Synth Controller manual addendum for edition 'Bit'

Many thanks to Stephan Kümpel for his help developing this edition.

Tecnical requirements

This edition is designed to work with the Crumars Bit One, Bit 01 and Bit 99. For the synth to react to the parameter changes sent by the Controller it must be equiped with two firmware update EPROMS from tauntek.com. The original Crumars do not understand single parameter change commands. You can purchase the firmware update directly from tauntek.com / USA or from undergeek.de in europe:

https://www.undergeek.de/crumar-bit01-bit99-firmware

Description

The edition is identical for all 3 Crumar models.

Layer 1: modulation target switches and parameters for LFO1 and DCO1 Layer 2: corresponding for LFO2 and DCO2 Layer 3: VCF and VCA parameters and envelopes

Some parameters are printed in a rectangle with a solid triangle. These are parameters emphasized by velocity – similar to the printon of the Crumar itself.

Most parameter changes will not be noticable unless the next key is pressed. Exceptions: DCO 1 Waveform, DCO2 Waveform, Noise, Detune, Wheel Amt, alle LFO Destination Switches, VCF Reso, VCF Env Invert.

Shift Parameter

In Layer 3 there are two SHIFT parameter - dynamic attack for both envelopes individually. Normally these knobs change the Attack rate. As long as you keep button 3 pressed ("shift") these knobs change the "Dynamic Attack Rate".

LFO modulation target switches and LFO Waveform OFF

Some specialty abou the LFO routings in the first knob row of layer 1 and 2: switching the LFO waveform to OFF also seths the LFO targets to OFF. After selecting one of the LFO waveform, you need to <u>activate</u> the desired routings again.

Differences Bit 01/99 and Bit ONE

The knob in the lower right corner alters different parameters on the Bit 01/99 and the ONE as these synths differ slightly in their architecture:

Bit 01/99: in Layer 1 you change NOISE LEVEL, in Layer 2 it's DETUNE of DCO2

Bit ONE: the knob sets the DCO frequency mpodulation through the ADSR envelope. In Layer 1 you set the amount for DCO1, in Layer 2 for DCO2.

The parameters PRG VOL as well as WHEEL AMT work for the Bit 01/99 only. On the Bit ONE these knobs do not have any impact.