# CIRCUIT RHYTHM

Version 2.0
User Guide Addendum

Circuit Rhythm 2.0 Update Documentation

Sample Mode: Beat Match

You can adjust the pitch of the selected sample per track, so the Sample Length matches the project's tempo.

To use Beat Match: select the sample you would like to Beat Match and go to Sample Mode (Shift or Double Tap the 'Sample' pad). If Beat Match is available* for the sample two pink pads will appear in the top row to show options for matching the sample slower or faster.

When you first load a sample it has no Beat Match, once you apply Beat Match the pad stays bright to show if the match has been done by tuning up (left) or down (right) The brighter pad below shows the Sample has been beat matched by tuning down.

Beat Match

Up	Down						
					22	23	24
25	26	27	28	29		31	32
	Gated	Loop	Reverse	Choke		Keyboard	Slice
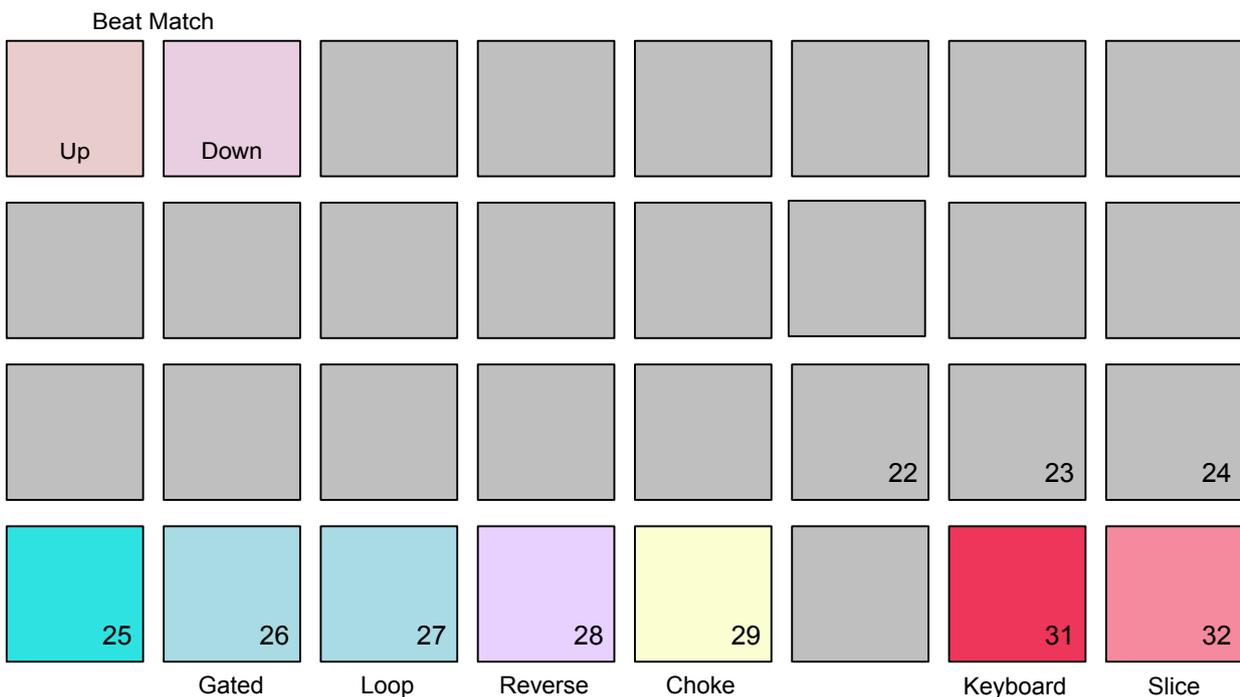
Depending on the sample length you can snap the pitch of the sample up and down to loop relative to the current tempo. If the sample is already tempo matched, the two pink pads change the sample's original pitch up or down one octave.

The pads light a dim pink colour to show the available time stretch ranges, while pads for unavailable ranges light dim red*. The pad highlighted in bright pink is the currently selected time stretch value. A sample can reach a time stretch range from half to double its original length.

The Beat Match pads are a shortcut to set the Tune value of a sample so it matches a rhythmic time division. Adjust the Tune macro pot to retune the sample and remove the Beat Match tuning.

*Very short or very long samples may not have any ranges available. Sometimes you can't stretch a sample in either direction because the allowed ranges are between 4 - 128 steps (at default sync rate).
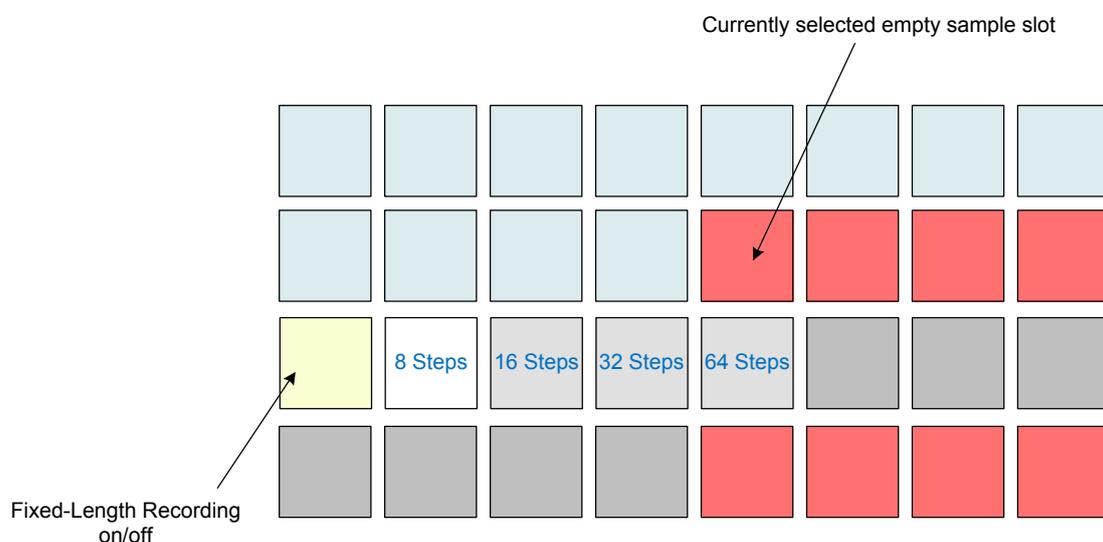
Recording Settings: Fixed Length Recording

Fixed length recording mode allows you to set the length you want your sample to be before you record it.

To access fixed length recording:

1. Go to the Sample Rec page and choose an empty sample slot (dim red pads).

2. Press the dim sand-coloured pad (17) to toggle Fixed Length Recording on and off. The rest of the pads will read 'Fix' to show when you enable (green/white) and disable (Red/white) fixed-length recording.

Fixed Length Recording On

Fixed Length Recording Off
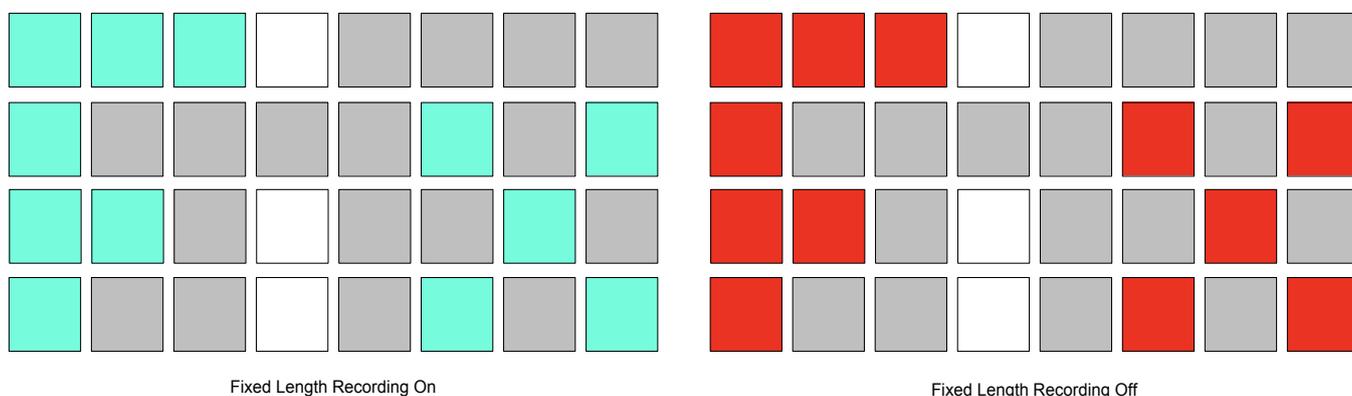
3. Press one of the white pads, to the right of the Fixed Length Recording toggle, to choose a length for your recording. There are four length options available. You can select from 8, 16, 32 or 64 steps (left to right).

Currently selected empty sample slot

8 Steps   16 Steps   32 Steps   64 Steps

Fixed-Length Recording on/off

The fixed-length record pad only appears when you select an empty sample slot.

To start recording either press record or press record and exceed the recording threshold (see Recording Threshold On/Off), the recording stops after reaching the set time.

After you start recording, pad row 3 shows a progress bar for the Fixed Length Recording. The pads reach the right-hand side when you've finished recording. With Fixed Length Recording Off, this bar shows your remaining sample space.

Recording in progress (just over 50%)

Waiting for recording threshold
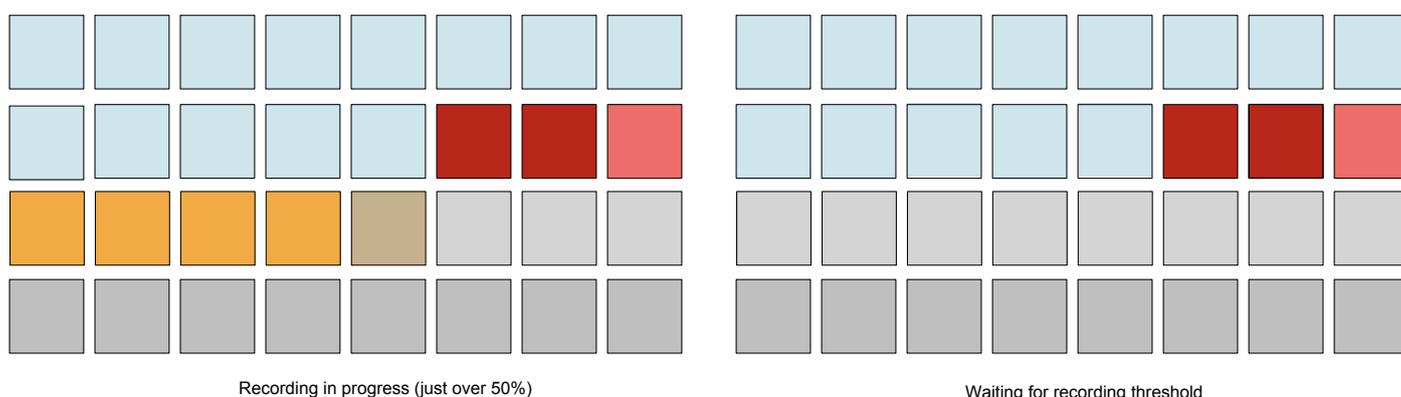
Grid FX Editing

In Grid FX mode you can edit the parameters for the active (audible) effect using the macro pots. To access the parameters, enable an effect (in either latch or momentary) and the LEDs under the macro pots light to show you which parameters you can access with the colour showing the effect.
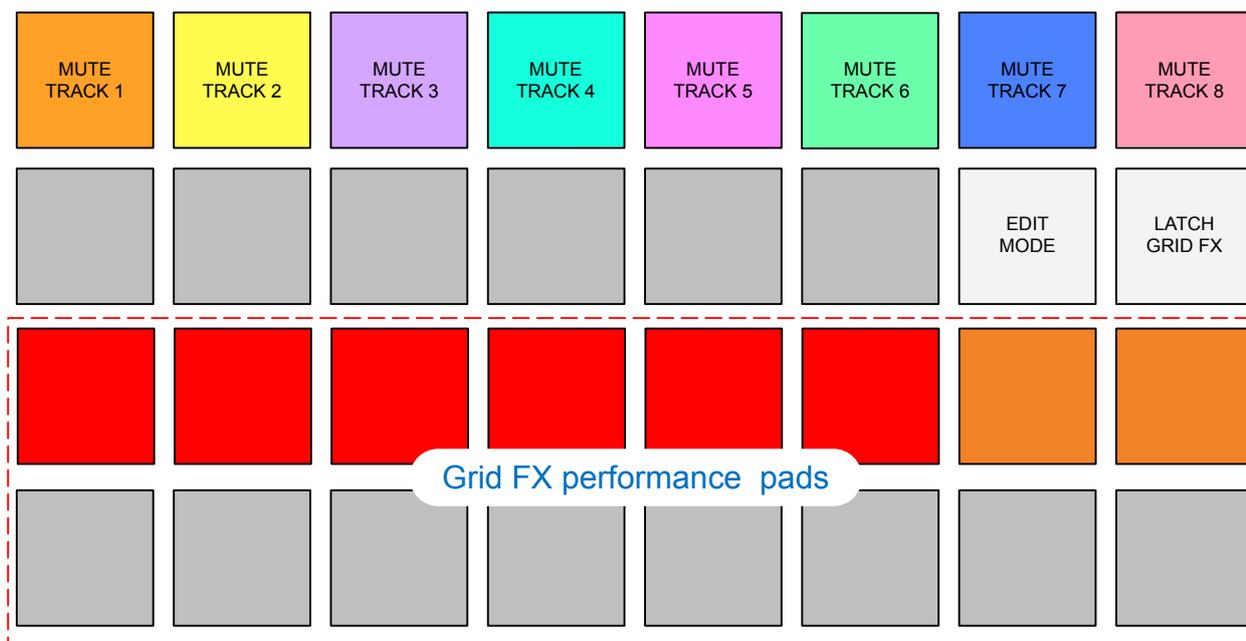
Macro pot two (Start) always changes the effect type. Changing the effect type preserves the state (i.e., latch) of the previous effect patch. You can't select effect types that are either pressed or latched this way. If you pressed a latched patch, it would not release the latch state if you have edited the patch.

The parameters you can control (and their default values) relating to the macro pots are:

Macro Pot/Effect	1 Tune	2 Start	3 Length	4 Slope	5 Distortion	6 HP Filter	7 LP Filter	8 Resonance
Beat Repeat	Rate (1/8)	Type	Triplets (off)		Wet Dry Mix (0)			
Reverser	Rate (1/4)	Type						
Gater	Rate (1/8)	Type	Triplets (off)					
Auto Filter	Rate (1 bar)	Type	LFO Shape (Triangle)		Depth (40)	Filter Type (lowpass)	Filter Frequency (80)	Filter Resonance (63)
Digitse	Sample Reduction (30)	Type	Bitcrush (30)					
Phaser	Rate (1/2)	Type	Depth (64)		Feedback (0)		Centre (0)	
Vinyl Sim	Wobble (64)	Type	Crackle (64)		Hiss (64)		Filter (64)	

By default, all effects (edited or not) save with the current session 'Performance Mode'. While in Performance mode with the Edit toggle 'off' changes you make to Grid FX parameters reset when you release the effect. This allows you to relaunch performances starting from the same place each time.

To make permanent changes you can enable the 'Edit' toggle (second to last pad on the second row) (See diagram below). While Edit is active, any changes are kept once you release the effect. This allows you to set up new Grid FX layouts from Circuit Rhythm.

MUTE TRACK 1	MUTE TRACK 2	MUTE TRACK 3	MUTE TRACK 4	MUTE TRACK 5	MUTE TRACK 6	MUTE TRACK 7	MUTE TRACK 8
						EDIT MODE	LATCH GRID FX

Grid FX performance pads

You can page through to edit all currently active effects using the up and down arrow buttons (see diagram). You can still reach the mixer volume and pan macro layouts by paging down while grid effects are active.

Assigning Mute States to Scenes

When you assign a pattern chain to a Scene pad you will also save the currently selected Mixer Mutes to that Scene.

When playing back scenes you can choose from two playback modes. You can toggle between the two playback modes using pad 9 (1st pad, second row). The pad lights white and is bright white to show it is active.

Scene pads
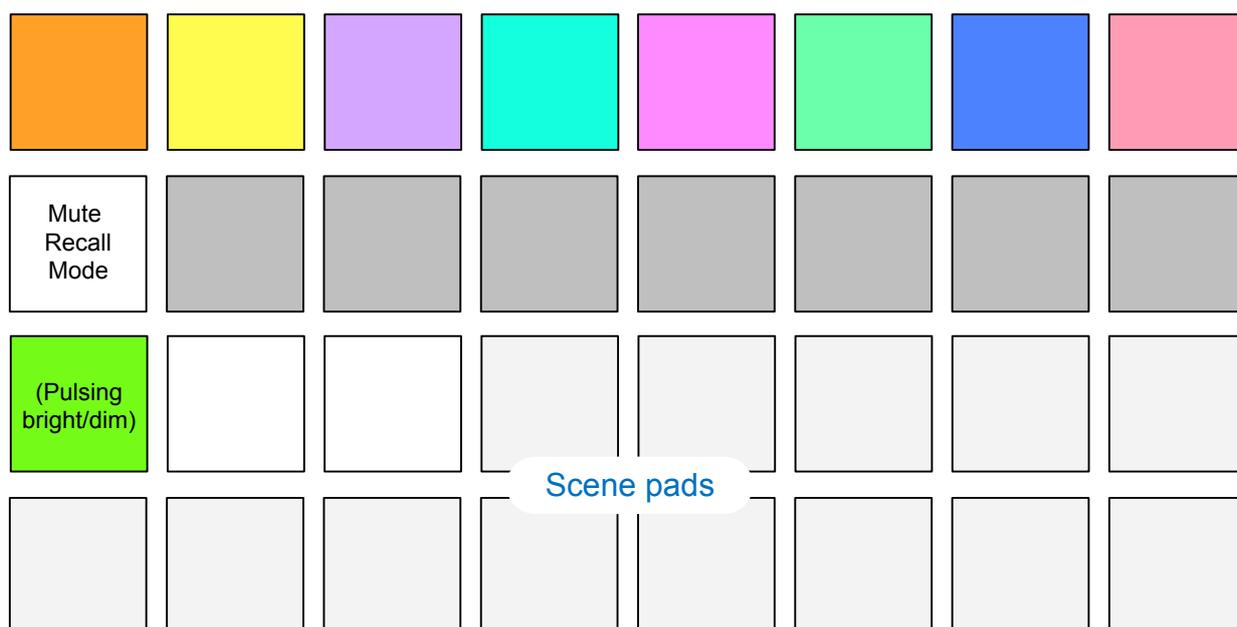
If the Mute Recall Mode is active, Scenes recall the Mute states saved to them. If the toggle is inactive the Scene keeps your currently selected Mute states, and the Mute states will not change when you change to Scenes with different Mute states.
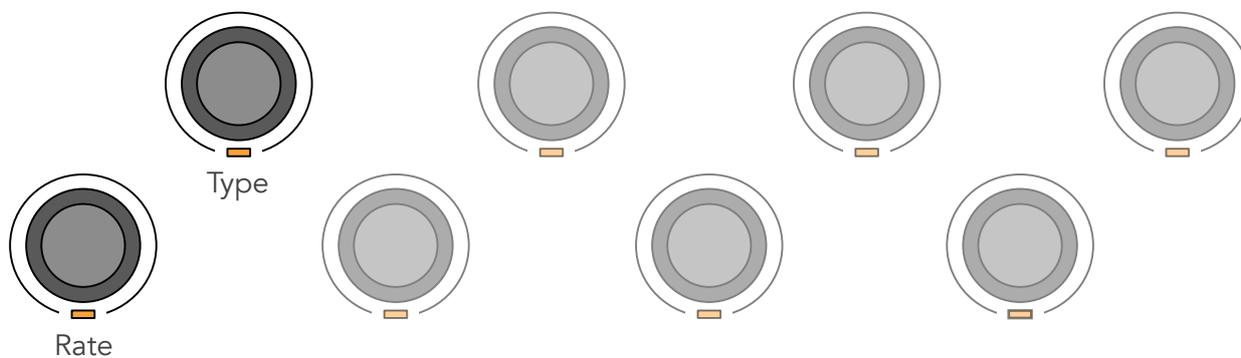
Grid FX Cheat Sheets

These illustrations show which parameters the Macro pots control for each Grid FX. The greyed out macro pots show these pots don't have parameters assigned.
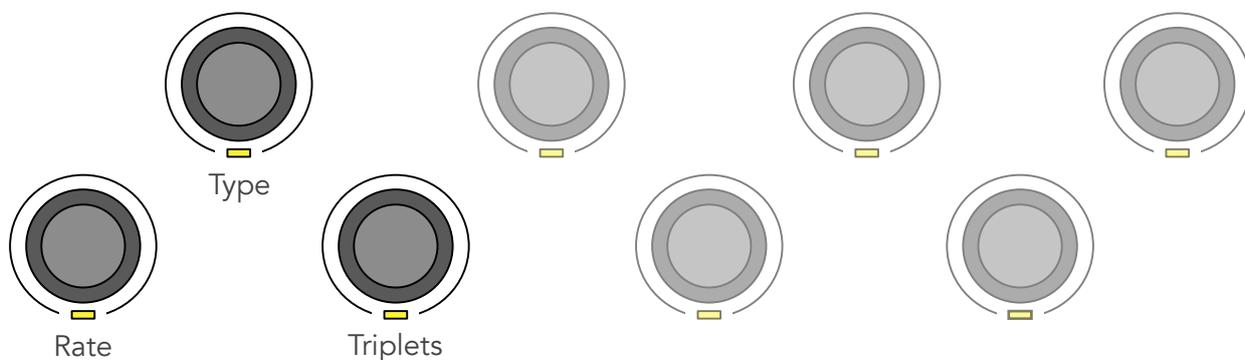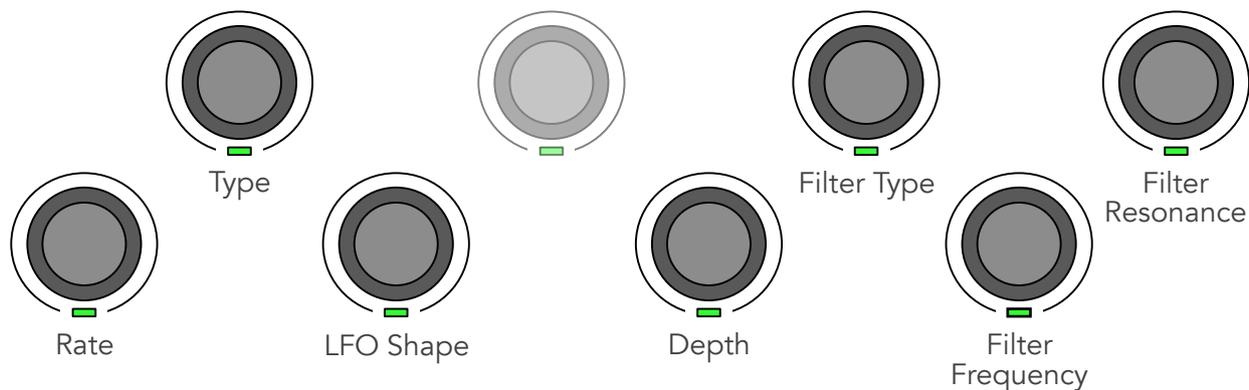
Beat Repeat

Type
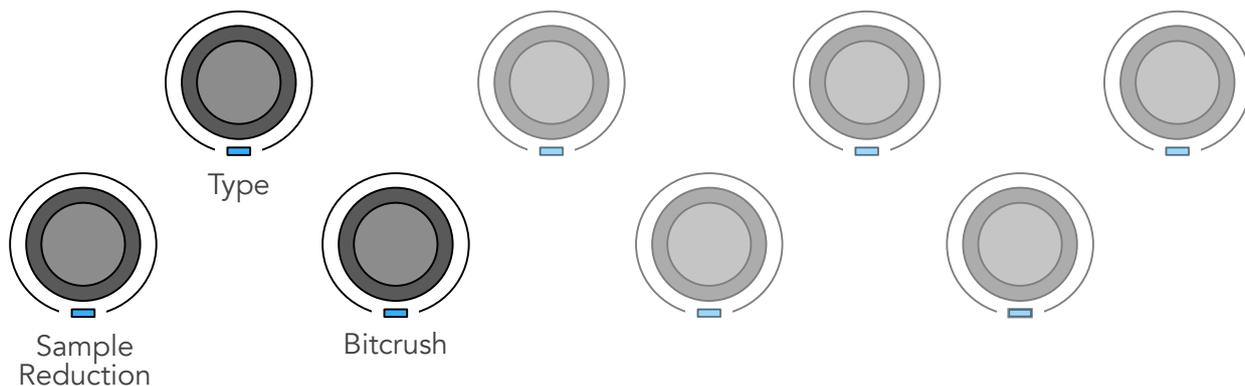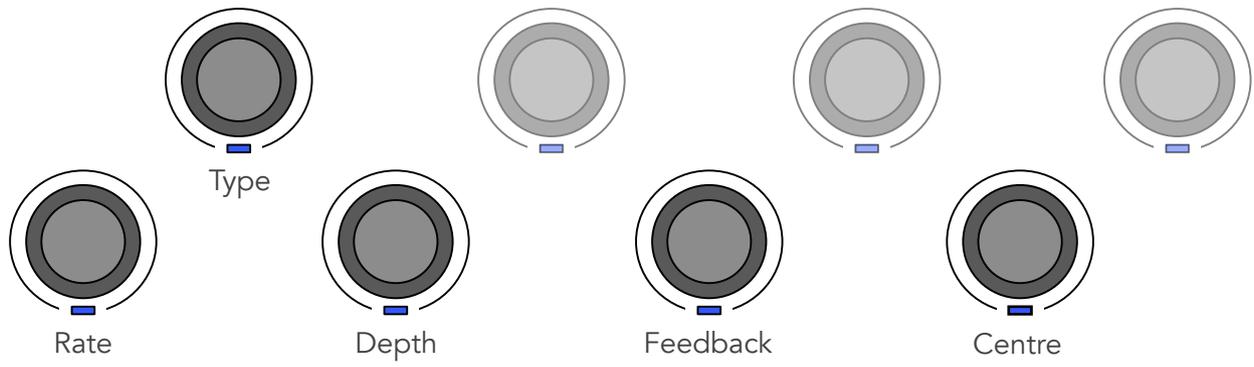
Rate   Triplets   Wet Dry Mix

Reverser

Type

Rate

Gater

Type

Rate

Triplets

Auto Filter

Type

Rate

LFO Shape

Depth

Filter Type

Filter
Frequency

Filter
Resonance

Digitise

Type

Sample
Reduction

Bitcrush

Phaser

Type

Rate

Depth

Feedback

Centre

Vinyl Sim

Type

Wobble

Crackle

Hiss

Filter