

## ***Synth Controller manual addendum for editions 'Puls' for Waldorf Pulse***

This edition is intended to work together with the Waldorf Pulse 1, which already uses Midi-CCs for parameterchanges. This edition therefore does not have the CC-SysEx-translator. The faceplate does not show CC-numbers, please consult the synth's manual for getting the CC-number/parameter relation.

The parameter 'Volume' on the Synth Controller is NOT the same als the Pulse's Volume-pot, it sets the midi-volume (Midi-CC number 7).

Many parameters (e.g. keytrack, VCA/VCF Velocity, modulations...) are - like on the Microwave - bipolar, they can go positive or negative. Middle position of the pot means 'no modulation'.

The oscillator mixer section of the Pulse has much more influence on the overall sound than on most other synthesizers. Especially when working with cross- or sync-sounds you can drastically alter the timbre of the sound with just the 3 level pots.

The parameters 'Arpeggiator Tempo' and 'Oscillator Shape' should be 'fetched' after a patchchange because they send multiple commands to the Pulse in some positions. Example: to activate the arpeggiator turn the knob into Off-position first. Then drag it to set the tempo. When the knob is turned from it's Off-position clockwise it sends the command 'Arpeggiator On' to the Pulse. Otherwise you would just set the tempo but the Arpeggiator keeps off. Of course you can manually activate it on the Pulse itself :-)

If you wonder why the waveforms of the LFO appear twice: remember, syncing LFO to Midiclock is enabled by LFO waveform. the faceplate shows a 'C' for the midiclock-synced waveforms.