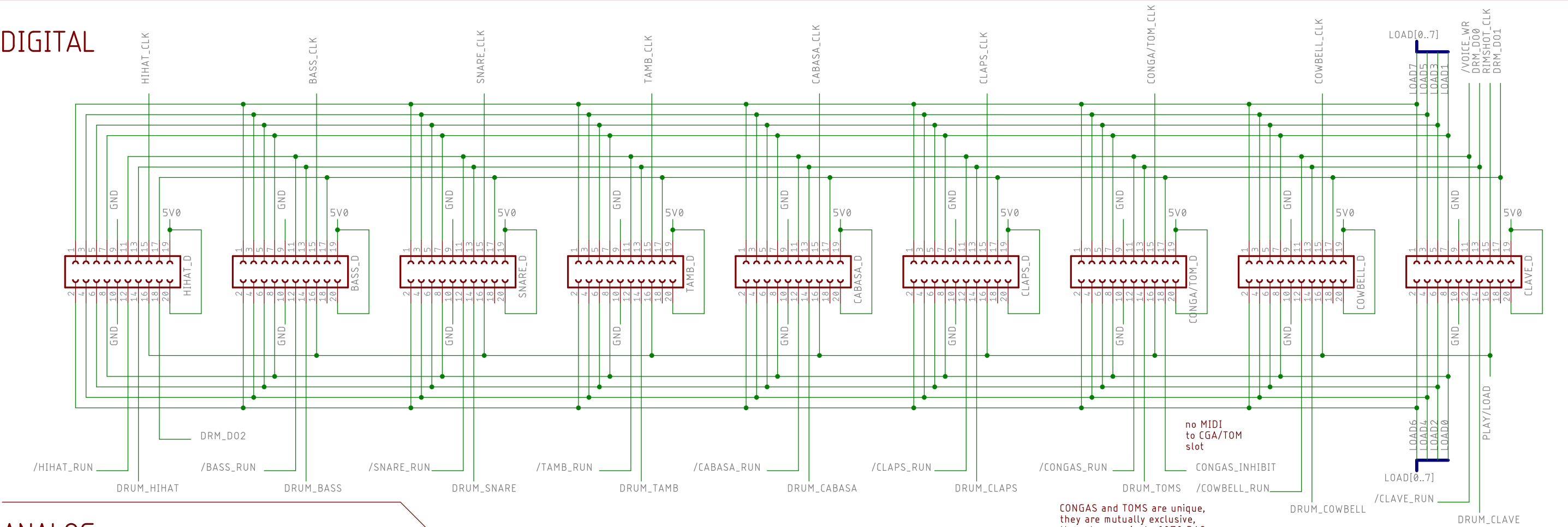


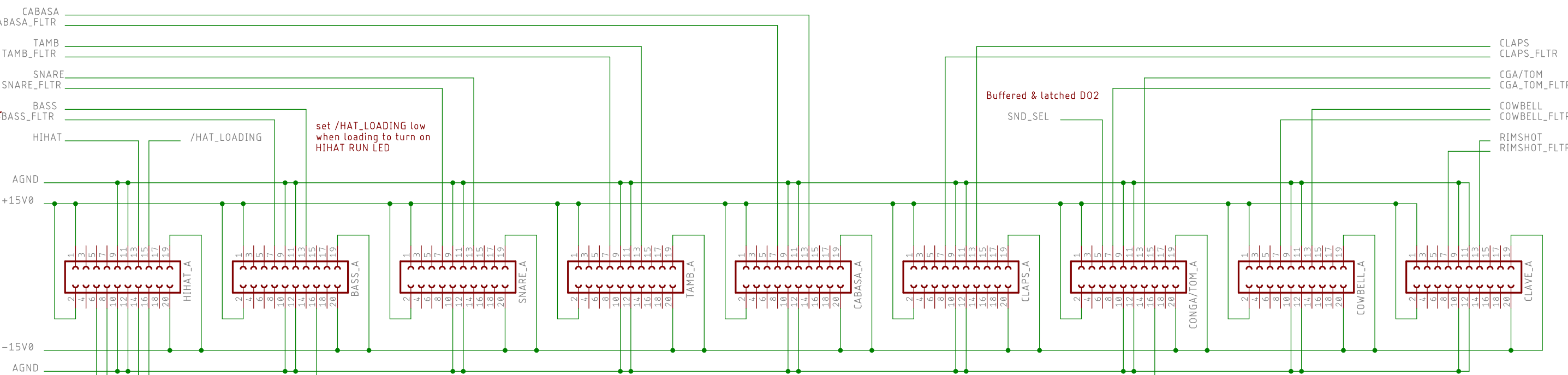
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Connectors / Conga/Tom Demux		
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DIGITAL



ANALOG



HIHAT has a special control signal from 1/2 of a 556 which drives the E/D input of the 6070 DAC, gives shimmer

BASS has a special control signal from 1/2 of a 556 which drives the FREQ CTRL input of the CEM3320

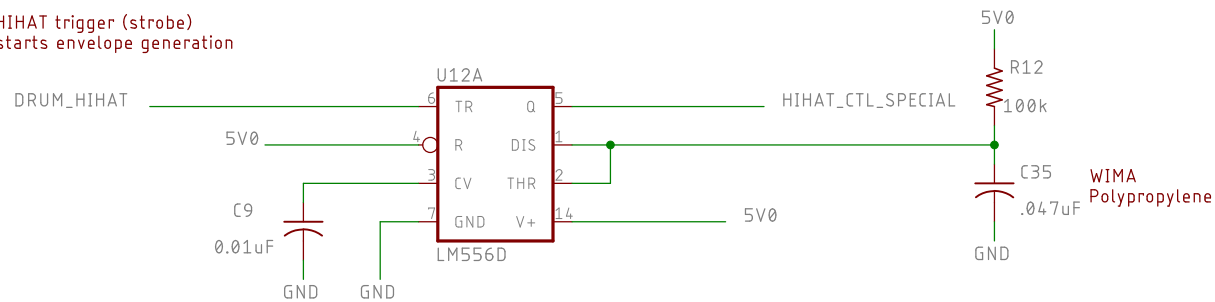
When RST_HIHAT = 1, the address counters are reset. Used for loading.

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CONGA/TOM has a special control signal from 1/2 of a 556 which drives the FREQ CTRL input of the CEM3320

Drum Generator Bus		
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HIHAT trigger (strobe)
starts envelope generation



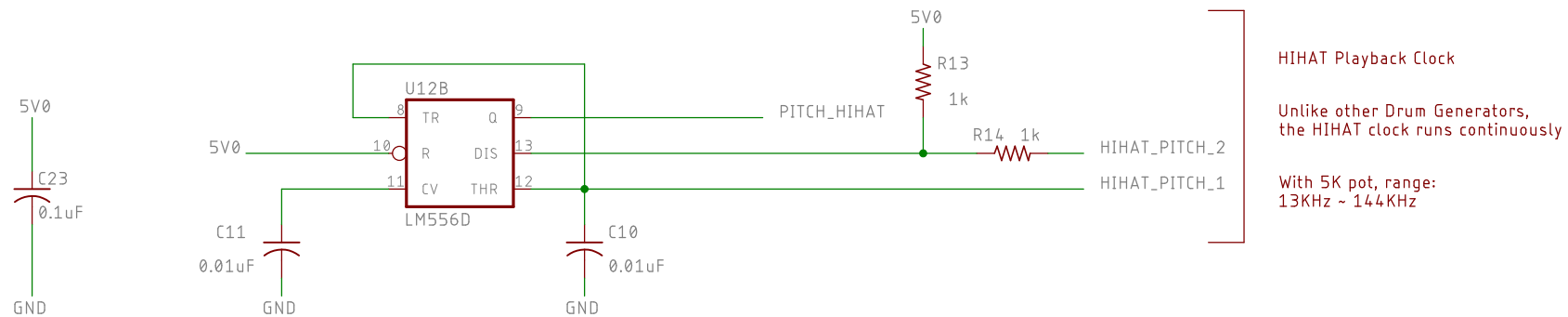
HIHAT Envelope Generator

HH_ENV = pulse with width

$$1.1RC = 1.1(100000)(0.000000047) = 0.0517 \text{ s}$$

~52 ms

HIHAT

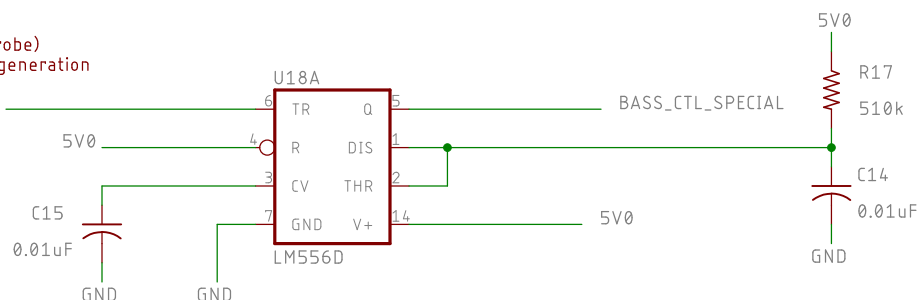


HIHAT Playback Clock

Unlike other Drum Generators,
the HIHAT clock runs continuously

With 5K pot, range:
13KHz ~ 144KHz

BASS trigger (strobe)
starts envelope generation



U7: Cabasa only (8)

U10: Claps only (2) } combine

U12: HiHat, env & clock (1)

U14: Tamb only (7)

U16: Snare only (6) } combine

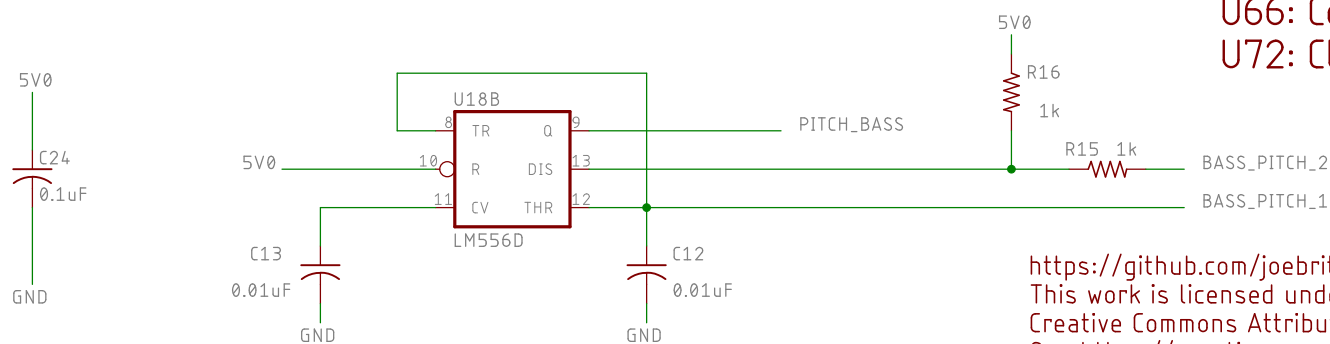
U18: Bass, filter & clk (5)

U23: Clave & Cowbell (4)

U66: Conga/Tom, filter & clk (3)

U72: Click

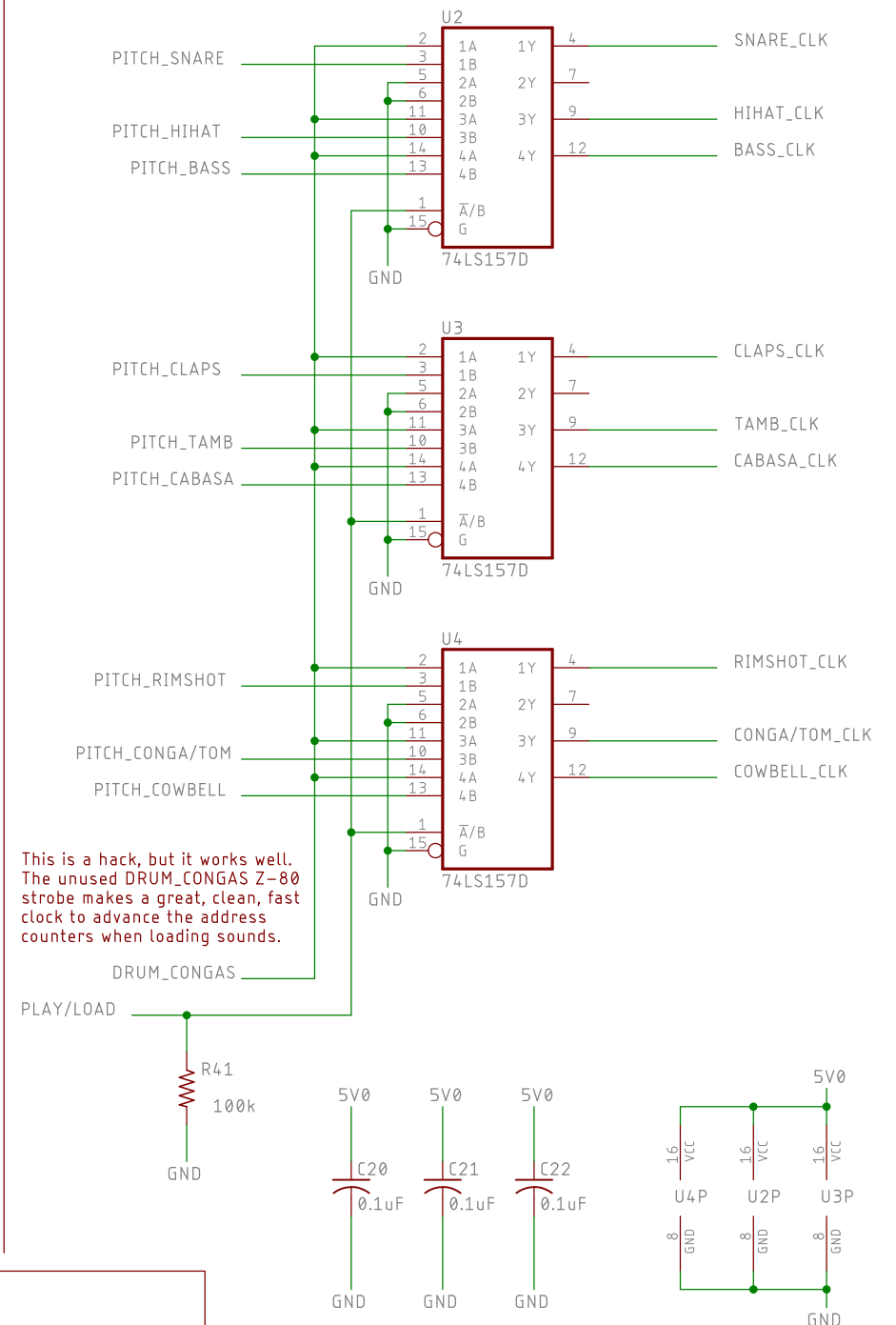
BASS



<https://github.com/joebritt/luma1>

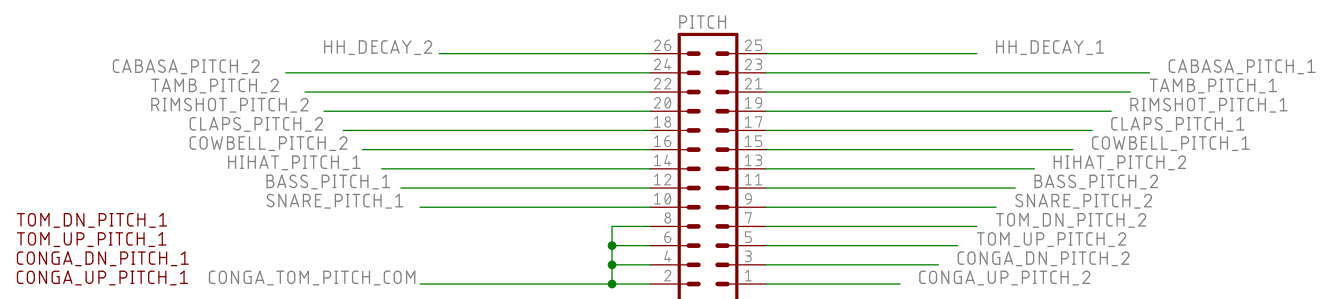
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PLAY / LOAD CLOCK
MUXES



This is a hack, but it works well.
The unused DRUM_CONGAS Z-80
strobe makes a great, clean, fast
clock to advance the address
counters when loading sounds.

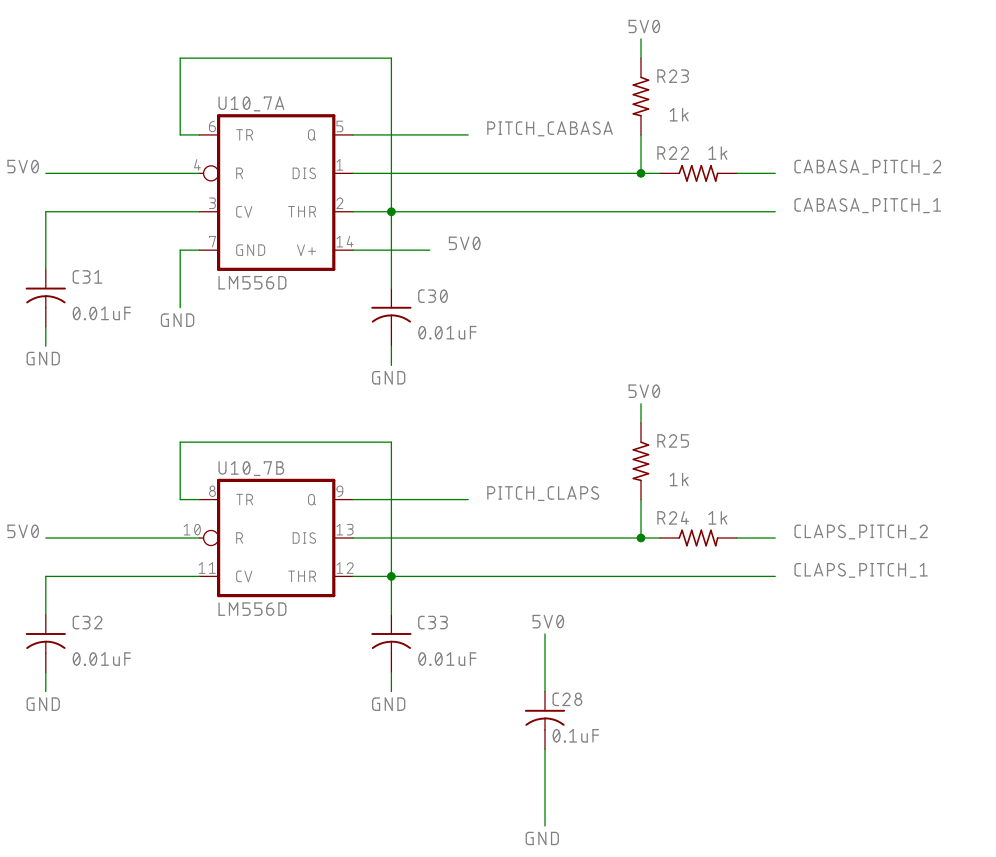
REMOTE PITCH



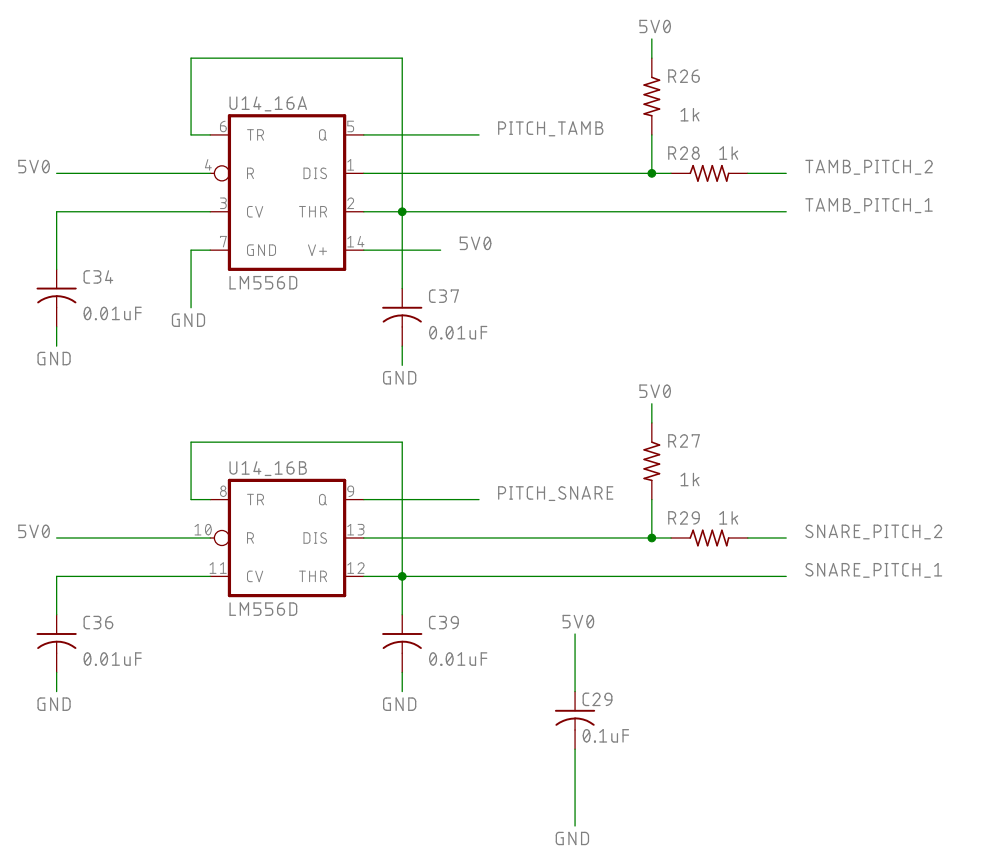
PITCH/LOAD CLOCKS and MUXES

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CABASA / CLAPS

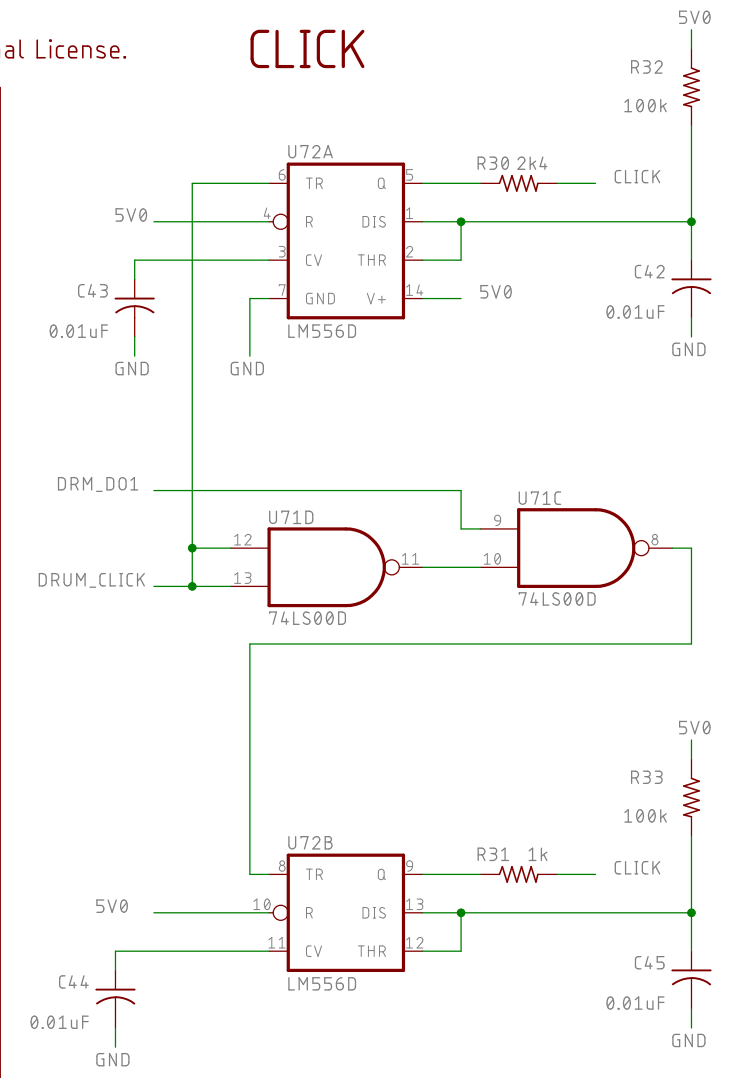


TAMB / SNARE

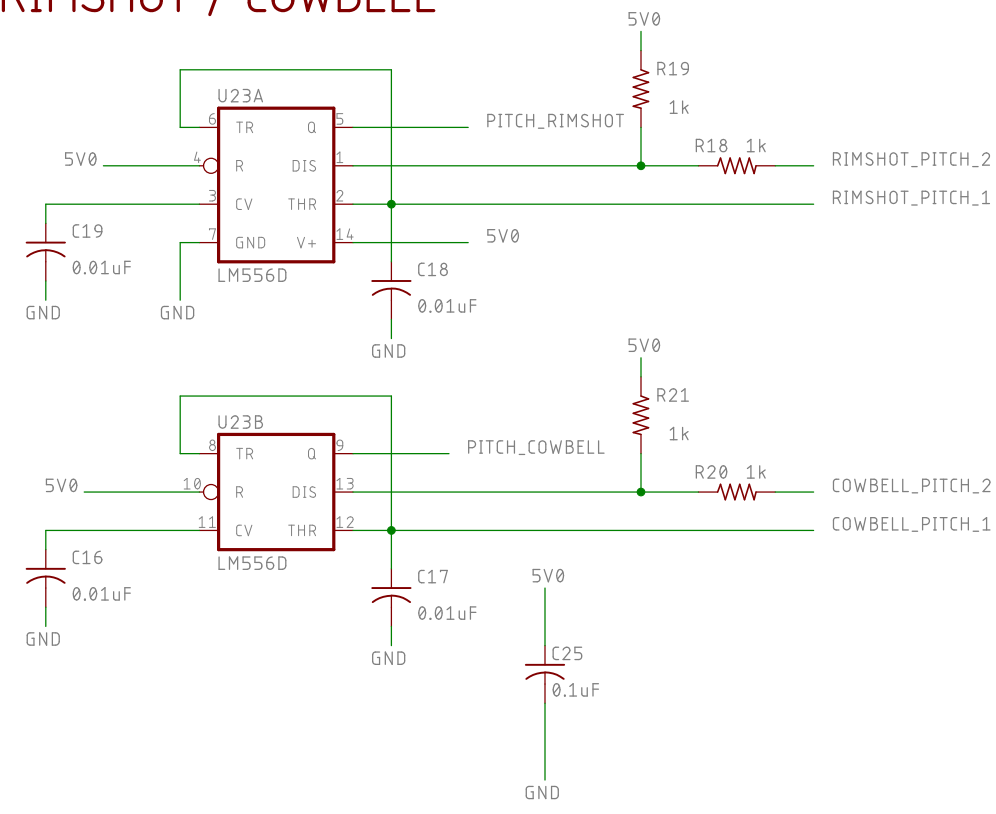


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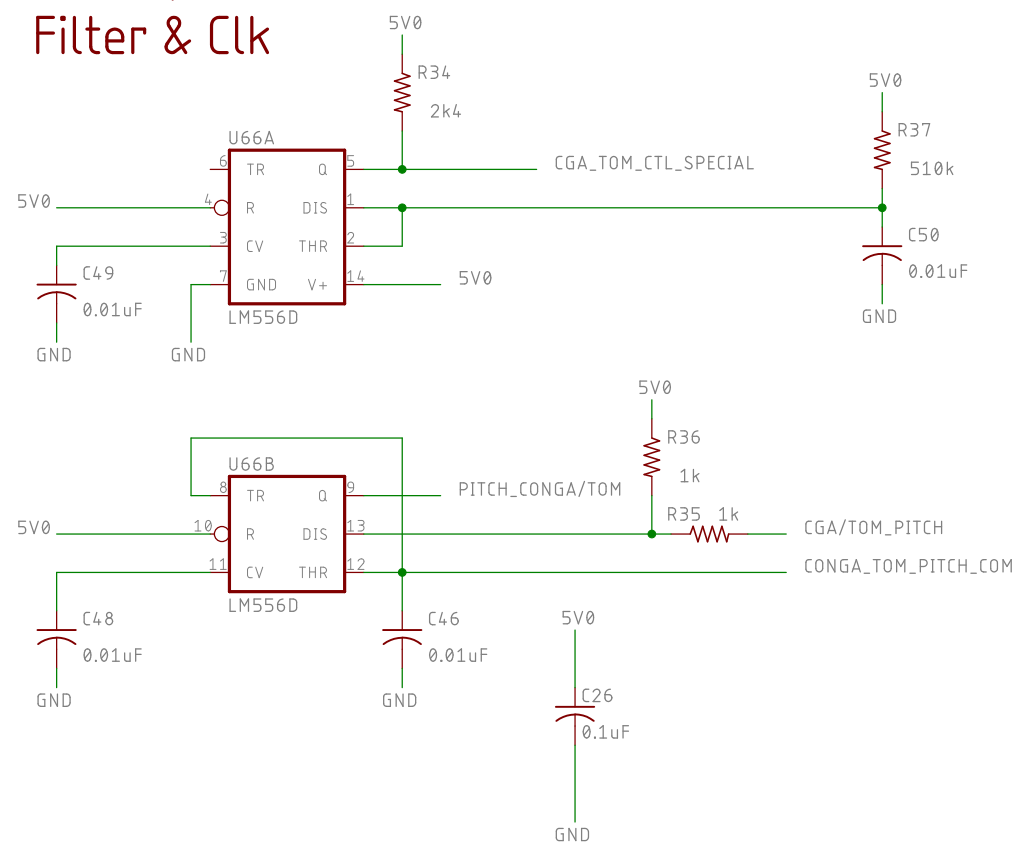
CLICK



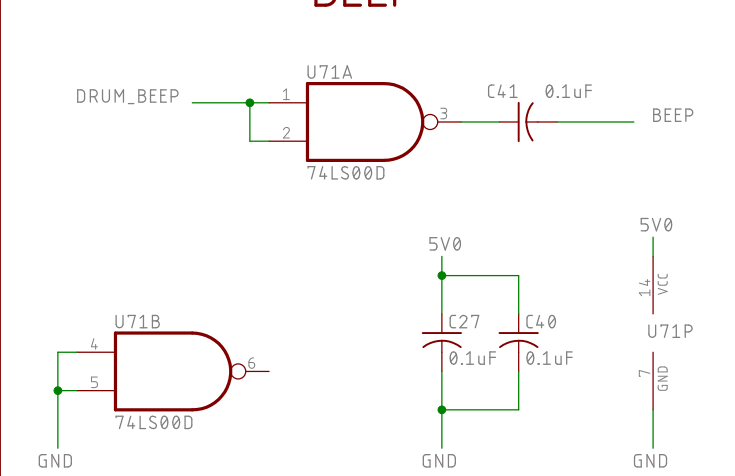
(CLAVE)
RIMSHOT / COWBELL



CONGA / TOM
Filter & Clk

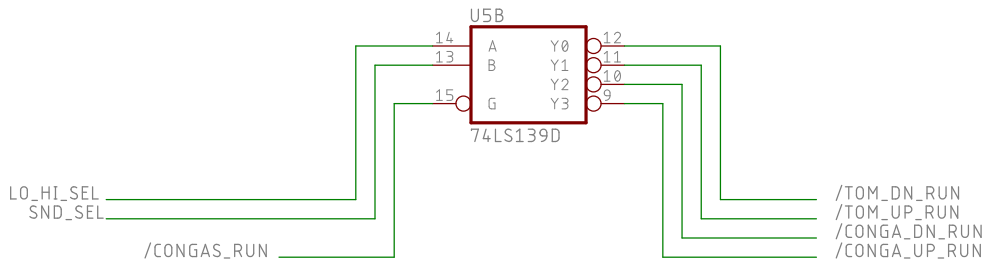
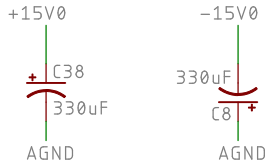
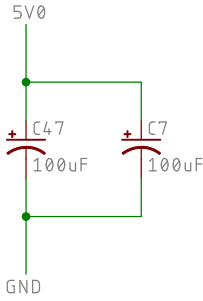
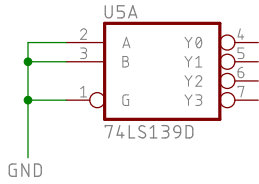
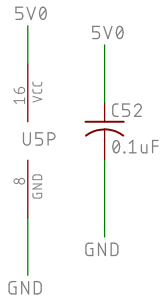


BEEP

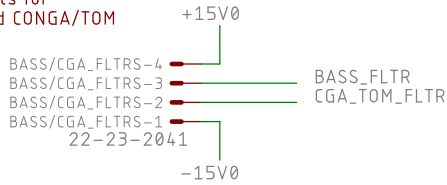


PITCH CLOCKS

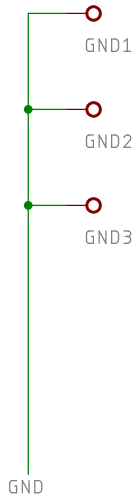
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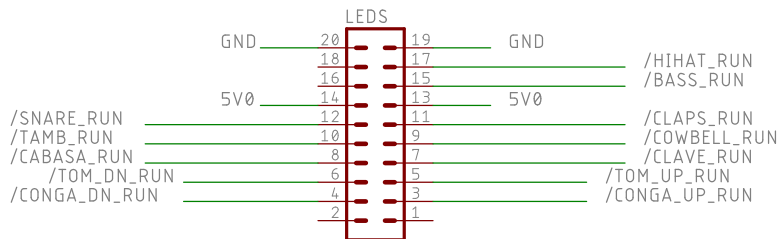
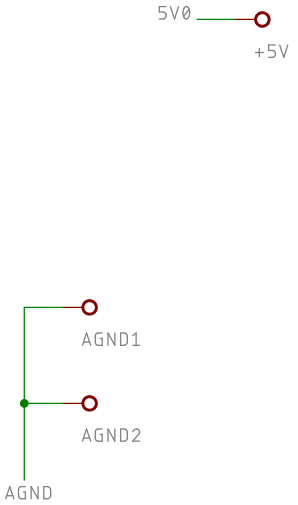
To board with 2 pots for
adjusting BASS and CONGA/TOM
Filter cutoffs



Keystone 5006 (BLACK)
Loop Test Points



Keystone 5005 (RED)
Loop Test Point



LED outs, Filter control inputs

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