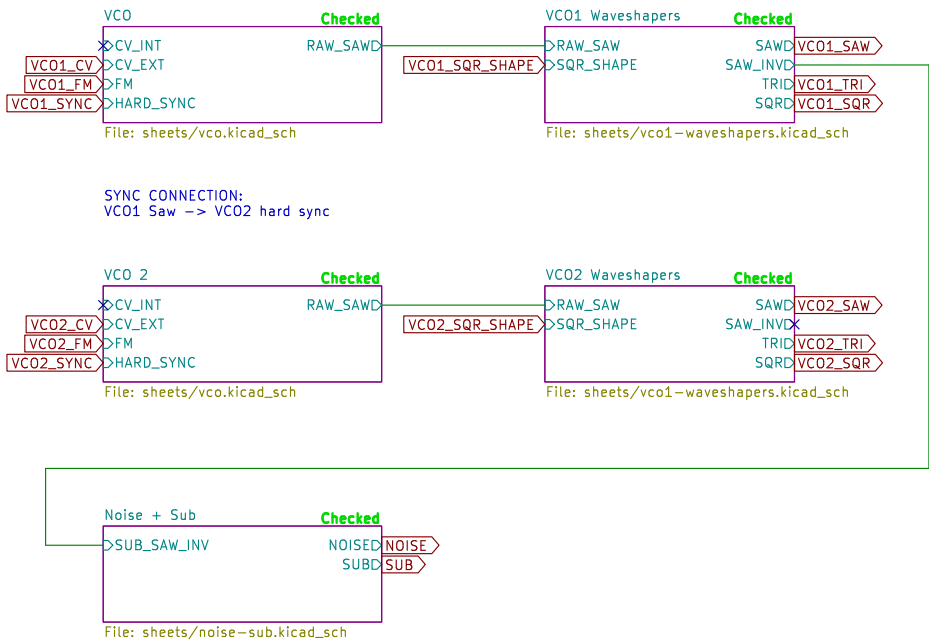


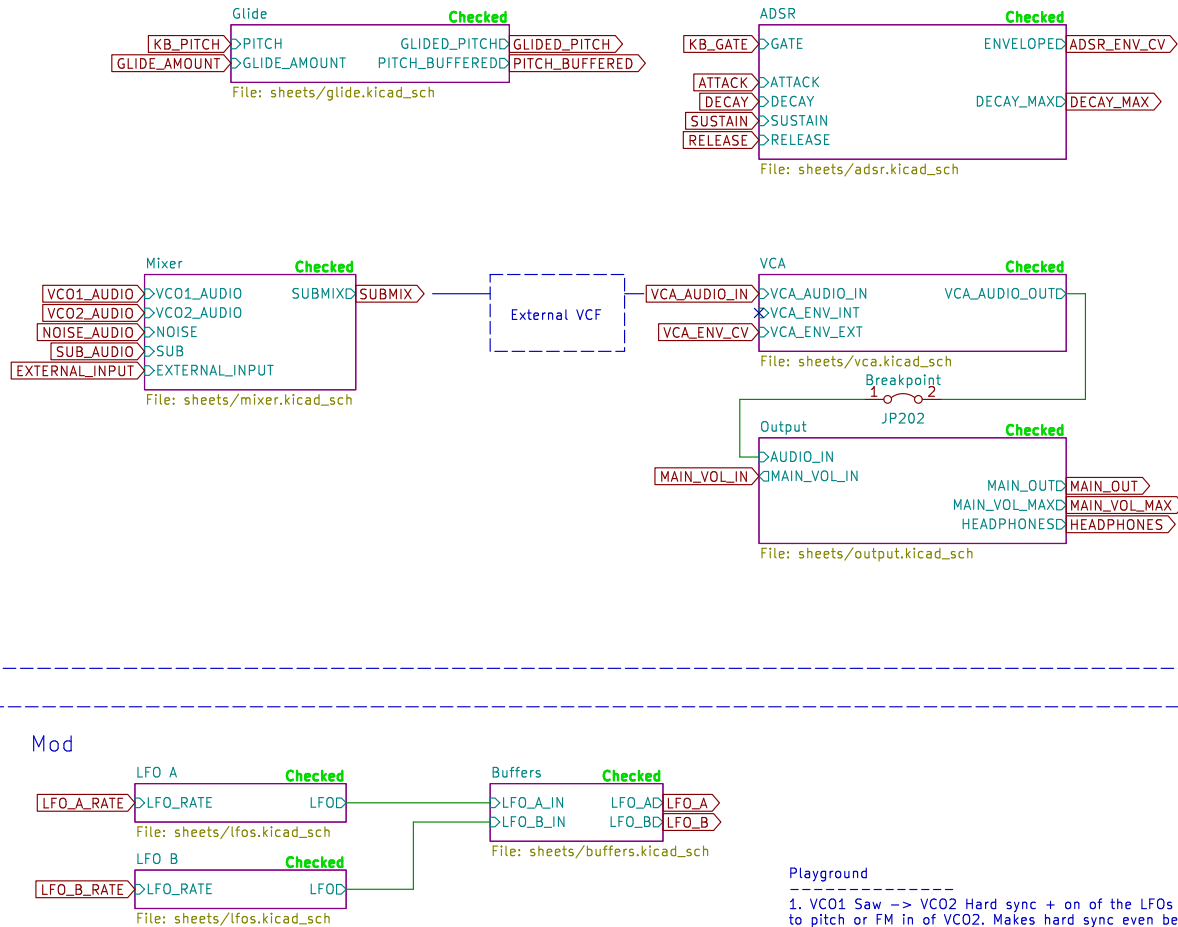
Power



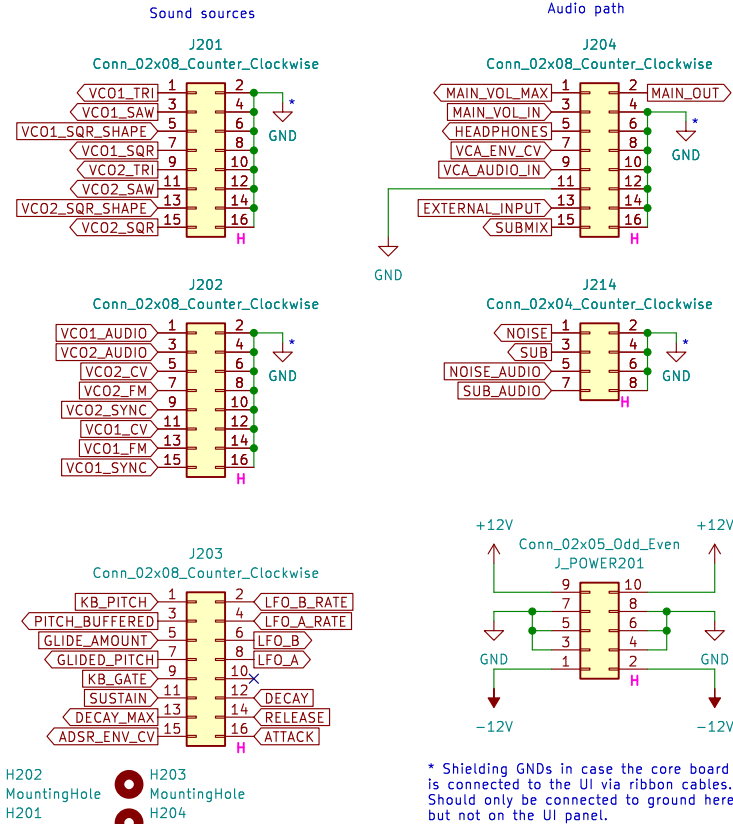
Sound sources



Control



Interface



Inputs and outputs are from the perspective of this circuit.

H: hand soldered

Shmørgerh

Sheet: /
File: core.kicad_sch

Title: Hog Analog Synth – Core

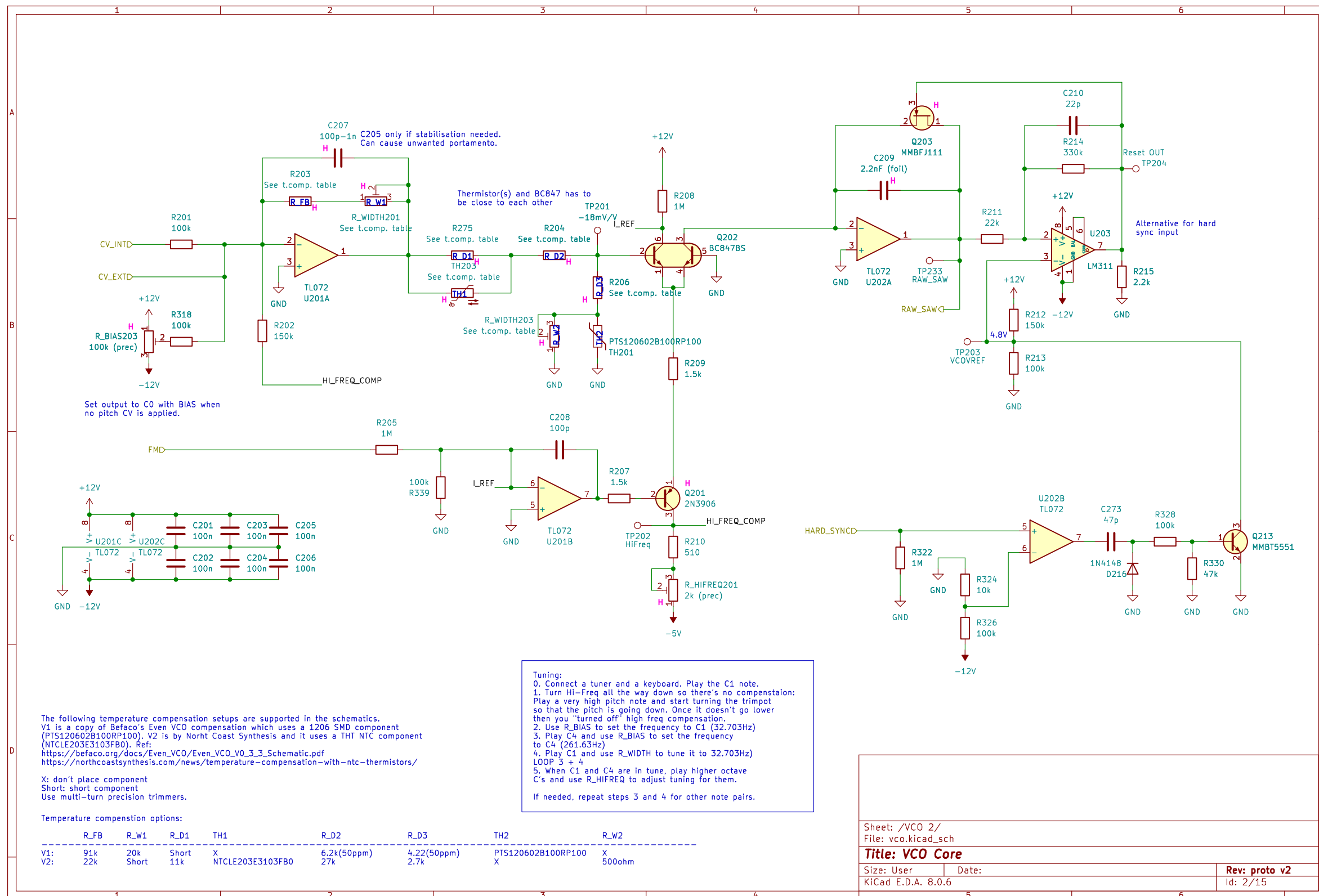
Size: User Date: 2023-10-28
KiCad E.D.A. 8.0.6

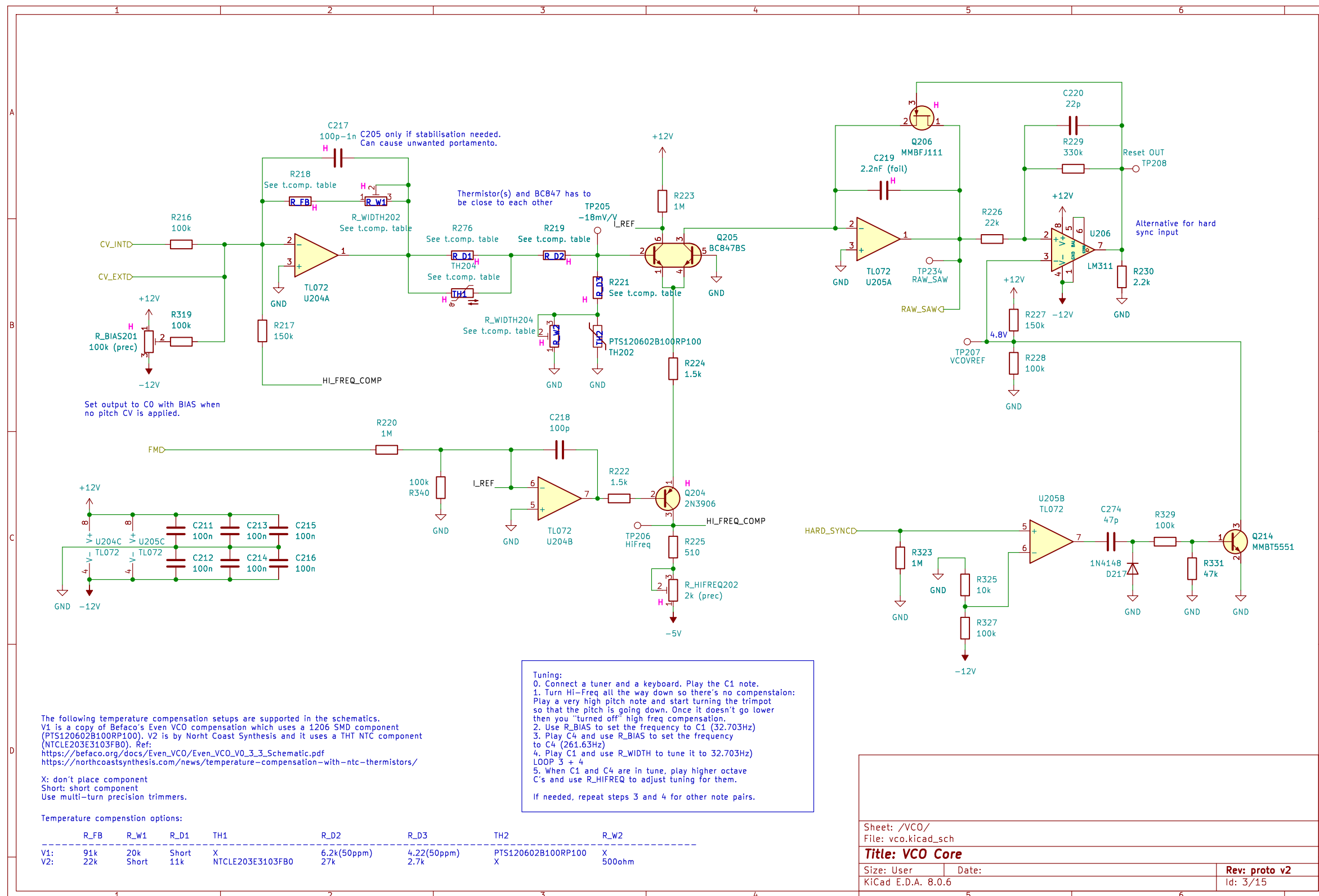
Rev: 1.0
Id: 1/15

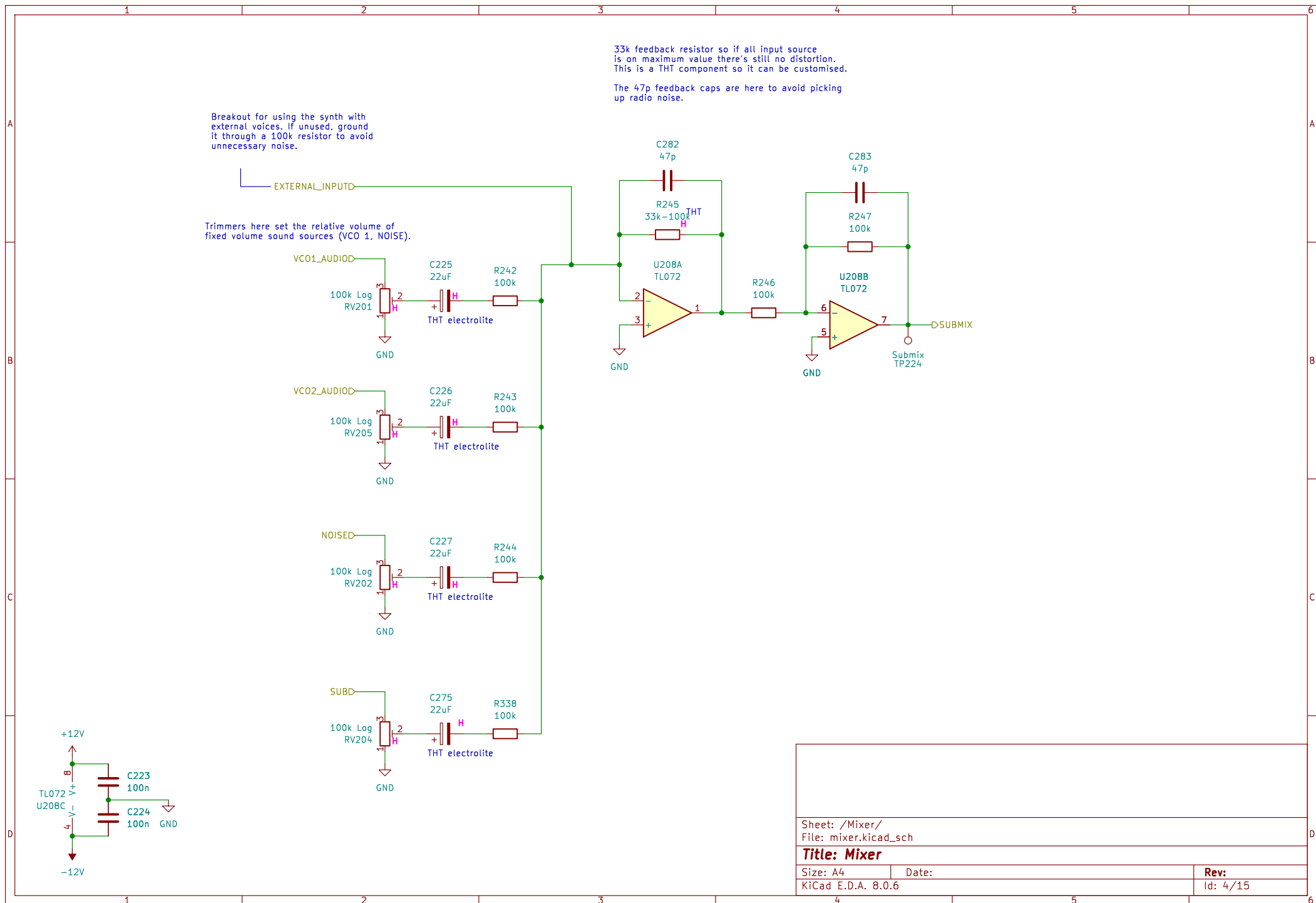
Playground

- VC01 Saw -> VC02 Hard sync + on of the LFOs to pitch or FM in of VC02. Makes hard sync even better.
- VC02 Audio -> VC01 FM
- VC02 Audio -> Filter cutoff

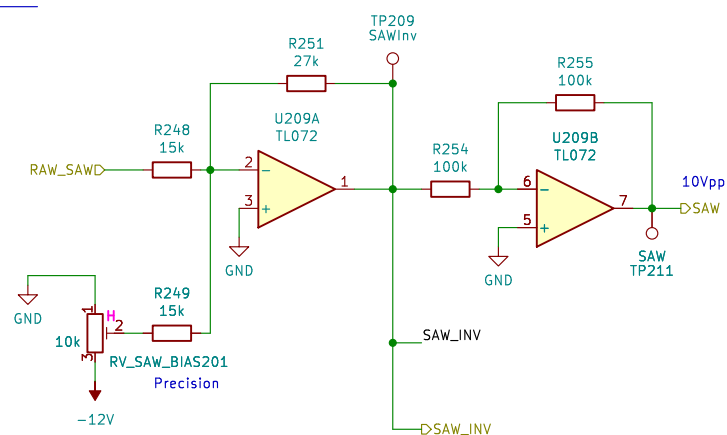
All done by connections on the UI board.





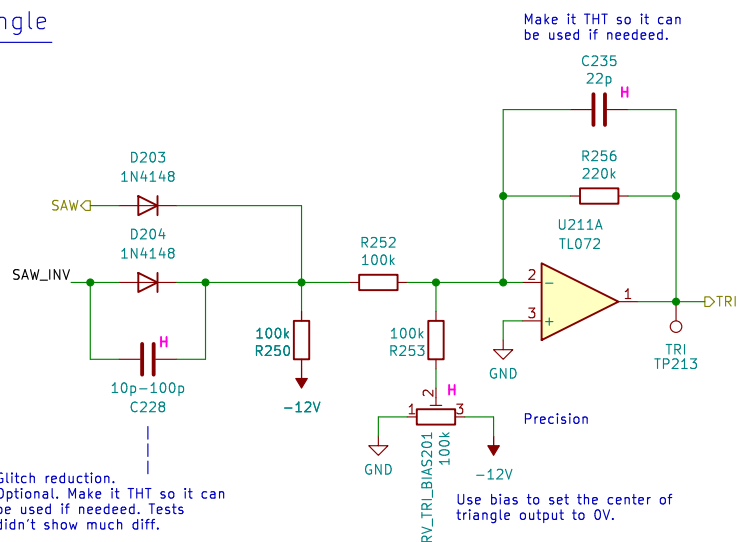


Sawtooth



Use BIAS to set the sawtooth output exactly to oscillate around 0V. This is critical for a nice triangle wave.

Triangle

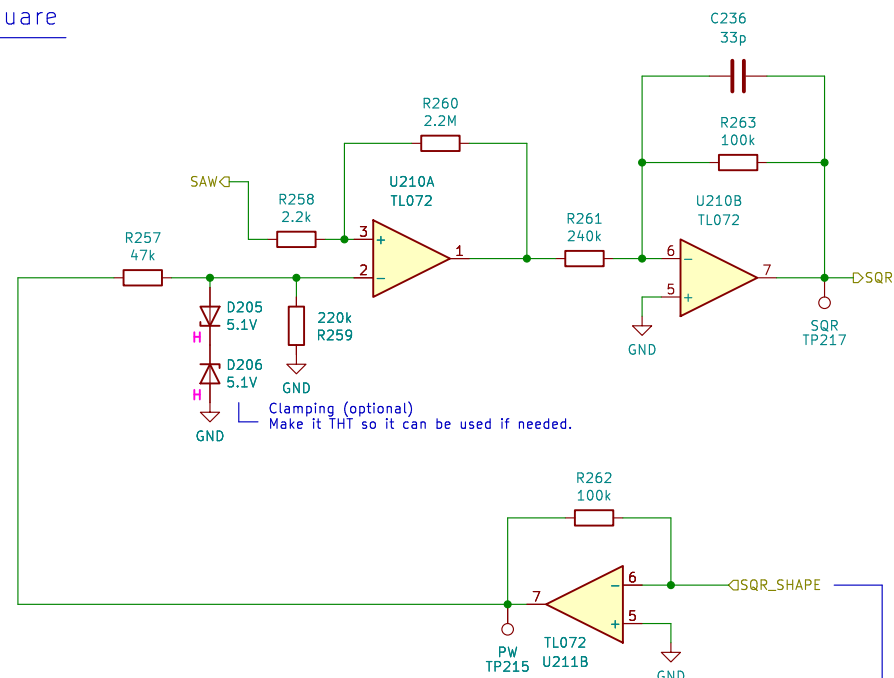


Glitch reduction.
Optional. Make it THT so it can
be used if needed. Tests
didn't show much diff.

Make it THT so it can be used if needed.

Use bias to set the center of triangle output to 0V.

Square



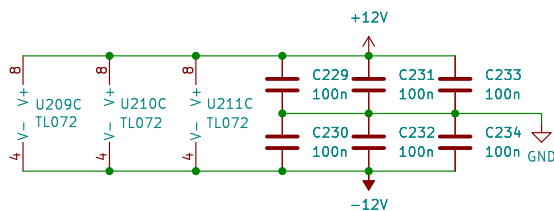
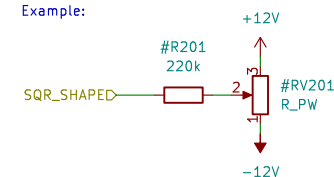
Square pulse width

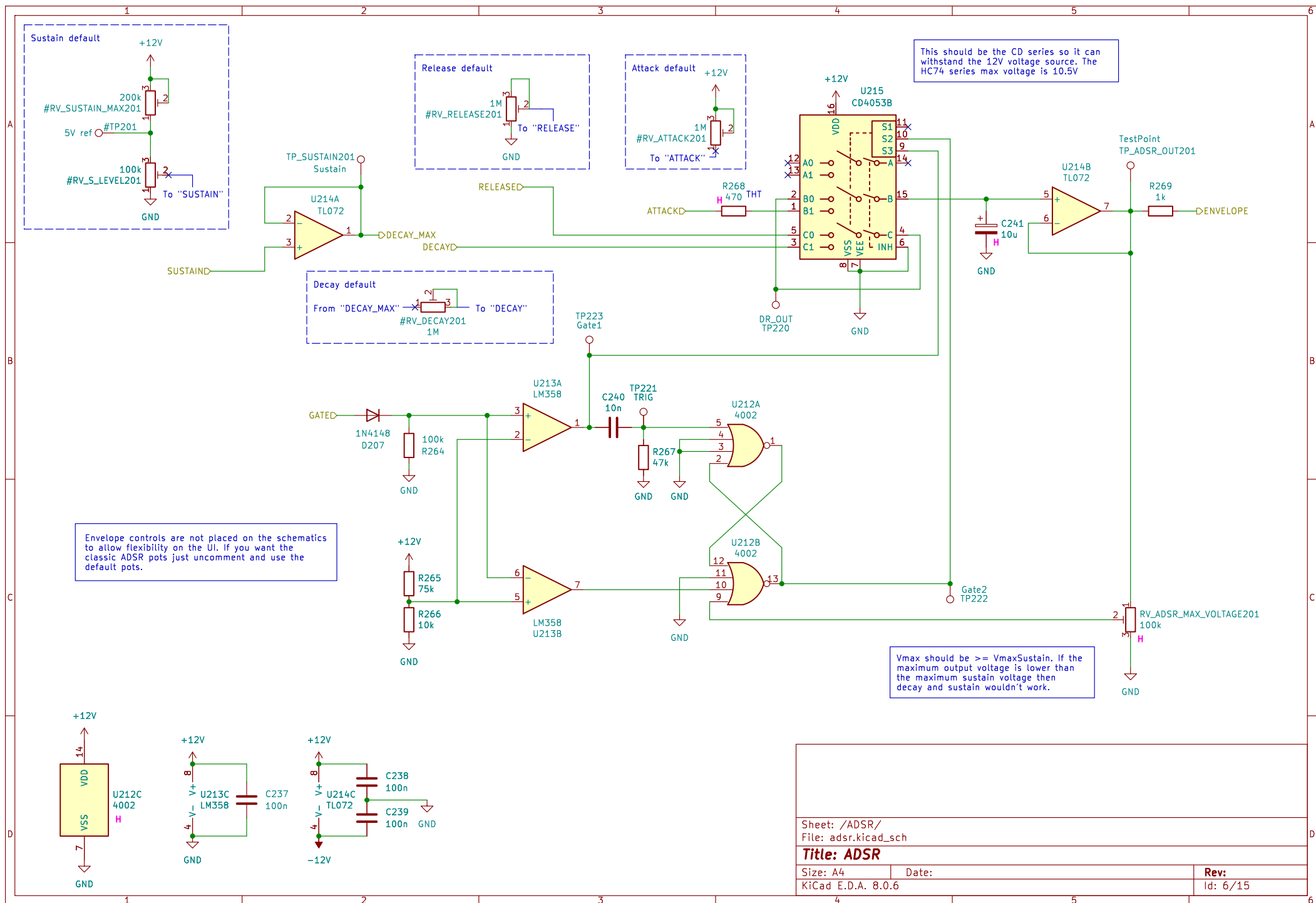
Connect any number of CV inputs through input resistors to set the pulse width with a CV on SQR_SHAPE. Use the following CV values:

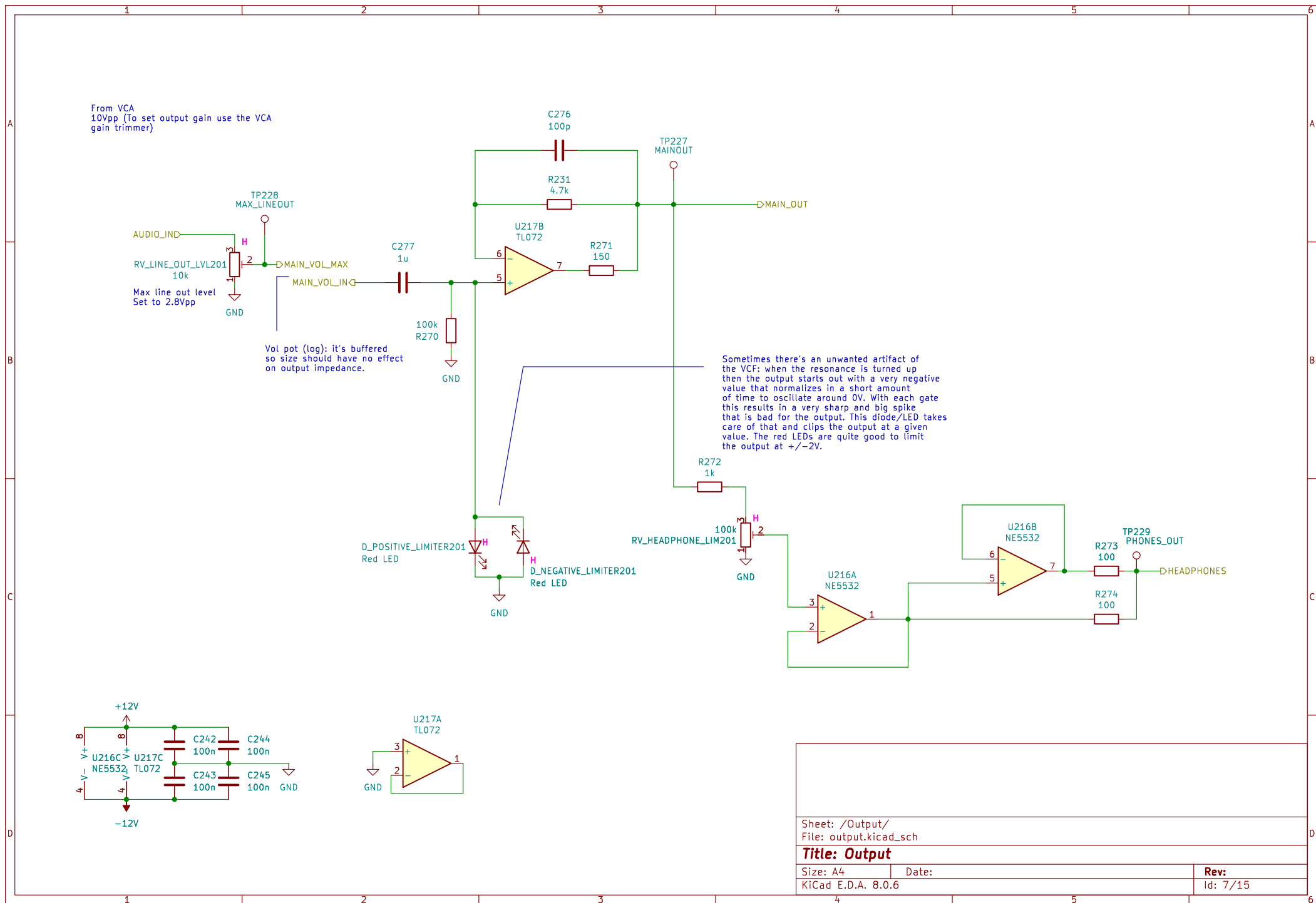
0V/GND: 50%
-5.5V: 5%
+5.5V: 95%

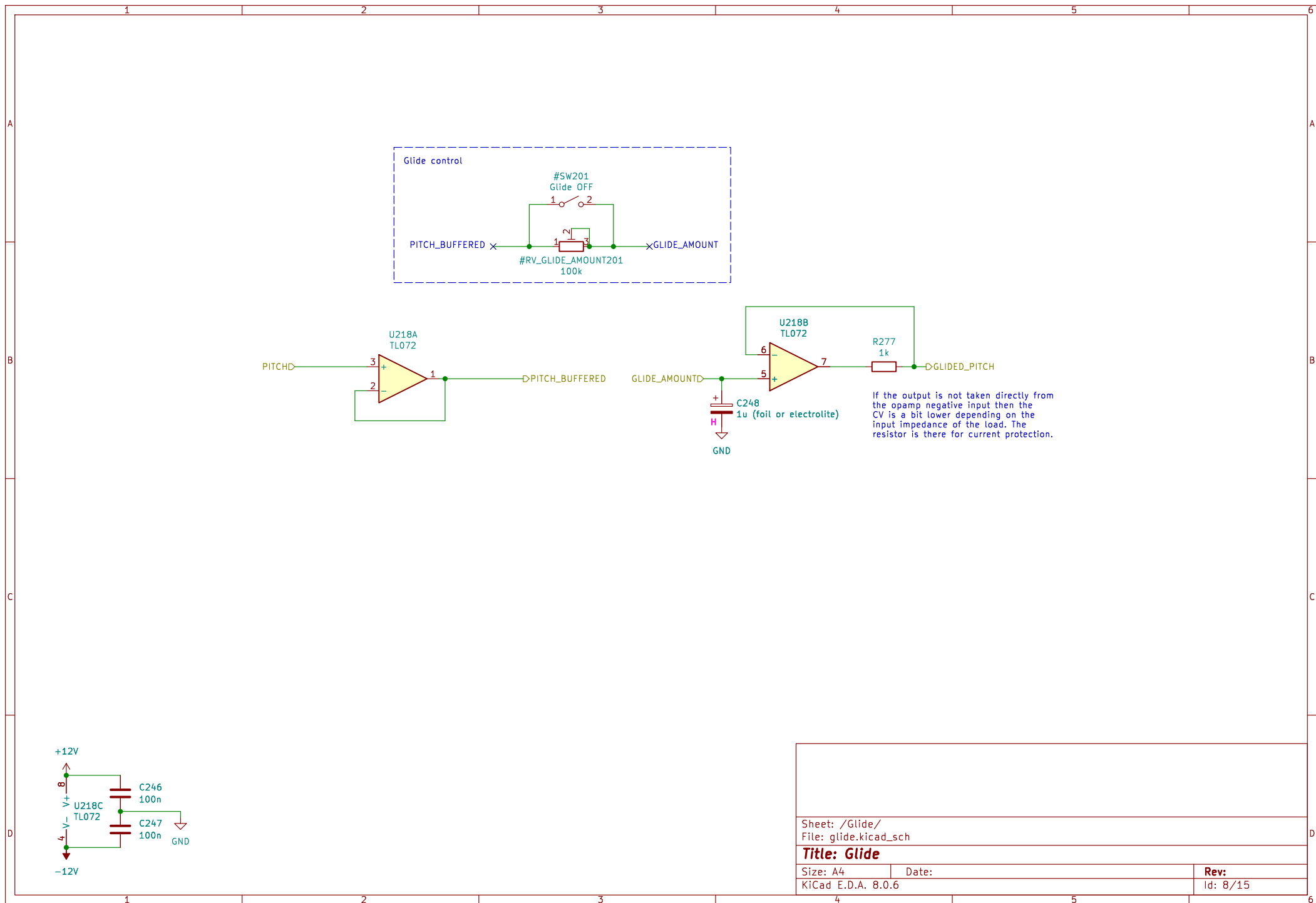
Set the input resistors so that the CV mixer's output value is between $-/+5.5$.

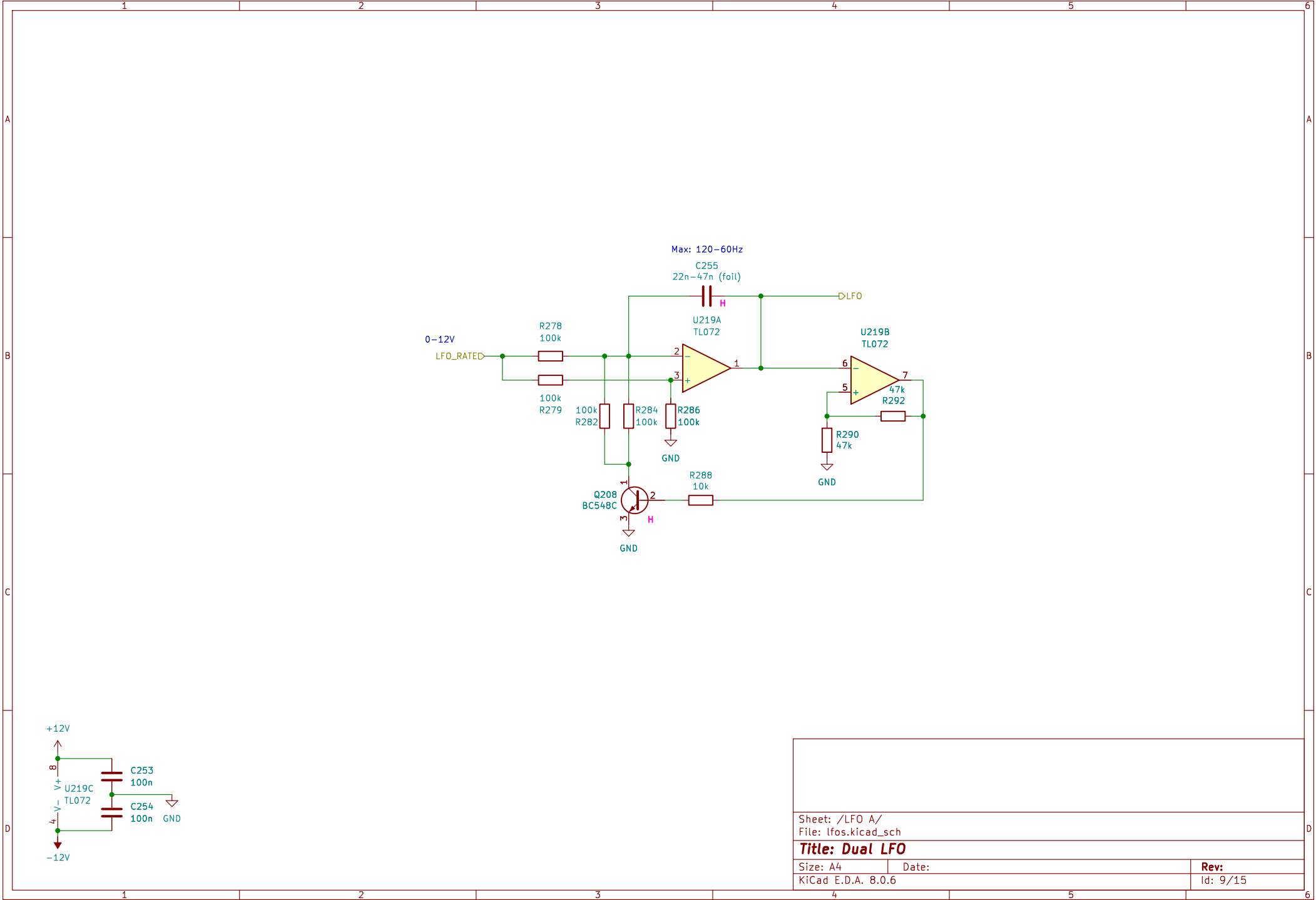
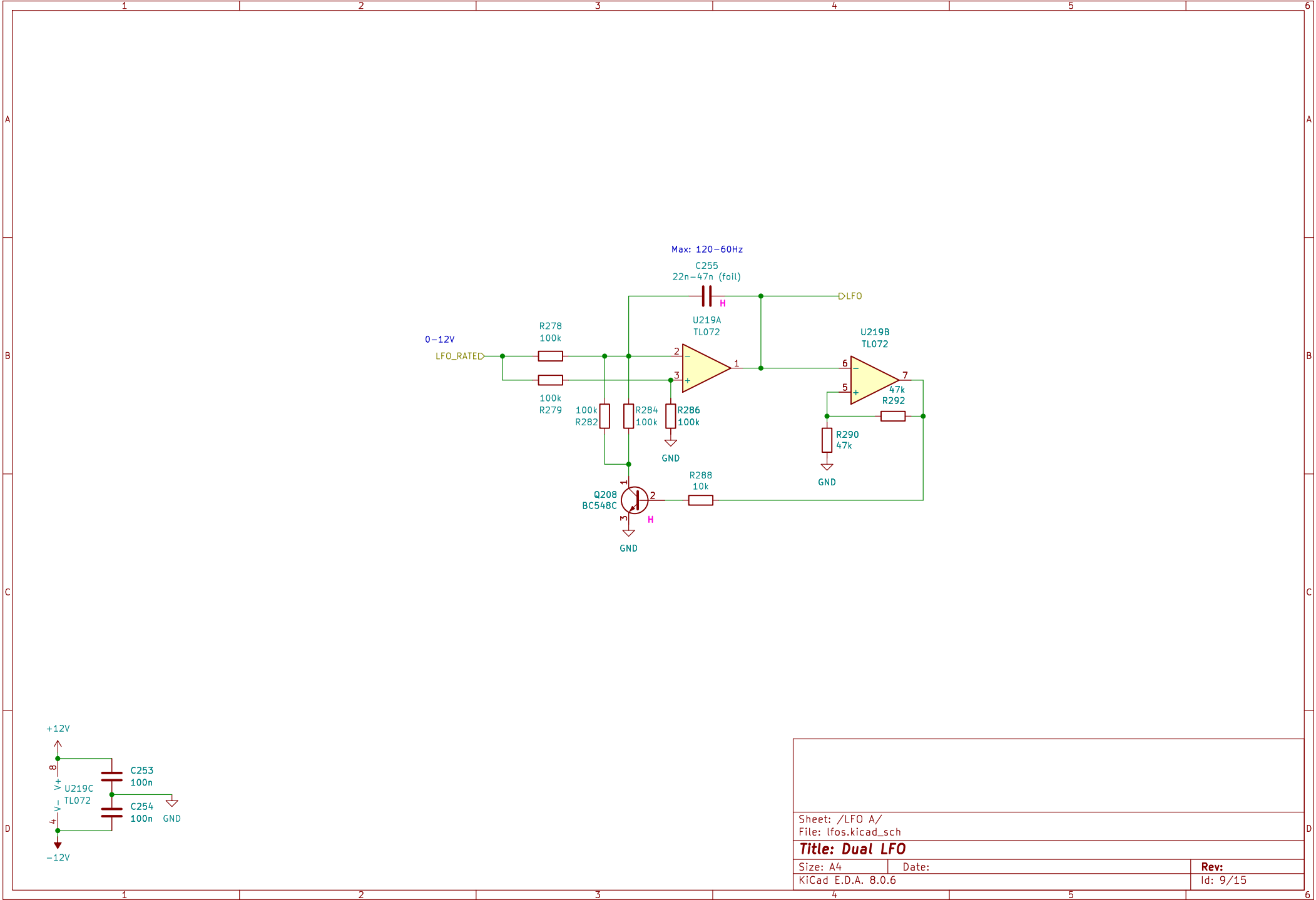
Example:



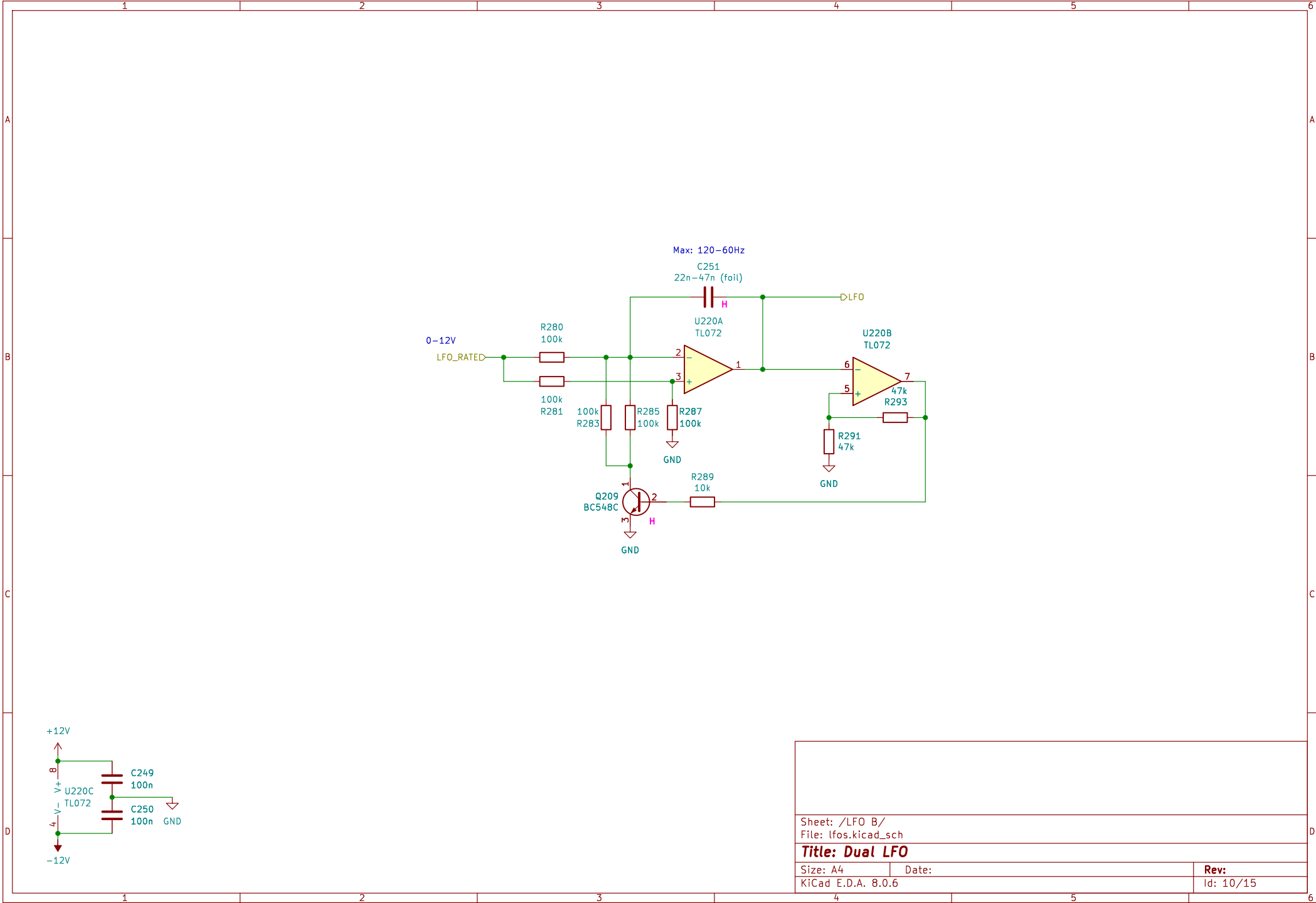


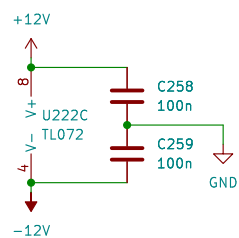
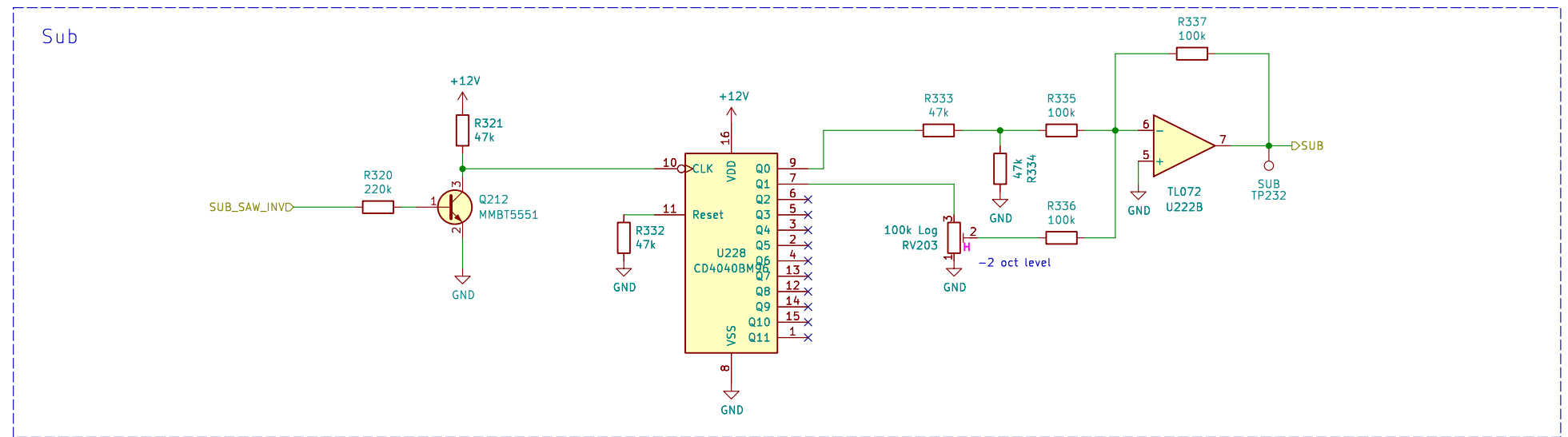
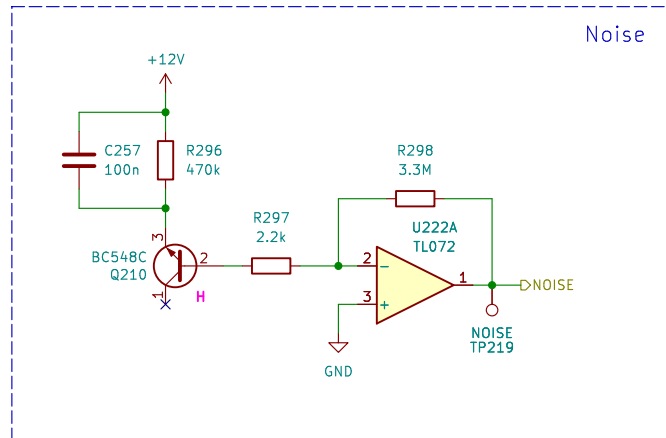






Title: Dual LFO		
Size: A4	Date:	Rev:
KiCad E.D.A. 8.0.6		Id: 9/15





Sheet: /Noise + Sub/
File: noise-sub.kicad_sch

Title:

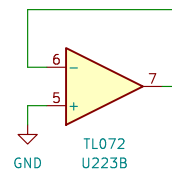
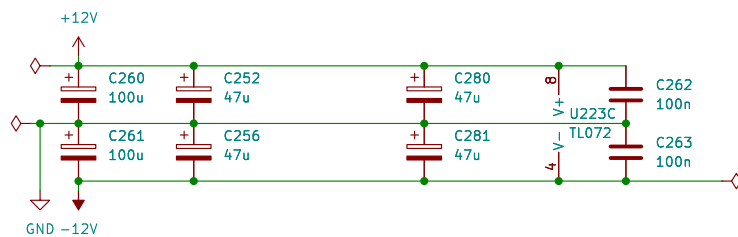
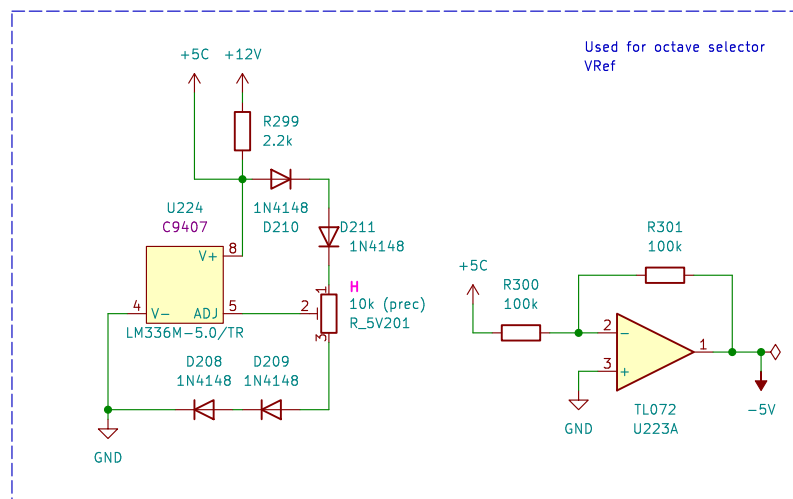
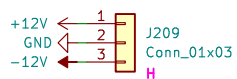
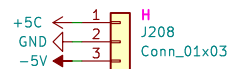
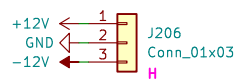
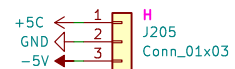
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Date:

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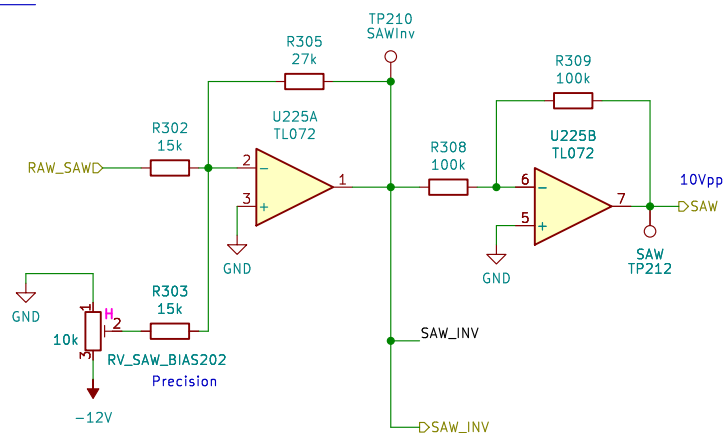
Rev:

Id: 11/15



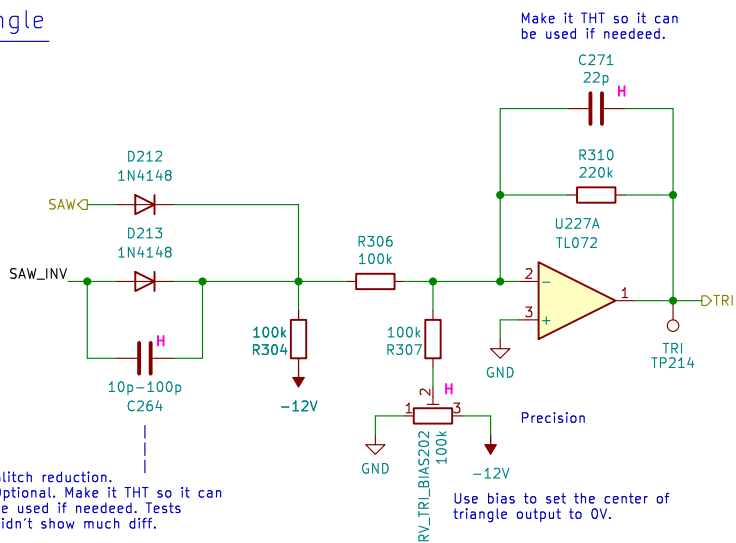
Sheet: /Power/ File: power.kicad_sch		
Title: Power		
Size: A4	Date:	Rev:
KiCad E.D.A. 8.0.6	Id: 12/15	

Sawtooth



Use BIAS to set the sawtooth output exactly to oscillate around 0V. This is critical for a nice triangle wave.

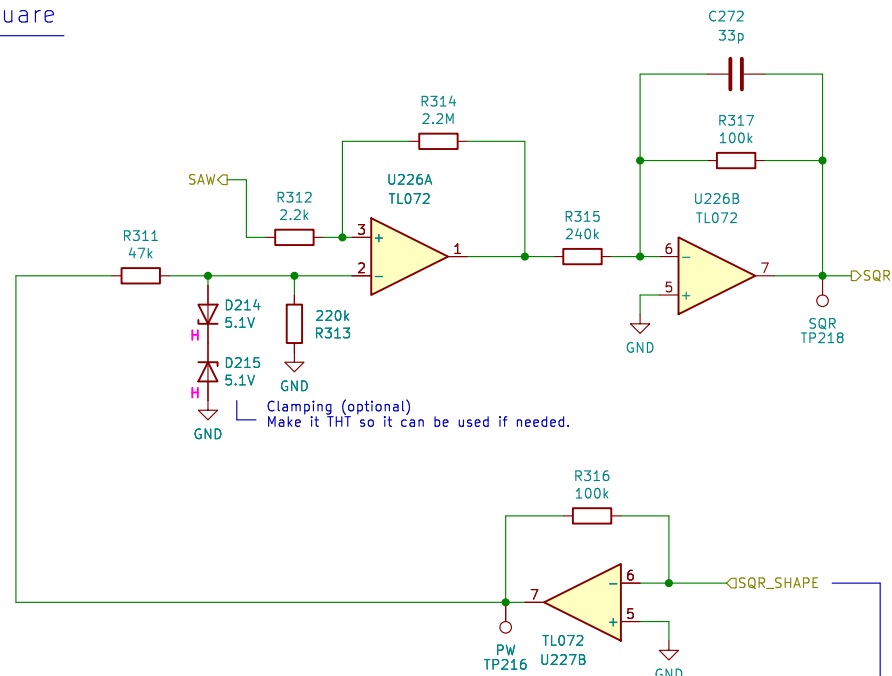
Triangle



Glitch reduction. Optional. Make it THT so it can be used if needed. Tests didn't show much diff.

Use bias to set the center of triangle output to 0V.

Square



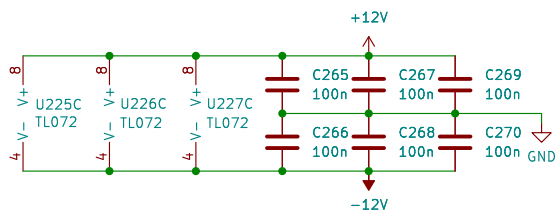
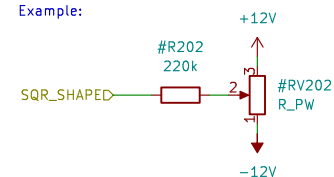
Square pulse width

Connect any number of CV inputs through input resistors to set the pulse width with a CV on SQR_SHAPE. Use the following CV values:

0V/GND: 50%
-5.5V: 5%
+5.5V: 95%

Set the input resistors so that the CV mixer's output value is between -/+5.5.

Example:

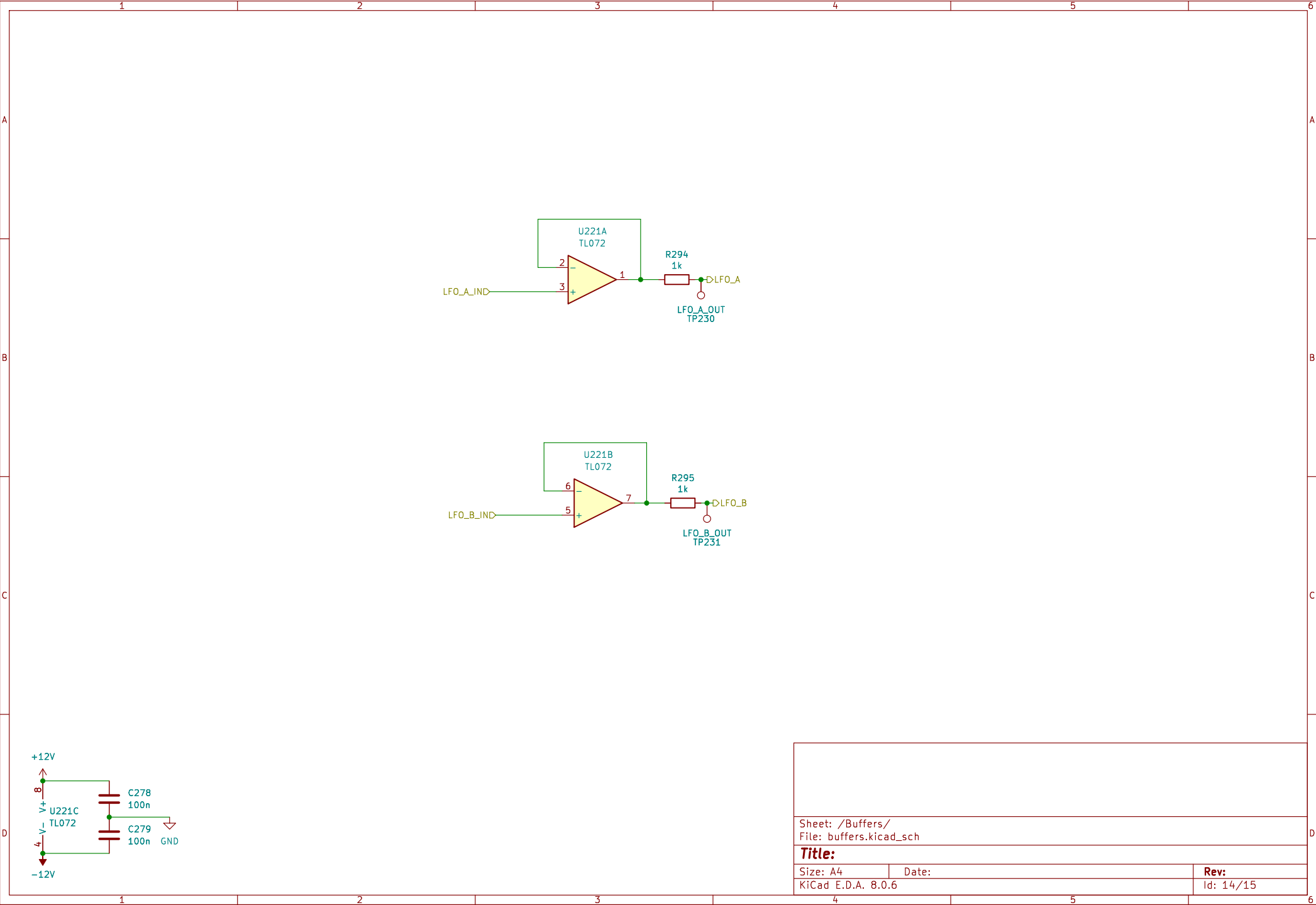


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File: vco1-waveshapers.kicad_sch

Title: Waveshapers

Size: User Date:
KiCad E.D.A. 8.0.6

Rev:
Id: 13/15



Sheet: /Buffers/ File: buffers.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. 8.0.6	Id: 14/15	