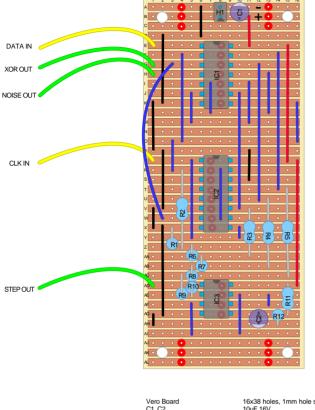
Macumbista Belgian Tripel Workshop Synth

BT-2: NONLINEAR SEQUENCER w/ STEPPED + XOR + NOISE OUTPUTS



 Vero Board
 16x38 holes, 1mm hole size

 C1, C2
 10uF 16V

 Eyelet
 3mm mouting hole in each comer

 IC1
 4070 XOR

 IC2
 4015 Shift Register

 IC3
 LM358 Dual Op Amp

 R1, R2, R3, R4, R5, R11, R12
 100K

 R6, R7, R8, R9, R10
 47K

This sequncer, based on a linear feedback shift register, requires a square wave at the DATA input and a square wave at the CLK input XOR output is an eXclusive-OR operations on incoming data bit with last bit of shift register. "Ring mod" like square wave output. NOISE output is the combination of eXclusive-OR operations on last four bits of shift register. Pseudo-random square wave output. STEPPED output is a 4-bit Analog-to-Digital conversion of last four bits of shift register. Can be used as control voltage or "lo-fi" audio signal.

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