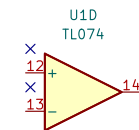
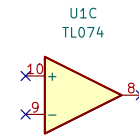
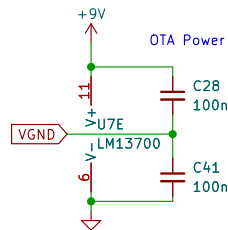
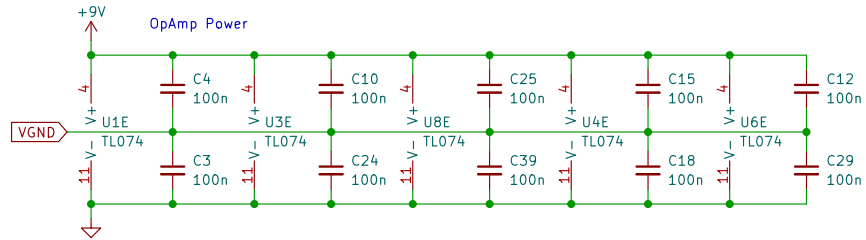
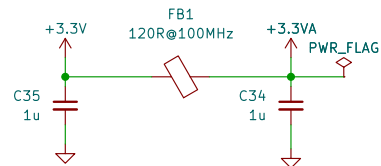
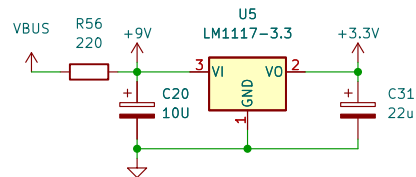
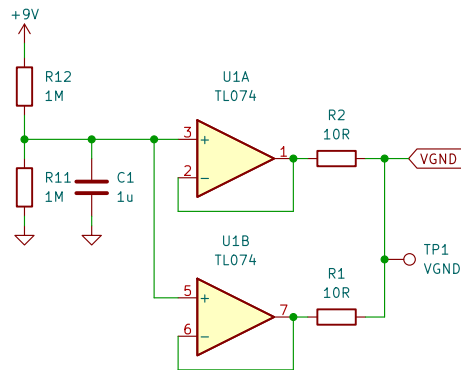
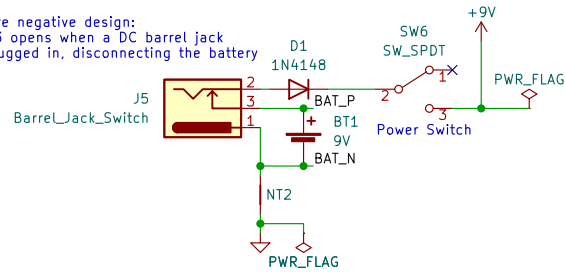


Centre negative design:  
Pin 3 opens when a DC barrel jack  
is plugged in, disconnecting the battery



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

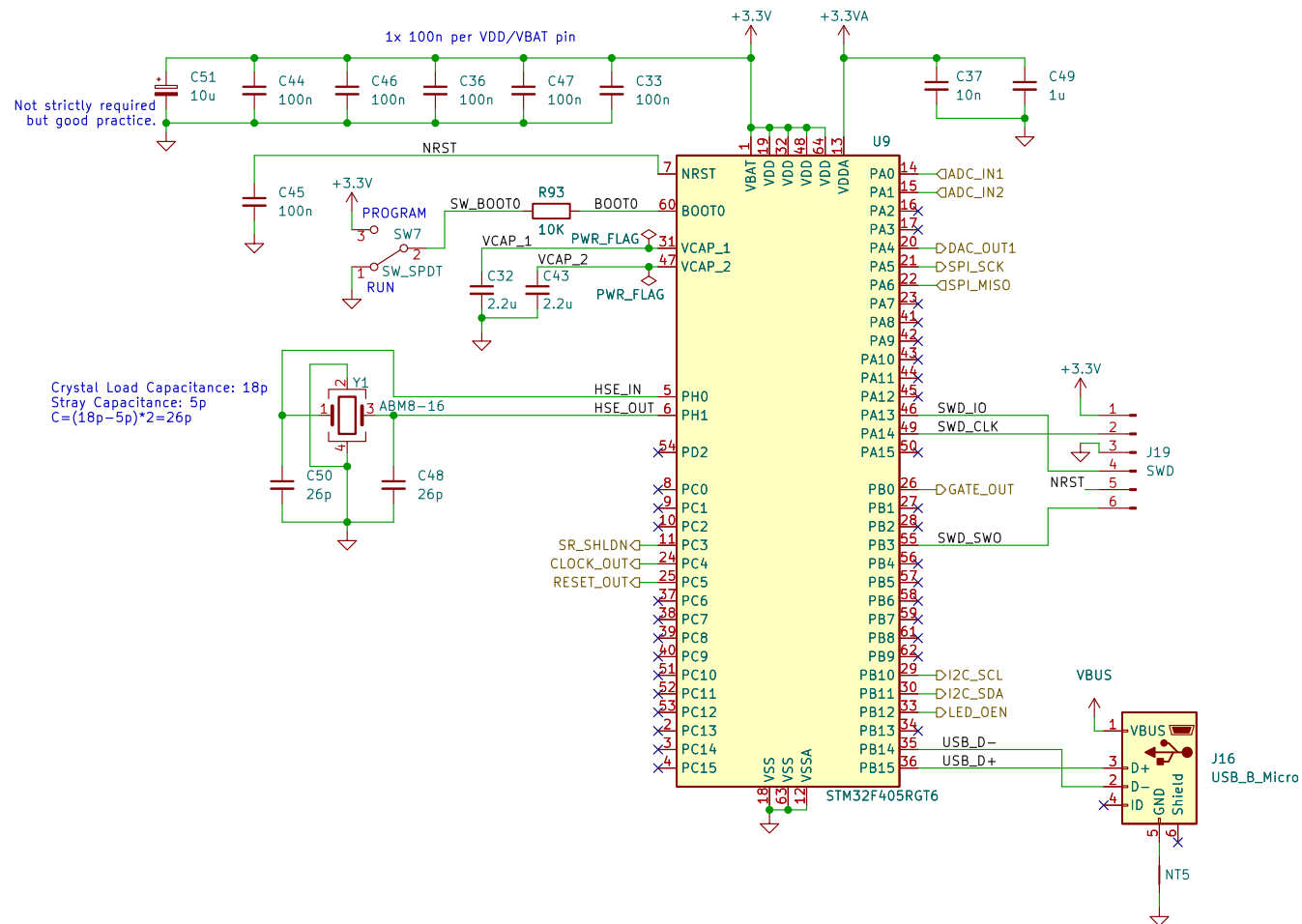
SloBlo Labs

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

Title: LivSynth - Power

Size: A4 Date: 2022-07-18  
KiCad E.D.A. kicad (6.0.8-1)-1

Rev: 0v1  
Id: 1/11



SloBlo Labs

Sheet: /MCU/  
File: MCU.kicad\_sch

Title: LivSynth - MCU

Size: A4 Date: 2022-07-18

KiCad E.D.A. kicad (6.0.8-1)-1

Rev: 0v1

Id: 2/11

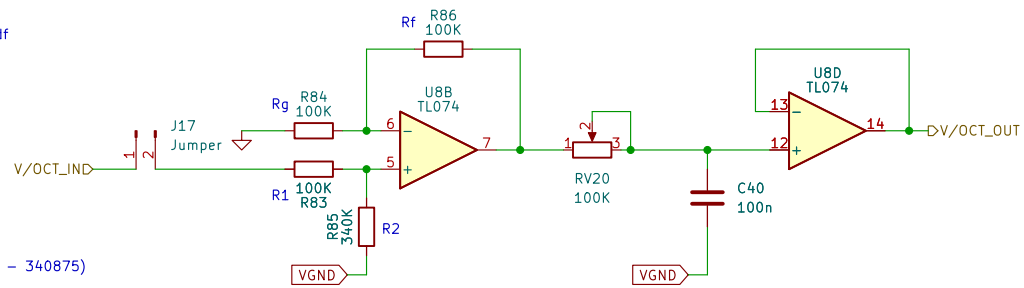
Ref: <https://www.ti.com/lit/an/sloa097/sloa097.pdf>

$y=mx+b$

$$m = (V_{outH} - V_{outL}) / (V_{inH} - V_{inL}) \\ = (7 - 2) / (3.3 - 0) = 1.51$$

$$b = V_{outL} - m * V_{inL} \\ = 2 - 1.51 * 0 = 2$$

$$R1 = 100K \text{ (det)} \\ R2 = (V_{ref} * R1 * m) / b \\ = 4.5 * 100K * 1.51 / 2 = 340875 \\ Rf = 100K \text{ (det)} \\ Rg = (R2 * Rf) / (m * (R1 + R2) - R2) \\ = 340875 * 100K / (1.515 * (100K + 340875) - 340875) \\ = 104227$$



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Sheet: /Slew/

File: Slew.kicad\_sch

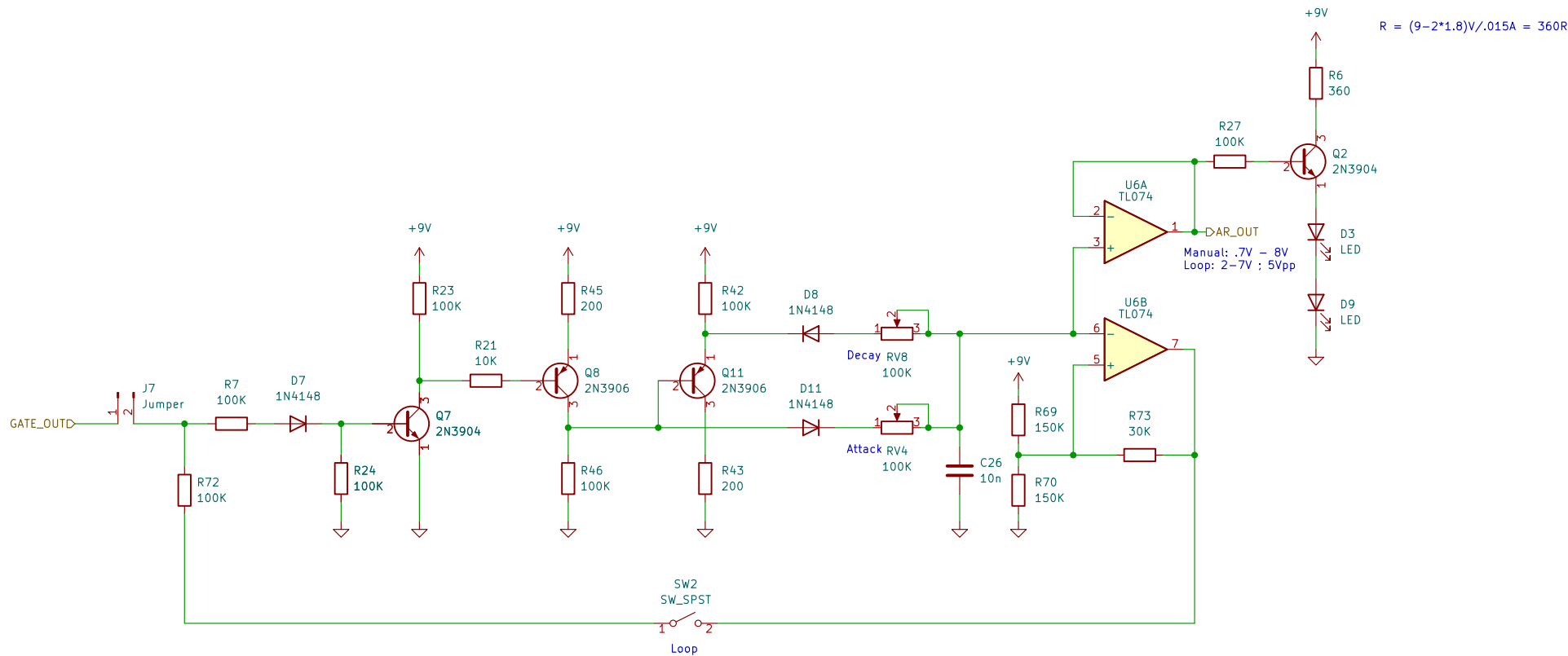
**Title: LivSynth – Slew**

Size: A4 Date: 2022-07-18

KiCad E.D.A. kicad (6.0.8-1)-1

**Rev: 0v1**

Id: 3/11



SloBlo Labs

Sheet: /EG/

File: EG.kicad\_sch

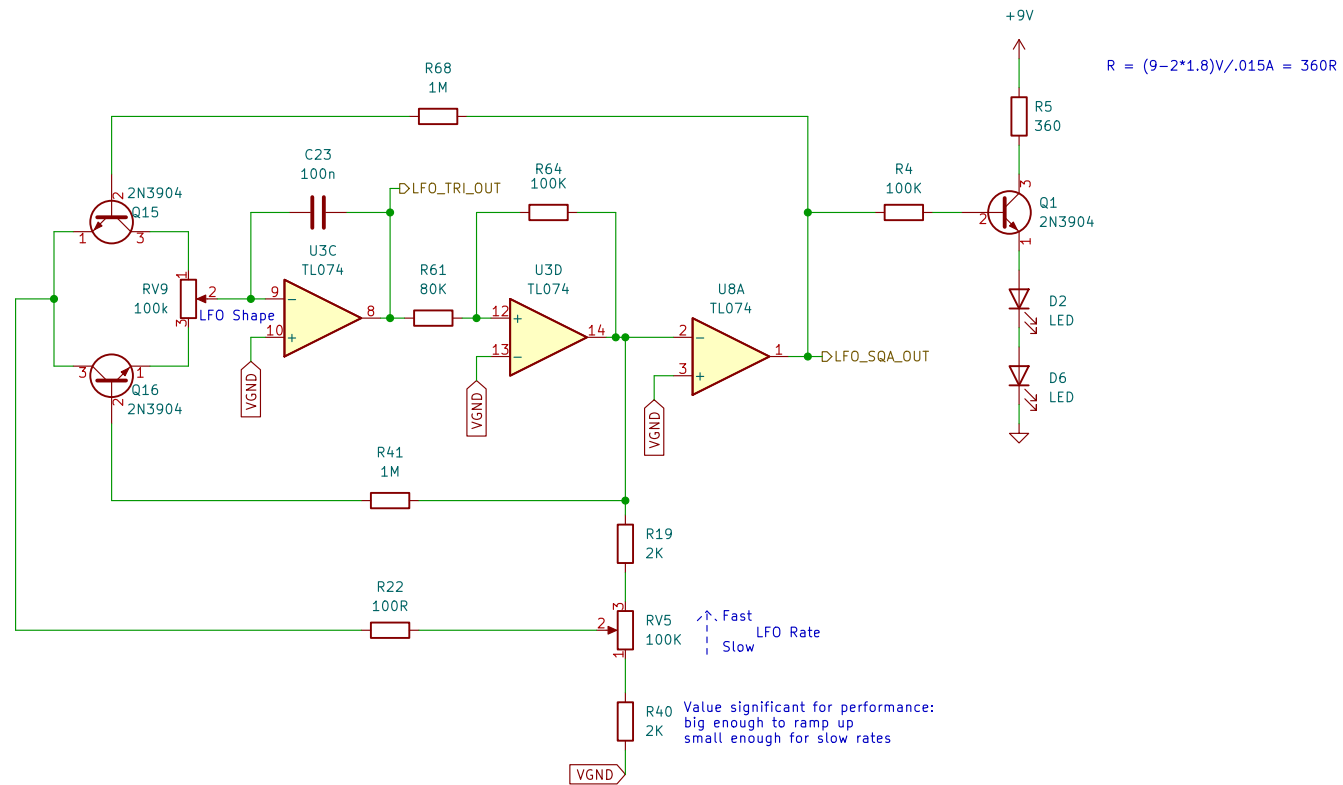
**Title: LivSynth - EG**

Size: A4 Date: 2022-07-18

KiCad E.D.A. kicad (6.0.8-1)-1

Rev: 0v1

Id: 4/11



# SloBlo Labs

Sheet: /LFO/  
File: LFO.kicad\_sch

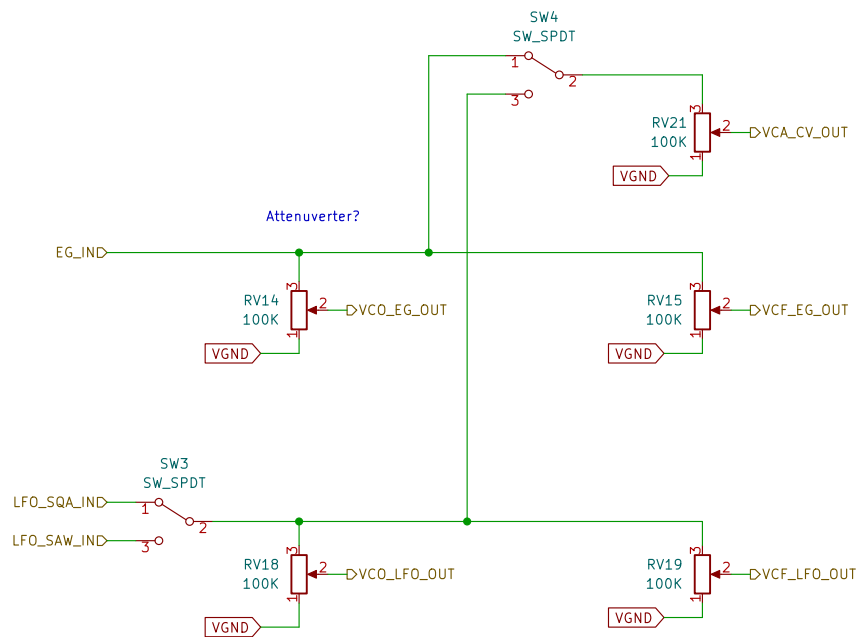
## Title: LivSynth – LFO

Size: A4 Date: 2022-07-18

KiCad E.D.A. kicad (6.0.8-1)-1

Rev: 0v1

Id: 5/11



# SloBlo Labs

Sheet: /ModMatrix/

File: ModMatrix.kicad\_sch

## Title: LivSynth – ModMatrix

Size: A4 Date: 2022-07-18

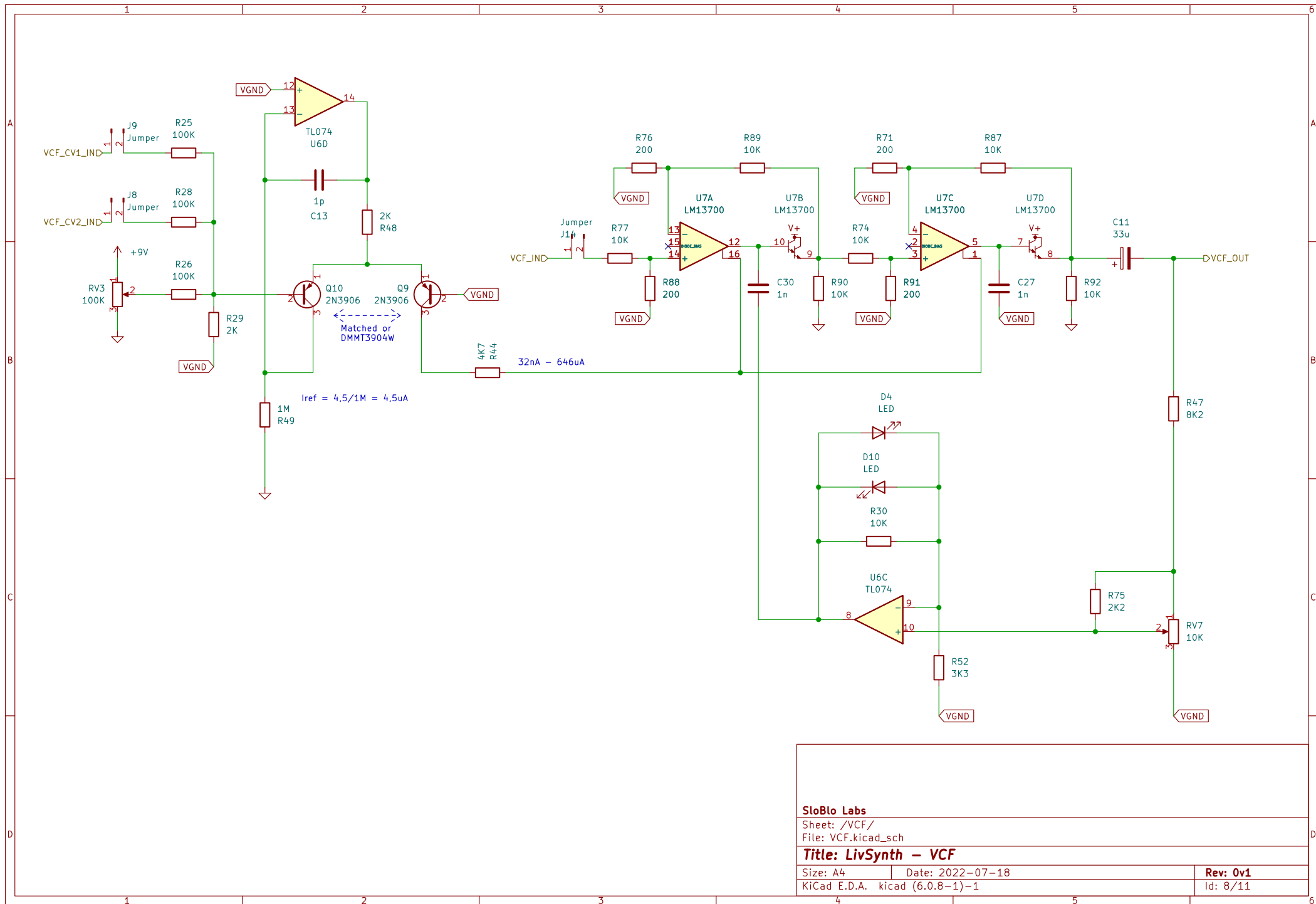
KiCad E.D.A. kicad (6.0.8-1)-1

Rev: 0v1

Id: 6/11

Id: 7/11





Id: 9/11

