Block Diagram Threshold ~1V - ~11V Schmitt Edge Detect Flip Flop Counter D2A Comparator Trigger Doubler Issues with rev1 needs frontend filter to remove freqs > ~4kHz
(or: the frequency doubler needs tweaking to support higher freqs) 2. output vol seems v low 3. need to add CV override to Threshold input 4. phase of output is unpredictable – freq doubler can see a -ve change before a +ve one 5. bonkersness when Threshold set very close to an exact level coming from D2A maybe need some hysteresis? 6. might be nice to add a second counter to allow for more subharms or perhaps use a CD4060 or such instead of CD4516 — we're not using the preset 7. output square wave has a significant spike on the leading edge Schematic File: subharmolizer-rev1-schem.kicad\_sch molen, inc. Sheet: / File: subharmolizer-rev1.kicad\_sch Title: Subharmolizer Overview Size: A4 Date: 2025-09-20 Rev: 1 KiCad E.D.A. 9.0.4 ld: 1/2

