

Safety Precautions/ Usage Precautions

Safety Precautions

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 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 MRT-3.

About power



AC adapter operation

• Be sure to use only an AC adapter which supplies 9 V DC, 300 mA and is equipped with a "center minus" plug (Zoom AD-0006). The use of an adapter other than the specified type may damage the unit and pose a safety hazard.

- Connect the AC adapter only to an AC outlet that supplies the rated voltage required by the adapter.
- When disconnecting the AC adapter from the AC outlet, always grasp the adapter itself and do not pull at the cable.
- If the unit is not to be used for a long time, disconnect the AC adapter from the outlet.

Battery operation

- Use four IEC R6 (size AA) batteries (alkaline or manganese).
- The MRT-3 cannot be used for recharging.

Pay close attention to the labelling of the battery to make sure you choose the correct type.

- If the MRT-3 is not to be used for an extended period of time, remove the battery from the unit.
- If batteries leakage has occurred, wipe the battery compartment and the battery terminals carefully to remove all remnants of battery fluid.
- While using the unit, the battery compartment cover should be closed.

Environment

Avoid using your MRT-3 in environments where it will be exposed to:

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

🔨 Handling

- Since the MRT-3 is a precision electronic device, avoid applying excessive force to the controls. Do not operate the keys or controls with your foot.
 - Take care that no foreign objects (coins or pins etc.) or liquids can enter the unit.
 - Be sure to turn the power to all equipment off before making connections.
 - Before moving the unit, turn the power off, and disconnect all cables and the AC adapter.



Alterations

Never open the case of the MRT-3 or attempt to modify the product in any way since this can result in damage to the unit.

In Case of Trouble

If there seems to be a defect or a problem with the unit, immediately disconnect the AC adapter or remove the batteries to shut off the power. Then disconnect any other cables connected to the unit.

Usage Precautions

• Electrical interference

For safety considerations, the MRT-3 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 MRT-3, as the possibility of interference cannot be ruled out entirely.

With any type of digital control device, the MRT-3 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 MRT-3. 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 at hand for future reference.

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Introduction

Thank you for purchasing **the ZOOM Micro RhythmTrak MRT-3** (subsequently referred to as "**the MRT-3**").

The MRT-3 offers the following attractive features.

- Sophisticated rhythm machine incorporates 199 super-realistic drum and percussion sounds in an amazingly compact body. A full 396 preset patterns contain a wide variety of preprogrammed 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 such songs can be stored for immediate use at any time.
- Internally lit pads let you follow the rhythm pattern visually during song playback or when using a pattern.
- Choose up to 14 sounds from the built-in drum and percussion sources, and then adjust level, tuning, and panning individually to create your very own drum kit. This gives you the flexibility to realize your creative vision.
- Perfectly intuitive and simple design lets you master the unit right away, even if you have never used a drum machine before.
- 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 hihat.
- MIDI IN connector allows use with an external MIDI sequencer or other device. The Multitrak Recording Studio ZOOM MRS-4 is an ideal match, letting you synchronize the audio tracks from the recorder with the rhythm track from the MRT-3. Playing the sounds of the MRT-3 with an external MIDI component is also possible.

Please take the time to read this manual carefully so as to get the most out of your MRT-3 and to ensure optimum performance and reliability.

Names of Parts

Top Panel



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Getting Connected

Connection Example 1



Preparations

When connections are complete, set the volume as follows.

1. 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 connected or disconnected while power is on, or if power is turned on with the volume turned up, damage to the speakers may occur.

- **2.** Turn power to the MRT-3 on. Set the [POWER] switch to ON.
- 3. Turn power to the playback system on and set the volume to about midway.
- 4. While tapping a pad to produce sound, adjust the [OUTPUT LEVEL] knob of the MRT-3 to obtain a suitable volume.

Using Batteries

The MRT-3 can be powered from batteries (not supplied). Follow the steps below to insert the batteries.

- **1.** Turn the unit over and open the battery compartment cover.
- 2. Insert four fresh IEC R6 (size AA) batteries into the battery compartment. The use of alkaline batteries is recommended.
- 3. Close the battery compartment cover.
 - When using batteries, a flashing dot at the right side of the display means that the batteries are nearly exhausted. Insert fresh batteries as soon as possible.



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POWER

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Terms Used in This Manual

This section explains some important concepts of the MRT-3.

Pattern

Playing a rhythm using sounds stored in the MRT-3 is called playing a pattern. The information stored in a pattern includes data such as pattern length, beat, and which kit (combination of drum/percussion sounds) is used.

The patterns are organized in banks (A - D, U) and numbers (01 - 99). The MRT-3 has 396 read-only preset patterns (A01 - D99) and 99 read/write user patterns (U01 - U99).



Song

A song is a sequence of patterns played in subsequent steps. The maximum number of steps in a song is 99. Provided that there is free memory, the MRT-3 has the capability to store up to 99 songs.

A song includes data such as pattern number, overall song tempo (master tempo), tempo change information, volume change information, dedicated kit information, etc.



Kit

The MRT-3 lets you select 14 sounds from the built-in drum and percussion sources to use for playing with the pads. A combination of such sounds, together with pad sensitivity information and level/tuning information for each pad is called a kit. The MRT-3 has a capacity for 70 kits. Kits 01 - 50 are read-only preset kits and kits 51 - 70 are read/write user kits.

Pad/Pad Bank

Each pad on the MRT-3 can be used to play the currently selected sound, and to record it as a phrase in a pattern.

To be able to play 14 sounds with the 7 pads on the unit, pads are grouped in two banks (A and B) which can be switched with the [PAD BANK] key. When the [PAD BANK] key is out, bank A is selected. When the key is lit, bank B is selected.



Listening to the Demo Song

The MRT-3 comes with a demo song already built in. Listen to this song to hear for yourself what the MRT-3 can do.

1. Press the [FUNCTION] key.

The [FUNCTION] key flashes.



2. Press the [SONG] key.

The indication "dEMo" appears on the display and the demo song starts. The display indication changes and the pads light up in sync with the song.



The demo song is played repeatedly until you stop it.

3. To stop the demo song, press the [PATTERN] key or the [SONG] key.



Playing the Pads (Manual Play)

The pads on the top panel of the MRT-3 each produce a different sound when hit. The sound depends on the currently selected kit and pad bank. Try hitting the pads to hear the realistic sounds of the MRT-3.

1. Press the [PATTERN] key.



The [PATTERN] key lights up and the MRT-3 goes into pattern mode (in which rhythm pattern playback and recording can be carried out).

2. Hit any pad.



The pad lights up briefly, and the sound assigned to it is played. The volume of the sound depends on the intensity with which the pad is hit.

3. To switch the bank, press the [PAD BANK] key so that the key lights up.



The key lights up, and the sound assigned to pads 1 - 7 changes. To return to the earlier sound, press the [PAD BANK] key once more.

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When the [PAD BANK] key is out, bank A is selected. When the key is lit, bank B is selected.

4. To switch the kit played by the pads, press the [KIT] key.

The [KIT] key lights up, and the MRT-3 goes into kit mode. In this mode, you select the kit for playing the pads and patterns. The display shows the currently selected kit number.



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The kit can only be changed for a user pattern, not for a preset pattern.

5. Use the [VALUE +/-] keys to select a kit number.



The kit numbers are switched in the order 01P - 50P, 51U - 70U.

Try hitting the pads and switching the pad bank to check out which sounds are available in the newly selected kit.

6. When you have found the desired kit, press the [PATTERN] key to return to the pattern mode.



Using Patterns (Pattern Mode)

This section shows how to play and record patterns of the MRT-3 in pattern mode.

Playing a Pattern

The MRT-3 has 396 read-only preset patterns (A01 - D99) and 99 read/write user patterns (U01 - U99). To select and play a pattern, proceed as follows.

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In the factory default condition, all user patterns are empty.

1. Press the [PATTERN] key.

The [PATTERN] key lights up and the MRT-3 goes into pattern mode. The display shows the bank and number of the currently selected pattern.



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



In pattern mode, the [VALUE +/-] keys serve to select the pattern. For example, if you repeatedly press the [VALUE +] key, the patterns are switched in the order U01 ... U99 \rightarrow A01 ... A99 \rightarrow B01 ... B99 \rightarrow C01 ... C99 \rightarrow D01 ... D99 \rightarrow U01.

To directly switch the bank, press the [FUNCTION] key and then use the [VALUE +/-] keys.

This switches only the bank and keeps the pattern number.



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The [FUNCTION] key serves for making various settings of the MRT-3. The actual effect of pressing the key depends on the currently selected mode and on which other keys are used together with it.

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4. Press the [PLAY] key.

The [PLAY] key lights up and the pattern is played repeatedly. During playback, the [TEMPO] key flashes in sync with the tempo. The display shows the current position in the pattern (measure/beat).



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- While a pattern is playing, you can also manually play the pads.
- While a pattern is playing, you can also switch to a different bank and pattern number. The new pattern will begin playing as soon as you switch to it.

5. To stop pattern playback, press the [STOP] key.



If you press the [PLAY] key instead of the [STOP] key, the unit goes into pause mode, and the [PLAY] key flashes. If you press the [PLAY] key again in this condition, playback resumes from the same position.

Changing the Tempo of Pattern Playback

In pattern mode, you can adjust the play tempo in the range of 40 - 250 BPM (quarter note beats per minute).

1. Press and hold the [TEMPO] key.

The [TEMPO] key lights up and the current tempo is shown on the display.



2. While keeping the [TEMPO] key depressed, use the [VALUE +/-] keys to adjust the tempo.



- 3. When the tempo is as desired, release the [TEMPO] key.
- **4.** To specify the tempo manually, tap the [TEMPO] key twice or more in the desired tempo (tap input function).



If you tap the [TEMPO] key twice or more often while a pattern is playing or stopped, the tapping interval of the last two taps is taken as the quarter note tempo. This allows you to simply set the tempo in sync with a song.

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The tempo set in pattern mode applies to all patterns. It is not possible to set the tempo for a pattern individually.

Real-Time Pattern Recording

The MRT-3 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). This section describes the procedure for real-time recording.

1 In pattern mode, select an empty user pattern (U01 – U99). If necessary, select a kit. When you select an empty user pattern, the indication "E" appears on the right side of the



display.

- If you change the kit in pattern mode while a user pattern is selected, the last selected kit will be stored for that pattern.
- You can also erase a recorded user pattern to return it to the empty state. See page 24.
- 2. Press the [FUNCTION] key and then pad 3 (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.

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

The following settings are available.

-	+

4	Quarter note	24 •••••	Sixteenth triplet note
8	Eighth note	32 •••••	Thirty-second note
12	Eighth triplet note	48	Thirty-second triplet note
16	Sixteenth note	Hi ······	1 tick (1/96 of quarter note)

The selected setting will be used as shortest note for real-time recording.

4. Press the [FUNCTION] key again.





- The quantize setting applies to all patterns. When recording another pattern with the same resolution, it is not necessary to set the quantize value again.
- By changing the quantize setting after recording is completed, you can add another part with different resolution to the same pattern. For example, after recording bass drum and snare drum using sixteenth notes, you may want to record a hi-hat sequence with thirty-second notes.
- If desired, you can change the resolution of a recorded phrase afterwards. For details, see the section "Changing User Pattern Resolution After Recording".

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



The [REC] key and [PLAY] key light up. The [TEMPO] key flashes in sync with the tempo, and one measure of precount clicks is heard before recording starts. During recording, metronome clicks are heard, and the display shows the current position in the pattern (measure/beat).



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- Unless specified otherwise, the beat and duration of an empty pattern where nothing has been
 recorded are the same as those of the most recently selected recorded pattern. If desired, you
 can change the beat and number of measures for the pattern (→ p. 21 22).
- If desired, the duration of the precount can be changed, or it can be turned off (\rightarrow p. 48).

6. Adjust the tempo if necessary.

The pattern tempo can be changed at any time. For recording a difficult phrase, it might be helpful to temporarily reduce the tempo.

7. 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. (If necessary, use the [PAD BANK] key to change the pad bank.)

8. To temporarily pause pattern recording, press the [REC] key while real-time recording is in progress.



The [REC] key starts to flash. If you hit a pad in this condition, the sound will be heard, but it is not recorded. This is useful to check the phrasing and sound before actually recording. To resume recording, press the [REC] key once more.

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

While the key is held down, the sound from that pad is erased from the pattern.



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

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- If a MIDI clock signal is being received, real-time recording is not possible. For details, please refer to page 44.
- When there is not enough remaining free memory in the MRT-3, the indication "FULL" appears on the display, and further recording is not possible. Erase unneeded patterns.

Pattern Step Recording

This section describes step recording, which allows you to enter and record each sound separately, step by step, while the MRT-3 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, you select the shortest note that is to be used as unit, and you create the pattern by pressing a pad (note) or the [REC] 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 other instrument sounds, to complete the pattern. By hitting two pads at the same time, you can enter two sounds in the same position.

1. In pattern mode, select an empty user pattern.

2. If required, select the kit for recording.

The kit selection procedure is the same as for manual play (\rightarrow p. 12).

3. Press the [FUNCTION] key and then pad 3 (QUANTIZE).



The current quantize setting appears on the display. The minimum unit (shortest note) for step recording is determined by this setting.

Νοτε

The quantize setting applies to all patterns.

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

The following settings are available.



5. Press the [REC] key.

The [REC] key and [START] key light up, indicating that the MRT-3 is ready for recording.



6. To enter a note, hit the pad corresponding to the desired sound.



For example, tapping pad 1 will enter a bass drum note (pad 1 lights up). The tapping intensity will also be recorded. When you press the [REC] key, the current position advances by the minimum unit. You can verify the current position (measure/beat) in the pattern by checking the display.

7. To enter a rest, press the [REC] key.



No sound is recorded, and the position advances by one step. If you press the [REC] key, the current position within the beat is shown as number of ticks.

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- If you press the [PLAY] key, the current position within the beat is shown as number of ticks, for as long as the button is held.
- When there is not enough remaining free memory in the MRT-3, the indication "FULL" appears on the display, and further recording is not possible. Erase unneeded patterns.

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. (If necessary, use the [PAD BANK] key to change the pad bank.)

8. To erase a sound, use the [REC] 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 [REC] key, the pad that has been input for the current position lights up. Pressing the pad while holding the [DELETE/ERASE] key down causes the pad to go out and the sound will be erased.

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

The [REC] key goes out and step recording terminates.

Changing User Pattern Resolution After Recording

The resolution that is recorded together with the play information of a user pattern can be changed later. For example, when a user pattern was recorded without quantization, it can be later set to a sixteenth note for dynamic matching.

- **1.** In pattern mode, select the user pattern for which you want to change the resolution.
- 2. Press the [FUNCTION] key and then pad 3 (QUANTIZE).



The current quantize setting appears on the display.

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



4. Press the [REC] key.



The resolution of the recorded user pattern is changed, and the unit returns to the pattern mode.

Νοτε

If you select a quantize value in step 3 that is finer than the value with which the pattern was recorded, no change will be made to the pattern.



You can change the length (number of measures) of a user pattern.

1 Select the user pattern whose length you want to change.

2. Press the [FUNCTION] key and then pad 5 (BAR LENGTH).

The number of measures for the user pattern selected in step 1 is shown.



3. Use the [VALUE +/-] keys to set the new bar length.



The bar length (number of measures) can be set in the range from 1 - 99.

4. Press the [FUNCTION] key.



The pattern length is changed. When a recorded pattern was made shorter, the excess measures at the end of the pattern will be cut off. When a recorded pattern was made longer, blank measures will be added at the end of the pattern.

Changing the User Pattern Beat

The beat (time signature) of an empty user pattern can be changed as follows.

- 1. Select the user pattern whose beat you want to change.
- **2.** Press the [FUNCTION] key and then pad 1 (TIME SIG). The beat of the user pattern selected in step 1 is shown.



3. Use the [VALUE +/-] keys to set the new beat.



The available settings for the beat are as follows: 2 (2/4), 3 (3/4), 4 (4/4), 5 (5/4), 6 (6/4), 7(7/4).

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4. Press the [FUNCTION] key.



The pattern beat is changed.

Copying a Pattern

The currently selected pattern (user pattern or preset pattern) can be copied to any other user pattern number. This is useful for example when wishing to change only a part of a pattern, or to add a fill-in phrase.

1 In pattern mode, select the pattern to be used as copy source.

The copy source can be either a preset pattern or a user pattern, but an empty user pattern (where "E" is shown on the right side of the display) cannot be selected as copy source.





2. Press the [INSERT/COPY] key.

The [INSERT/COPY] key flashes and the current pattern is selected as copy source. When the copy source is a user pattern, the indication "CoPy" flashes on the display.





When the copy source is a preset pattern, a user pattern with the same number as the source is selected and flashes.





3. Use the [VALUE +/-] keys to select a user pattern (U01 – U99) as copy target.



Only user patterns can be selected as copy targets.

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- When the copy is executed, the existing contents of the user pattern selected as copy target will be erased. Make sure that the pattern you have selected is one that you don't mind erasing.
- When the copy source is a user pattern, the same pattern is first selected after step 2. However, it is not possible to copy a pattern onto itself.
- **4.** To execute the copy process, press the [INSERT/COPY] key. To cancel the process, press the [STOP] key.



When copying is completed, the unit returns to the pattern mode with the copy target pattern being selected.



If copying was canceled, the unit returns to the pattern mode with the copy source pattern being selected.

Erasing a Single User Pattern

When you no longer need a certain user pattern, you can erase its contents to return it to the empty state. This is useful to make room for new patterns and free up memory of the unit.

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Once you have erased a user pattern, you will not be able to restore it. Make sure that you really want to erase the pattern before carrying out the following steps.

In pattern mode, select the user pattern to be erased (U01 – U99).

The pattern number is shown on the display.

2. Press the [DELETE/ERASE] key.

The [DELETE/ERASE] key flashes and the indication "dEL" alternates on the display with the pattern number.





3. To execute the erase process, press the [DELETE/ERASE] key. To cancel the process, press the [STOP] key.



When erasing is completed, the unit returns to the pattern mode with the empty user pattern being selected.



If erasing was canceled, the unit returns to the pattern mode with the original user pattern being selected.

Deleting All User Patterns

If desired, you can erase all user patterns in one operation.

Νοτε

Once you have deleted the user patterns, you will not be able to restore them. Make sure that you really want to delete the patterns before carrying out the following steps.

1. In pattern mode, with playback stopped, press the [FUNCTION] key. The [FUNCTION] key flashes.



2. Press the [DELETE/ERASE] key.

The indications "dEL" and "ALL" alternate on the display.



3. To execute the delete process, press the [DELETE/ERASE] key. When wishing to cancel the process, press the [STOP] key.



When you press the [DELETE/ERASE] key, all user patterns U01 – U99 are returned to the empty state.

Creating Your Own Kit (Kit Mode)

This section describes how you can edit a user kit and copy any preset kit or user kit into another user kit.

Editing a User Kit

In kit mode, you can select a user kit and change parameters such as sound, level, and pitch assigned to each pad.

1. Press the [KIT] key.

The [KIT] key lights up and the MRT-3 goes into kit mode. In this mode, you can select kits to use for patterns and songs, and you can create your own user kits. The display shows the currently selected kit number.





2. Use the [VALUE +/-] keys to select the user kit to edit (from kit numbers 51 – 70).



3. Press the [FUNCTION] key.

The [FUNCTION] key flashes.



4. Press pad 1 or 3 – 7 to select the item to change.



The selected pad lights up and the corresponding item can be edited. (The display indication depends on which item is selected.) The following items are assigned to the pads.

Items for individual pads (instrument sound)

- Pad 1 (PAD INST): Select instrument sound for each pad
- Pad 3 (INST TUNE): Adjust instrument sound pitch
- Pad 5 (INST PAN): Adjust instrument sound panning (left/right stereo position)
- Pad 7 (INST LEVEL): Adjust instrument sound level

Items common to entire kit

- Pad 4 (KIT LEVEL): Overall kit level
- Pad 6 (PAD SENS): Pad sensitivity (response to hitting intensity) for overall kit

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For details on the various items, see "Kit Items".

5. If you have selected an item for individual pads in step 4 (pad 1, 3, 5, 7), use the [PAD BANK] key and then press the pad to specify which pad to edit.



The currently selected pad can be checked from the [PAD BANK] key lit/out status and the pad number shown at the left of the display.





- 6. Use the [VALUE +/-] keys to adjust the value of the item selected in step 4.
- **7.** If you have selected an item for individual pads in step 4, repeat steps 5 and 6 to adjust the value for other pads.
- 8. Press the [FUNCTION] key once more.



The unit returns to the kit mode. If necessary, repeat steps 3 - 8 to set other items.

Kit Items

This section describes the items that make up a kit, as well as their setting range.

Pad 1: PAD INST

Selects the instrument sound to be used for each pad. When this item is selected, a number for the general sound category and a number for each instrument sound is shown.



Each push of the [VALUE +/-] keys moves the instrument number one increment up or down. When the highest or lowest instrument number for that category is reached, the unit switches to the next category. The number of instruments differs for the various categories. For a list of categories and instrument sounds, refer to the "Reference" section at the end of this manual.

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Pads 5 and 7 of pad bank A are special pads. The sound assigned to these two pads cannot be produced simultaneously. (When one pad is hit while the other is playing, the first sound stops.) This is useful for assigning two sounds that should not be played together, such as open/closed hi-hat.

Pad 3: INST TUNE

Allows tuning the pitch of the instrument sound assigned to a pad. Adjustment is possible from zero over a range of ± 7.9 semitones, in 0.1 semitone steps.



Pad 5: INST PAN

Allows adjusting the panning (stereo left/right position) of the instrument sound assigned to a pad. Adjustment is possible over a range of L63 (fully left) – C (center) – R63 (fully right).



Pad 7: INST LEVEL

Allows adjusting the level of an instrument sound assigned to a pad. Adjustment is possible over a range of 1 - 15.



Pad 4: KIT LEVEL

Allows adjusting the level of the entire kit. This adjustment is relative to the INST LEVEL setting. Adjustment is possible over a range of 1 - 15.



Pad 6: PAD SENS

Allows adjusting the pad sensitivity for the entire kit. 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.





Copying a Kit

A kit of the MRT-3 (preset kit or user kit) can be copied to any other user kit number (51 - 70). This is useful for example when wishing to change only a part of a kit.

1. In kit mode, select the kit to be used as copy source.

The copy source can be either a user kit or a preset kit.



2. Press the [INSERT/COPY] key.

The [INSERT/COPY] key flashes and the current kit is selected as copy source. When the copy source is a user kit, the indication "CoPy" flashes on the display.



When the copy source is a preset kit, the user kit "51U" is selected as default target, and the number flashes on the display.





3. Use the [VALUE +/-] keys to select a user kit (U51 – U70) as copy target. Only user kits can be selected as copy targets.





- When the copy is executed, the existing contents of the user kit selected as copy target will be erased. Make sure that the kit you have selected is one that you don't mind erasing.
- When the copy source is a user kit, the same kit is first selected after step 2. However, it is not possible to copy a kit onto itself.

4. To execute the copy process, press the [INSERT/COPY] key. When wishing to cancel the process, press the [STOP] key.



When copying is completed, the unit returns to the kit mode with the copy target kit being selected.



If copying was canceled, the unit returns to the kit mode with the copy source kit being selected.

Creating Songs (Song Mode)

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

What Is a Song?

A song is a programmed sequence of preset patterns or user patterns that are played automatically. 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 MRT-3 is 99. (The actual number of available steps and songs will depend on the number of distinct sounds in user patterns and the number of steps in other songs.)



Note that the number of steps is not equal to the number of measures. The length of each step depends on the pattern that is contained in the step. For example, in the song in the above illustration, if the length of the pattern U01 is 2 measures and the length of patterns U02 and U03 1 measure, the song will look as follows.

Step 1	Step 2	Step 3	Step 4	Step 5
U01	U02	U03	U01	U02

Besides the pattern number, each song step can contain the following information.

Settings for entire song

- Song kit: Number of kit to be used for entire song
- Master tempo:..... Tempo information for entire song

Settings for individual patterns

- Tempo change: Information for changing the tempo within the song
- Volume change: Information for changing the volume within the song

Νοτε

It is also possible to not specify a song kit and memorize individual kits for each pattern. In this case, the kit will be switched together with the pattern.

Recording Song Patterns

This section describes how you can collect a number of patterns into a song.

1. Press the [SONG] key.

The MRT-3 goes into song mode, and the [SONG] key lights up. The display shows the currently selected song number.





2. Use the [VALUE +/-] keys to select an empty song number.

When you select an empty song, the indication "E" appears on the right side of the display.





3. Press the [REC] key.

The [REC] key lights up, indicating that the MRT-3 is ready for song recording. The last two digits of the display show the step number.





4. Use the [VALUE +/-] keys to select the user pattern number to be assigned to the first step.

When you press a [VALUE +/-] key, the [PATTERN] key flashes and the display shows the pattern bank and number.



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- You can also directly switch the pattern bank by pressing the [FUNCTION] key and then the [VALUE +/-] key.
- You can listen to the currently selected pattern by pressing the [PLAY] key.

5. To proceed to the next step, press the [REC] key.

The last two digits of the display now show the second step number, and the first two digits show "EE" which indicates the end of the song. In this condition, you can select the pattern for the second step.



Indicates the last step of the song



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- By holding down the [SONG] key while pressing the [VALUE +/-] keys, you can move back and forth among steps.
- When there is not enough remaining free memory in the MRT-3, the indication "FULL" appears on the display, and further recording is not possible. Erase unneeded songs.
- 6. Use the [VALUE +/-] keys to assign a pattern to the second step.

7. Repeat steps 5 – 6 to create the entire song.

One song can have up to 99 (01 - 99) steps (patterns).

8. If you want to insert a step in a song, select the step where you want to insert a pattern, and press the [INSERT/COPY] key.



A new step is inserted before the currently selected step, and subsequent steps are shifted one count back. Select the pattern for the inserted keys with the [VALUE +/-] keys as necessary.



9. To delete a step from a song, select the step and press the [DELETE/ERASE] key.



The currently selected step is deleted, and subsequent steps are shifted one count forward.



10. When one song is completed, press the [STOP] key.



The [REC] key LED goes out, and song recording stops. The song position returns to step 1.

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

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





Pressing the [PATTERN] key during playback causes the display to show the number of measures since the start of the song.



Measure count from start of song



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- If you switch the song during playback, the new song is played immediately.
- If you want to insert a pause in the song, program an empty pattern as a step.

12. Press the [STOP] key whenever you want to terminate playback.



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] key causes the PAUSE key to flash, and playback is paused. To resume playback from the same point, press the [PLAY] key once more.

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

13. To start playback from a point within a song, hold down the [SONG] key while pressing the [VALUE +/-] keys.



When you press the [VALUE +] key, the step number shown on the display advances by 1, and when you press the [VALUE -] key, the step number goes backwards by 1. By pressing the [PLAY] key you can start playback from the selected step.

14. To change the tempo of the song, hold down the [TEMPO] key while pressing the [VALUE +/-] keys. This adjusts the BPM value.

As in pattern mode, you can also tap the [TEMPO] key twice or more to specify the tempo.



The MRT-3 automatically stores the tempo ("master tempo") for each song. When you switch a song, the tempo that was last selected for that song will be selected.

Changing the Tempo Within a Song

This section describes how you can change the tempo within a song that has already been recorded.

1. In song mode, select the song whose tempo you want to alter.

2. Press the [REC] key.

The [REC] key lights up, and the song can be edited.



Hold down the [SONG] key while pressing the [VALUE +/-] keys to select the step you want to edit.

The second two digits of the display show the step number.





4. Hold down the [TEMPO] key.

While the [TEMPO] key is being pressed, the tempo change information for that step is shown on the display. If no tempo change information is stored for that step, the indication is "---".



5. While holding down the [TEMPO] key, use the [VALUE +/-] keys to set the tempo value (40 – 250).



- 6. If desired, set the tempo for other song steps as well by repeating steps 3 5.
- 7. When you have completed the tempo change input, press the [STOP] key.

Changing the Song Volume

This section describes how you can change the pattern volume within a song that has already been recorded.

In song mode, select the song whose volume you want to alter.

2. Press the [REC] key.

The [REC] key lights up, and the song can be edited.



3. Hold down the [SONG] key while pressing the [VALUE +/-] keys to select the step you want to edit.

The last two digits of the display show the step number.



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4. Hold down the [FUNCTION] key.

While the [FUNCTION] key is being pressed, the volume change information for that step is shown on the display. If no volume information is stored for that step, the indication is "---".





While holding down the [FUNCTION] key, use the [VALUE +/-] keys to set the volume value (0 – 63).



- 6. If desired, set the volume for other song steps as well by repeating steps 3 5.
- 7. When you have completed the volume change input, press the [STOP] key.

Νοτε

It is not possible to record both tempo change information and volume change information in the same step. The most recently made setting will be valid.

Selecting a Dedicated Song Kit

Unless specified otherwise, the kits stored for the respective patterns will be used during playback of a song. (When the pattern is switched, the kit is also switched.) It is also possible to specify a dedicated song kit so that this kit will be used for the entire song.

1. In song mode, select the song for which you want to specify a kit.

2. Press the [FUNCTION] key and then the [KIT] key.

The kit number for that song is shown on the display. The default setting is "Pat", which means that the kit selected for the respective pattern will be used.



3. Use the [VALUE +/-] keys to select a dedicated kit for that song.

-	+

MEASURE	DEAT
	52
PAD(KIT)	STEP

4. When you have selected the kit, press the [FUNCTION] key.



Checking the Amount of Remaining Memory for Songs

You can call up a display that shows the remaining free memory for songs as a percentage. Proceed as follows.

1. In song mode, press the [FUNCTION] key, and then the [PATTERN] key.

The amount of free memory is shown in percent on the display. This indication is for information only and cannot be changed.





2. Press the [FUNCTION] key again. The unit returns to the song mode.

Copying a Song

This section describes how you can copy a song.

1. In song mode, select the song you want to copy.

Copy source song number



2. Press the [INSERT/COPY] key.

The [INSERT/COPY] key flashes and the current song is selected as copy source. The indication "CoPy" flashes on the display.





3. Use the [VALUE +/-] keys to select a song number as copy target.



Νοτε

When the copy is executed, the existing contents of the song selected as copy target will be erased. Make sure that the song you have selected is one that you don't mind erasing.

4. To execute the copy process, press the [INSERT/COPY] key. When wishing to cancel the process, press the [STOP] key.



When copying is completed, the unit returns to the song mode with the copy target song being selected.



If copying was canceled, the unit returns to the song mode with the copy source song being selected.

Deleting a Song

If you wish to delete a song, proceed as follows.

1. In song mode, select the song you want to delete.

2. Press the [DELETE/ERASE] key.

The [DELETE/ERASE] key flashes and the indication "dEL" alternates on the display with the song number.





3. To execute the delete process, press the [DELETE/ERASE] key. To cancel the process, press the [STOP] key.



When deleting is completed, the unit returns to the song mode with an empty song being selected.

If deleting was canceled, the unit returns to the song mode with the original song pattern being selected.

Once deleted, a song cannot be restored. Proceed with care to prevent inadvertently deleting a song.

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You can also reset the unit to the factory default condition, with all songs, user patterns, and user kits returned to the original state. For details, see "Returning the MRT-3 to the Factory Default Condition" (\rightarrow p. 48).

Deleting All Songs

If desired, you can delete all songs.



Once deleted, the songs cannot be restored. Proceed with care to prevent inadvertently deleting songs.

1. In song mode, while playback is stopped, press the [FUNCTION] key.



2. Press the [DELETE/ERASE] key.

The indications "dEL" and "ALL" alternate on the display.



3. To execute the delete process, press the [DELETE/ERASE] key. When wishing to cancel the process, press the [STOP] key.



When you press the [DELETE/ERASE] key, all songs in numbers 01 - 99 are erased (returned to the empty state).

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Other Functions

This section describes other convenient functions of the MRT-3 and how to return the unit to the factory default condition.

Controlling the MRT-3 With a Foot Switch

The separately available foot switch FS01 can be used to control various functions of the MRT-3.

- 1. Connect the FS01 to the [FOOT SW] jack on the rear panel.
- **2.** In pattern mode, press the [FUNCTION] key and then pad 4 (FOOT SW). The currently selected foot switch function is shown on the display.





3. Use the pads and keys to select the foot switch function.

The subsequent operation steps are different, depending on which function is to be controlled with the foot switch. The following functions can be selected.

• Use FS01 to produce the sound of a pad

This function allows you to produce the sound of a specific pad when you operate the foot switch. This is convenient for example to play the sound of a bass drum with your foot. To select this function, press the [FUNCTION] key and then pad 4 (FOOT SW). Then press the foot switch, release it, and use the [PAD BANK] key and pads 1 - 7 to select the pad sound to assign to the foot switch. (The intensity with which you hit the pad when making the selection is also memorized.)

The display shows the pad number as A1 - A7, B1 - B7.

• Use FS01 to switch between the sounds of two pads

This function allows you to assign two drum or percussion sounds to a pad and use the foot switch to control which sound is produced. This is convenient for example to switch between open and closed hi-hat sound with your foot.

To select this function, press the [FUNCTION] key and then pad 4 (FOOT SW). Then press the foot switch and release it. Finally, push the first pad, followed by the second pad. The number of the first pad is shown on the first two digits of the display, and the number of the second pad on the lower last digits.



The sound of the first pad can now be toggled with the foot switch. While the foot switch is pressed, the sound of the first pad is produced. When the foot switch is released, the sound of the second pad is produced. Also without hitting the pad, pressing the foot switch produces the sound of the first pad.

• Use FS01 to set the tempo

The foot switch can be made to function in the same way as the [TEMPO] key. To specify the tempo, you can press the foot switch twice or more in the desired tempo (tap input function).

To select this function, press the [FUNCTION] key and then pad 4 (FOOT SW). Then press the [TEMPO] key (the indication "tAP" appears on the display).

• Use FS01 to control start/pause

The foot switch can be made to function in the same way as the [PLAY] key. Pressing the foot switch then toggles between play and pause: "Start play" \rightarrow "Pause" \rightarrow "Resume play" etc.

To select this function, press the [FUNCTION] key and then pad 4 (FOOT SW). Then press the [PLAY] key (the indication "Cont" appears on the display).

• Use FS01 to control start/stop

The foot switch can be made to function in the same way as the [PLAY] and [STOP] keys. Pressing the foot switch then toggles between play and stop: "Start play" \rightarrow "Stop" \rightarrow "Start play from beginning" etc.

To select this function, press the [FUNCTION] key and then pad 4 (FOOT SW). Then press the [STOP] key (the indication "Strt" appears on the display).

• Use FS01 to mute a pattern/song

The foot switch can be made to mute the pattern or song while pressed. (Playback continues also while the sound is muted.)

To select this function, press the [FUNCTION] key and then pad 4 (FOOT SW). Then press the [KIT] key (the indication "MutE" appears on the display).

4. When you have selected the function, press the [FUNCTION] key once more.

The FS01 function is now set, and the MRT-3 returns to the previous mode. Try pressing the foot switch while using the MRT-3, to check the effect.

Ο Νοτε Ο

The setting cannot be canceled. If you want to select another function, repeat the above procedure.

Synchronizing Playback With an External Device

You can synchronize operation of the MRT-3 to an external device with MIDI OUT, such as a MIDI sequencer or recorder. The MRT-3 then performs pattern or song playback using the tempo supplied by the external device.

1. Connect the MIDI OUT jack of the MIDI sequencer/recorder to the [MIDI IN] connector of the MRT-3, using a MIDI cable.

The illustration shows an example for connecting the Multitrak Recording Studio ZOOM MRS-4 to the MRT-3. If you connect the output of the MRT-3 to the AUX IN jack of the MRS-4, as shown here, the MRT-3 can be used to supply a dedicated rhythm track without taking up any audio tracks of the MRS-4



Ο Νοτε Ο

Make sure that the external MIDI sequencer can send MIDI Clock, Start, Stop, and Continue signals.

2. In pattern mode, press the [FUNCTION] key and then pad 6 (MIDI).



The clock currently used by the MRT-3 is shown on the display. The meaning of the indication is as follows.

• Int (Internal)

The MRT-3 operates with its internal clock (default setting). This is the setting for using the MRT-3 on its own.

• Midi (MIDI clock)

The MRT-3 receives a clock signal from an external source (MIDI sequencer/recorder etc.) and synchronizes the playback tempo to this signal. Transport operations (playback start, stop, restart) and locate operations (moving the current position) can also be controlled remotely from the external device.

rMt (Remote)

The MRT-3 operates on its internal clock, as with "Int". However, transport operations only can be controlled remotely from an external device.

The clock source and supported MIDI messages with the various settings are shown below.

	Int	Midi	rMt
Clock source	Internal clock	MIDI clock	Internal clock
Start/Stop/Continue supported	No	Yes	Yes
Song Position Pointer supported	No	Yes	No

3. Use the [VALUE +/-] keys to select the "Midi" or "rMt" setting.



When wishing to control the tempo, transport operations, and locate operations all from the external device, select "Midi". In this case, the internal tempo settings of the MRT-3 have no effect. Set the tempo at the external device.

When wishing to control only transport operations from the external device, select "rMt". In this case, the internal tempo settings of the MRT-3 are active. (Because the tempo of the MRT-3 and the tempo of the external device are not synchronized, position matching within a song for playback is not possible.)

4. Press the [FUNCTION] key once more.

The unit returns to the previous mode.



5. Select a song or pattern for synchronized playback.

6. Start playback at the MIDI sequencer/recorder.

• When "Midi" is selected as clock source

The MRT-3 starts playback from the start of the sequence/song in sync with the MIDI clock tempo. When the MIDI sequencer/recorder is stopped, the MRT-3 also stops. When the MIDI sequencer/recorder is moved to a position within the song for playback, the MRT-3 also starts playback from that position.

• When "rMt" is selected as clock source

The MRT-3 starts playback from the start of the sequence/song, using its internal tempo setting. When the MIDI sequencer/recorder is stopped, the MRT-3 also stops. If the MIDI sequencer/recorder is moved to a position within the song for playback, the MRT-3 cannot start playback from that position.

Playing MRT-3 Sounds From an External MIDI Component

Using an external MIDI sequencer or MIDI keyboard, you can play the sound sources of the MRT-3. To do this, the MIDI receive channel setting of the MRT-3 must match the MIDI send channel of the external device.

1. Connect the MIDI OUT jack of the MIDI sequencer or similar to the [MIDI IN] connector of the MRT-3, using a MIDI cable.



2. In pattern mode, press the [FUNCTION] key and then pad 6 (MIDI). The clock currently used by the MRT-3 is shown on the display.



3. Press and hold the [KIT] key.

While the [KIT] key is being pressed, the display shows the current MIDI receive channel setting (default setting: 10).





4. Use the [VALUE +/-] keys to select the MIDI receive channel.

The MIDI receive channel can be set to OFF (no MIDI messages are received), or 1 - 16.





5. When the setting is complete, press the [FUNCTION] key again. The unit returns to the previous mode.



6. Play the external MIDI sequencer or keyboard.

The MRT-3 produces drum/percussion sound according to the note numbers received via the [MIDI IN] connector. For information on note number assignments, please refer to the "Reference" section at the end of this manual.

It is also possible to send a program change message to the MRT-3 to switch the kit. For information on program change number assignments, please refer to the "Reference" section at the end of this manual.

Setting the Pattern/Song Playback Swing

You can adjust the swing amount (rhythm flourish) for playback of patterns and songs. This setting affects all patterns and songs.

1. In pattern mode or song mode, press the [FUNCTION] key and then pad 7 (SWING).

The current swing amount setting is shown on the display (default setting: 50).





2. Use the [VALUE +/-] keys to adjust the swing amount.



The setting range is 50 - 75. Raising the setting from the default of 50 (no swing) increases the interval between upbeat and downbeat in a measure, resulting in a swinging rhythm.



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If necessary, press the [PLAY] key to play a pattern and check the effect.

3. When the setting is complete, press the [FUNCTION] key again.



The unit returns to the previous mode.

Setting the Precount for Real-Time Recording

The MRT-3 can perform a countdown before the start of real-time recording. The number of precount measures can be changed, and precount can also be turned off. This setting affects all patterns.

1. In pattern mode, press the [FUNCTION] key and then pad 2 (PRE COUNT).

The current precount setting is shown on the display (default setting: 1).





2. Use the [VALUE +/-] keys to select one of the following settings.



- 0: No precount
- 1: Precount of 1 measure
- 2: Precount of 2 measures

PAd: Recording starts when any pad is hit.

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When "PAd" is selected, holding down the [REC] key while pressing the [PLAY] key in pattern mode brings up the indication "rEAdy" on the display, and the unit goes into recording standby mode.

3. When the setting is complete, press the [FUNCTION] key again.



The unit returns to the previous mode.

Returning the MRT-3 to the Factory Default Condition

You can return all stored data and settings of the MRT-3 to the factory default condition. This is called initialization.

Νοτε

Use this function with care. Initialization will clear all user pattern data, user kit data, and song data that you have created.

1. Hold down the [REC] key while turning power to the MRT-3 on.

The display shows "Init".



2. To carry out the initialization process, press the [REC] key once more. To cancel the operation, press the [STOP] key.



When initialization is performed, all data and settings of the MRT-3 will return to the factory default condition, and the unit will restart.



If the operation is canceled, the unit comes on normally.

Troubleshooting

Check the following items first if there seems to be a problem with the MRT-3.

No sound or very low volume.

• Is the [POWER] switch set to ON?

Turn power on, as described in the section "Preparations" (page 8).

• Is [OUTPUT] jack connected correctly to the playback system?

Make connections as described in "Getting Connected" (page 7).

• Is there a problem with the shielded cable?

Try using another cable.

• Is the connected playback system operating normally and is the volume setting appropriate?

Check the system and make sure that the level is adjusted properly.

• Is [OUTPUT LEVEL] control of MRT-3 set correctly?

Set the control to a suitable position.

Sound is distorted or intermittent.

 Is output level of MRT-3 set too high?

Set [OUTPUT LEVEL] control of MRT-3 to a suitable position.

Cannot record pattern.

• Is MRT-3 set to mode other than pattern mode?

Activate pattern mode (\rightarrow p. 14).

 Is memory capacity limit reached? Check remaining memory capacity(→ p. 39), and delete unneeded patterns and songs.

Song cannot be recorded.

• Is MRT-3 set to mode other than song mode?

Activate song mode (\rightarrow p. 33).

 Is memory capacity limit reached? Check remaining memory capacity(→ p. 39), and delete unneeded patterns and songs.

Playback sound is not in stereo.

• Is Y cable connected to [OUTPUT STEREO/PHONES] jack?

Make connections as described in "Getting Connected" (page 7).

Is the panning setting appropriate?

Check whether the pan parameter for the instrument sounds in the currently used kit is set properly (\rightarrow p. 28).

FS01 has no effect.

 Is foot switch connected correctly to the [FOOT SW] jack?

Make connections as described in "Getting Connected" (→ page 7)

• Is correct function selected for FS01?

Use [FUNCTION] key and pad 4 (FOOT SW) to select the proper setting (\rightarrow p. 42).

Specifications

Sampling frequency: D/A Converter: Maximum polyphony: Resolution: Tempo: Maximum notes/events: Instrument sounds: Drum kits: Rhythm patterns: Songs: Pads:	47.6 kHz 16-bit linear 21 voices 96 clock ticks per quarter note 40 – 250 BPM 20,000 199 70 (50 preset, 20 user) 495 (396 preset, 99 user) 99 7 pads (with velocity sensor)
Display:	4-digit, 7-segment LED display
Inputs Control: MIDI:	FOOT SW IN MIDI IN
Outputs MONO OUT	Standard mono phone jack (Maximum output level +3 dBm, into load impedance of 10 kilohms or higher)
STEREO OUT	Standard stereo phone jack/headphone jack (Maximum output level +3 dBm, into load impedance of 10 kilohms or higher)
Power Requirements:	AC adapter 9 V DC, center minus, 300 mA (ZOOM AD-0006) Batteries IEC R6 (size AA) x 4 Battery life for continuous operation: approx. 15 hours (with alkaline batteries)
External Dimensions: Weight:	144 mm (W) x 165 mm (D) x 52 mm (H) 440 g (without batteries)
Supplied accessories:	Instruction Manual

0 dB = 0.775 Vrms Design and specifications subject to change without notice.

Reference

Kit List

KIT#	IT# KIT NAME MIDI	
01	Live Rock	3
02	Studio	4
03	Standard	5
04	Funk Trap	6
05	Epic Rock	7
06	Ballad	8
07	Modern	10
08	Rap/HipHop	11
09	Techno Beat	12
10	General Drum	13. 33
11	Live Rock variation 1	14
12	Live Rock variation 2	15
13	Live Rock variation 3	16
14	Studio variation 1	18
15	Studio variation 2	2, 19
16	Studio variation 3	20
17	Standard variation 1	1,21
18	Standard variation 2	22
19	Standard variation 3	23
20	Funk Trap variation 1	24
21	Funk Trap variation 2	27
22	Funk Trap variation 3	28
23	Epic Rock variation 1	29
24	Epic Rock variation 2	30
25	Ballad variation 1	31
26	Ballad variation 2	32
27	Modern variation 1	34
28	Modern variation 2	35
29	Rap/HipHop variation 1	36
30	Rap/HipHop variation 2	37
31	Rap/HipHop variation 3	38
32	Techno Beat variation 1	39
33	Techno Beat variation 2	40
34	Techno Beat variation 3	42
35	General Drum Room	9, 43
36	General Drum Power	17, 44
37	General Drum Electronic	25, 45
38	General Drum Analog	26, 46
39	General Drum Brush	41, 47
40	Latin Special	48
41	Percussions	49
42	Live Rock Mastering	50
43	Studio Mastering	51
44	Furik Irap Mastering	52
40	Epic Hock Wastering	ටර 54
40	Dallad Mastering	54
41	Nouern Mastering	00 56
40	Special Effect Sounds 1	57
49 50	Special Effect Sounds 2	51 58
00	ODGUIAI LITEUL OUUTUS Z	50

KIT#	KIT NAME	MIDI PC#
51	USER 51	59
2	2	1
70	USER 70	78

PRESET 01	79
2	2
PRESET 50	128

MIDI Note Number Chart

Note #	INST NAME	PAD #
24		
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 2	PAD B-1
36	KICK 1	PAD A-1
37	EXTRA1(Side Stick)	PAD B-5
38	SNARE 1	PAD A-3
39	EXTRA2(Hand Clap)	PAD B-7
40	SNARE 2	PAD B-3
41	(TOM 3)	(PAD B-6)
42	CLOSED HAT	PAD A-5
43	TOM 3	PAD B-6
44	Pedal HiHat	
45	(TOM 2)	(PAD B-4)
46	OPEN HAT	PAD A-7
47	TOM 2	PAD B-4
48	(TOM 1)	(PAD B-2)
49	CRASH	PAD A-2
50	TOM 1	PAD B-2
51	RIDE	PAD A-6
52	Chinese Cymbal	
53	CUP	PAD A-4
	Tambourine	
55	Splash Cymbal	
56	Cowbell	
57	Crash Cymbal 2	(PAD A-2)
58	Vibraslap	
59	Ride Cymbal 2	

	Note #	INST NAME	
* MIDDLE C	60	High Bongo	
	61	Low Bongo	
	62	Mute High Conga	
	63	Open High Conga	
	64	Low Conga	
	65	High Timbale	
	66	Low Timbale	
	67	High Agogo	
	68	Low Agogo	
	69	Cabasa	
	70	Maracas	
	71	Short Whistle	
	72	Long Whistle	
	73	Short Guiro	
	74	Long Guiro	
	75	Claves	
	76	High Wood Block	
	77	Low Wood Block	
	78	Mute Cuica	
	79	Open Cuica	
	80	Mute Triangle	
	81	Open Triangle	
	82	Shaker	
	83	Jingle Bell	
	84	Belltree	
	85	Castanets	
	86	Mute Surdo	
	87	Open Surdo	
	88		

Instrument List

Category	Inst #	Name	
	1	Live Kick 1	
	2	Live Kick 2	
	3	Studio Booth Kick	
	4	Small Booth Kick	
	5	Middle Booth Kick	
	6	Muted Kick	
	7	Tight Shell Kick	
	8	Huge Kick	
	9	Deep Hard beater Kick	
	10	Ambient Kick	
	11	Stage Ambient Kick 1	
I. KICK	12	Stage Ambient Kick 2	
	13	Dry Kick	
	14	Resonated Kick	
	15	Deep Shell Kick	
	16	Deep Muffed Kick	
	17	Analog Kick	
	18	Short Analog Kick	
	19	DIGI-ANA Kick	
	20	Long DIGI-ANA Kick	
	21	Synth Kick	
	22	Velocity Bend Kick	
	1	Live Ambient 1	
	2	Live Ambient 2	
	3	Booth Ambient	
	4	Booth Dry	
	5	Dry Snappy	
	6	Dry High Tuned	
	7	High Tuned 1	
	8	High Tuned 2	
	9	High Tuned 3	
	10	Deep Body Ambient	
	11	Deep Snappy	
	12	High Tensioned Snappy	
	13	Tight Muted	
2. SNARE	14	Resonated Tuning	
2. ONAILE	15	Tighten Gate	
	16	Mono Analog	
	17	Stereo Analog	
	18	Mono DIGI-ANA	
	19	Stereo DIGI-ANA	
	20	Reverb Snare 1	
	21	Reverb Snare 2	
	22	Room Snare	
	23	Power Snare	
	24	Electric Snare	
	25	Brush Short	
	26	Brush Long	
	27	Brush Slap	
	28	Bend Down	

Category	Inst #	Name
	1	Live Tom 1
	2	Live Tom 2
	3	Live Floor
	4	Studio Tom 1
	5	Studio Tom 2
	6	Studio Floor
	7	Dry Tom 1
	8	Dry Tom 2
	9	Dry Floor
	10	Loose Tom 1
	11	Loose Tom 2
	12	Loose Floor
	13	Ambient Tom 1
	14	Ambient Tom 2
	15	Ambient Floor
	16	Low Tune Tom 1
	17	Low Tune Tom 2
	18	Low Tune Floor
	19	Hard Hit Tom 1
	20	Hard Hit Tom 2
	21	Hard Hit Floor
3: TOM	22	808 Tom 1
	23	808 Tom 2
	24	808 Floor
	25	Power Gate Tom 1
	26	Power Gate Tom 2
	27	Power Gate Floor
	28	Acoustic Tom 1
	29	Acoustic Tom 2
	30	Acoustic Floor
	31	Room Tom 1
	32	Room Tom 2
	33	Room Floor
	34	Flectric Tom 1
	35	Electric Tom 2
	36	Electric Floor
	37	Bend Down Tom 1
	38	Bend Down Tom 2
	39	Bend Down Floor
	40	TOMVERB
	41	FLOORVERB
	42	Synth Drum Tom
	1	Live Close-Hat
	2	Live Open-Hat
	3	Studio Close-Hat
4.10.000	4	Clear Close-Hat
4: HI HATS	5	Clear Open-Hat
	6	Analog Close-Hat
	7	Analog Open-Hat
	8	DIGI-ANA Close-Hat

Category	Inst #	Name
	9	DIGI-ANA Open-Hat
	10	Acoustic Foot-Hat
	11	Acoustic Short Foot
	12	Analog Foot-Hat
	13	Bend Down Close-Hat
	14	Bend Down Open-Hat
	15	Bend Down Foot-Hat
	1	Crash 1
	2	Crash 2
	3	Analog Crash
	4	Thin Crash
	5	Splash 1
	6	Splash 2
	7	Bend Down Crash
5. CYMBAL	8	China 1
O. OTIMBAL	9	China 2
	10	Ride 1
	11	Ride 2
	12	Ride 3
	13	Bend Down Ride
	14	Cup
	15	SEX Cup
	1	Live Rim
	2	Live Long Rim
	3	Dry Rim
	4	Velocity Bend Down Rim
	5	Cowbell 1
	6	Analog Cowbell
	7	Velocity Bend Down Cowbell
O. EXTINA	8	Live Tambourine
	9	Velocity Bend Down Tambourine
	10	Clap
	11	Filtered Clap
	12	Velocity Bend Down Clap
	13	Analog Claves
	14	DIGI-ANA Snap
	15	Click Noise
	1	High Q
	2	Slap
	3	Scratch Push
	4	Scratch Pull
	5	Sticks
	6	Square Click
7: GLOBAI	7	Metronome Click
7. GLODAL	8	Metronome Bell
	9	Tambourine
	10	Vibraslap
	11	High Bongo
	12	Low Bongo
	13	Mute High Conga
	-	5 5

Category	Inst #	Name
	14	Open High Conga 1
	15	Open High Conga 2
	16	Low Conga
	17	High Timbale
	18	Low Timbale
	19	High Agogo
	20	Low Agogo
	21	Cabasa
	22	Maracas
	23	Short High Whistle
	24	Long Whistle
	25	Short Guiro
	26	Long Guiro
. GLOBAL	27	Claves
	28	High Wood Block
	29	Low Wood Block
	30	Mute Cuica
	31	Open Cuica
	32	Mute Triangle
	33	Open Triangle
	34	Shaker
	35	Jingle Bell
	36	Bell Tree
	37	Castanets
	38	Mute Surdo
	39	Open Surdo
	1	Filter Swept Cymbal
	2	Gamelan
	3	Bass Slide
	4	REV Wet 1
	5	REV Wet 2
	6	Bell
	7	Odaiko
	8	ChuDaiko
	9	
	10	Chinese Temple
	11	Мокидуо
8: SFX	12	Huge Clock
	13	
	14	Door Close
	15	Door Open
	10	
	1/	
	10	Engine Gell
	19	Space
	20	Seguence
	21	Minor ⁷
	22	Major7
	23	

Pattern List

Display	Pattern name	КІТ
A01	08Beat01	1
A02	08Beat02	1
A03	08Beat03	1
A04	08Beat04	1
A05	08Beat05	2
A06	08Beat06	2
A07	08Beat07	4
A08	08Beat08	4
A09	08Beat09	4
A10	08Beat10	4
A11	08Beat11	20
A12	08Beat12	20
A13	16Beat01	35
A14	16Beat02	35
A15	16Beat03	6
A16	16Beat04	6
A17	16Beat05	6
A18	16Beat06	6
A19	16Beat07	2
A20	16Beat08	2
A21	16FUS01	36
A22	16FUS02	36
A23	JAZZ01	14
A24	JAZZ02	26
A25	JAZZ03	25
A26	JAZZ04	14
A27	BOSSA	40
A28	CNTRY	3
A29	68BLUS	6
A30	DANCE	10
A31	Rock01	5
A32	Rock02	15
A33	Rock03	23
A34	Rock04	4
A35	Rock05	4
A36	ROCKU6	1
A37	ROCKU7	23
A38	RockU8	30
A39	Rock10	3 7
A40		1
A41	RUCKII Deek10	4
A42	Pock12	20
A43	Bock1/	20
A44	Rock15	20
A45	Rock16	3
Δ47	Bock17	1
Δ48	Bock18	3
Δ49	Bock19	36
A50	Bock20	1

Display	Pattern name	КІТ
A51	Rock21(shuffle)	2
A52	Rock22(shuffle)	14
A53	Rock23	4
A54	Rock24	1
A55	Rock25	1
A56	Rock26	4
A57	Rock27	1
A58	Rock28	4
A59	Rock29	1
A60	Rock30	2
A61	Rock31	1
A62	Rock32	4
A63	Rock33	1
A64	Rock34	14
A65	Rock35T	1
A66	HRK01	1
A67	HRK02	24
A68	HRK03	13
A69	HRK04	13
A70	HRK05	17
A71	HRK06	5
A72	HRK07(shuffle)	17
A73	HRK08	1
A74	HRK09	24
A75	HRK10	2
A76	HRK11	1
A77	MTL01	11
A78	MTL02	1
A79	MTL03	1
A80	MTL04	35
A81	MTL05	1
A82	MTL06	4
A83	THRS01	36
A84	THRS02	36
A85	THRS03	1
A86	PUNK01	24
A87	PUNK02	11
A88	FUS01	20
A89	FUS02	4
A90	FUS03	20
A91	FUS04	22
A92	FUS05	22
A93	FUS06	18
A94	FUS07	4
A95	FUS08	17
A96	FUS09	4
A97	FUS10	10
A98	FUS11	10
A99	FUS12	3

Display	Pattern name	KIT
B01	POP01	3
B02	POP02	3
B03	POP03	18
B04	POP04	18
B05	POP05	3
B06	POP06	17
B07	POP07	17
B08	POP08	17
B00		17
B10	POP10(shuffle)	4
B10	POP11(shuffle)	22
B12		32
B12		22
D13		
D14 D15		40
DIJ D16		40
D10		2
D1/		30
B18		20
B19		26
B20	RnB01	20
B21	RnB02	4
B22	RnB03	6
B23	RnB04	2
B24	RnB05	4
B25	RnB06	27
B26	RnB07	10
B27	RnB08	11
B28	RnB09(shuffle)	15
B29	RnB10	1
B30	RnB11	4
B31	RnB12	22
B32	RnB13	8
B33	RnB14	35
B34	FUNK01	22
B35	FUNK02	4
B36	FUNK03	14
B37	FUNK04	14
B38	FUNK05	13
B39	FUNK06	21
B40	FUNK07	4
B41	FUNK08	4
B42	FUNK09	4
B43	FUNK10	19
B44	FUNK11	3
B45	FUNK12	19
B46	FUNK13	6
B47	FUNK14	22
B48	FUNK15	2
B49	16ROCK01	20
B50	16ROCK02	21

Display	Pattern name	KIT
B51	16ROCK03	4
B52	16ROCK04	4
B53	16ROCK05	4
B54	16ROCK06	2
B55	GrvDrm01	40
B56	GrvDrm02	4
B57	GrvDrm03	1
B58	BALD01	40
B59	BALD02	2
B60	BALD03	40
B61	BALD04	6
B62	BALD05	20
B63	BALD06	20
B64	BALD07(shuffle)	3
B65	BALD08(shuffle)	3
B66	BALD09(shuffle)	3
B67	BALD10(shuffle)	7
B68	BALD11(shuffle)	7
B69	BALD12T	4
B70	BALD13T	5
B71	BLUS01(shuffle)	11
B72	BLUS02(shuffle)	20
B73	BLUS03(shuffle)	20
B74	BLUS04(shuffle)	11
B75	BLUS05(shuffle)	11
B76	BLUS06T	7
B77	BLUS07T	1
B78	BLUS08T	17
B79	CNTR01	18
B80	CNTR02	3
B81	CNTR03	3
B82	CNTR04	17
B83	CNTR05	40
B84	JAZZ01	3
B85	JAZZ02	4
B86	JAZZ03	4
B87	JAZZ04	3
B88	JAZZ05	4
B89	JAZZ06	40
B90	JAZZ07	7
B91	JAZZ08T	3
B92	JAZZ09P	40
B93	SHFL01	15
B94	SHFL02	15
B95	SHFL03	14
B96	SHFL04	2
B97	SHFL05	2
B98	SHFL06	4
R99	SHFLU/	4

Reference

Display	Pattern name	KIT
C01	HIP01	33
C02	HIP02	8
C03	HIP03	17
C04	HIP04	9
C05	HIP05	8
C06	HIP06	24
C07	HIP07	9
C08	HIP08	9
C09	HIP09	1
C10	HIP10	3
C11	HIP11	3
C12	HIP12	39
C13	HIP13	8
C14	HIP14	24
C15	HIP15	1
C16	HIP16	31
C17	HIP17	9
C18	HIP18	30
C19	HIP19	11
C20	HIP20	4
C21	HIP21	4
C22	HIP22	3
C23	HIP23	30
C24	HIP24	5
C25	HIP25	8
C26	HIP26	4
C27	HIP27	9
C28	HIP28	30
C29	HIP29	33
C30	HIP30	33
C31	HIP31	40
C32	HIP32	40
C33	DANC01	33
C34	DANC02	21
C35	DANC03	40
C36	DANC04	21
C37	DANC05	9
C38	DANC06	40
C39	DANC07	33
C40	HOUS01	40
C41	HOUS02	8
C42	HOUS03	40
C43	HOUS04	40
C44	HOUS05	9
C45	HOUS06	34
C46	TECH01	8
C47	TECH02	9
C48	TECH03	9
C49	TECH04	8
C50	TECH05	9

Display	Pattern name	КІТ
C51	TECH06	9
C52	TECH07	8
C53	TECH08	40
C54	DnB01	32
C55	DnB02	8
C56	DnB03	4
C57	DnB00	9
C58	DnB05	30
C59	DnB06	22
C60	DnB00	29
C61	TRIP01	34
C62	TRIP02	3
C63	TRIP03	34
C64		27
C65		22
C66		
C67		I
C69		4
C60		20
009		24
070		9 10
071	REGGUI	10
072	REGG02	21
074	REGG03	40
075	REGG04	40
075	SKAUT	20
077	SNAU2	10
070		10
070		40
C 00		40
000		40
001		40
002		40
003		40
004		40
000		40
C00		40
007		4
000		4
009		10
C90	BUSSAUT	40
000	SAIVIDAU I	4
092		40
093		10
C054		40
095	AFRUUS MidE01	40
090		13
091	MidE02	3
098	WIUEU3	40
C99	IVIIAE041	-22

Display	Pattern name	KIT
D01	INTRO01	1
D02	INTRO02	1
D03	INTRO03	2
D04	INTRO04	4
D05	INTRO05	3
D06	INTRO06	20
D07	INTRO07	5
D08	INTRO08	6
D09	INTRO09(shuffle)	1
D10	INTRO10	5
D11	INTRO11	20
D12	INTRO12	2
D13	INTRO13	3
D14	INTRO14	20
D15	INTRO15	3
D16	INTRO16	6
_10 D17	INTRO17	19
D18	INTRO18	4
D19	INTRO19	14
D20	BOCK-FILL01	2
D21	BOCK-FILL02	2
D22	BOCK-FILL03	1
D23	BOCK-FILL04	1
D24	BOCK-FILL05	4
D24	BOCK-FILL06	5
D25	BOCK-FILL07	1
D20	BOCK-FILL08	4
D27		 5
D20		14
D20		17 A
D31		- 6
D32		14
D32		6
D33		6
D35		ں م
D36		22
D30		25
D37		35
D30		35
D39		
D40		
D41		4
D42		3 17
D43		10
D44	POPS-FILLUS	10
D40		3
D40		1/
D47	POPS-FILLUS	1/
D48	PUPS-FILLU/	18
D49	KnB-FILL01	7
D50	RnB-FILL02	19

Display	Pattern name	КІТ
D51	FUNK-FILL01	4
D52	FUNK-FILL02	4
D53	FUNK-FILL03	20
D54	FUNK-FILL04	20
D55	GROOVE-FILL01	4
D56	GROOVE-FILL02	22
D57	BALAD-FILL01	7
D58	BALAD-FILL02	7
D59	BLUES-FILL03	20
D60	BLUES-FILL04	20
D61	COUNTRY-FILL01	3
D62	COUNTRY-FILL02	3
D63	JAZZ-FILL01	6
D64	JAZZ-FILL02	6
D65	SHUFFLE-FILL01	23
D66	SHUFFLE-FILL02	1
D67	HIP-FILL01	8
D68	HIP-FILL02	30
D69	DANCE-FILL01	9
D70	DANCE-FILL02	9
D71	DANCE-FILL03	32
D72	DANCE-FILL04	33
D73	HOUSE-FILL01	4
D74	HOUSE-FILL02	40
D75	TECHNO-FILL01	9
D76	TECHNO-FILL02	9
D77	DRUMnBAS-FILL01	22
D78	DRUMnBAS-FILL02	21
D79	AMBIENT-FILL01	24
D80	AMBIENT-FILL02	4
D81	INDUSTRIAL-FILL01	23
D82	SHUFFLE-FILL01	15
D83	REGGAE-FILL01	21
D84	REGGAE-FILL02	21
D85	LATIN-FILL01	4
D86	LATIN-FILL02	4
D87	BOSSA-FILL01	18
D88	BOSSA-FILL02	4
D89	AFRO-FILL01	40
D90	AFRO-FILL01	40
D91	MidE-FILL01	4
D92	MidE-FILL02	40
D93	ENDING01	1
D94	ENDING02	2
D95	ENDING03	4
D96	ENDING04	3
D97	ENDING05	6
D98	ENDING06	6
D99	ENDING07	4

Reference

MIDI Implementation

1. Recognized Messages

Status	lst	2nd	Description
 8nH	kk	vv	Note Off kk: note number (See Note 1) vv: velocity will be ignored
9nH	kk	00H	Note Off kk: note number (See Note 1)
9nH	kk	vv	Note On kk: note number vv: velocity
BnH	07H	vv	Channel Volume vv: volume value
BnH	11H	vv	Channel Expression vv: expression value
BnH	78H	xx	All Sounds Off
BnH	7BH	xx	All Notes Off
CnH	рр		Program Change pp: program number (See Note 2)
F2H	sl	sh	Song Position Pointer shsl: song position (See Note 3)
F3H	SS		Song Select ss: song number 0-98
F8H			Timing Clock
FAH			Start
FBH			Continue
FCH			Stop

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

- 1. Note Off Messages is recognized but will be ignored.
- Relationship between Program Numbers and Kit Numbers are assigned as "Kits List" attached.
- SongPositionPointer for a pattern, new location is wrapped around the bar length of the pattern.
- 4. Note On messages can be recorded into a pattern.

2. Transmitted Messages

NONE.

3. System Exclusive Messages

No SysEx messages are recognized/transmitted.

MIDI Implementation Chart

[DRU Mode	M MACHINE el MRT-3] MIDI Implementation (Dat Chart	e : 20.Feb.,2002 Version :1.00
Fu	nction	Transmitted	Recognized	Remarks
Basic Channel	Default Changed		1-16 1-16	Memorized
Mode	Default Messages Altered	****	3	
Note Number	True voice	*****	0-127	
Velocit	y Note ON Note OFF		o x	
After Touch	Key's Ch's		x x	
Pitch B	end		x	
Control			7 11	Volume Expression
Change				
			120	All Sounds Off
Prog Change	True #	****	o 0-127	
System	Exclusive		x	
System Common	Song Pos Song Sel Tune		o o x	
System Real Tim	Clock me Commands		0 0	
Aux Mes- sages	Local ON/OFF All Notes OFF Active Sense Reset		x o x x	
Notes		No messages will be	transmitted.	1
Mode 1 Mode 3	: OMNI ON, POI : OMNI OFF, POI	LY Mode 2 : OMNI LY Mode 4 : OMNI	ON, MONO OFF, MONO	o : Yes x : No

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ZOOM CORPORATION NOAH Bldg., 2-10-2, Miyanishi-cho, Fuchu-shi, Tokyo 183-0022, Japan PHONE: +81-42-369-7116 FAX: +81-42-369-7115 Web Site: http://www.zoom.co.jp

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