

# Gotharman's zaTurn Zero



Modular Synthesizer

Update Manual 2.26

## Table of Contents

VCF8 .....	3
Knob Draw Waves .....	5
Effect Feedback Point .....	7
Save Preset VCF Type .....	9
Bug Fixes.....	10

## VCF8

Zaturn Zero is now compatible with VCF8.

VCF8 is the Urano VCF51 further engineered. This filter has lots of character and bite. It is crunchy and punchy!

At higher input levels and resonance settings, the resonance will distort.

The resonance can be set to self-oscillate by a switch.

For each analog group, you will get two 12db analog filters, which each have the following modes:

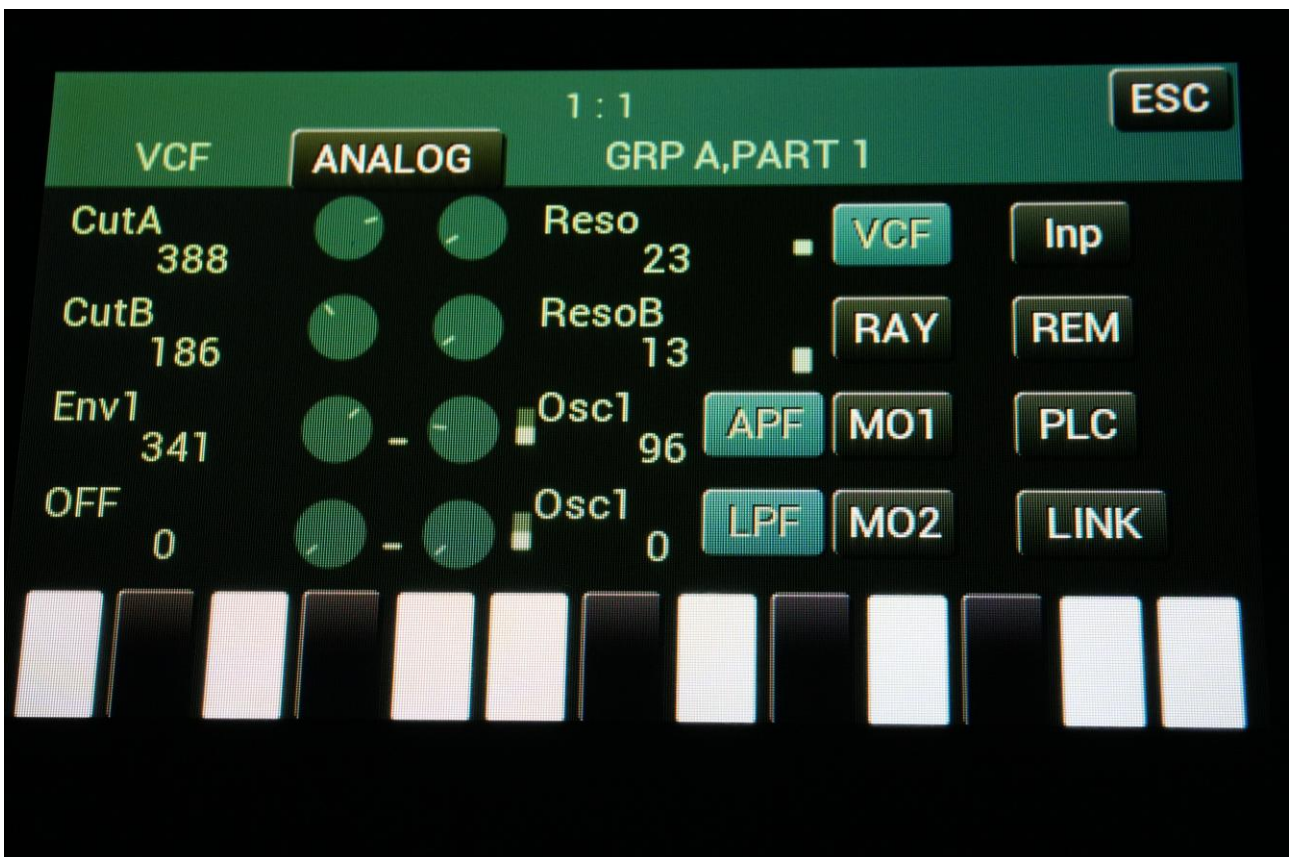
-LPF

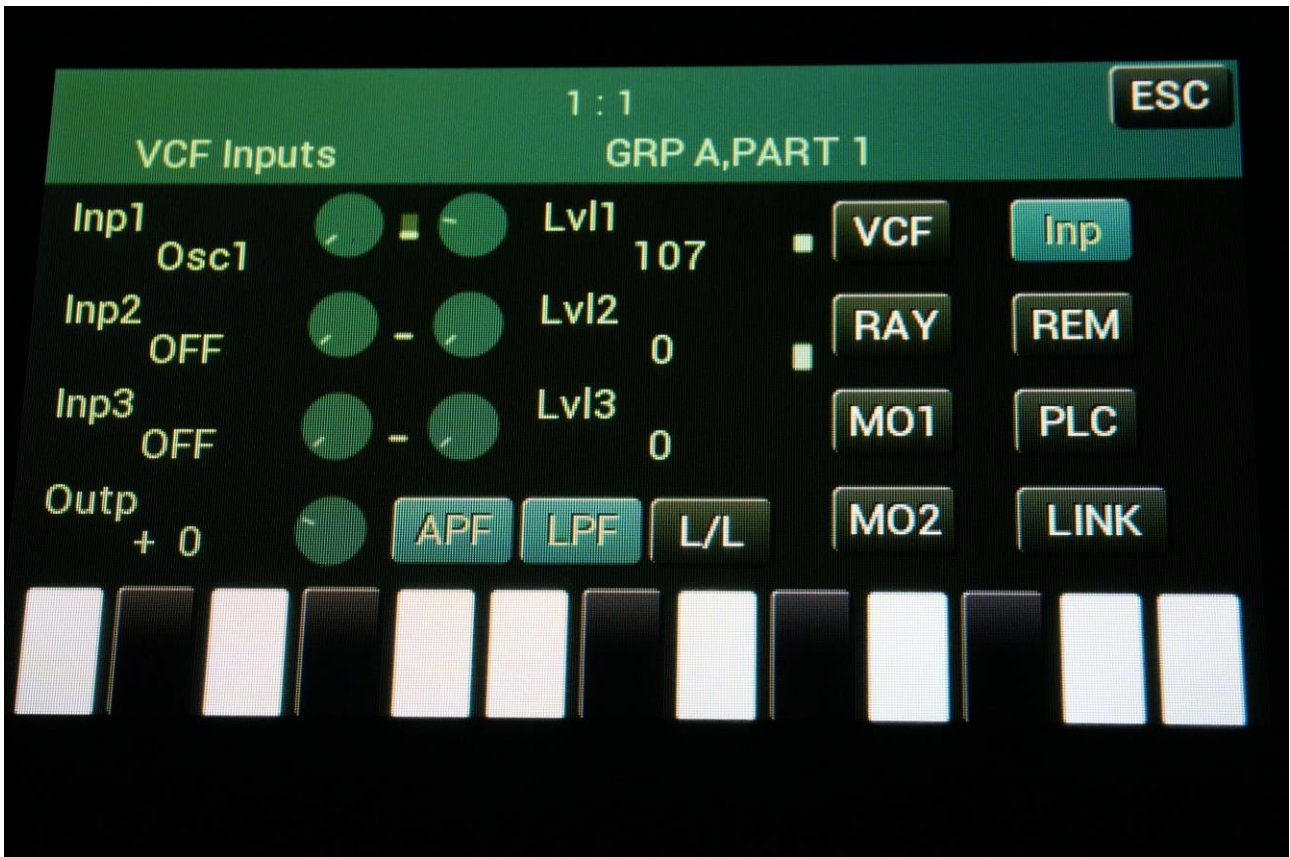
-BPF

-APF

-APF inverted (only filter A)

-LPF inverted (only filter B)





By the third touch button on the inputs page, the resonance mode can be set:

**L/L:** Both filter A and B are in non-self-oscillating mode.

**H/L:** Filter A is in self-oscillating mode, filter B is not.

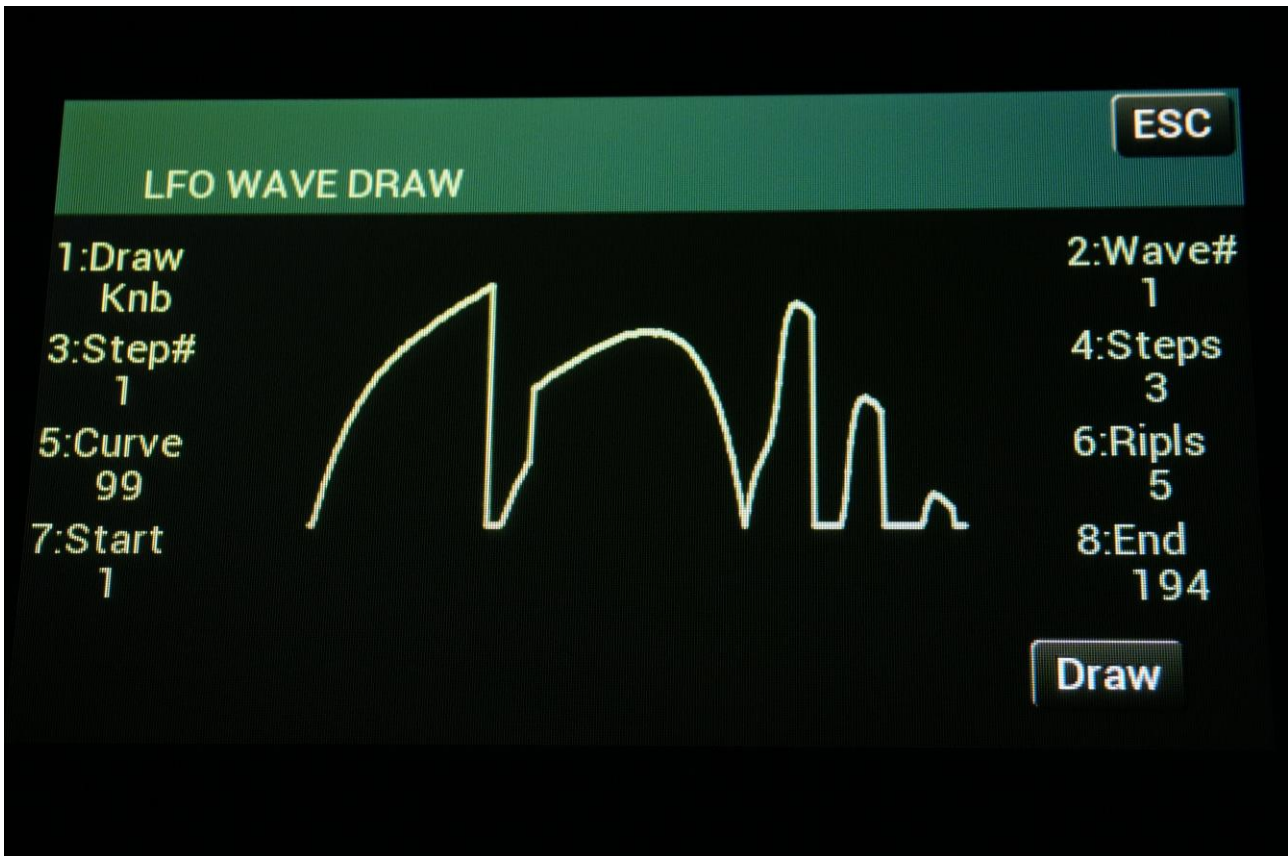
**L/H:** Filter B is in self-oscillating mode, filter A is not.

**H/H:** Both filters A and B are in self-oscillating mode.

When a filter is in self-oscillating mode, it will have a different character, depending on the filter mode selected.

## Knob Draw Waves

The Draw Waves, which can be used by the LFO's and the Draw Wave Oscillators, can now both be drawn by touch input and by using the knobs!



To use the knobs for drawing, first set the **1:Draw** mode parameter to "Knb".

The knob drawing can have anything between 1 and 8 "steps". Each step can be adjusted individually.

Set the **4:Steps** parameter to the desired number of steps. This can be changed on the fly to experiment, so you don't have to make a final decision here. Every time this parameter is changed, the Draw Wave will just be redrawn and divided in the selected number of equally sized steps.

The **3:Step#** parameter will select a step for editing with the 5:Curve, 6:Ripls, 7:Start and 8:End parameters.

The **7:Start** parameter will set the start level of the currently selected step.

The **8:End** parameter will set the end level of the currently selected step.

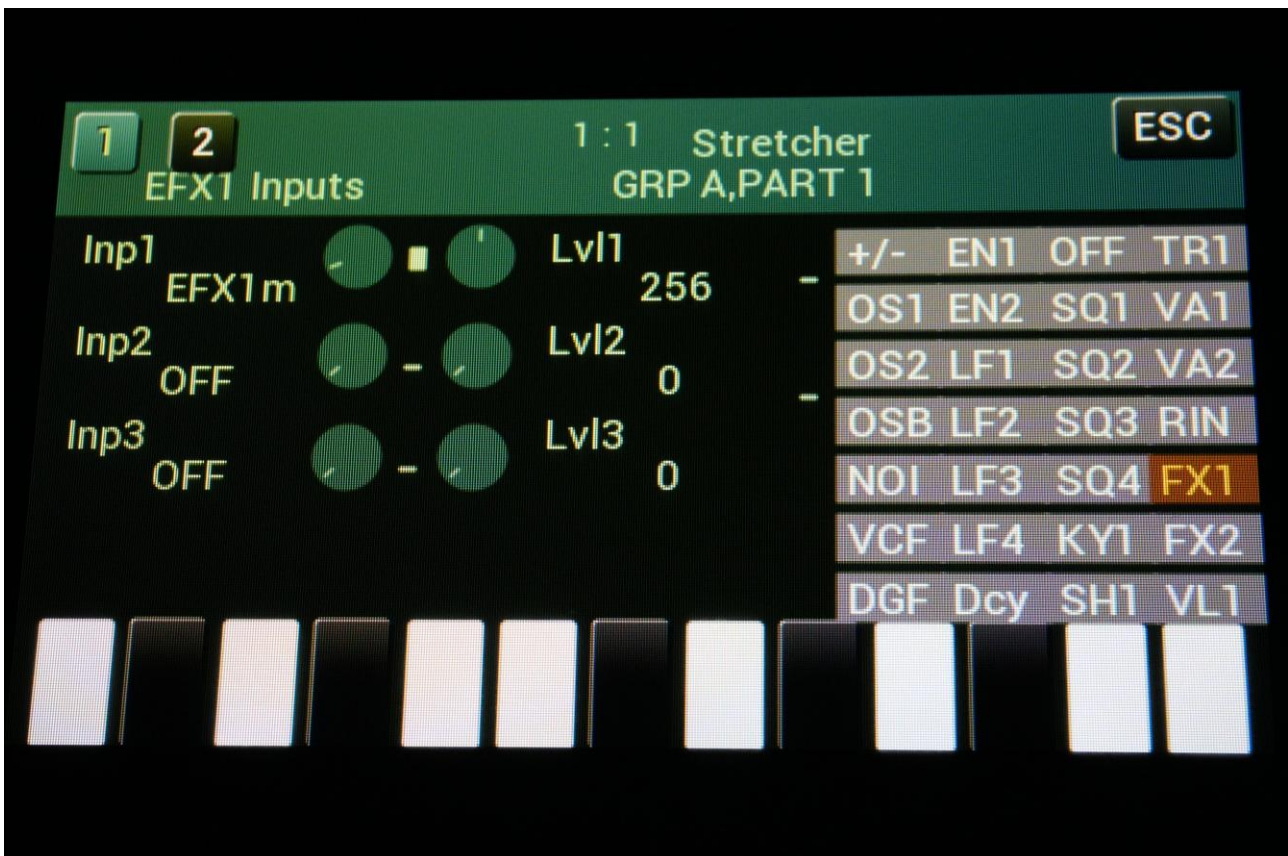
The **5:Curve** parameter will set the curve between the start and end points. The curve goes from Logarithmic s-shape to logarithmic to linear to exponential to exponential s-shape.

The **6:RipIs** parameter will multiply the wave inside the step, and create “ripples”.

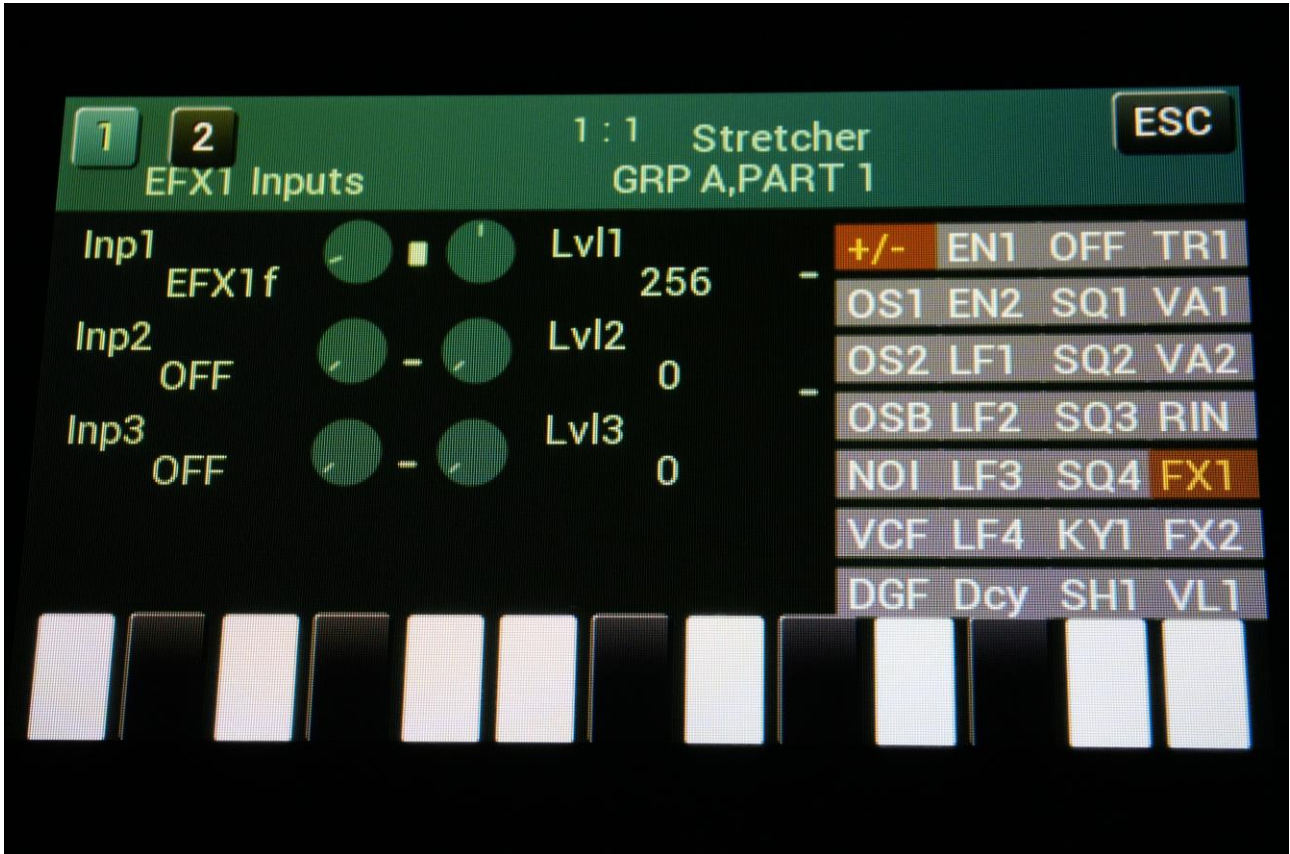
Because of the display focusing on updating the waveform, it can sometimes be hard to set a parameter on this page to a specific value. To set a parameter to a specific value, please use the “fine adjust” function (Push and hold the Kybd/Bar button, while adjusting the parameter).

## Effect Feedback Point

The effects are no longer outputting a normal and an inverted signal to the audio/modulation bus. Instead they are now outputting the effects main signal (the same as the “normal” signal) and the effect feedback point. This makes it possible to input, for instance, filters and other effects in the feedback loop of reverbs, delays and choruses. Simply select the feedback output as the input on the desired feedback filter/effect, and route the output of this to the input of the main effect. Some effects do not have a feedback point. These will just output the same signal on both outputs.



To select an effect feedback point output, first select the effect main output, indicated by an “m” as the last character.



Then touch the +/- button or use the fine adjust function, to select the effect feedback point output, indicated by an "f" as the last character.

## Save Preset VCF Type

In earlier firmware versions, the VCF type, which the preset was stored with, was only shown when selecting a preset. Now this information is also shown, when saving a preset.



## Bug Fixes

- Since the last updates, samples would only pitch shift over one octave. This has now been fixed.
- Sequencer Note Tracks: If EOC was set up to modulate Position or Rota, Zaturm Zero would freeze. This has now been fixed.
- It was not able to import Urano sequences. Now it can.

Written by  
Flemming Christensen  
2026