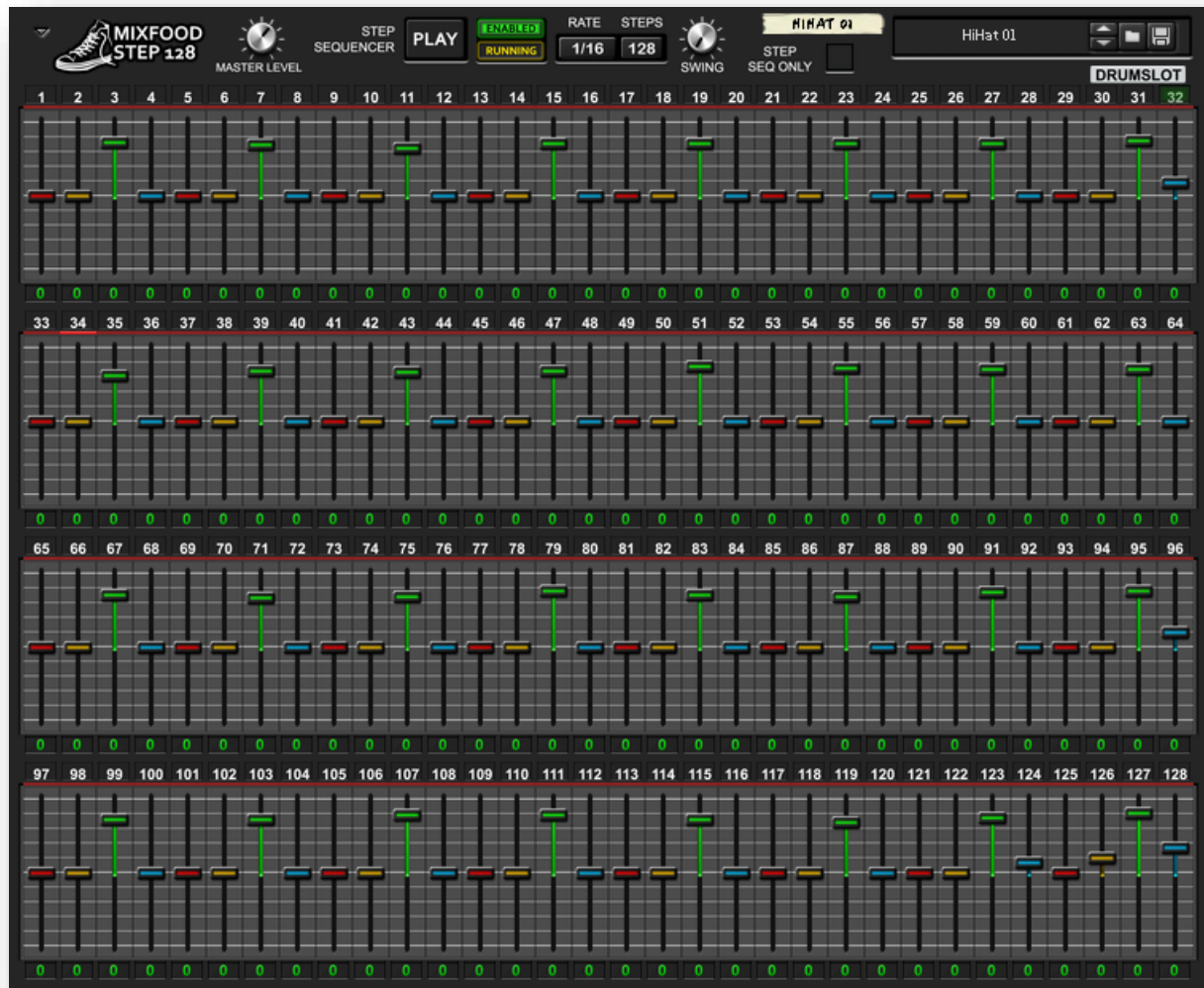


MIXFOOD STEP 128 – RHYTHM ASSISTANT MANUAL



**Mixfood Step 128 Rhythm Assistant Rack Extension for
Propellerhead Reason version 10 and up!**

Made by Studio Corbach

<http://www.studiocorbach.nl/>

<http://www.studiocorbach.nl/mixfood-step-128-rhythm-assistant/>

MIXFOOD STEP 128 overview

Mixfood Step 128 is a Step Sequencer with 128 steps and a one slot Drum Machine with its own controls and effects. It's a Rack Extension for Reason 10 and up.

The Drum Slot contains the most common controls:

- Sound/Sample select
- Mute
- Volume
- Sample Start
- Semi (+ - 24 notes) and Fine-tune (+ - 50 cents)
- Pre-effect Panning
- Amp Envelope and Filter Envelope
- LP/BP/HP Filter
- Lo-Fi
- Channel mixer (change the stereo samples to mono or alter the stereo spectrum)
- EQ

The Effects that are available on the Drum Slot are:

- Grain Pitch
- Frequency Shifter
- Delay
- Reverb
- Post-effect Panning
- 3-band EQ
- **Select sound 1000 to load 1 USER SAMPLE!**

STEP SEQUENCER (128-steps)

There is a 128-step Step Sequencer build in with Rate control and Swing control

Press PLAY to start the Step Sequencer to preview the pattern.

When used with the Reason Transport, press Play in the Reason Sequencer*.

Click on the ENABLED button in the Step Sequencer controls to Enable or Disable the Step Sequencer.

When Disabled, the Step Sequencer won't play with the Reason Sequencer.

When Disabled Mixfood Step 128 is a **Drum Synthesizer** and you can draw in your own notes in Reason and/or play Mixfood Step 128 like a synthesizer with your Midi Keyboard.

Default note is note C3 (MIDI note 60). Drum Slot and Step Sequencer settings can be saved in patches.

The Drum Slot also features a Mute Step Sequencer button. When used with other Triggering Devices connected to the CV in it can be helpful to press the Mute Step Sequencer button so you can leave the pattern for the selected Drum Slot intact. This button is also automatable.

The Step Sequencer can also control multiple synthesizers, turning it into a Arpeggiator! Use the CV-Outputs on the backside

*When you change the Reason Transport with your mouse during playback the Step Sequencer can sometimes play out of sync, just stop the Reason Transport and restart it from the beginning of the bar and Mixfood Step 128 will be in sync again with Reason. This will mainly happen when you have the Snap set to OFF in the Reason Sequencer Transport.

BACKSIDE (AUDIO OUTPUT, CV INPUT and CV OUTPUT)

On the Backside (use the TAB button) there is a Separate Audio Output for the Drum Slot (Dry signal). Don't forget to enable it using the knobs! When using the Separate Audio Output it's best to disconnect the Main Audio output because the audio signal will also still come through there!

There is 1 CV-Input to trigger the Drum Slot and 6 CV-Outputs to connect other devices (for Modulation or Arpeggiator/step sequences).

The CV-Input can be used with other triggering devices (like drum sequencers or step sequencers).

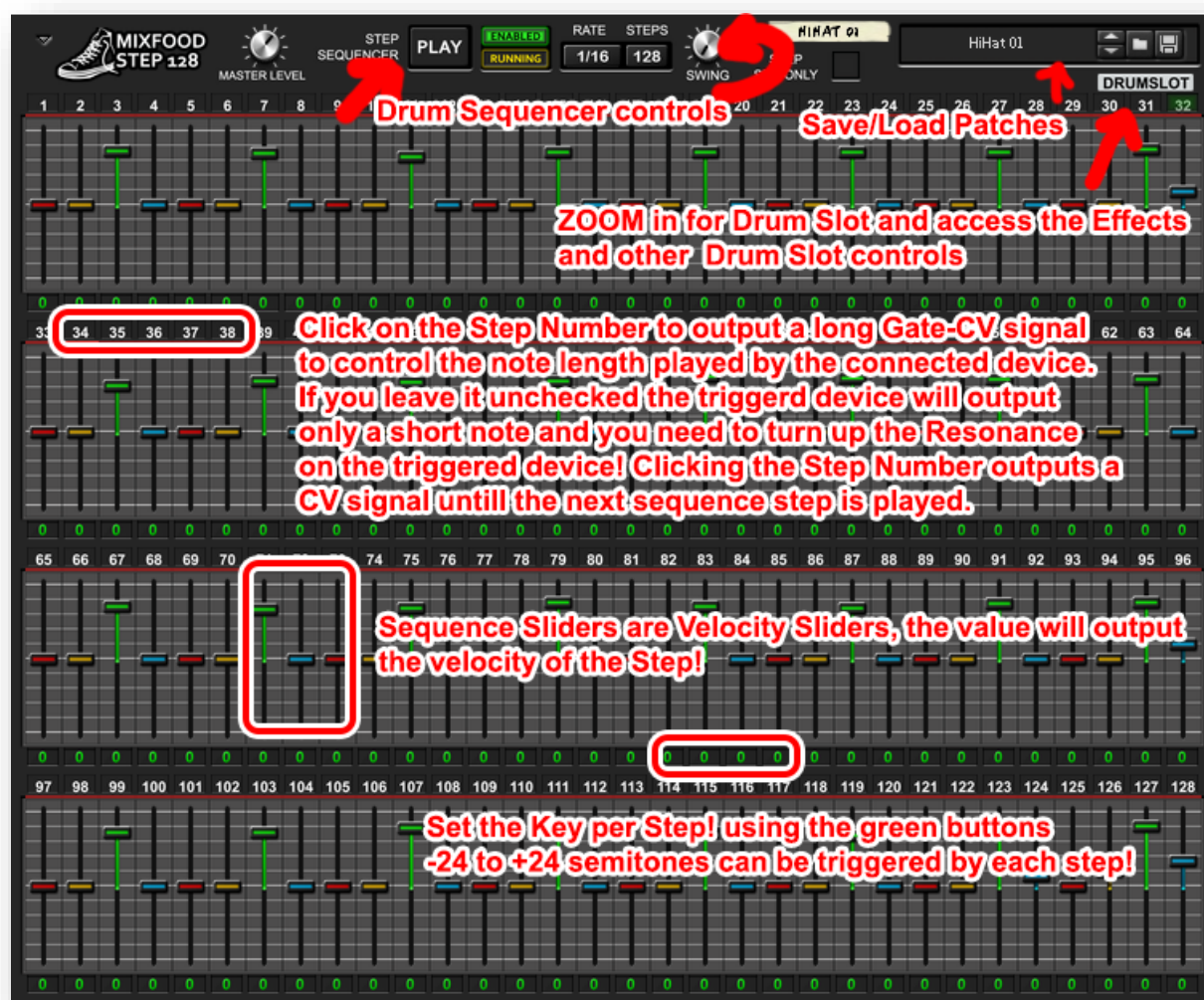
The Step Sequencer can also be used to trigger other Reason devices via the 6 CV outputs. The first 2 CV-Outputs will output a short Trigger/Gate signal, to trigger other Drum devices or other Drum Slots or to trigger a Gate signal on a Synthesizer. The other 4 CV-Outputs will output a Note CV-signal based on the value of the Step Sequencer Sliders and the Key setting below each Sequence Slider on the front.

You can use the regular CV inputs also available (next to the Main Audio Output).

Check out the Combinator patches called 'Arp' to see how you can control a synthesizer with Step 128 to turn it into an Arpeggiator with control over each step (Velocity, note length and Key)!

Each Note-CV output can be set to +/- 24 semitones, and each Sequence Step can also be set to +/- 24 semitones so you can play/trigger up to 8 octaves!

FULL VIEW of the 128-step Step Sequencer



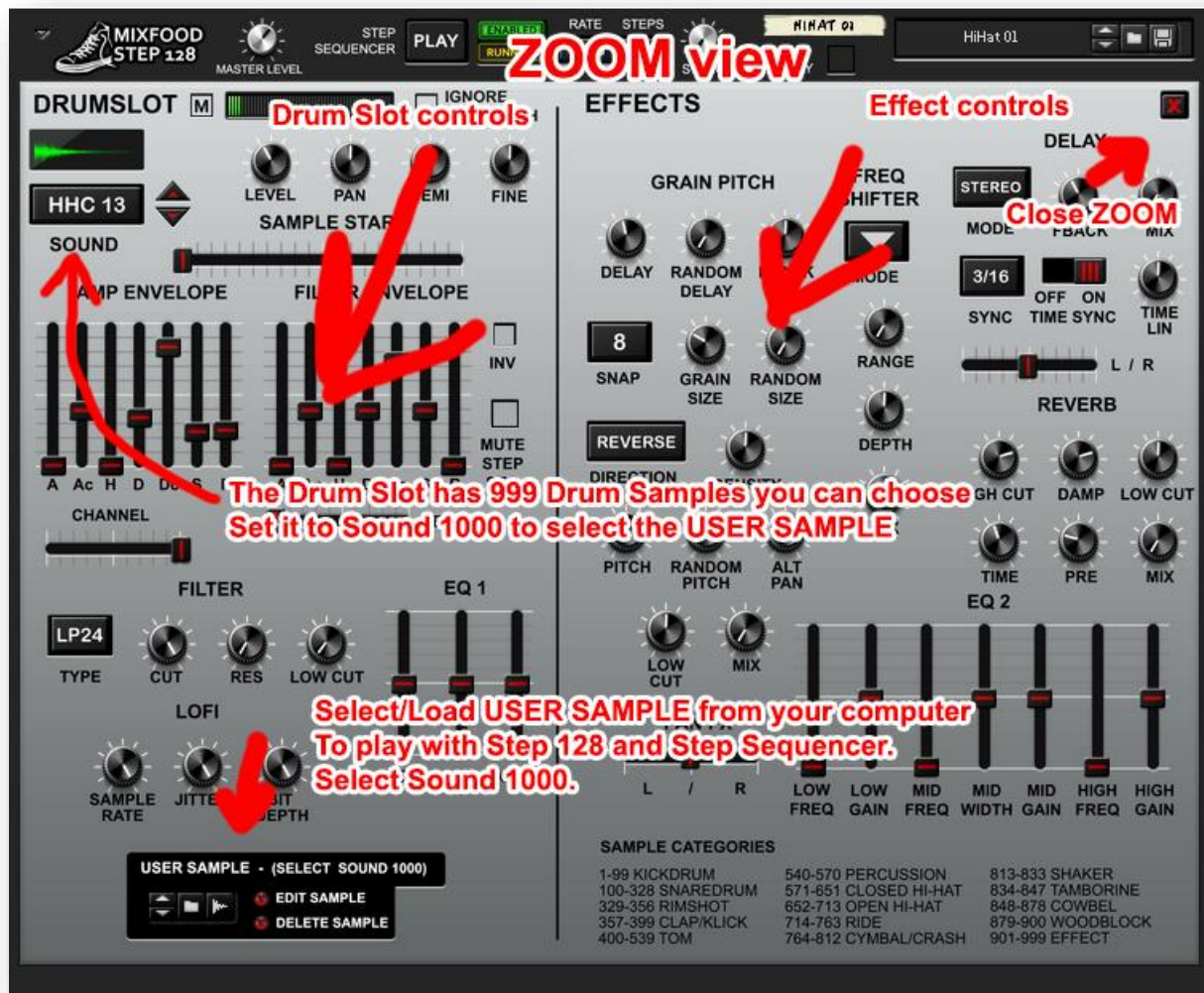
Clickable controls are:

- Master Level
- Play (starts the step sequencer in demo mode)
- Enable (Enable/Disable the Step Sequencer)
- Rate
- Steps (1-128)
- Swing control
- Step Sequencer Only (mutes the drumsound of the Drum Slot) Click this button when using Step 128 as a Step Sequencer to trigger other devices/synths/drum computers!

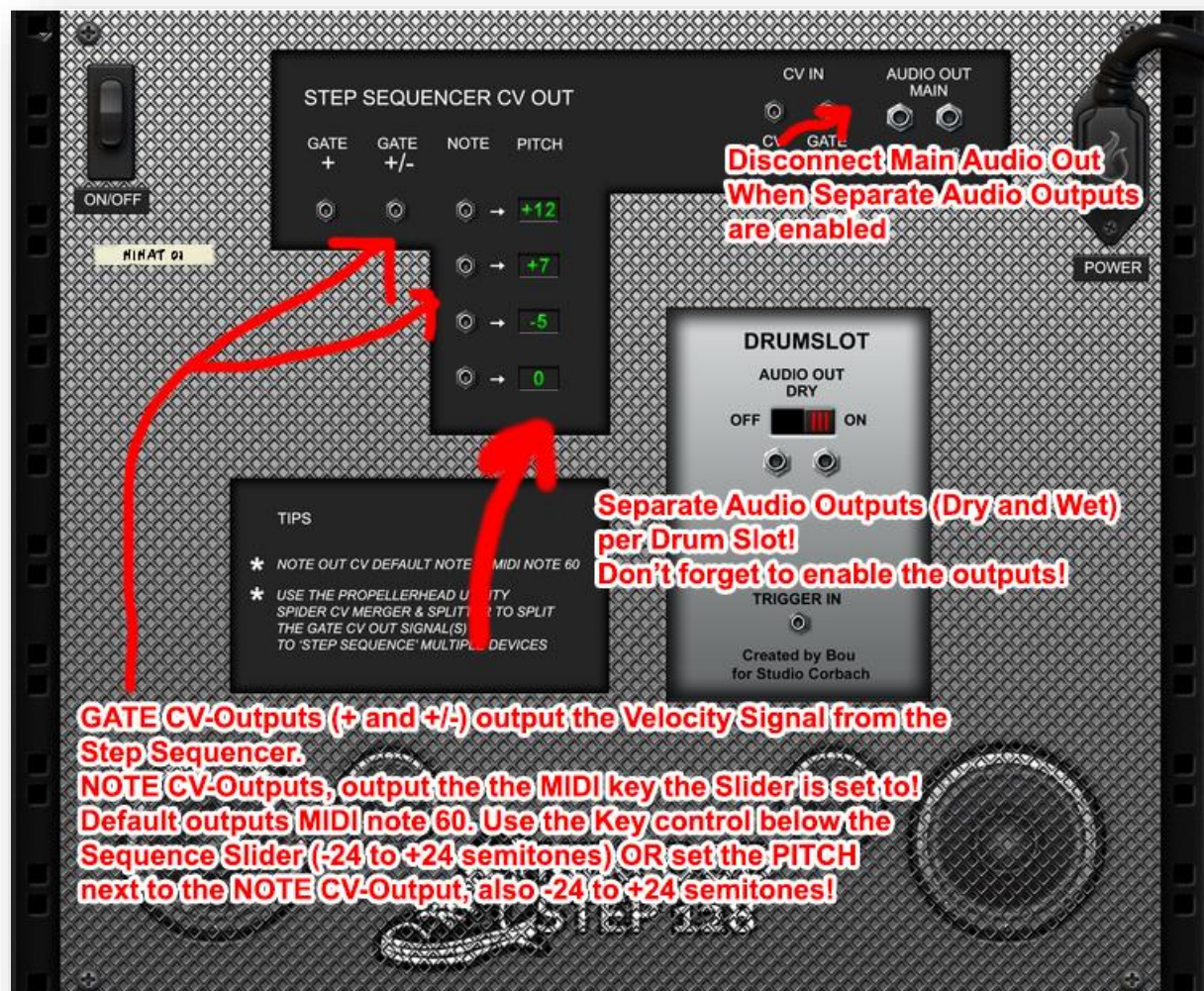
The Step Sequencer controls are:

- Velocity Sliders, set the velocity each step should output
- Click on the Step Numbers to out put a long CV-signal. When clicking multiple Step Numbers next to each other, you can trigger long notes on the connected synthesizer. When not selected, each step will trigger only a short pulse.
- The little green numbers below each Step represent the output KEY per Sequence Step! Each step can output -24 to +24 semitones!

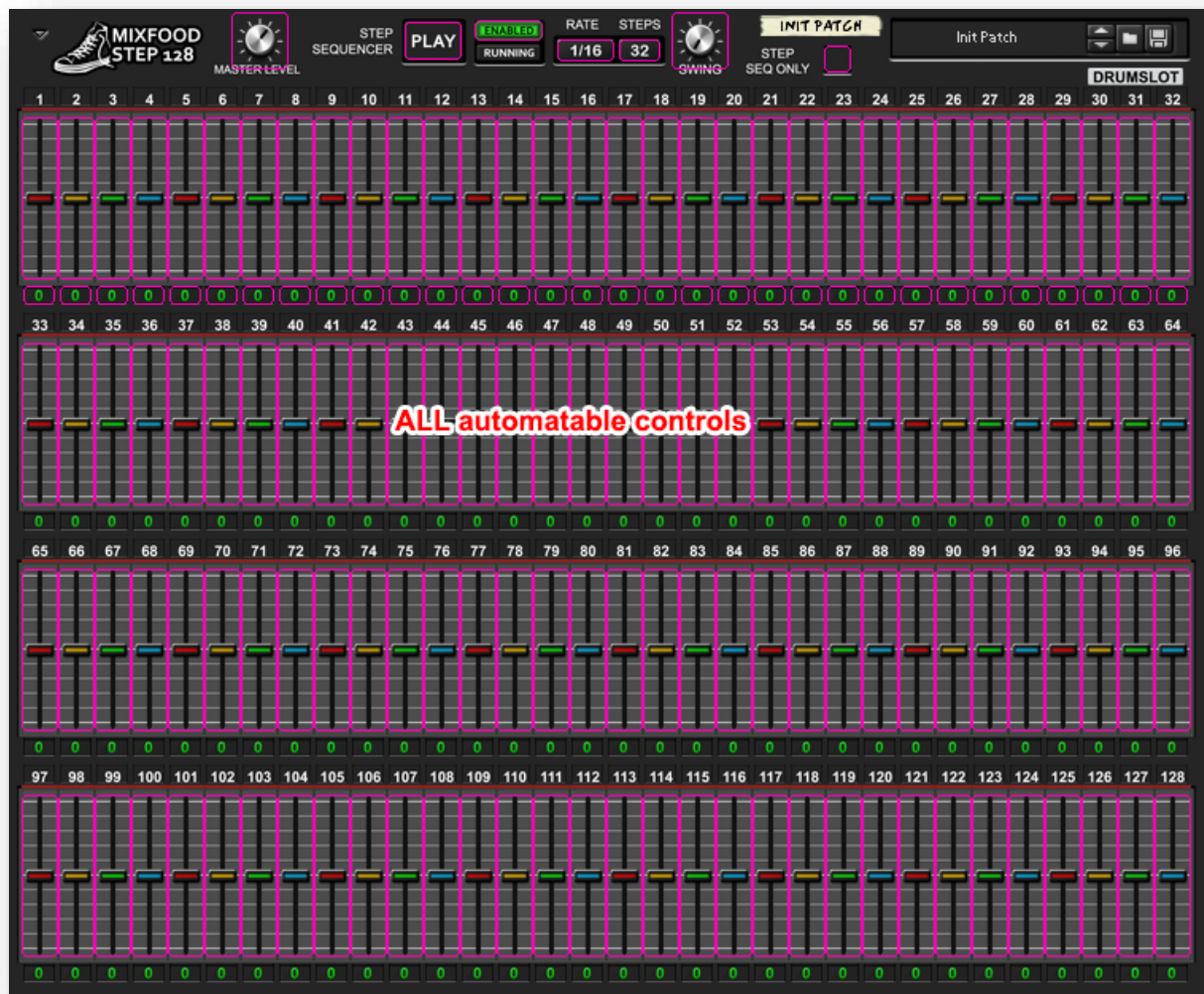
ZOOM VIEW OF THE DRUM SLOT (BIG Controls and DRUM SLOT controls, EFFECT controls for the Drum Slot)



BACKSIDE with Audio Outputs and CV-output and CV-input!

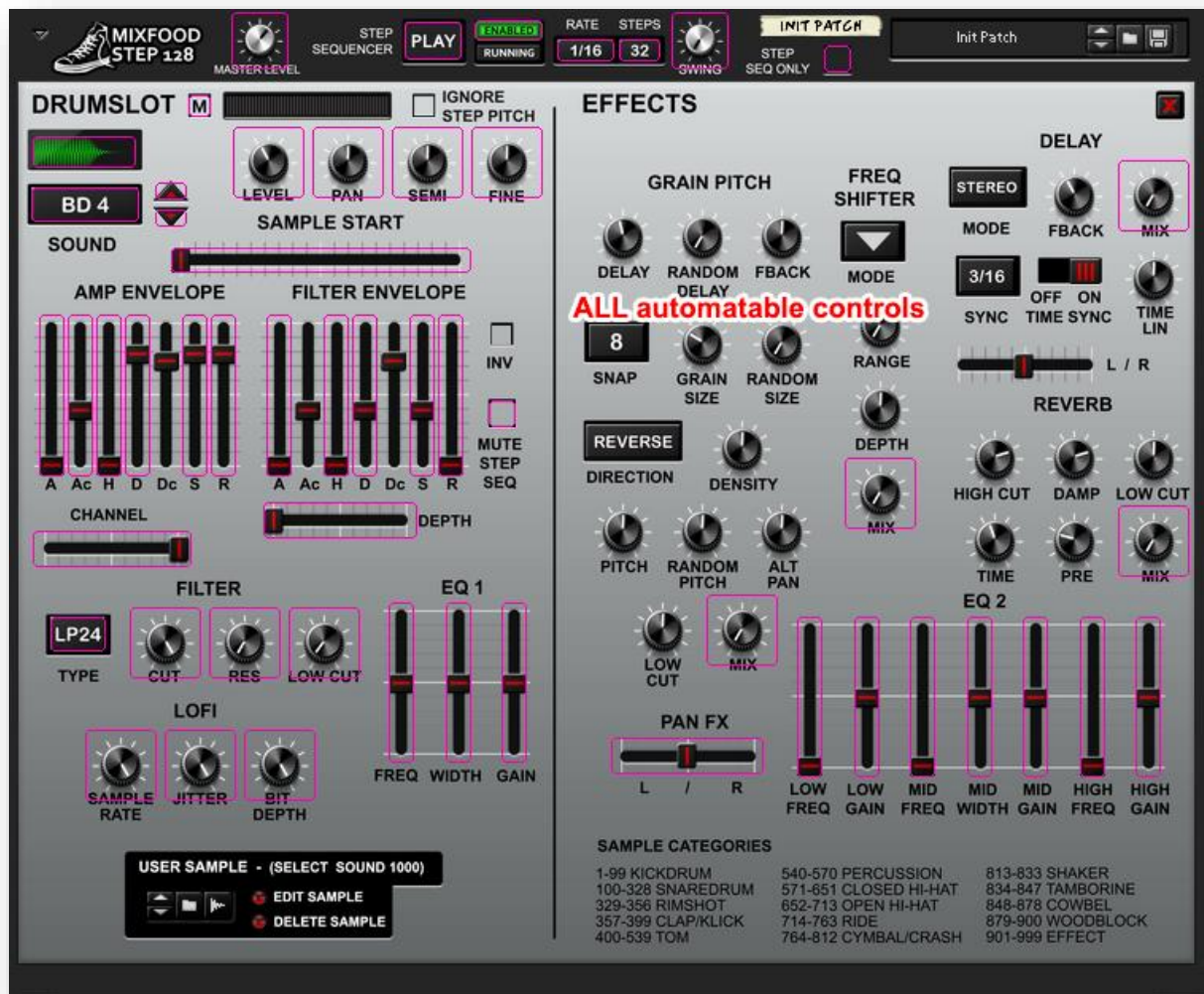


AUTOMATABLE CONTROLS (FULL VIEW)



Automatable controls can also be used in Reason Combinators.

AUTOMATABLE CONTROLS (ZOOM VIEW, DRUM SLOT)



MIXFOOD STEP 128 CV-OUT CONTROLS CONNECTED SYNTHESIZER

The screenshot shows the MIXFOOD STEP 128 software interface. At the top, there's a header bar with 'Arp 016 (Mixfood ...)', 'MUTE', 'SOLO', and 'MIX' buttons. Below this is a 'COMBINATOR' section with 'Run Pattern Devices', 'Bypass All FX', 'Show Programmer', and 'Show Devices' checkboxes, and four rotary and button controls labeled 'Rotary 1' through 'Rotary 4' and 'Button 1' through 'Button 4'. A 'MIXFOOD STEP 128' logo is also present.

The main area is a large grid of 128 steps, each with a mixer section (EQ, TREBLE, BASS, M, S, L, R) and a sequencer section (STEP, RATE, STEPS, SWING, STEP SEQ ONLY). The sequencer section has a 'PLAY' button and a 'RUNNING' indicator. The grid is divided into four sections of 32 steps each. The first section (steps 1-32) has a 'STEP SEQ ONLY' button. The second section (steps 33-64) has a 'STEP SEQ ONLY' button. The third section (steps 65-96) has a 'STEP SEQ ONLY' button. The fourth section (steps 97-128) has a 'STEP SEQ ONLY' button.

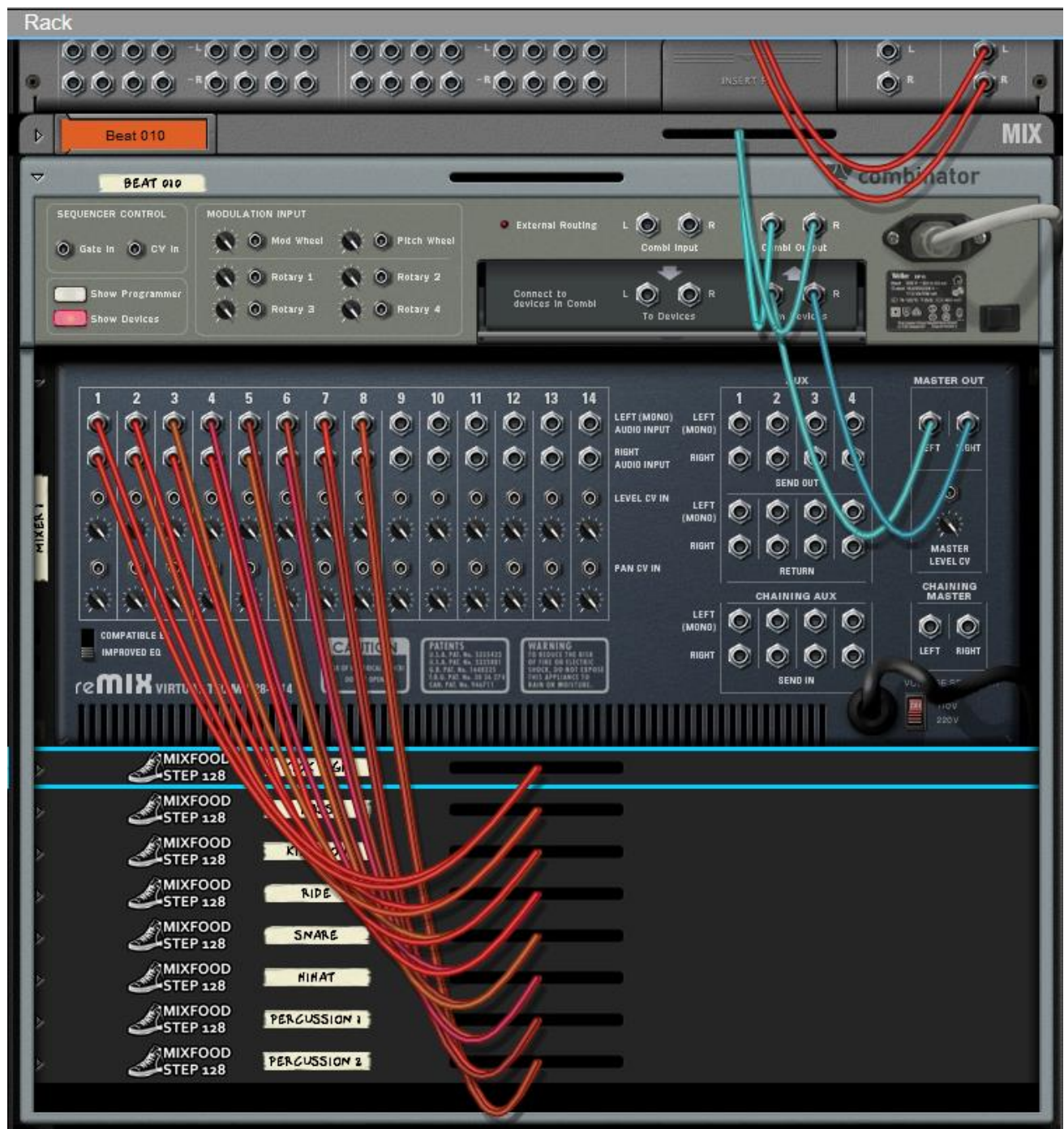
Annotations with red arrows and boxes highlight specific features:

- STEP SEQUENCER ONLY mutes the Drumsound of the Drum Slot**: Points to the 'STEP SEQ ONLY' button in the first section.
- Click the Step Number to output long CV-Signals!**: Points to the step number '11' in the first section.
- Set the Key button to output MIDI note 60 +/- 24 semitones!**: Points to the 'Key' button in the first section.
- MIXFOOD STEP 128 controls the connected Synthesizer (MIXFOOD WT4)**: Points to the 'MIXFOOD WT4' synthesizer section at the bottom.

The bottom section, 'OSCILLATORS', contains three oscillator slots (1, 2, 3) with 'EDIT', 'Off', 'Wavetable', and 'Volume' controls. The 'MIXFOOD WT4' synthesizer section includes a 'Global Filter' (LP12), 'Type', 'Cut', 'Res', 'Velocity', 'Volume', 'Pan', 'Glide', 'Legato', 'Mode', and 'Split Drive' controls.



COMBINE MULTIPLE MIXFOOD STEP 128'S USING A COMBINATOR TO CREATE
128 STEPS / 8 BAR DRUMLOOPS!



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MIXFOOD COMBINATOR

