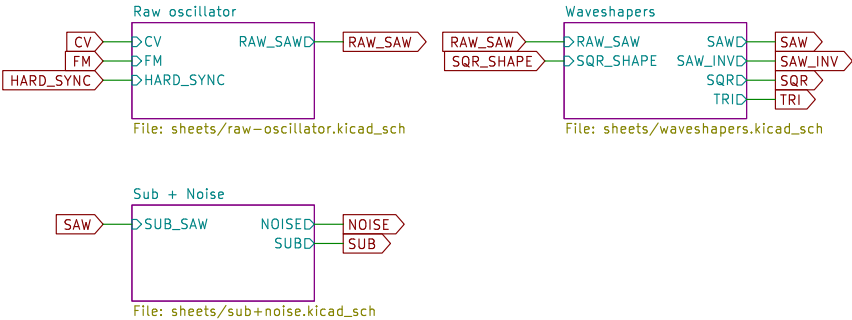


Raw oscillator & wave shaping

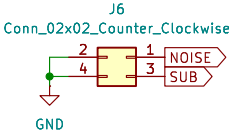
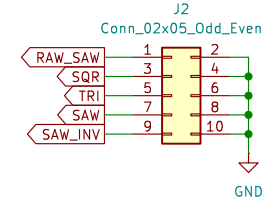
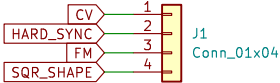
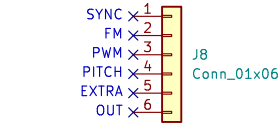
I/O



Power



Default patch connector



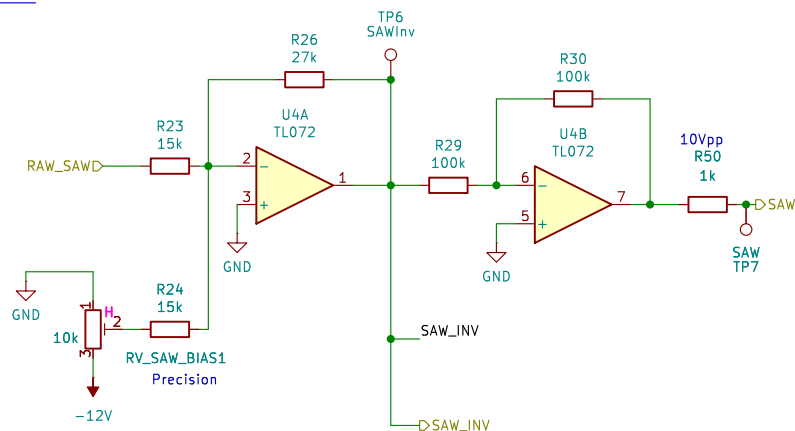
Shielding pairs  
DO NOT GROUND ON UI BOARD!

- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole

Sheet: /		
File: vco-core.kicad_sch		
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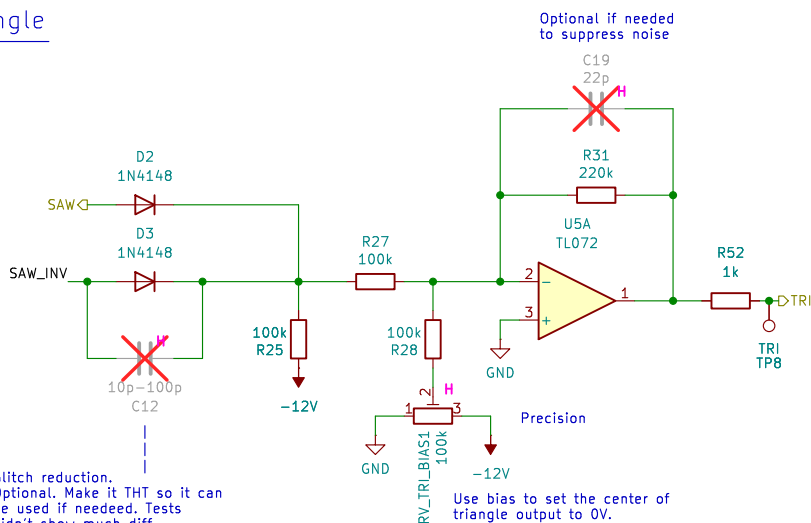


## Sawtooth



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

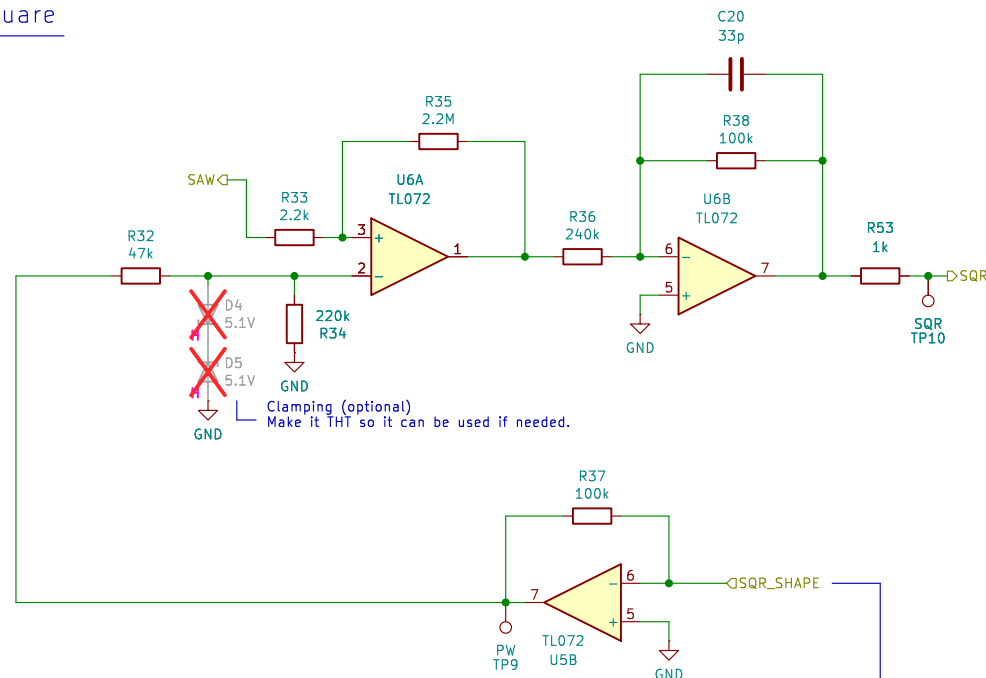
## Triangle



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



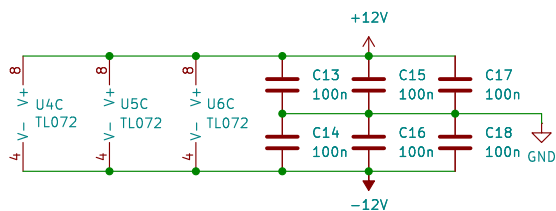
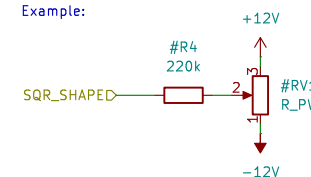
### Square pulse width

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:



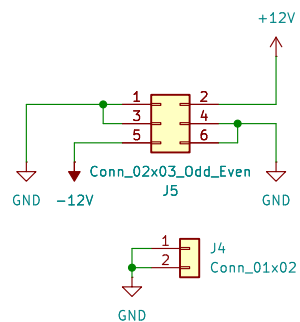
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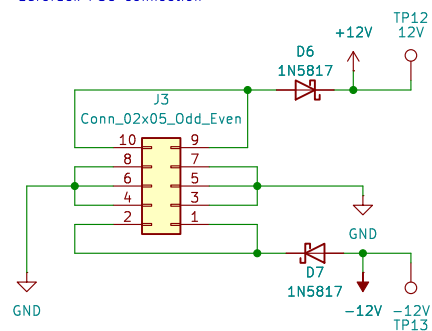
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Rev:  
Id: 3/5

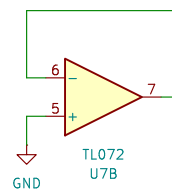
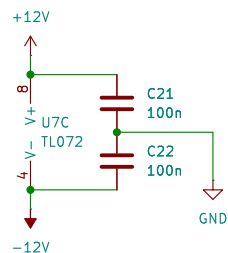
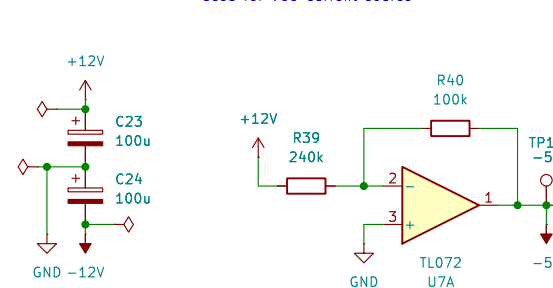
UI power connection



Eurorack PSU connection



Used for VCO current source



Sheet: /Power/  
File: power.kicad\_sch

**Title:**

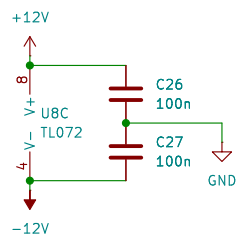
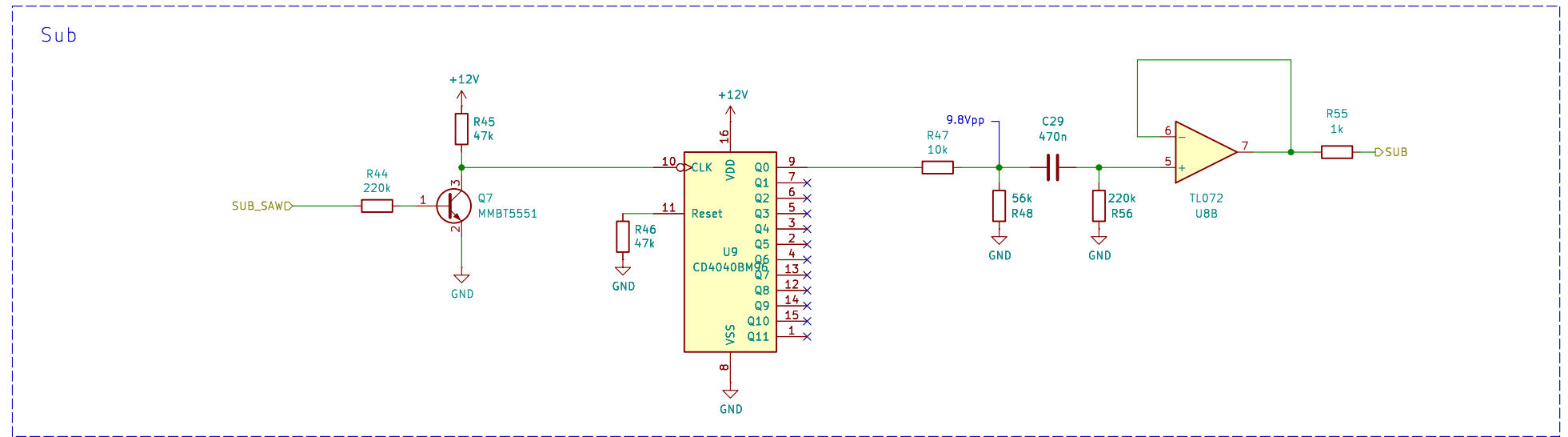
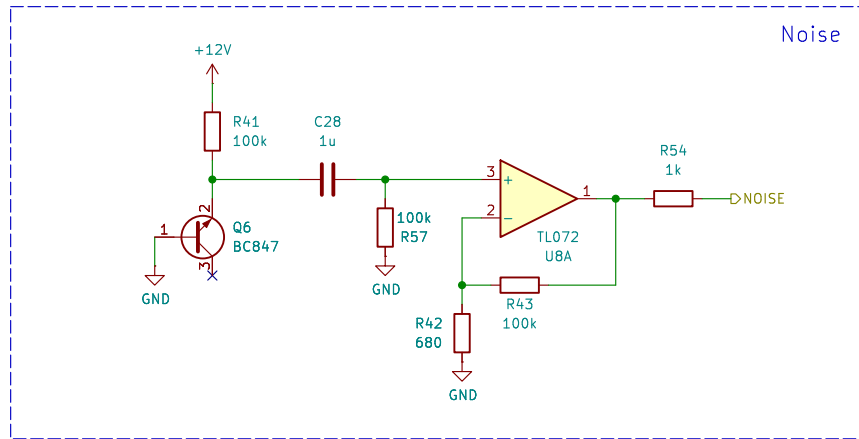
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Size: A4

Date:

KiCad E.D.A. 9.0.2

**Rev:**

Id: 5/5