

# Piezo preamp with EQ

## [1] Charge amplifier and Baxandall EQ

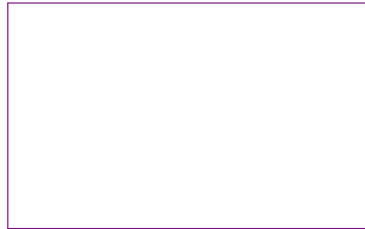
1- ChargeAmpAndEQ



File: 1- ChargeAmpAndEQ.kicad\_sch

## [2] Power supply and opamp biasing

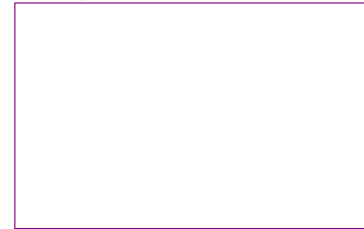
2- Power



File: 2- Power.kicad\_sch

## [3] Battery & power indicator

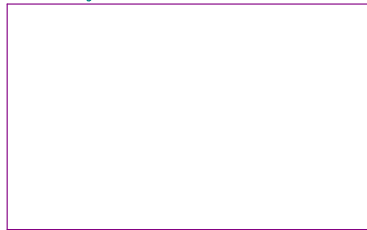
3- BatteryIndicator



File: 3- BatteryIndicator.kicad\_sch

## [4] Mounting, hardware and accessories

4- MountingAndAccessories



File: 4- MountingAndAccessories.kicad\_sch

v2.2: scheme, PCB: fixing T and R pins on audio jacks – they were swapped before  
v2.1: PCB: fixing pad sizes – some were too small

**Arx**

Sheet: /

File: 2023\_PiezoPreamp.kicad\_sch

**Title: Piezo Preamp + EQ**

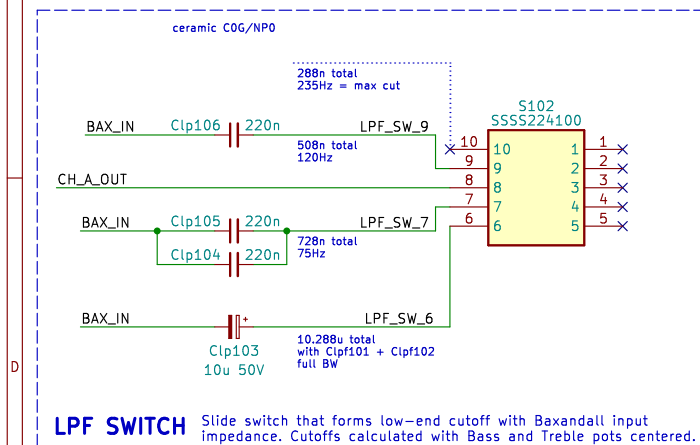
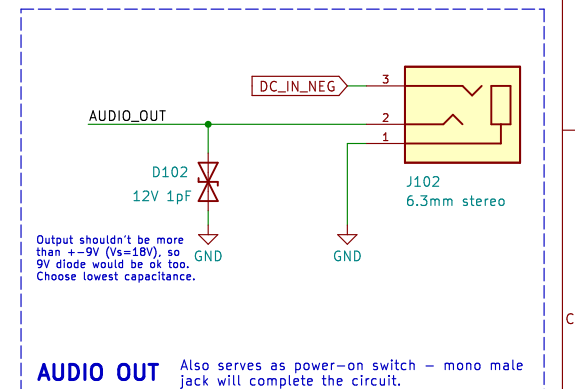
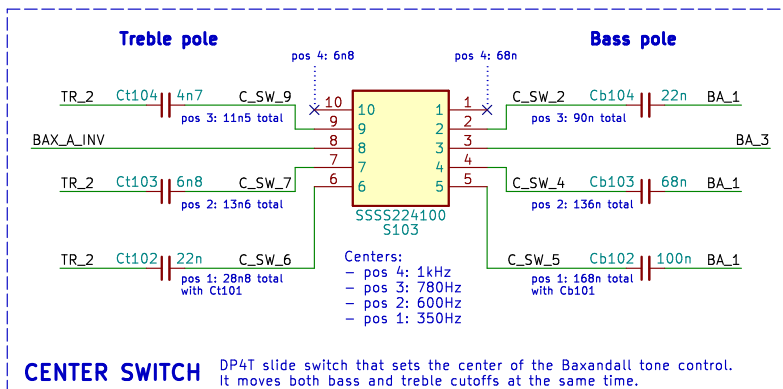
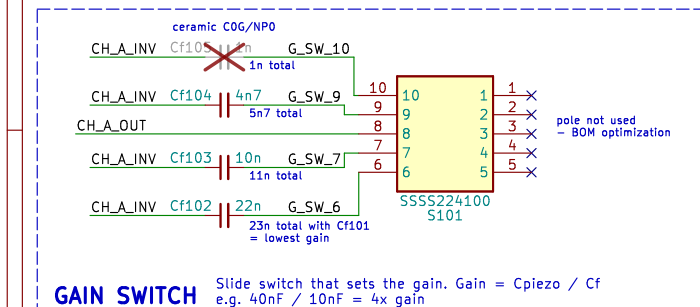
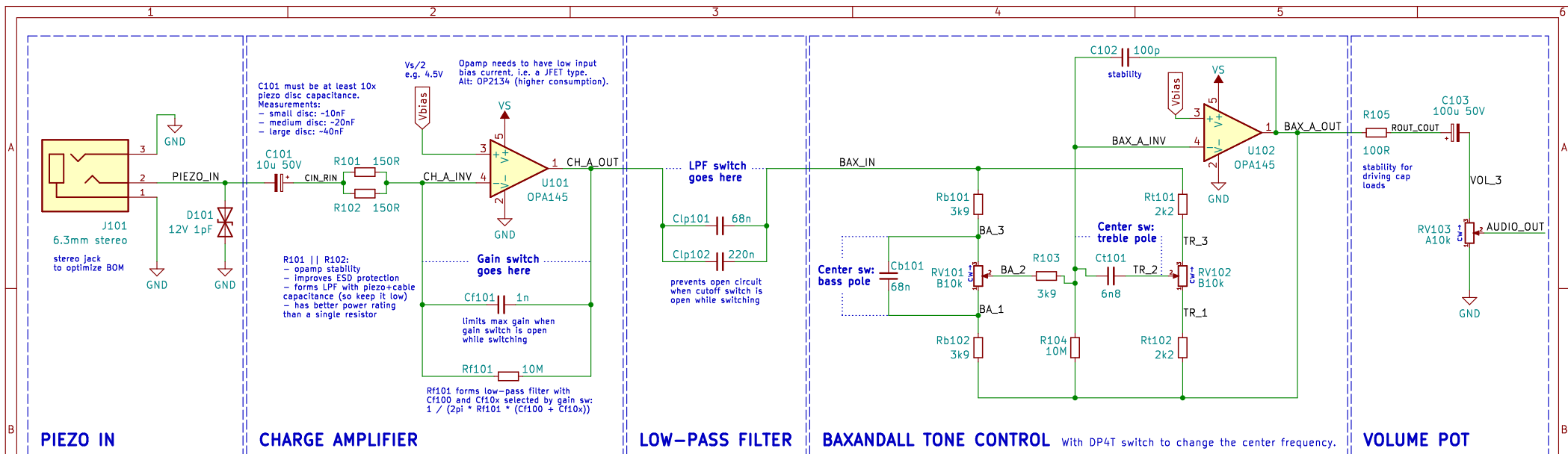
Size: A4

Date: 2023-12-27

Rev: 2.2

KiCad E.D.A. kicad 7.0.9

Id: 1/5



Arx

Sheet: /1-ChargeAmpAndEQ/

File: 1-ChargeAmpAndEQ.kicad\_sch

**Title: Charge Amp and Baxandall EQ**

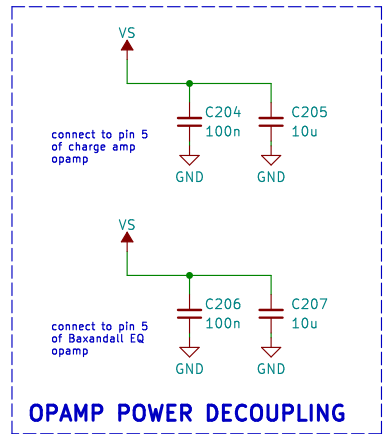
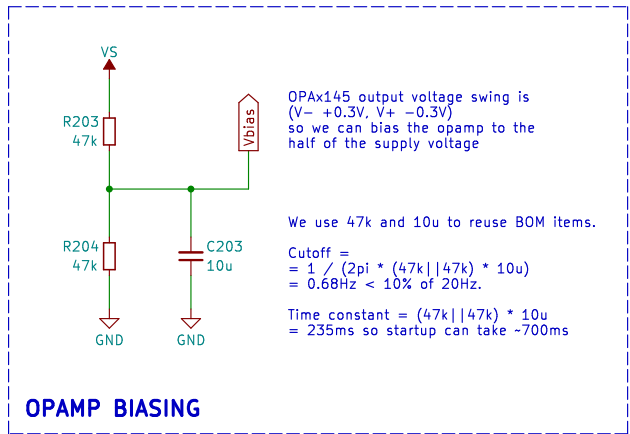
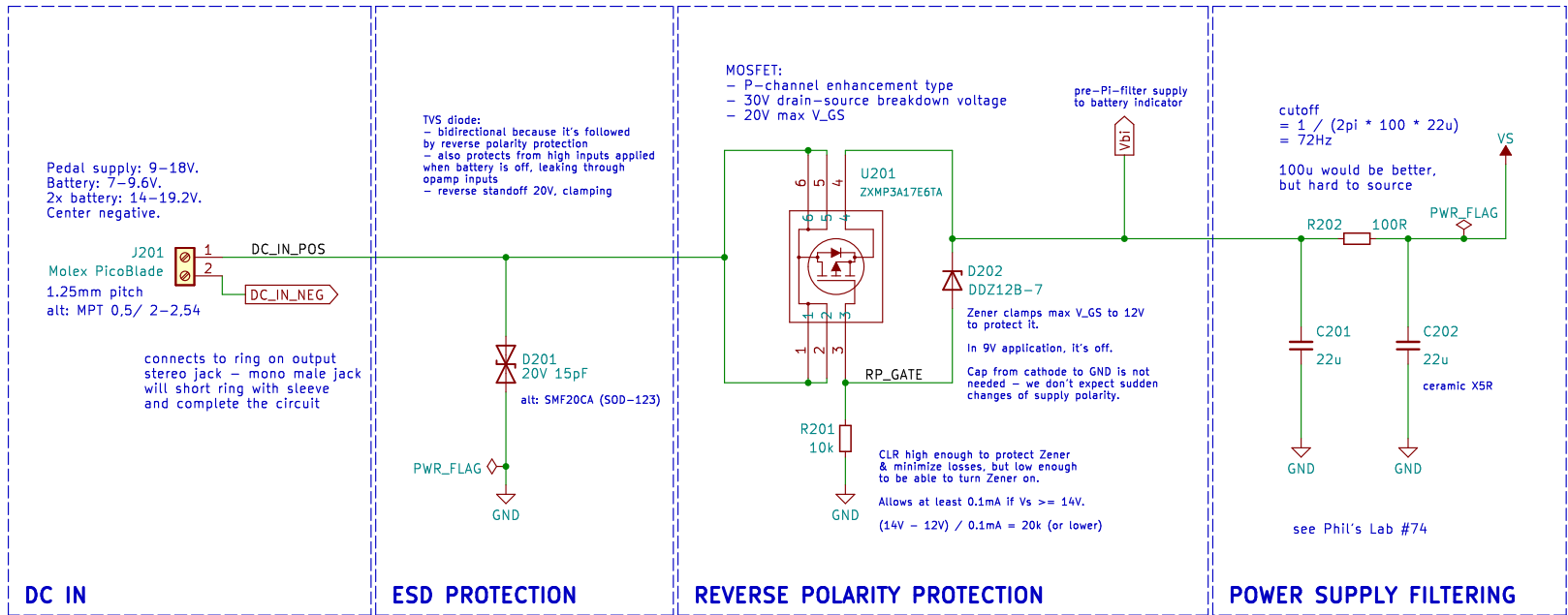
Size: A4

Date: 2023-12-27

Rev: 2.2

KiCad E.D.A. kicad 7.0.9

Id: 1/5



Arx

Sheet: /2–Power/  
File: 2–Power.kicad\_sch

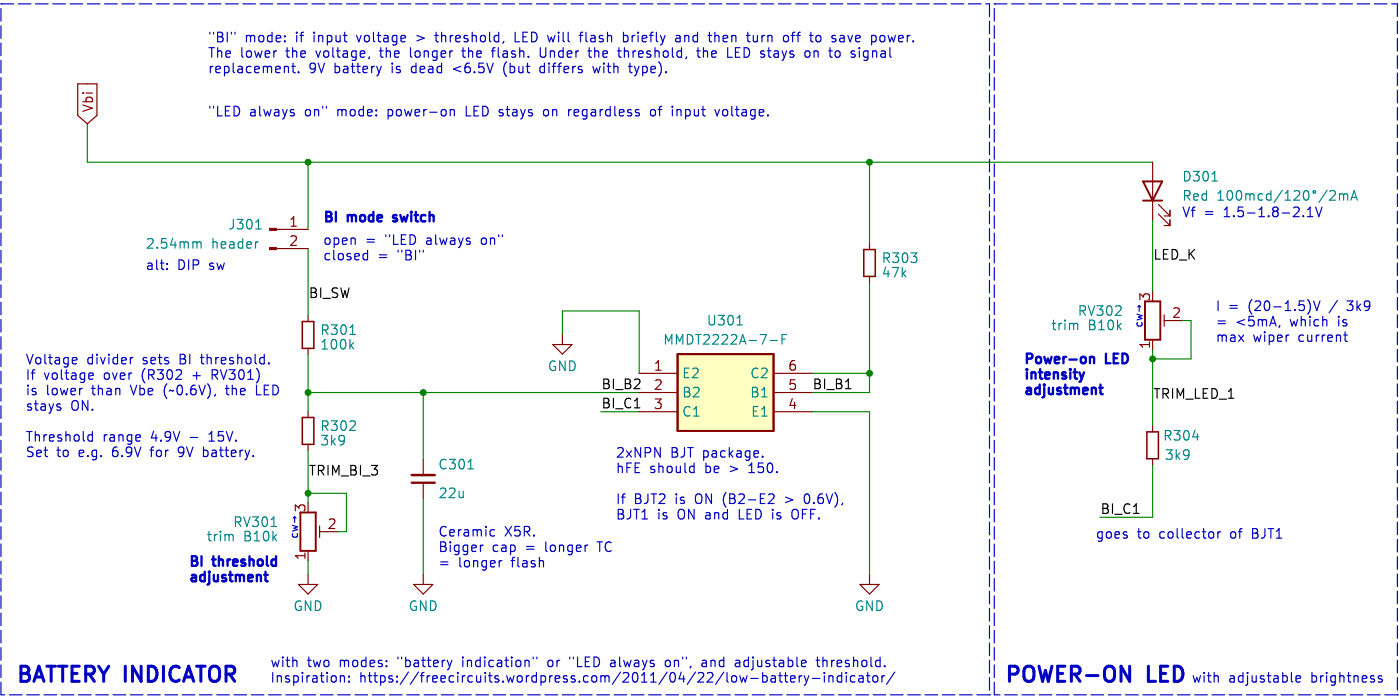
Title: Power Supply and Opamp Biasing

Size: A4 Date: 2023–12–27

KiCad E.D.A. kicad 7.0.9

Rev: 2.2

Id: 2/5



Arx

Sheet: /3-BatteryIndicator/  
File: 3-BatteryIndicator.kicad\_sch


**Title: Battery & Power Indicator**

Size: A4 Date: 2023-12-27

KiCad E.D.A. kicad 7.0.9


Rev: 2.2

Id: 3/5




H401  
M3 MountingHole\_Pad

can be used as a single point of grounding for enclosure if the grounding spring is not used




H402  
M3 MountingHole




H403  
M3 MountingHole


**MOUNTING HOLES**



H404  
3.2/12.7mm




H405  
3.2/12.7mm



H406  
3.2/12.7mm

**MOUNTING PEGS**



J401  
Spring Contact

Battery spring pushing against enclosure. Can be used as a single point of grounding if mounting hole is not used for this purpose. Only use one of these methods to prevent ground loops.

**GROUNDING SPRING**



H407  
LED light guide  
alt: LPC\_044\_CTP

guides power LED light to the top cover of enclosure

**LED LIGHT GUIDE**



JP401

for J301 (BI)

**JUMPER**



N401  
TEKO 1/A.1

alt: TEK0 2/A.1  
(can also fit 9V battery)

**ENCLOSURE**



P401  
Molex PicoBlade

from battery / DC jack to PicoBlade on PCB

**DC PLUG**

**what's missing:**

- knobs for pots
- DC IN jack with switch
- 9V battery connector

Arx

Sheet: /4-MountingAndAccessories/  
File: 4-MountingAndAccessories.kicad\_sch

**Title: Mounting, hardware and accessories**

Size: A4      Date: 2023-12-27

KiCad E.D.A.    kicad 7.0.9

**Rev: 2.2**

Id: 5/5