Gotharman's
Little deFormer

Update 3.05

New Functionality:

-2 new filtertypes added. LPF2 – A lowpass filter that are a bit smoother than LPF. Shp – A waveshaper. By adjusting 7 waveshaping points, you can shape the input signal into something different. ***See page 5 for details.***

-Modulation are now positive and negative. In earlier firmware versions, modulation was only added to the original parameter value. If you were adding modulation to a parameter that was in its maximum position, no modulation were heard. Now modulation is both added and subbed.
Your stored presets might sound a bit different after this update, so you might have to re-adjust parameters that are modulated, a little.

-CV1, CV2, CV3 and CV4 has been added as sources in the "MODULATION" section. These are for use with the analog expander CV in 1 to 4. If the analog expander is not connected to your Little deFormer, these 4 sources does nothing.

-Safeboot mode system added. If something should ever go wrong, when updating your Little deFormer, turn it off, push and hold down the **"Edit" button**, while turning it on again. Then it will immediately enter OS update mode, so you can send the update file again.

-Detects the Analog Expansion. If you connects the analog expansion box to your Little deFormer, and turn it on, it will automaticly detect it. An extra common edit group "ANALOG EXPANSION" will be added.

Update 357:

-FilterBank mode added
-AbstructO effect added
-**Vari and Octave**
-Samples can now play
-When sample QuickRec is stopped
-The Freeze LED
-Each audio BUS
-The trigger button number

Update 303:

-Quick re-sample record

-**Morph**, **FM** and **Octave** parameters added to **PitchShaper 1 and 2**.
-**Manual mode** added to **Double Gran**

-On the **sample assign** page, and on the **sample edit** pages, it is now possible to push the "**edit**" button, so it starts flashing, and a sampling can now be selected for editing, without triggering, by pushing it's step button.

-It is now possible to **stop sample playback**, by holding down the "**Exit**" button, and pushing the **sample step button**.

-**Fast scroll** mode can now be enabled, by pushing and holding the "**inc**" button, while at the same time pushing the "**dec**" button, and vice versa.

-When **auditioning** a sample, on the sample record pages, it is now auditioned on **BUS4**, instead of BUS1, to avoid double effecting, when resampling.

<u>Bug fixes:</u>

-Sample trigger system improved.

2 new filter types

2 new filter types has been added to both the common filter and the sample filters. These are:

LPF2: A smoother version of the other LPF.

Shp: WaveShaper. This isn't really a filter. By adjusting 7 values, that each re-shapes their part of the incoming audio signal, it is possible to shape the sound into something completely different. The output of this is rather complex and unpredictable, and it is easy to make it distort.
NOTE: Since this has 7 filter adjust parameters, and does not use Cut and Reso, the display readout will change, when you select it.
NOTE: This is not available when sample filters mode is set to FilterBank.

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