Gotharman's Little deFormer 3

Granular WorkStation

Update Manual 14.90

Table of Contents

Bug Fixes

-In rare occasions a preset would cause a "HARDFAULT", mostly at start-up. This should now have been corrected.

-Edit Knob MIDI CC's output numbers were not correct, and the MIDI CC input numbers were not correct in the user manual. This has now been corrected.

-When editing chop points in graphical sample edit mode, it would draw a lot of "fake points". This has now been corrected.

New PolyTouch Model

Because of the current ongoing part shortage, I was unfortunately not able to produce any more LD3's. I therefore started to redesign it, using parts that should be available, at least for now.

The most noticeable change is probably the display. This is now 3.5" instead of 3.2", and supports multi touch. So it is now possible to play polyphonically on the display (up to 4 notes), and it is possible to alter touch functions on the display, while playing the touch screen keyboard.

More Filter Power

The new display requires less attention from the CPU, which means that a tiny bit of extra CPU power were set free.
I used this extra power to give the PolyTouch model more filter power.
So the PolyTouch model can have all the digital filter types, including the SVF's and the new dual filter types, running on both digital filter 1 and 2 on each voice.
This practically means that the new model can have 4 digital filters running per voice, instead of the maximum 3 on the previous model. This might not seem like a lot, but for a filter lover like me, it means a lot!

New Dual Filter Types

3 new dual filter types have been added to digital filter 1 on the non-PolyTouch LD3, and to digital filter 1 and 2 on the PolyTouch model.
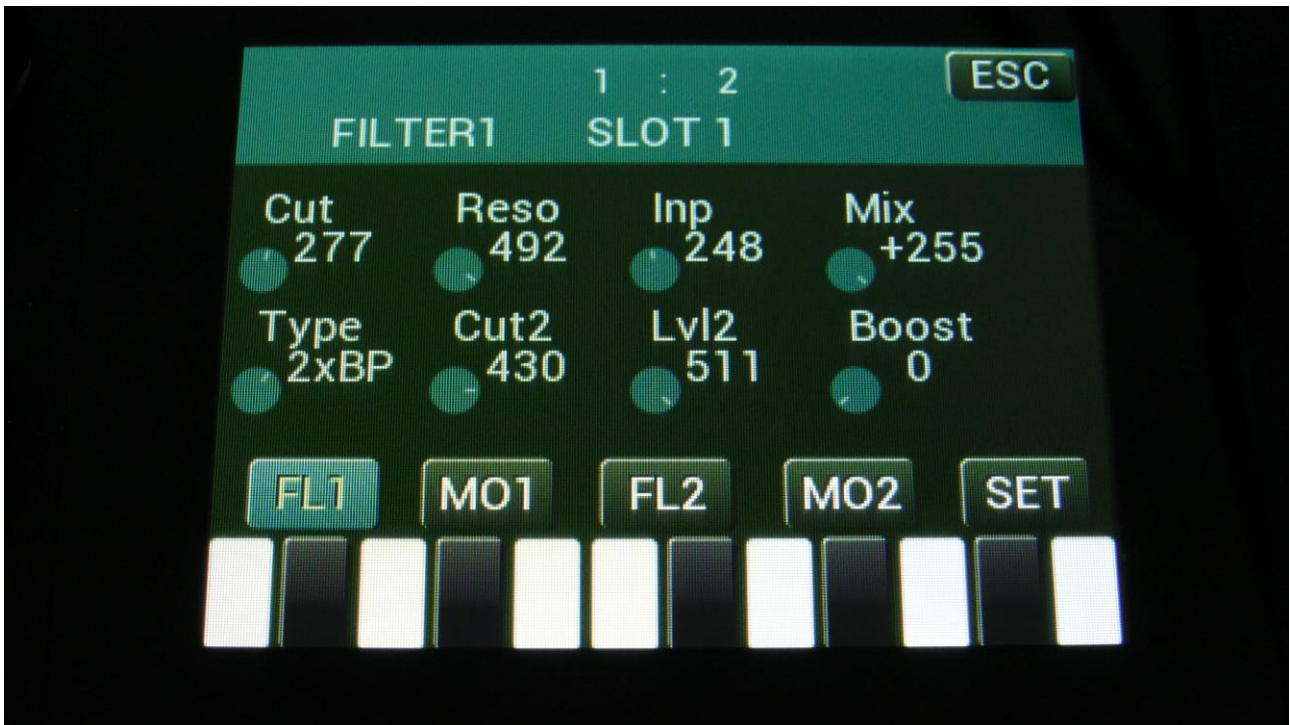
These filters are based on the smooth SVF filters, and the following configurations are available:

2xBP: Two 12db band pass filters in parallel. Cut off frequency and level is separately adjustable for the second band pass filter.

H/LP: A 12db high pass filters and a 12 db low pass filter in parallel. Cut off frequency and level is separately adjustable for the second high pass filter.

H>LP: A 12db high pass filters going into a a 12 db low pass filter. Cut off frequency and level is separately adjustable for the second high pass filter.

Written by
Flemming Christensen
2022

www.gotharman.dk