

Sheet: /ADSR logic/
File: adsr-logic.kicad_sch

Title:

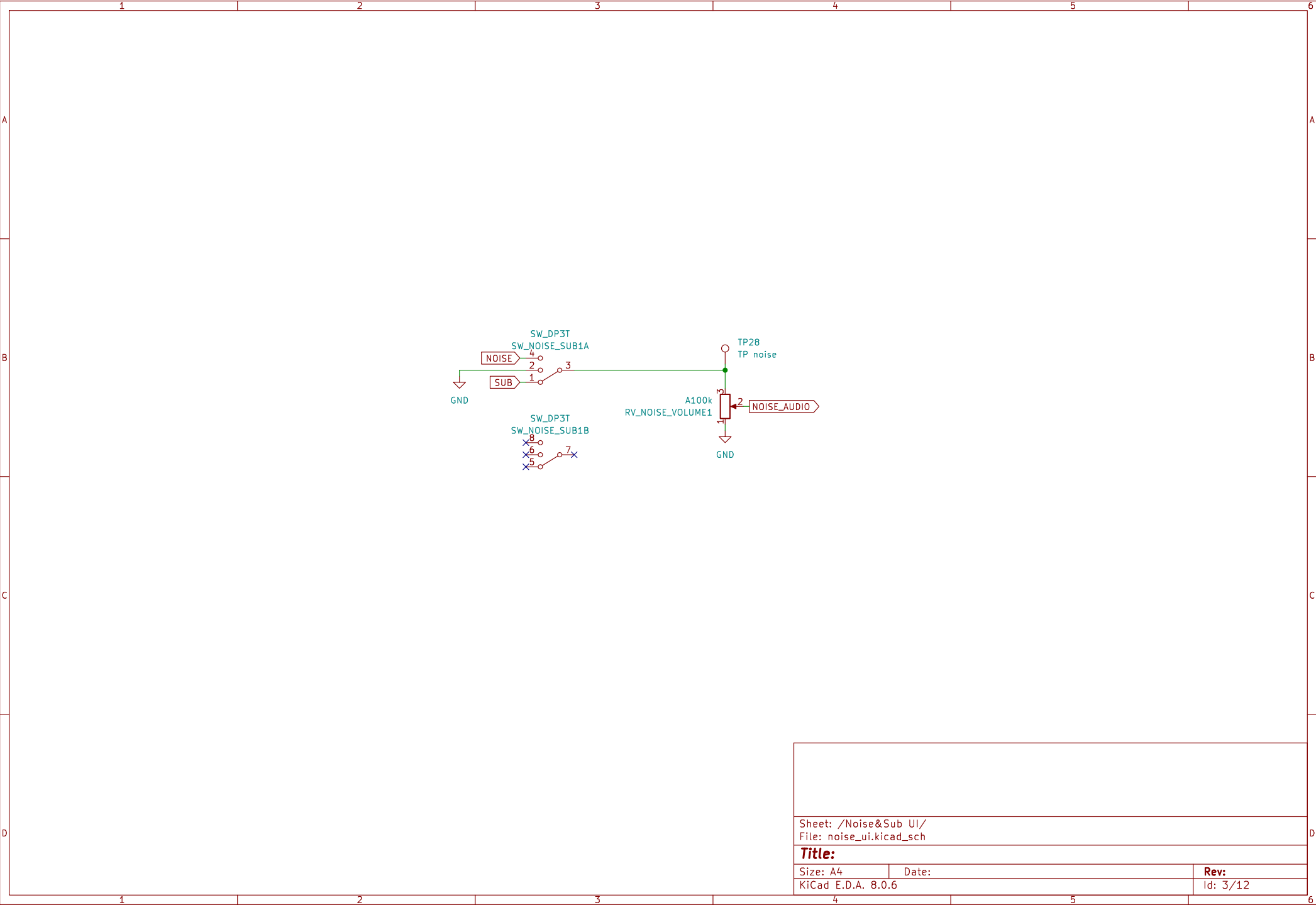
Size: A4

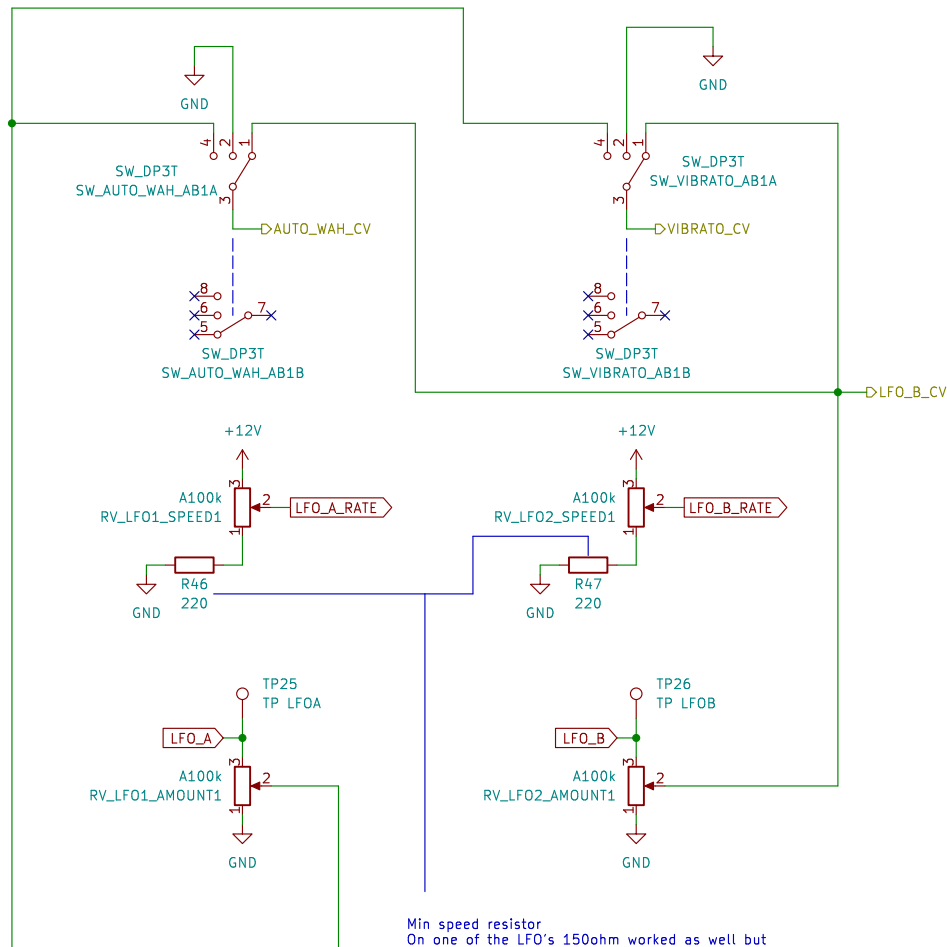
Date:

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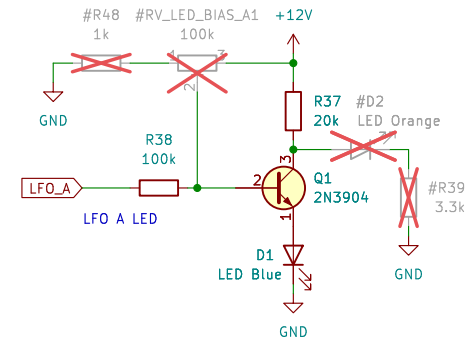
Rev:

Id: 2/12

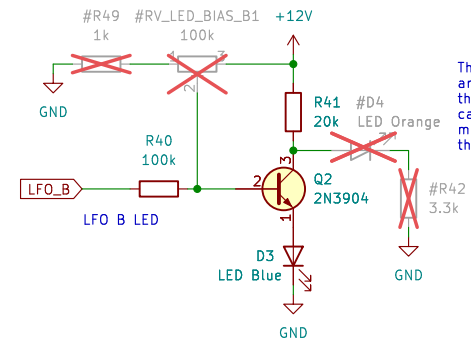




Min speed resistor
On one of the LFO's 150ohm worked as well but
on the other, the oscillator couldn't start.
220ohm is a safe bet.



LED resistor values
R37 & R41 values should be picked according to:
- Blue LEDs: 20kΩ
- Non-blue LEDs: 10kΩ



The unpopulated components
are optional. They reduce
the current fluctuation
caused by the LFOs which
makes it less apparent on
the output volume.

Sheet: /LFOs/
File: lfo_ui.kicad_sch

Title:

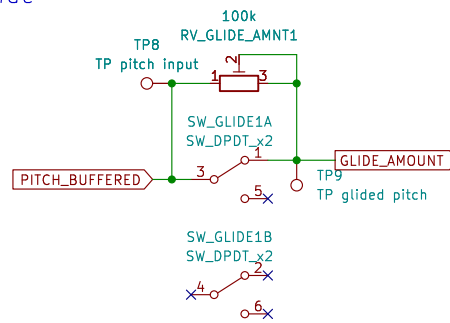
Size: A4 Date:

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Rev:

Id: 4/12

Glide



Sheet: /Glide/
File: glide_ui.kicad_sch

Title:

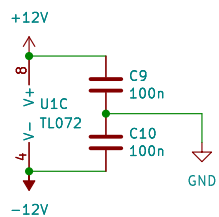
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Date:

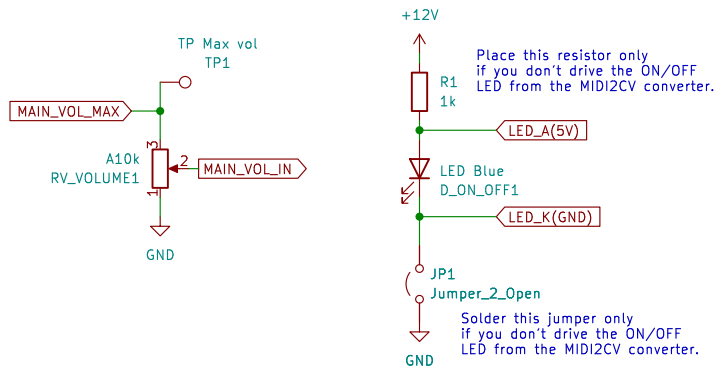
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Rev:

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Id: 6/12



Sheet: /Main Volume/
File: main_vol_ui.kicad_sch

Title:

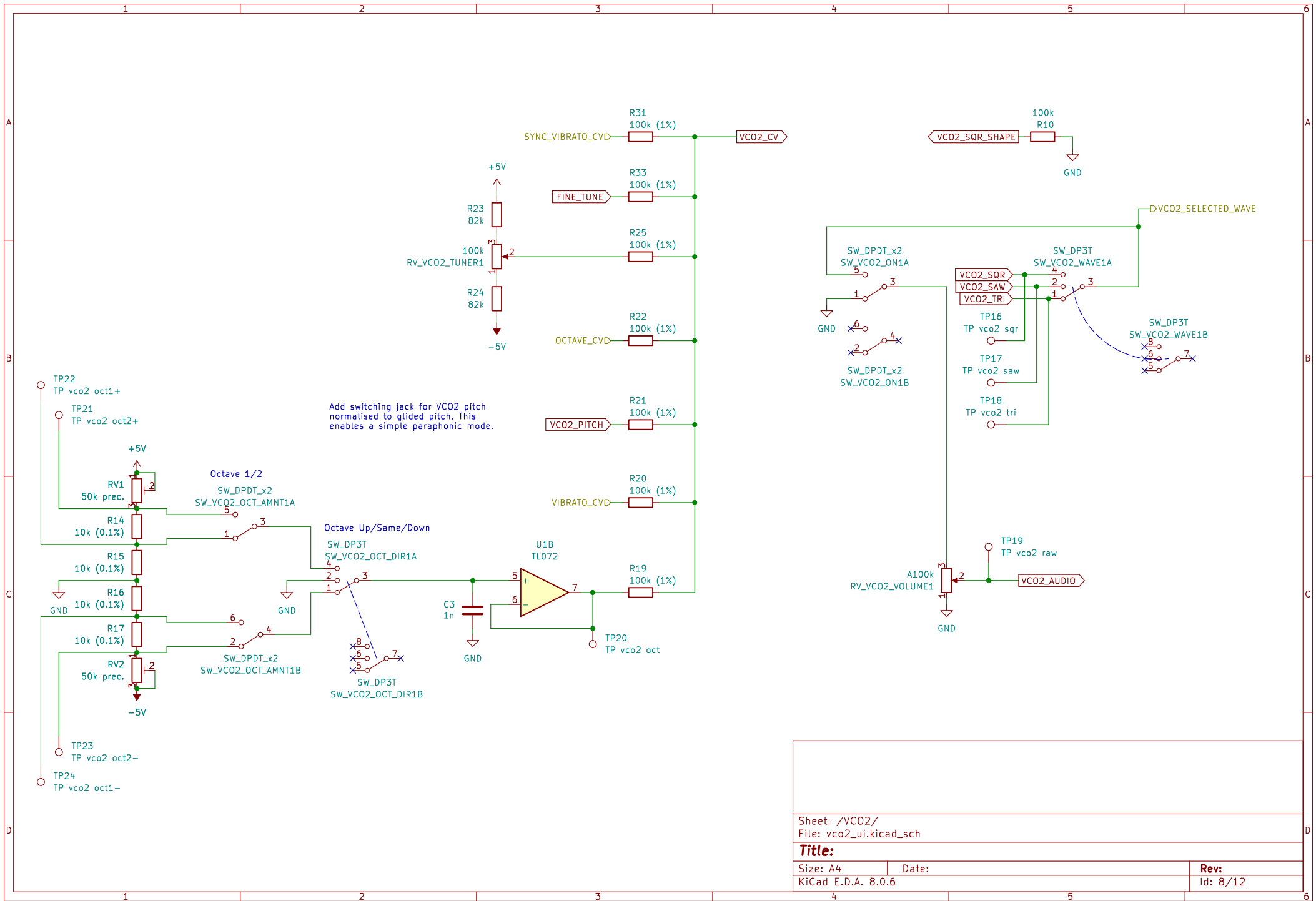
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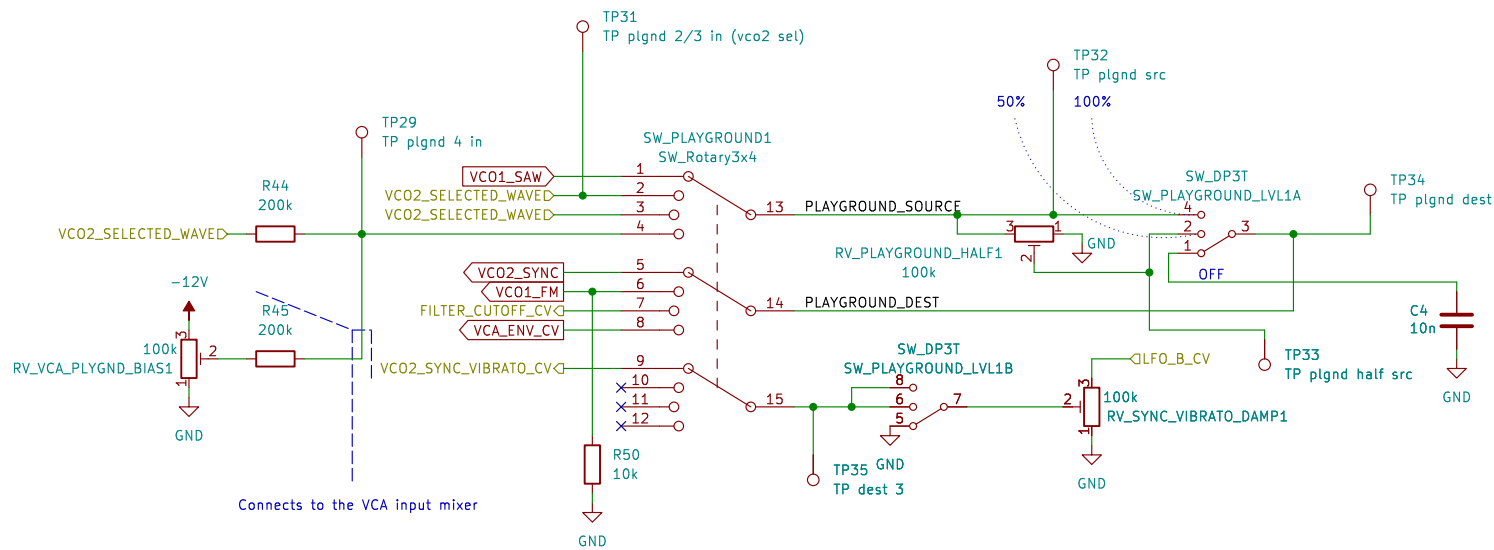
Date:

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Rev:

Id: 7/12





This cap avoids connecting the VCA input straight to GND when the playground switch is left in position #4. The point of connecting the OFF state to GND is anywayst to make sure that audio is not coupled onto the FM input of the filter (which is super sensitive). So a cap makes more sense here.

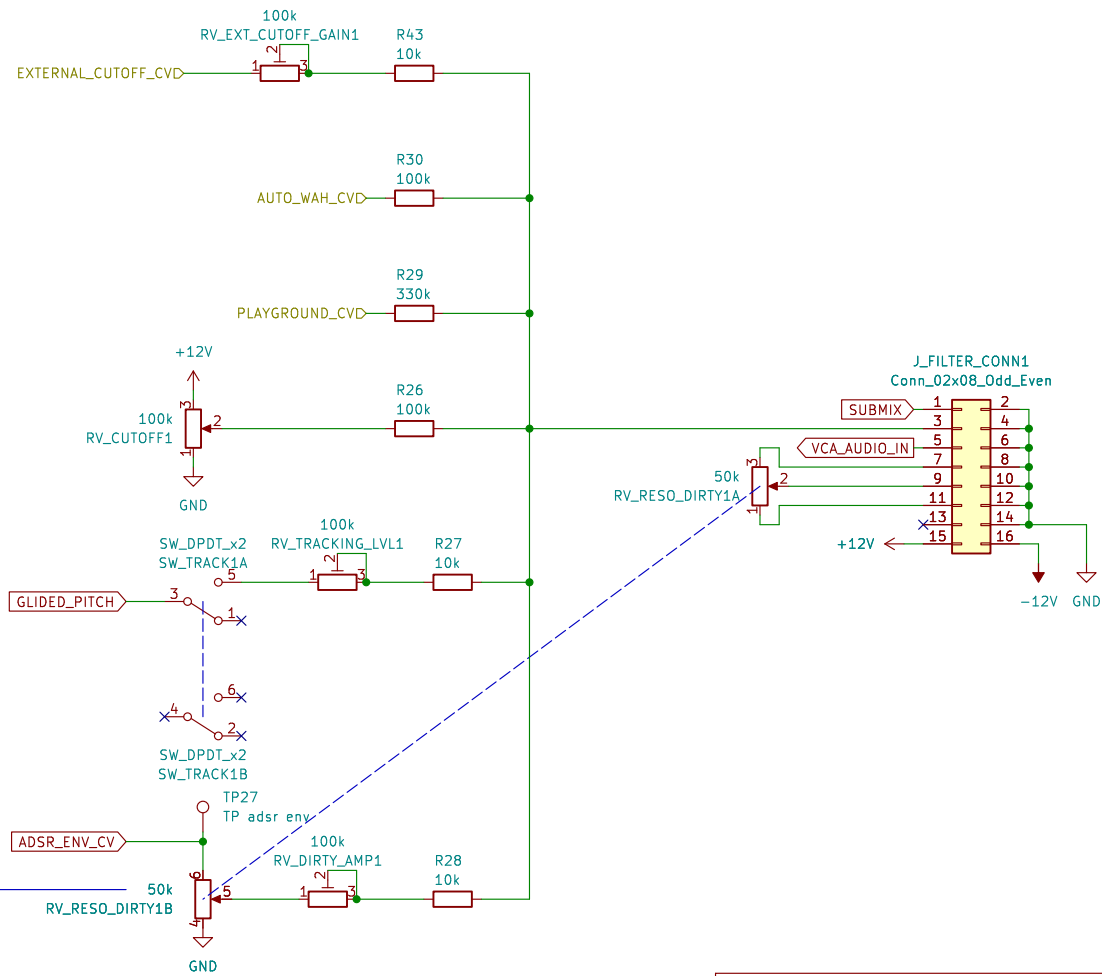
Sheet: /Playground/
File: playground_ui.kicad_sch

Title:

Size: A4
KiCad E.D.A. 8.0.6

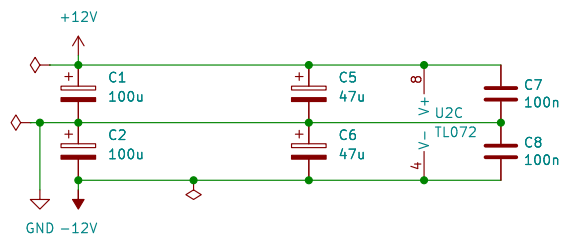
Date:

Rev:
Id: 9/12

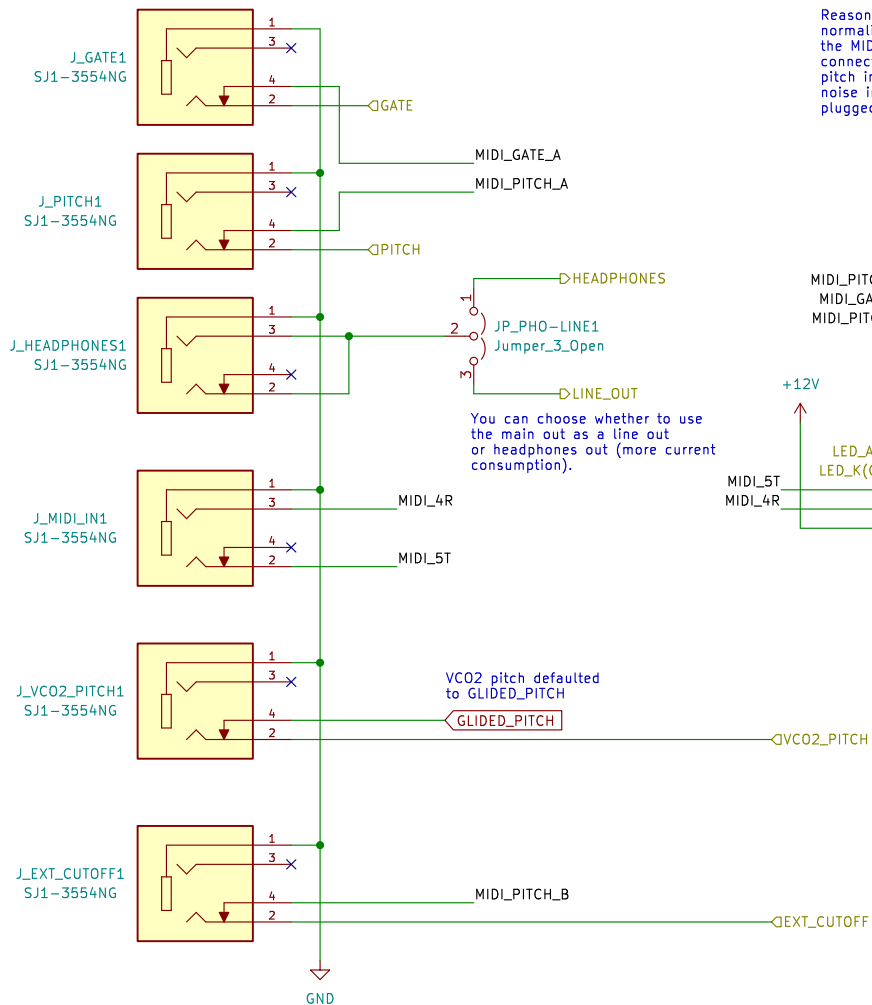
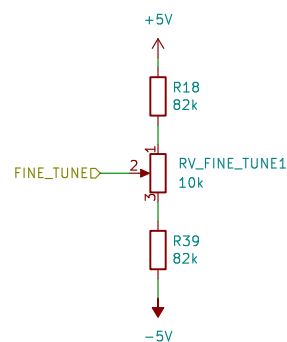


- H12 MountingHole
- H11 MountingHole

| | | |
|---------------------------|-------|-----------|
| Sheet: /Filter/ | | |
| File: filter_ui.kicad_sch | | |
| Title: | | |
| Size: A4 | Date: | Rev: |
| KiCad E.D.A. 8.0.6 | | Id: 10/12 |



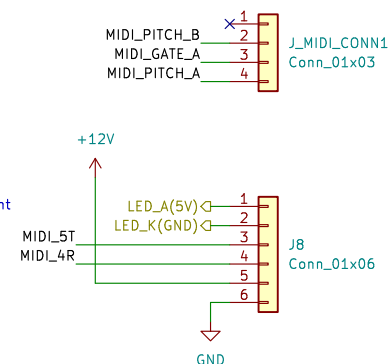
| | | |
|--------------------|-------|-------------|
| Title: | | |
| Size: A4 | Date: | Rev: |
| KiCad E.D.A. 8.0.6 | | Id: 11/12 |



Note: connect gate and pitch1 MIDI connections to ground if there's no internal MIDI2CV module.

Reason: if there's no internal MIDI2CV module that normalizes the gate and pitch inputs, then the MIDI gate and CV connections should be connected to ground. This way the GATE and pitch inputs are normalized to ground and noise inputs are avoided when there's no cable plugged in.

You can choose whether to use the main out as a line out or headphones out (more current consumption).



J8 part number is a 20pin header (male) which is enough for J8, J_MIDI.CONN1 and JP_PHO-LINE1. Just break it to appropriate pieces.

H13
MountingHole
H14
MountingHole

Sheet: /10/
File: io.kicad_sch

Title:

Size: A4 Date:

KiCad E.D.A. 8.0.6

Rev:

Id: 12/12