 | Ballad08 | 80 | 13 | Live Rock 4 | 26 | Funk Trap 2 | 13 | No Frets |
| C09 | Ballad09 | 75 | 30 | Epic Rock 1 | | | 4 | Ballad Bass |
| C10 | Blues01 | 120 | 3 | Funk Trap | | | 4 | Ballad Bass |
| C11 | Blues02 | 72 | 23 | Standard 4 | 2 | Standard | 4 | Ballad Bass |
| C12 | Blues03 | 120 | 3 | Funk Trap | | | 4 | Ballad Bass |
| C13 | Blues04 | 111 | 0 | Live Rock | 67 | Hi Percussion | 4 | Ballad Bass |
| C14 | Blues05 | 120 | 3 | Funk Trap | | | 4 | Ballad Bass |
| | | | | | | | | |
| C15 | Blues06 | 111 | 24 | Standard 5 | 37 | Ballad 3 | 4 | Ballad Bass |
| C16 | Blues07 | 64 | 35 | Ballad 1 | 19 | Studio 5 | 9 | Big Bottom Bass |
| C17 | Triple01 | 126 | 20 | Standard 1 | | | 5 | Acoustic Bass |
| C18 | Triple02 | 102 | 1 | Studio | | | 4 | Ballad Bass |
| C19 | Triple03 | 94 | 67 | Hi Percussion | 2 | Standard | 5 | Acoustic Bass |
| C20 | Triple04 | 105 | 1 | Studio | 4 | Epic Rock | 2 | Epic Bass |
| C21 | Triple05 | 140 | 14 | Live Rock 5 | | | 4 | Ballad Bass |
| C22 | Country01 | 120 | 23 | Standard 4 | | | 4 | Ballad Bass |
| C23 | Country02 | 120 | 16 | Studio 2 | 78 | Kick and Snare 1 | 5 | Acoustic Bass |
| C24 | Country03 | 95 | 2 | Standard | | | 4 | Ballad Bass |
| C25 | Country04 | 115 | 63 | General Drum 9 | | | 0 | Live Bass |
| C26 | Country05 | 96 | 20 | Standard 1 | 65 | Drum Skins | 5 | Acoustic Bass |
| C27 | Country06 | 100 | 2 | Standard | | | 4 | Ballad Bass |
| C28 | Jazz01 | 125 | 3 | Funk Trap | 74 | Various Percussion 3 | 5 | Acoustic Bass |
| C29 | Jazz02 | 121 | 3 | Funk Trap | | | 5 | Acoustic Bass |
| C30 | Jazz03 | 94 | 3 | Funk Trap | 74 | Various Percussion 3 | 5 | Acoustic Bass |
| C31 | Jazz04 | 100 | 2 | Standard | 74 | Percussion/SFX | 4 | Ballad Bass |
| C32 | Jazz05 | 123 | 3 | Funk Trap | 67 | Hi Percussion | 4 | Ballad Bass |
| | Jazz06 | | | Standard 4 | | | 4 5 | Acoustic Bass |
| C33 | | 123 | 23 | | 72 | Various Percussion 1 | | |
| C34 | Shuffle01 | 125 | 3 | Funk Trap | | | 4 | Ballad Bass |
| C35 | Shuffle02 | 120 | 0 | Live Rock | 25 | Funk Trap 1 | 11 | Digital Acoustic |
| C36 | Shuffle03 | 122 | 26 | Funk Trap 2 | 20 | Standard 1 | 17 | Analog Touch |
| C37 | Shuffle04 | 120 | 23 | Standard 4 | 65 | Drum Skins | 1 | Studio Bass |
| | Ska01 | 160 | 25 | Funk Trap 1 | 73 | Various Percussion 2 | 4 | Ballad Bass |
| C38 | | | 2 | Standard | 3 | Funk Trap | 0 | Live Bass |
| C38 C39 | Ska02 | 141 | 2 | | | | | |
| | Ska02 Ska03 | 141 160 | 21 | Standard 2 | 67 | Hi Percussion | 14 | Acoustic Jazz |
| C39 | | | | | 67 | Hi Percussion | 14 11 | Acoustic Jazz Digital Acoustic |
| C39 C40 | Ska03 | 160 | 21 | Standard 2 | | | | |



| C14 | Baggaa00 | 160 | 00 | Standard 4 | 67 | Hi Percussion | 5 | Acoustic Bass |
|------------|--------------------------------|-----|----|----------------------|----|----------------------|--------|-----------------------------------|
| | Reggae02 | 160 | 23 | | 67 | | 5 4 | |
| | Reggae03 | 132 | 25 | Funk Trap 1 | 67 | Hi Percussion | | Ballad Bass |
| | Reggae04 | 118 | 21 | Standard 2 | 16 | Studio 2 | 4 | Ballad Bass |
| C47 | Reggae05 | 161 | 3 | Funk Trap | | | 4 | Ballad Bass |
| | Reggae06 | 129 | 3 | Funk Trap | 74 | Various Percussion 3 | 5 | Acoustic Bass |
| C49 | Reggae07 | 149 | 56 | General Drum 2 | 67 | Hi Percussion | 18 | Lo Sine |
| C50 | Reggae08 | 71 | 41 | Modern 2 | 67 | Hi Percussion | 17 | Analog Touch |
| C51 | Afro01 | 98 | 73 | Various Percussion 2 | 66 | Lo Percussion | 13 | No Frets |
| C52 | Afro02 | 142 | 41 | Modern 2 | 21 | Standard 2 | 4 | Ballad Bass |
| C53 | Afro03 | 97 | 25 | Funk Trap 1 | 65 | Drum Skins | 3 | Funk Bass |
| C54 | Afro04 | 115 | 25 | Funk Trap 1 | 66 | Lo Percussion | 3 | Funk Bass |
| C55 | Afro05 | 111 | 25 | Funk Trap 1 | 65 | Drum Skins | 2 | Epic Bass |
| C56 | Afro06 | 106 | 22 | Standard 3 | 73 | Various Percussion 2 | 3 | Funk Bass |
| C57 | Afro07 | 95 | 29 | Funk Trap 5 | 67 | Hi Percussion | 6 | Modern Bass |
| C58 | Afro08 | 92 | 67 | Hi Percussion | 66 | Lo Percussion | 4 | Ballad Bass |
| C59 | Afro09 | 115 | 66 | Lo Percussion | 78 | Kick and Snare 1 | 18 | Lo Sine |
| C60 | Afro10 | 123 | 3 | Funk Trap | 66 | Lo Percussion | 4 | Ballad Bass |
| C61 | Afro11 | 116 | 48 | Rap/HipHop 4 | 66 | Lo Percussion | 18 | Lo Sine |
| C62 | Afro12 | 106 | 67 | Hi Percussion | 66 | Lo Percussion | 5 | Acoustic Bass |
| C63 | Latin01 | 118 | 21 | Standard 2 | 74 | Various Percussion 3 | 4 | Ballad Bass |
| C64 | Latin02 | 150 | 3 | Funk Trap | 2 | Standard | 5 | Acoustic Bass |
| C65 | Latin02 | 104 | 25 | Funk Trap 1 | 71 | Percussion/SFX | 4 | Ballad Bass |
| | Latin03 | 104 | 65 | Drum Skins | 67 | Hi Percussion | 4 | |
| C66 | | | | | 74 | | 14 | Digital Acoustic Acoustic Jazz |
| C67 | Latin05 | 100 | 6 | Modern | | Various Percussion 3 | | |
| C68 | Latin06 | 100 | 65 | Drum Skins | 67 | Hi Percussion | 5 | Acoustic Bass |
| C69 | Latin07 | 120 | 16 | Studio 2 | 2 | Standard | 5 | Acoustic Bass |
| C70 | Latin08 | 78 | 76 | Various Percussion 5 | 73 | Various Percussion 2 | 4 | Ballad Bass |
| C71 | Latin09 | 110 | 25 | Funk Trap 1 | 65 | Drum Skins | 3 | Funk Bass |
| C72 | Latin10 | 88 | 72 | Various Percussion 1 | 74 | Various Percussion 3 | 4 | Ballad Bass |
| C73 | Latin11 | 141 | 22 | Standard 3 | 74 | Various Percussion 3 | 4 | Ballad Bass |
| C74 | Latin12 | 109 | 1 | Studio | 67 | Hi Percussion | 4 | Ballad Bass |
| C75 | Latin13 | 100 | 26 | Funk Trap 2 | | | 3 | Funk Bass |
| C76 | MiddleEast01 | 120 | 25 | Funk Trap 1 | 65 | Drum Skins | 6 | Modern Bass |
| C77 | MiddleEast02 | 112 | 2 | Standard | 66 | Lo Percussion | 4 | Ballad Bass |
| C78 | MiddleEast03 | 106 | 23 | Standard 4 | 67 | Hi Percussion | 4 | Ballad Bass |
| C79 | Celtic01 | 122 | 2 | Standard | 66 | Lo Percussion | 5 | Acoustic Bass |
| C80 | Celtic02 | 136 | 26 | Funk Trap 2 | 39 | Ballad 5 | 4 | Ballad Bass |
| C81 | Polyrhythm01 | 100 | 66 | Lo Percussion | 67 | Hi Percussion | 22 | Hi Sine |
| C82 | Polyrhythm02 | 100 | 66 | Lo Percussion | 67 | Hi Percussion | 19 | Harmonics Bass |
| C83 | Riff01 | 132 | 0 | Live Rock | | | | |
| C84 | Riff02 | 114 | 0 | Live Rock | | | | |
| | Riff03 | 114 | 1 | Studio | | | | |
| | Riff04 | 114 | 1 | Studio | | | | |
| C87 | Arpeggio01 | 110 | | | | | 12 | Bass Harmonics |
| C88 | Arpeggio01 Arpeggio02 | 110 | 70 | | | | | |
| C88 C89 | Arpeggi002 PercussionPart01 | | | Agogo Gamelan | 65 | | | |
| | | 110 | | | | Drum Skins | | |
| C90 | PercussionPart02 | 110 | 66 | Lo Percussion | 67 | | | |
| C91 | PercussionPart03 | 110 | | | 67 | Hi Percussion | | |
| C92 | BD&SDPart | 110 | 34 | Epic Rock 5 | | | | |
| C93 | HiHatPart | 110 | | | 20 | Standard 1 | | |
| C94 | Click&CymbalPar | 110 | | | 8 | Techno Beat | | |
| C95 | TambarinePart | 110 | 67 | Hi Percussion | | | | |
| C96 | HeavyDrumPatter | 110 | 1 | Studio | | | | |
| C97 | SpeedDrumPatter | 110 | 6 | Modern | | | | |
| C98 | SlapBassPattern | 120 | | | | | 3 | Funk Bass |
| | FingerBassPatte | 110 | | | | | 4 | Ballad Bass |



ZOOM RhythmTrak RT-123 Note Number Table

| | | DRUM A,B | DRUM A,B KIT 65 - | BASS Programs |
|----|----------|-----------------------------|--|---------------|
| | Note No | KIT 00 - 64 | PERCUSS & SE | 00 - 24 |
| C2 | 24 | | | From Note 0 |
| | 25 | | | |
| | 26 | | | |
| | 27 | High Q | ← | |
| | 28 | Slap | ← | |
| | 29 | Scratch Push | ← | |
| | 30 | Scratch Pull | ← | |
| | 31 | Sticks | ← | |
| | 32 | Square Click | ← | |
| | 33 | Metronome Click | → | |
| | 34 | Metronome Bell | ← | |
| | 35 | Kick Drum 2 | | |
| C3 | 36 | Kick Drum 1 | PAD 1 | |
| | 37 | Side Stick | PAD 2 | |
| | 38 | Snare Drum 1 | PAD 3 | |
| | 39 | Hand Clap | PAD 4 | BASS sound |
| | 40 | Snare Drum 2 | PAD 5 | source range |
| | 41 | Low Tom 2 | PAD 6 | |
| | 42 | Closed Hi-Hat | PAD 7 | |
| | 43 | Low Tom 1 | PAD 8 | |
| | 44 | Pedal Hi-Hat | PAD 9 | |
| | 45 | Mid Tom 2 | PAD 10 | |
| | 46 | Open Hi-Hat | PAD 11 | |
| | 47 | Mid Tom 1 | PAD 12 | |
| C4 | 48 | High Tom 2 | PAD 13 | |
| | 49 | Crash Cymbal 1 | | |
| | 50 | High Tom 1 | | |
| | 51 | Ride Cymbal 1 | | |
| | 52 | Chinese Cymbal | | |
| | 53 | Ride Bell | | |
| | 54 | Tambourine | | |
| | 55 | Splash Cymbal | | |
| | 56 | Cowbell | | |
| | 57 | Crash Cymbal 2 | | |
| | 58 | Vibraslap Dida Orachal O | \leftarrow | |
| CF | 59 | Ride Cymbal 2 | | |
| C5 | 60 61 | High Bongo | | |
| | | Low Bongo | \leftarrow | |
| | 62 63 | Mute High Conga | $\begin{array}{c} \leftarrow \\ \leftarrow \\ \end{array}$ | |
| | | Open High Conga | \leftarrow | |
| | 64 | Low Conga | | |
| | 65 | High Timbale | \leftarrow | |
| | 66 | Low Timbale | \rightarrow | |
| | 67 68 | High Agogo | | ↓ ↓ |
| | | Low Agogo | | ▼ |
| | 69 70 | Cabasa | $\stackrel{\bullet}{\leftarrow}$ | |
| | 70 | Maracas Short Whistle | \leftarrow | |
| C6 | 71 | Long Whistle | \leftarrow | |
| | 72 | Short Guiro | ↓ ← | |
| | 73 | Long Guiro | , ← | |
| | 74 | Claves | \leftarrow | |
| | 76 | High Wood Block | ↓ ↓ | |
| | 77 | Low Wood Block | - | |
| | 78 | Mute Cuica | - | |
| | 78 | Open Cuica | | |
| | 80 | Mute Triangle | | |
| | 81 | Open Triangle | → (| |
| | 82 | Shaker | | |
| | 83 | Jingle Bell | → (| |
| C7 | 84 | Belltree | | |
| | 85 | Castanets | | |
| | 86 | Mute Surdo | - | |
| | 87 | Open Surdo | | |
| | 88 | | | |

For some bass programs, the upper sound source note # changes.



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DRUM A,B KIT 65 -Percuss & SE

| KIT No | KIT 65 | KIT 66 | KIT 67 | KIT 68 | KIT 69 | KIT 70 |
|--------------|-------------------|----------------|---------------|-------------------|-------------------|-------------------|
| kit name | Drum Skins | Lo Percussion | Hi Percussion | Clicks and Sticks | Single Percussion | Agogo Gamelan |
| PAD | | | | | | |
| PAD 1 | Hi Conga 1 | Lo Timbale | Agogo | LiveStick | Belltree | Agogo Gamelan C |
| AD 2 | PAD 2 Hi Conga 2 | Lo Conga 1 | LooseShaker 1 | StudioSticks | Hi Belltree | Agogo Gamelan C# |
| PAD 3 | Lo Conga 1 | Lo Conga 2 | Cowbell | X-Sticks | Jinglebells | Agogo Gamelan D |
| AD 4 | PAD 4 Lo Conga 2 | Hi Conga 1 | LooseShaker 2 | GuiroTick | Hi Jinglebells | Agogo Gamelan D# |
| PAD 5 | Mute Conga 1 | VeryLo Conga 1 | Clave | Clave 1 | Whistle | Agogo Gamelan E |
| PAD 6 | Mute Conga 2 | Muted Conga | TightShaker | Clave 2 | Hi Whistle | Agogo Gamelan F |
| PAD 7 | Lo Conga 3 | VeryLo Conga 2 | GuiroScrape 1 | Castenet 1 | Vibraslap | Agogo Gamelan F# |
| PAD 8 | PAD 8 Lo Timbale | Bass | Tamborine 1 | 909WoodTick 1 | Muted Triangle 1 | Agogo Gamelan G |
| PAD 9 | Hi Bongo | Mid Conga | GuiroScrape 2 | Castanet 2 | Hi Vibraslap | Agogo Gamelan G# |
| AD 10 | PAD 10 Hi Timbale | Lo Conga 3 | Tamborine 2 | 909WoodTick 2 | Lo Muted Triangle | Agogo Gamelan A |
| AD 11 | PAD 11 Lo Bongo | Lo Conga 4 | GuiroTick | Castanet 3 | VeryHi Vibraslap | Agogo Gamelan A# |
| PAD 12 Stick | Stick | Lo Stick | Tamborine 3 | 909WoodTick 3 | Muted Triangle 2 | Agogo Gamelan B |
| AD 13 | PAD 13 HandTom | HandTom | Vibraslap | StudioSticks | Lo Open Triangle | Agogo Gamelan C 2 |

| Ā | KIT No | KIT 71 | KIT 72 | KIT 73 | KIT 74 | KIT 75 | KIT 76 |
|------|---------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| КIТ | KIT NAME | Percussion/SFX | Various Percussion 1 | Various Percussion 2 | Various Percussion 3 | Various Percussion 4 | Various Percussion 5 |
| note | PAD | | | | | | |
| 36 | PAD 1 | Mute High Conga | > | > | > | > | > |
| 37 | PAD 2 | Open High Conga | > | > | > | > | > |
| 38 | PAD 3 | Low Conga | > | > | > | > | > |
| 39 | PAD 4 | Hand Clap | > | > | > | > | > |
| 40 | PAD 5 | Pedal Hi-Hat | > | > | > | > | > |
| 41 | 9 DAD 6 | Chinese Cymbal | > | > | > | > | > |
| 42 | 7 DAP | Crash Cymbal 2 | > | > | > | > | > |
| 43 | PAD 8 | High Q | Metronome Click | High Bongo | Cabasa | High Woodblock | Shaker |
| 44 | 6 DAP 9 | Slap | Metronome Bell | Lo Bongo | Maracas | Lo Woodblock | Jingle Bell |
| 45 | PAD 10 | PAD 10 Scratch Push | Splash Cymbal | High Timbale | Short Hi Whistle | Mute Cuica | Belltree |
| 46 | PAD 11 | PAD 11 Scratch Pull | Vibraslap | Lo Timbale | Long Low Whistle | Open Cuica | Castanets |
| 47 | PAD 12 Sticks | Sticks | Ride Cymbal 2 | High Agogo | Short Guiro | Mute Triangle | Mute Surdo |
| 48 | PAD 13 | PAD 13 Square Click | Claves | Lo Agogo | Long Guiro | Open Triangle | Open Surdo |

| KIT 79 | 1 Kick and Snare 2 | | Epic Kick 1 | Epic Snare 1 | Epic Kick 2 | Epic Snare 2 | Ballad Kick | Modern Snare | Modern Kick 1 | General Snare 1 | Modern Kick 2 | General Snare 2 | General Kick | Kick Verb | Snara Varh |
|--------|--------------------|------|-------------|--------------|--------------|---------------|---------------|----------------|---------------------------|-----------------------|------------------------|----------------------|-----------------------|-------------------------|---------------|
| KIT 78 | Kick and Snare | | Live Kick 1 | Live Snare 1 | Live Kick 2 | Live Snare 2 | Studio Kick 1 | Studio Snare 1 | Studio Kick 2 | Studio Snare 2 | Standard Kick 1 | Funk Snare 1 | Standard Kick 2 | Funk Snare 2 | Funk Kick |
| KIT 77 | Cymbal Set | | Live Splash | Funk Splash | Dance Splash | Techno Splash | Funk China | Dance China | PAD 7 Funk and Live Crash | Epic and Studio Crash | PAD 9 Techno 808 Crash | PAD 10 Ride Cymbal 2 | PAD 11 Epic Tamborine | PAD 12 Studio Tamborine | PAD 13 Cabasa |
| KIT No | KIT NAME | PAD | PAD 1 | PAD 2 | PAD 3 | PAD 4 | PAD 5 | PAD 6 | PAD 7 | PAD 8 | PAD 9 | PAD 10 | PAD 11 | PAD 12 | PAD 13 |
| .IY | КIТ | note | 98 | 37 | 38 | 68 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

200M Rhythmirak PT-123

| List |
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| EXTRA |
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| Drum |

| EXTRA3 | Hand Clap | Hand Clap | Hand Clap | Hand Clap | Hand Clap | Hand Clap | Hand Clap | Hand Clap | Hand Clap | Tambourine | Tambourine | Splash Cymbal | Tambourine | Splash Cymbal | Tambourine | Sulash Cymhal | Tambourine | Splash Cymbal | Tambourine | Tambourine | Splash Cymbal | | | Tambourine | Splash Cymbal | Tambourine | Splash Cymbal | Tambourine | Lambourine Solach Cymhal | Tambouring | Splash Cymbal | Tambourine | Tambourine | Splash Cymbal | Tambourine | Splash Cymbal | Tambourine | Splash Cymbal | Tambourine | Splash Cymbal | Tambourine | Splash Cymbal | Tambourine | Splash Cymbal | Tambourine | Splash Cymbal | Tambourine | Splash Cymbal | Tambourine | Selash Cymhal | | 2 | Splash Cymbal | Splash Cymbal Tambourine | Splash Cymbal Tambourine Tambourine |
|--------------|------------|-------------|--------------|------------|--------------------------|------------|------------|-------------|--------------|------------|---------------|----------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|------------------------|---------------|------------|---------------|----------------|---------------|---------------|------------|-----------------------------|-----------------------|---------------|--------------|---------------|----------------|---------------|---------------|-------------------------|----------------|---------------|---------------|----------------------------|----------------|---------------|---------------|------------------------------|----------------|---------------|---------------|----------------|----------------------------------|----------------|---------------|---------------|-----------------------------|---|
| EXTRA CYMBAL | Ride Bell | Ride Bell | Ride Bell | Ride Bell | HIde Bell Dide Bell | Ride Bell | Ride Bell | Ride Bell | Ride Bell | Ride Bell | Crash Cymbal2 | Ride Bell | Splash Cymbal | Crash Cymbal2 | Croch Cumbelo | Ride Rell | Splash Cymbal | Crash Cymbal2 | Ride Bell | Crash Cymbal2 | Ride Bell | | Ride Bell | Crash Cymbal2 | Ride Bell | Splash Cymbal | Crash Cymbal2 | Ride Bell | Crash Cymbal2 | Sulash Cymhal | Crash Cymbal2 | Ride Bell | Crash Cymbal2 | Ride Bell | Splash Cymbal | Crash Cymbal2 | Crash Cymhalo | Ride Bell | Splash Cymbal | Crash Cymbal2 | Ride Bell Crash Cymhal2 | Ride Bell | Splash Cymbal | Crash Cymbal2 | Ride Bell Crash Cymhalo | Ride Bell | Splash Cymbal | Crash Cymbal2 | Ride Bell | Crash Cymbal2 Bide Bell | Solash Cymbal | Crash Cymhal? | | Ride Bell | Ride Bell Crash Cymbal2 |
| EXTRA2 | Cowbell | Cowbell | Cowbell | Cowbell | Cowbell | Cowbell | Cowbell | Cowbell | Cowbell | Cowbell | Cowbell | Chinese Cymbal | Hand Clap | Tambourine | Cowbell | Chinese Cymhal | Hand Clap | Tambourine | Cowbell | Cowbell | | Tombolizino | Cowhell | Cowbell | Chinese Cymbal | Hand Clap | Tambourine | Cowbell | Cowbell Chinese Cymhal | Hand Clan | Tambourine | Cowbell | Cowbell | Chinese Cymbal | Hand Clap | Tambourine | Cowbell | Chinese Cymbal | Hand Clap | Tambourine | Cowbell | Chinese Cymbal | Hand Clap | Tambourine | Cowbell | Chinese Cymbal | Hand Clap | Tambourine | Cowbell | Chinese Cymhal | Hand Clan | Tambourine | | Cowbell | Cowbell |
| EXTRA1 | Side Stick | Side Stick | Side Stick | Side Stick | Side Stick | Side Stick | Side Stick | Side Stick | Side Stick | Hand Clap | Side Stick | Cowbell | Side Stick | Hand Clap | Pand Clap | Cowhell | Side Stick | Hand Clap | Hand Clap | Side Stick | Cowbell Cide Stiels | | Hand Clan | Side Stick | Cowbell | Side Stick | Hand Clap | Hand Clap | Side Stick | COWDEII Sida Stick | Hand Clap | Hand Clap | Side Stick | Cowbell | Side Stick | Hand Clap | Hand Clap Side Stick | Cowbell | Side Stick | Hand Clap | Hand Clap Side Stick | Cowbell | Side Stick | Hand Clap | Hand Clap Side Stick | Cowbell | Side Stick | Hand Clap | Hand Clap | Side Stick | Side Stick | Hand Clap | | Hand Clap | Hand Clap Side Stick |
| KIT NAME | LiveRock | Studio Rock | Standard Kit | Funk Rock | Epic Hock Ballad Back | Dance Rock | RapHipHop | Techno Beat | General Drum | LiveRock1 | LiveRock2 | LiveRock3 | LiveRock4 | LiveRock5 | Studio Rock1 | Studio Rock3 | Studio Rock4 | Studio Rock5 | Standard Kit1 | Standard Kit2 | Standard Kit3 | Standard Nit4 | Funk Rock1 | Funk Rock2 | Funk Rock3 | Funk Rock4 | Funk Rock5 | Epic Rock1 | Epic Rock2 Epic Book3 | Epic Rocks | Epic Rock5 | Ballad Rock1 | Ballad Rock2 | Ballad Rock3 | Ballad Rock4 | Ballad Rock5 | Dance Rock1 | Dance Rock3 | Dance Rock4 | Dance Rock5 | Карнірнор1 Варнірнор2 | RapHipHop3 | RapHipHop4 | RapHipHop5 | Techno Beat1 Techno Beat2 | Techno Beat3 | Techno Beat4 | Techno Beat5 | General Drum 1 | General Drum 2 General Drum 3 | General Drum 4 | | | General Drum 6 | General Drum 6 General Drum 7 |
| KIT No | 0 | . | | с, . | 4 ч | 9 | 7 | | | 10 | ÷ | | | | ດ ເ | | - 00 | | | 21 | | | 25 | | | 28 | | | 31 | | | | | 37 | | | 40 | | 43 | | 45 46 | | | | 20 21 | | | | | | | 59 | | - | |

Reference



NONE.

2.RECOGNIZED DATA

1) CHANNEL VOICE MESSAGES

| STATUS | SECOND | THIRD | DESCRIOTION |
|-----------|-----------|-----------|--|
| 1000 nnnn | 0kkk kkkk | 0vvv vvvv | NOTE OFF (See NOTE 1) kkk kkkk : Note No. vvv vvvv : Note Off Velocity (ignored) |
| 1001 nnnn | 0kkk kkkk | 0000 0000 | NOTE OFF (See NOTE 1) kkk kkkk : Note No. |
| 1001 nnnn | 0kkk kkkk | Οννν νννν | NOTE ON (See NOTE 1) kkk kkkk : Note No. vvv vvvv : Note On Velocity (not 0) |
| 1011 nnnn | 0ccc cccc | Οννν νννν | CONTROL CHANGE ccc cccc : Control No. 7 Volume 10 Panpot (See NOTE 3) vvv vvvv : Control Value |
| 1100 nnnn | qqqq qqq0 | | PROGRAM CHANGE ppp pppp : Program Number (See NOTE 2) |
| 1110 nnnn | 0vvv vvvv | 0vvv vvvv | PITCH BENDER CHANGE (See NOTE 3) vvv vvvv vvv Pitch Bend Value |

NOTE: nnnn = MIDI Channel Number (0000 - 1111)

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- 1. Note Off Messages on Drum Channel(s) will be ignored.
- 2. Relationship between Program Numbers and Kit Numbers are assigned as described in Drum Kits/Bass Program List.

Pitch Bend values will be used only MS7bits.
 Pitch Bending will be effected continuously only on Bass Channel.
 Panpot Controller will also be effected only on Bass Channel.



2) CHANNEL MODE MESSAGE

| STATUS | SECOND | THIRD | DESCRIPTION |
|-----------|-----------|-----------|-----------------------|
| 1011 nnnn | 0111 1000 | 0000 0000 | ALL SOUNDS OFF |
| 1011 nnnn | 0111 1001 | 0000 0000 | RESET ALL CONTROLLERS |
| 1011 nnnn | 0111 1011 | 0000 0000 | ALL NOTES OFF |
| 1011 nnnn | 0111 1100 | 0000 0000 | ALL NOTES OFF |

NOTE: nnnn = MIDI Channel Number (0000 - 1111)

3) SYSTEM COMMON MESSAGE, SYSTEM REAL TIME MESSAGE

| STATUS | SECOND | THIRD | DESCRIPTION |
|-----------|-----------|-------|---|
| 1111 0011 | Osss ssss | | SONG SELECT sss ssss : Song No. 0-98 |
| 1111 1000 | | | TIMING CLOCK |
| 1111 1010 | | | START |
| 1111 1011 | | | CONTINUE |
| 1111 1100 | | | STOP |

NOTE:



AltiTrack Rhythm Machine]Date :1999.01.14Model RhythmTrak RT-123MIDI Implementation ChartVersion :1.00 [MultiTrack Rhythm Machine]

| Model RhythmTrak | RT-123 MIDI Implem | entation Chart | Version :1.00 | | |
|---|---|------------------------|--------------------------------------|--|--|
| | + Transmitted | + Recognized | Remarks | | |
| Basic Default Channel Changed | + | 1-16 1-16 | Memorized for every tracks | | |
| Default Mode Messages Altered | * ************************** | 3 | | | |
| Note Number True voice | | 0-127 | | | |
| Velocity Note ON | | o x | | | |
| After Key's Touch Ch's | | x x | | | |
| Pitch Bend | | 0 | MS7bits | | |
| Control Change | + | 7 10 | Volume Panpot (*1) | | |
| | | 120 121 | All Sounds Off | | |
| + Prog Change True # | + ***************************** | o 0-127 | | | |
| System Exclusive | | x | | | |
| System Song Pos Song Sel Common Tune | • | x o x | | | |
| System Clock Real Time Commands | + | o o | | | |
| Aux Local ON/OFF All Notes OFF Mes- Active Sense sages Reset | | x o x x | | | |
| Notes No transmitted messages. | | | | | |
| Mode 1 : OMNI ON, POLYMode 2 : OMNI ON, MONOo : YesMode 3 : OMNI OFF, POLYMode 3 : OMNI OFF, MONOx : No | | | | | |

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ZOOM CORPORATION

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