

Gotharman's zaTurn



Modular Synthesizer

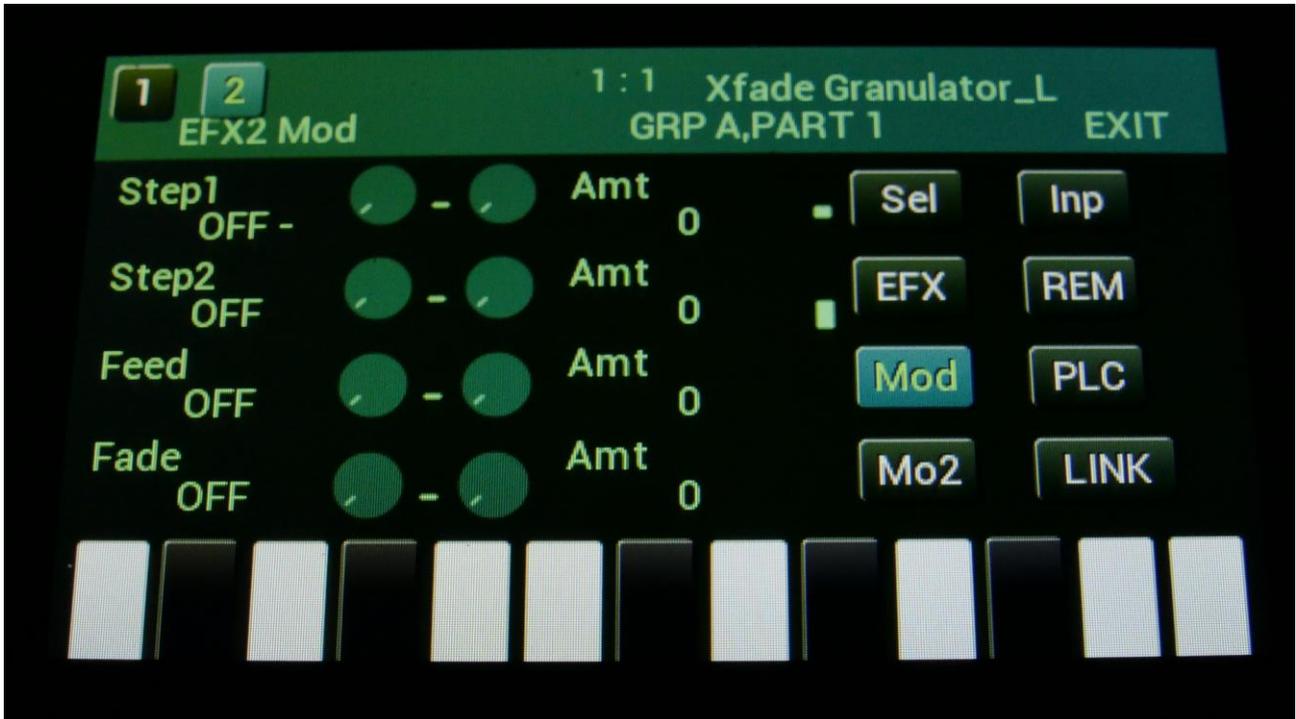
Update Manual 9.14

Table of Contents

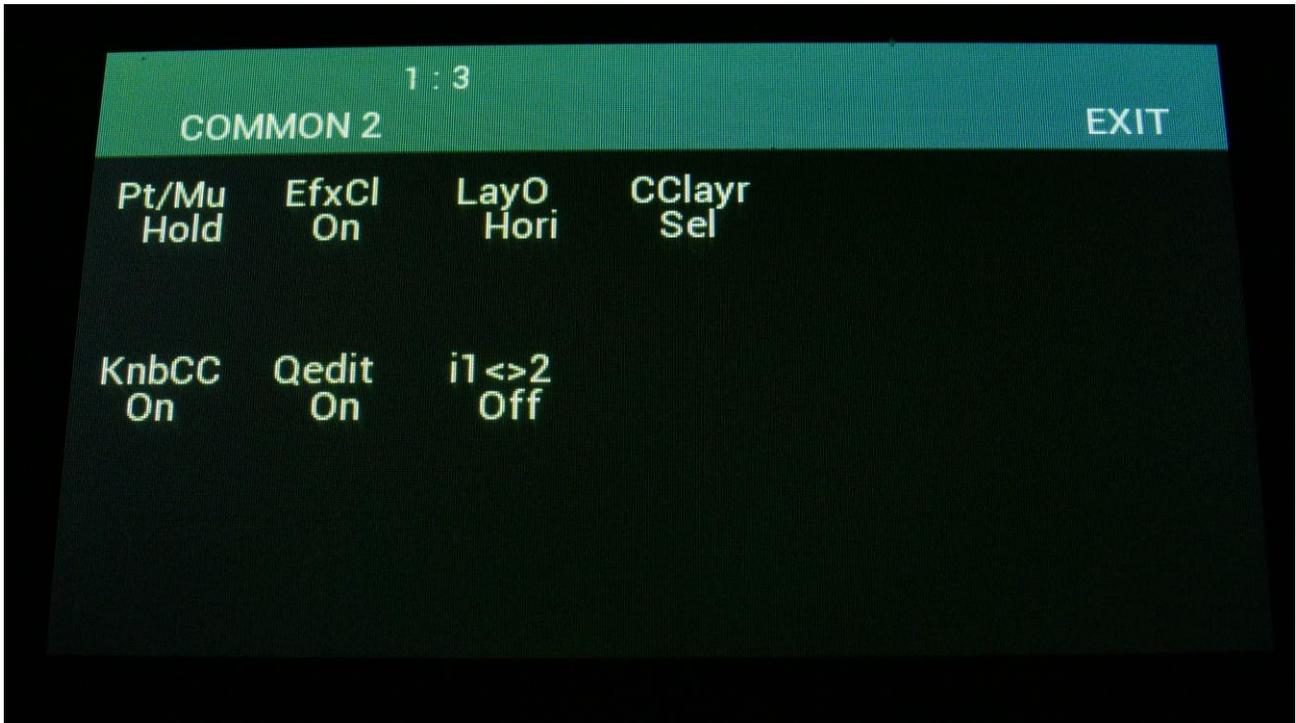
Vertical Parameter Layout	3
Oscillator Type 2 Shape Parameter.....	5
New LFO Wave Shapes.....	6
Group Morph	8

Vertical Parameter Layout

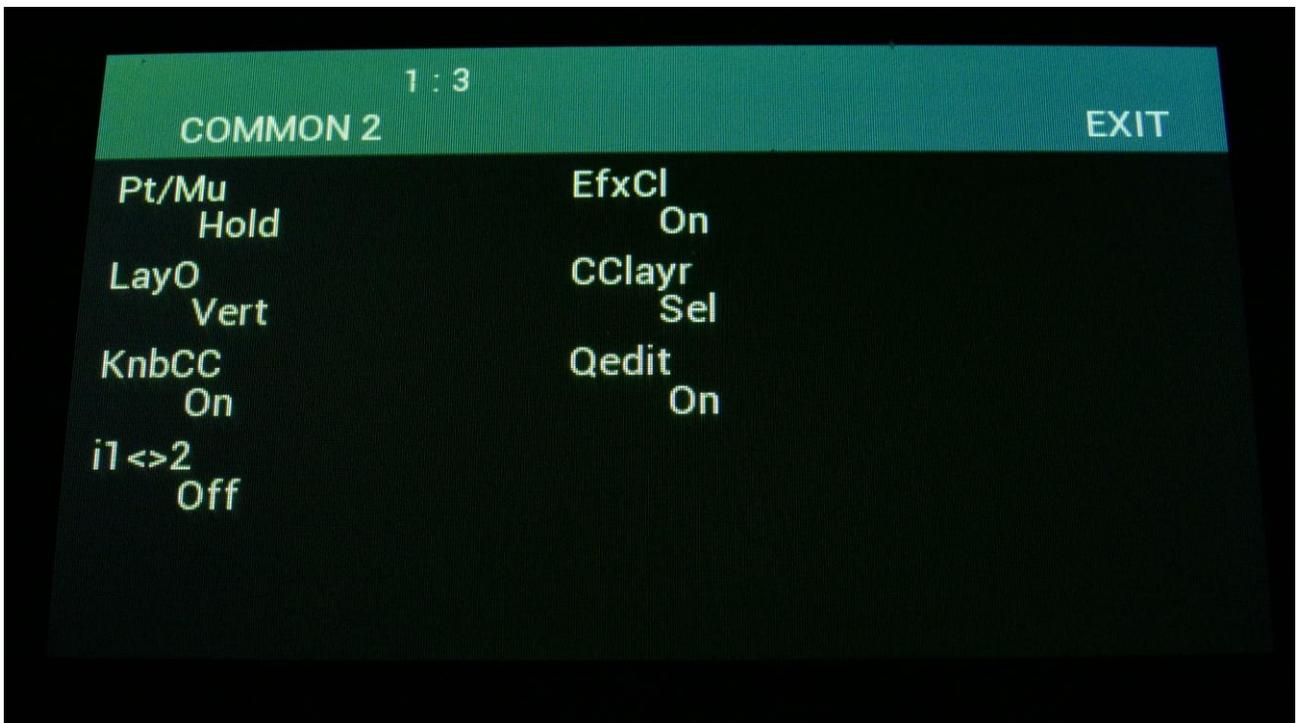
In order to make the parameter layout fit with the position of the Edit Knobs, a new vertical parameter layout has now been added.



To switch between the vertical and horizontal parameter layouts, go to MOR>COM2.



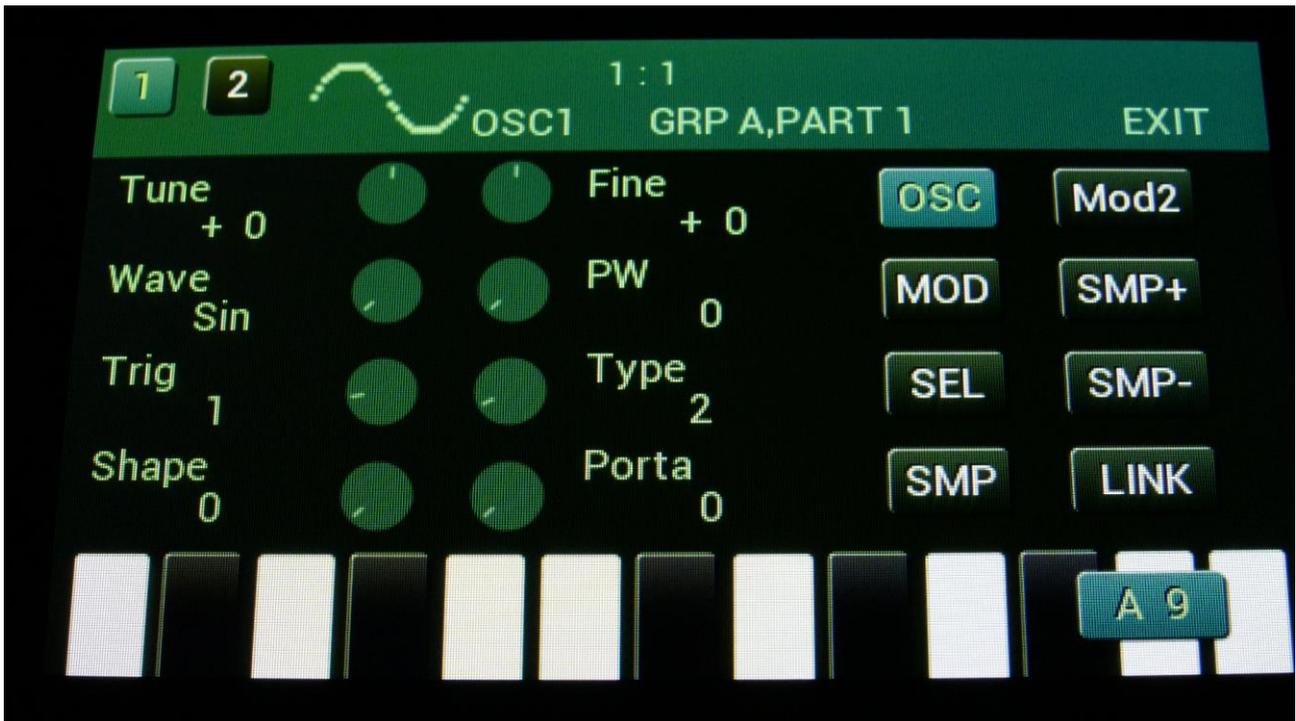
Turn Edit Knob 4 to switch between the two layouts.



Oscillator Type 2 Shape Parameter

A new Shape parameter has been added to the Type 2 oscillators.

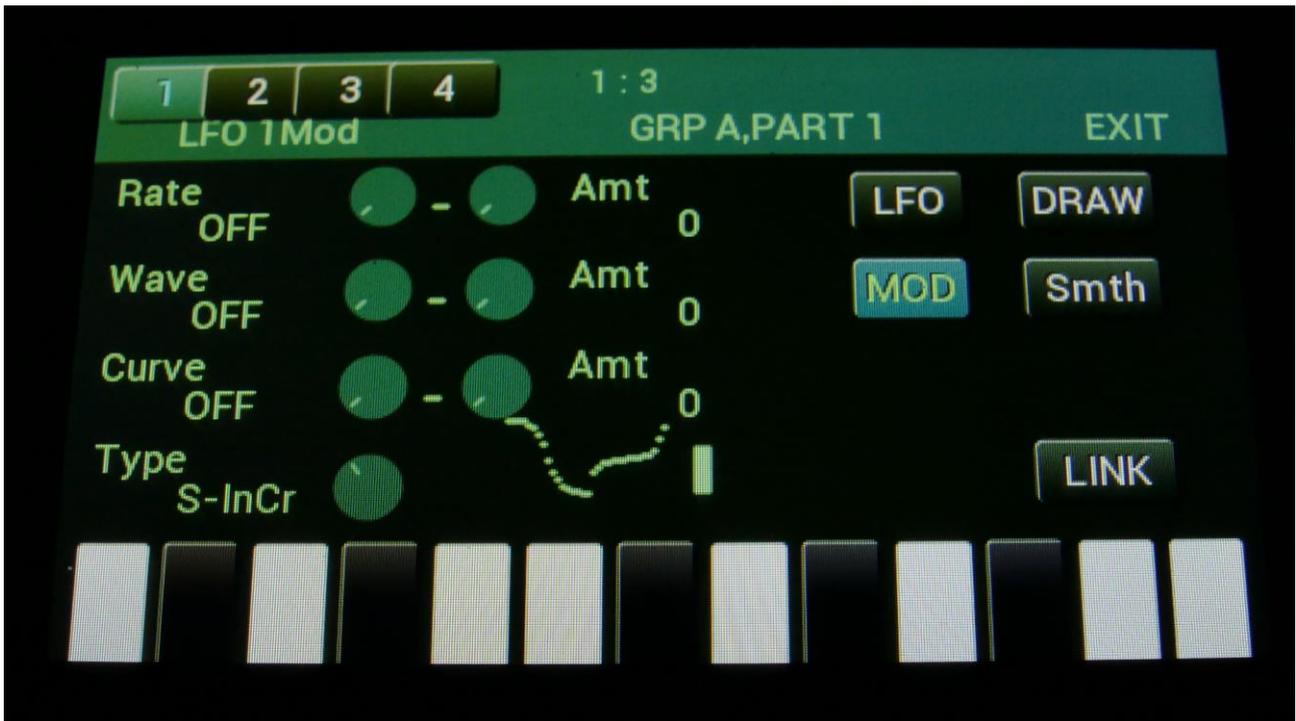
This parameter adds harmonics to the saw tooth wave and folding to the other wave forms. When set to 244, the saw tooth has the same amount of harmonics as the Type 1 saw tooth wave. Values above this will add odd harmonics to the saw tooth wave. Folding is added even to the square waves.



New LFO Wave Shapes

Some new LFO modes have been added. It is now possible to have the first and second half of the LFO wave, playing back with inverted shapes. It is also possible to fold the LFO wave. Both the standard LFO waves and the draw waves are affected by these settings.

The parameter for selecting the new modes is called Type, and is located on the LFO MOD pages.



Type: The following LFO modes are available:

-**Normal:** **Wave** morphs from triangle to saw to pulse to FM waves, **Curve** morphs from logarithmic to linear to exponential.

-**InvCrv:** Inverted Curve. Same as Normal, except that the curve is inverted on the second half of the LFO waveform, so if the curve parameter is in the logarithmic area, the first half of the LFO waveform plays back logarithmic and the second half plays back exponential.

-**S-shp:** **Wave** morphs from triangle to saw to pulse to FM waves, **Curve** morphs from logarithmic s-shape to logarithmic to linear to exponential to exponential s-shape .

-**S-InCr:** S-shape inverted Curve. Same as S-shp, except that the curve is inverted on the second half of the LFO waveform, so if the curve parameter is in the logarithmic area, the first half of the LFO waveform plays back logarithmic and the second half plays back exponential.

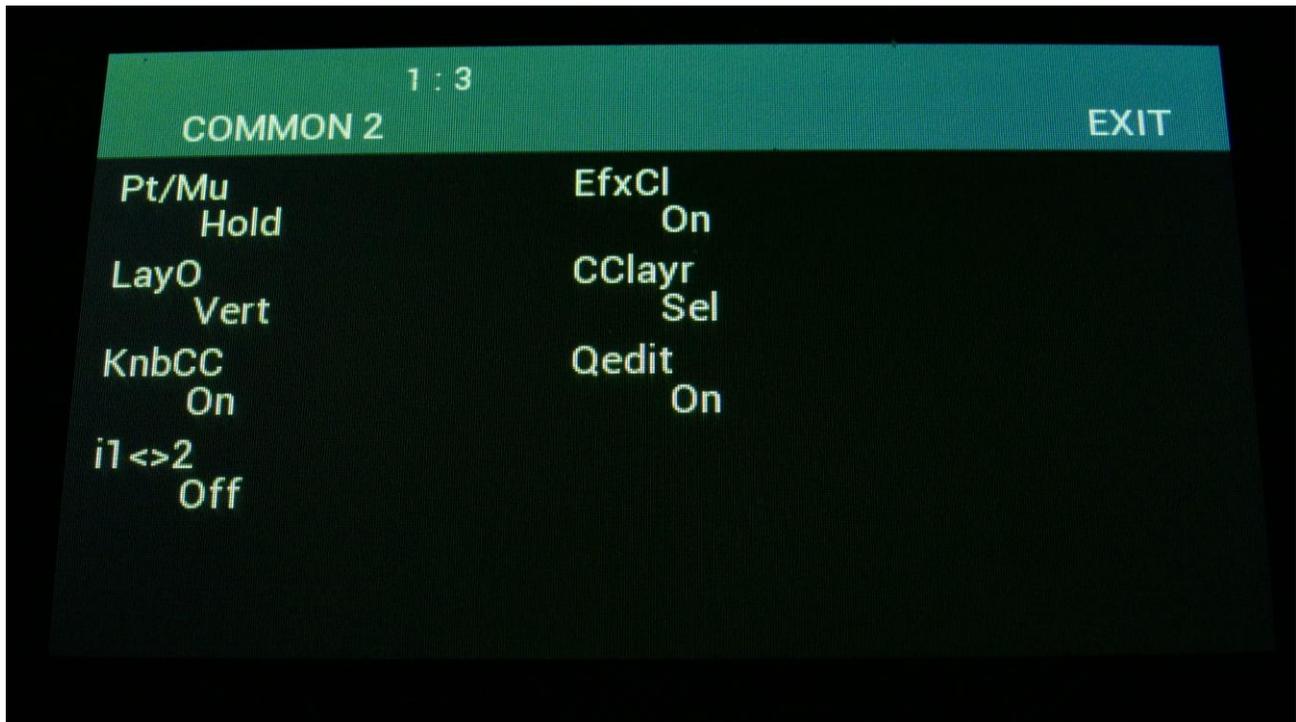
-**Fold:** Shaped triangle wave. **Wave** adds wave folding, **Curve** morphs from logarithmic s-shape to logarithmic to linear to exponential to exponential s-shape .

-FoldIC: Fold inverted Curve. Same as Fold, except that the curve is inverted on the second half of the LFO waveform, so if the curve parameter is in the logarithmic area, the first half of the LFO waveform plays back logarithmic and the second half plays back exponential.

Group Morph

It is now possible to assign the eight Edit Knobs to function as Group Morph knobs.

Set the Qedit parameter in the MOR>COM2 menu to Mrph (Edit Knob 6), and Edit Knob 1 to 4 will morph synthesizer group A to D, and Edit Knob 5 to 8 will morph sequencer group A to D.



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