

Piezo preamp with EQ

[1] Charge amplifier and Baxandall EQ

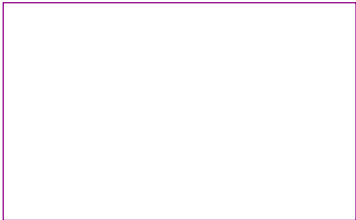
1- ChargeAmpAndEQ



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

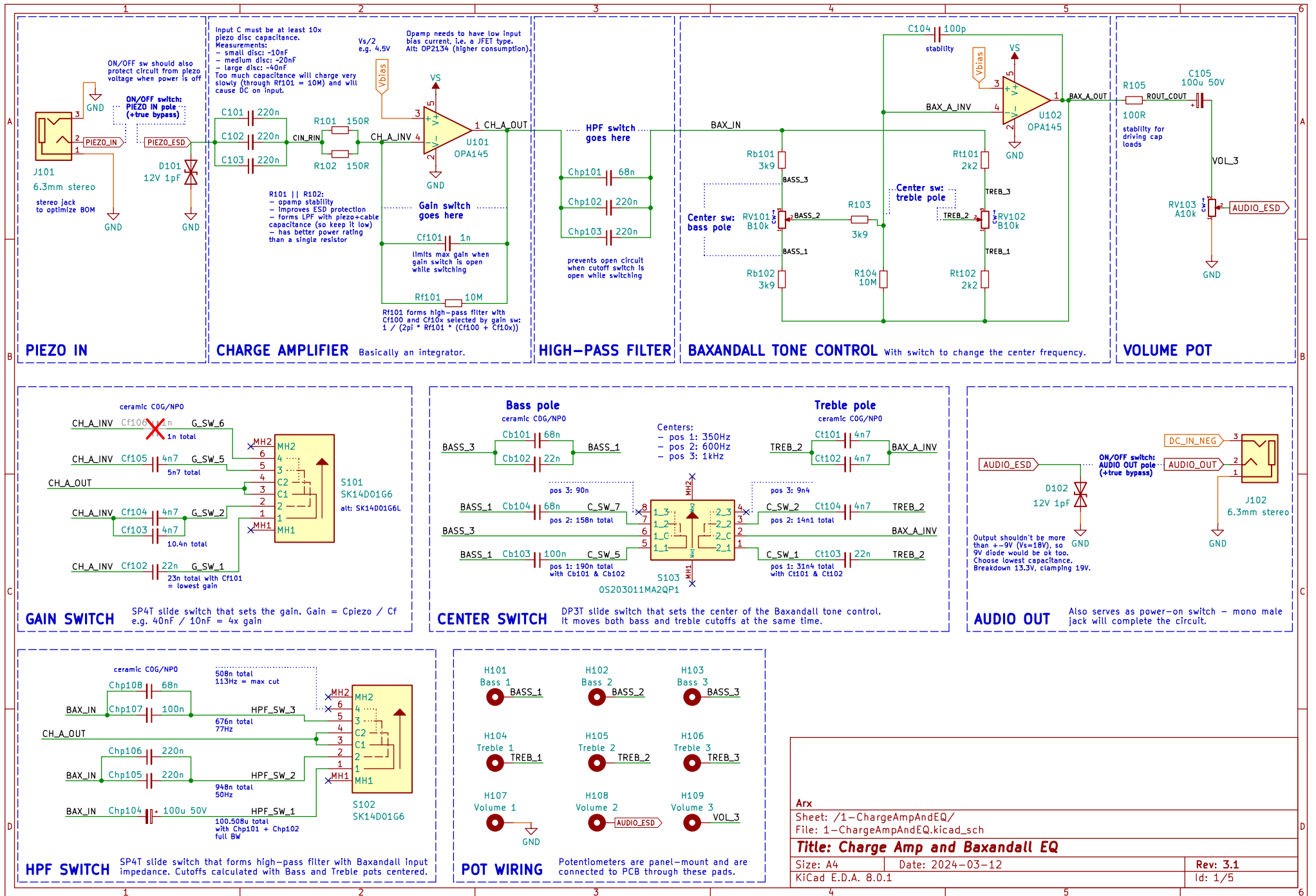
v3.1: minor PCB improvements
v3.0: +ON/OFF sw w/ true bypass, +BI mode sw, + DC jack, external pots, -LED trimpot, changing switches, reducing BOM

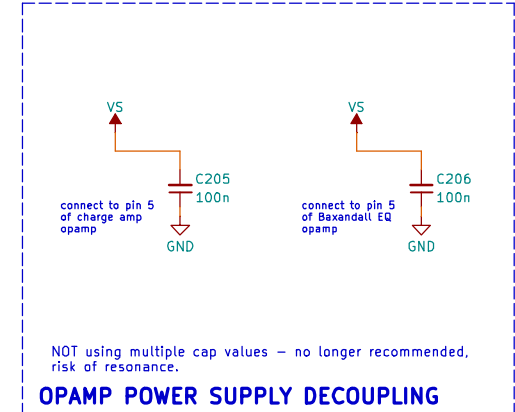
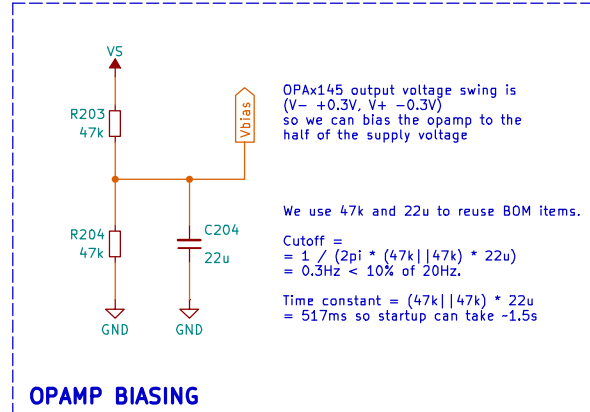
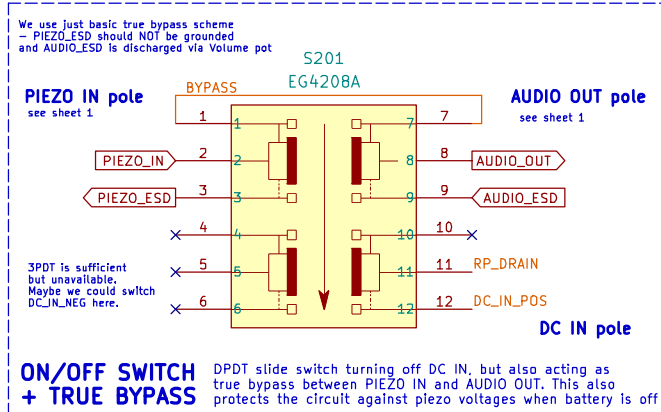
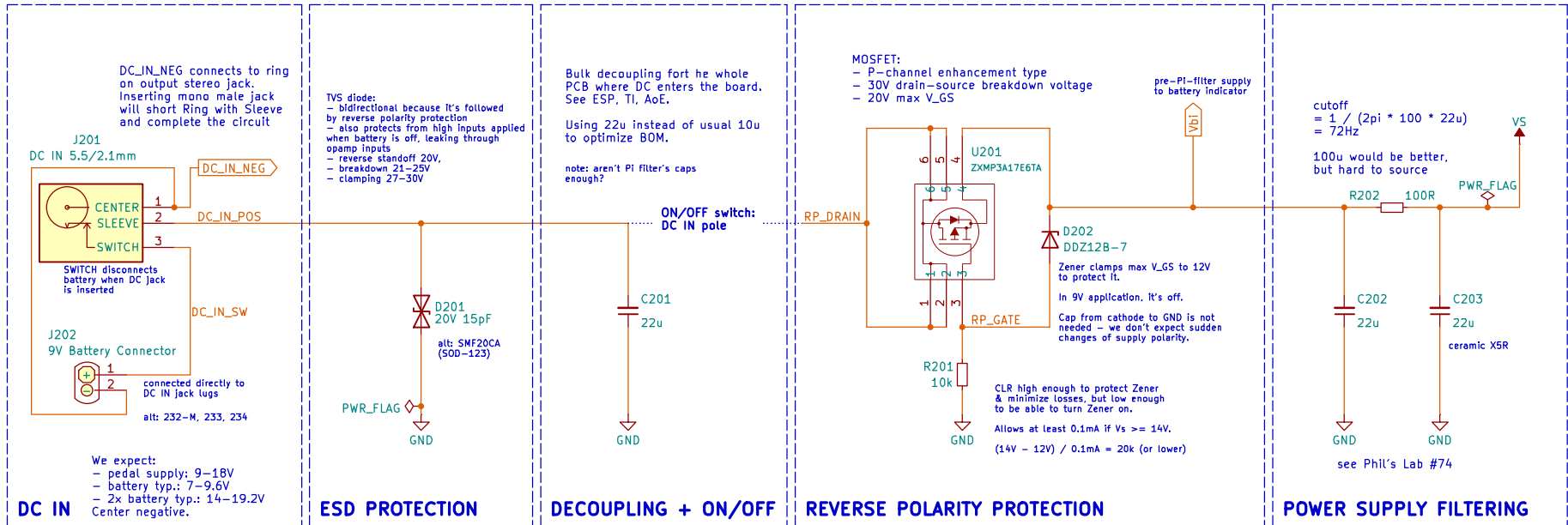
Arx

Sheet: /
File: 2024_PiezoPreamp3.kicad_sch

Title: Piezo Preamp + EQ

Size: A4	Date: 2024-03-12	Rev: 3.1
KiCad E.D.A. 8.0.1	Id: 1/5	





Arx

Sheet: /2-Power/

File: 2-Power.kicad_sch

Title: Power Supply and Opamp Biasing

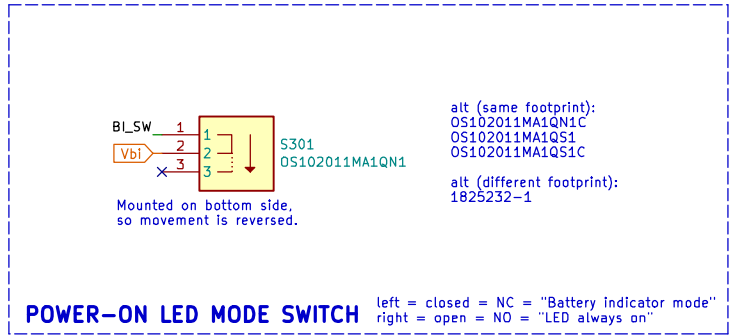
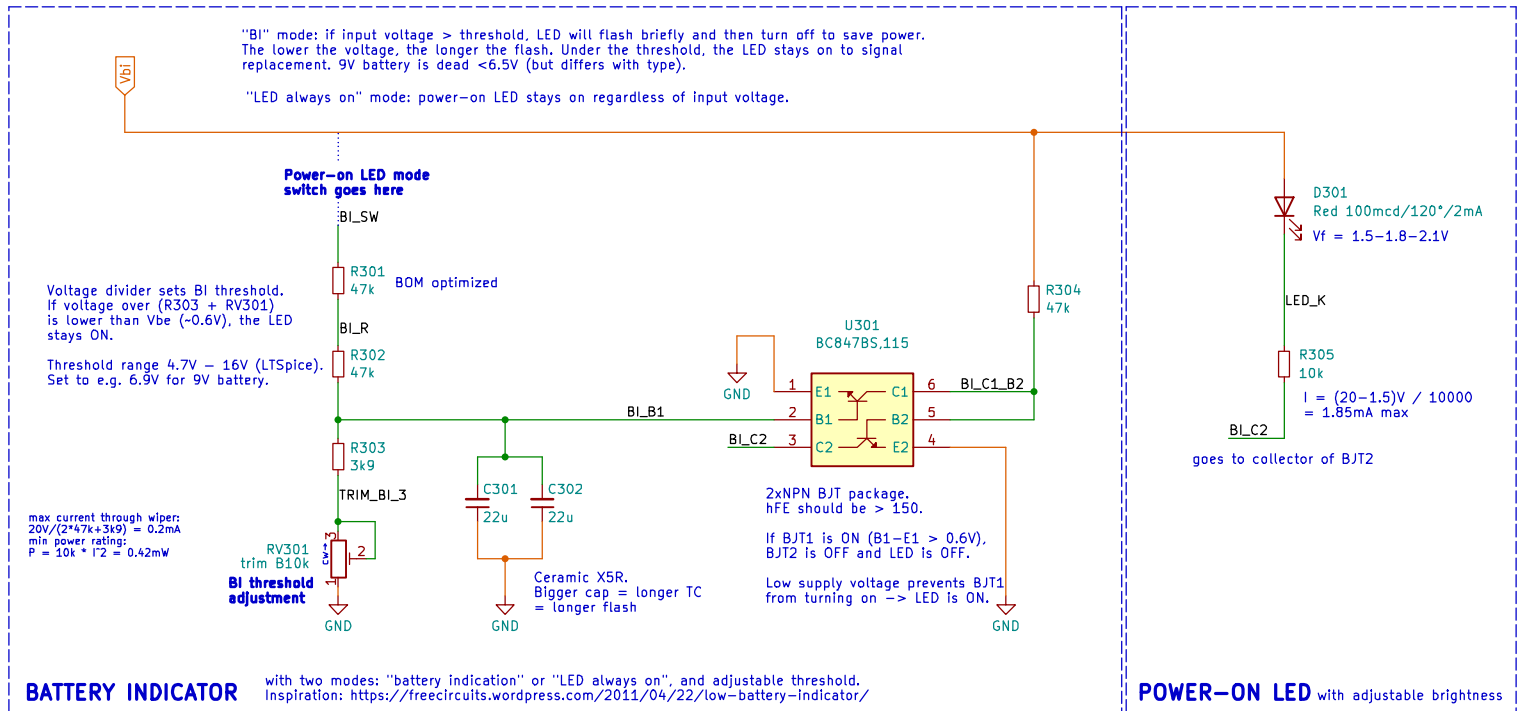
Size: A4

Date: 2024-03-12

Rev: 3.1


KiCad E.D.A. 8.0.1

Id: 2/5




Arx		
Sheet: /3-BatteryIndicator/		
File: 3-BatteryIndicator.kicad_sch		
Title: Battery & Power Indicator		
Size: A4	Date: 2024-03-12	Rev: 3.1
KiCad E.D.A. 8.0.1		Id: 3/5


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




H401
M2.5 MountingHole_Pad



H402
M2.5 MountingHole




H403
M2.5 MountingHole




H404
M2.5 MountingHole


MOUNTING HOLES




H405
hex M2.5/15mm



H406
hex M2.5/15mm




H407
hex M2.5/15mm




H408
hex M2.5/15mm

Stainless steel or nylon (PA), 15mm, female-female, M2.5, pitch 0.45, hex.


TOP STANDOFFS




H409
M2.5, L=6mm



H410
M2.5, L=6mm




H411
M2.5, L=6mm




H412
M2.5, L=6mm

Stainless steel, flat thin head <1mm, Phillips, M2.5, L=6mm, pitch 0.45.


TOP SCREWS




H413
hex M2.5/20mm



H414
hex M2.5/20mm




H415
hex M2.5/20mm




H416
hex M2.5/20mm

Stainless steel or nylon (PA), 20mm, female-male, M2.5, pitch 0.45, hex.


BOTTOM STANDOFFS




H417
M2.5, L=6mm



H418
M2.5, L=6mm




H419
M2.5, L=6mm



H420
M2.5, L=6mm

Stainless steel, flat thin head <1mm, Phillips, M2.5, L=6mm, pitch 0.45.

BOTTOM SCREWS




J401
Spring Contact

Battery spring pushing against enclosure. Can be used as a single point of grounding.

One point of contact with enclosure is ideal, but we can also use two (spring and mounting hole + pad + metal standoff).

GROUNDING SPRING




H421
LED light guide


alt:
FIX-LEMB2-4.8V0-F
FIX-LEMB2-7V0-F
FIX-LEMB2-8V0-F
FIX-LEMB2-10V0-F

guides power LED light to the top cover of enclosure


LED LIGHT GUIDE




H422
9V battery holder
alt: Keystone 71 (bit too short)




H423
M2, H=3, locking




H424
M2, H=3, locking




H425
Washer, H=0.35, D=5



H426
Washer, H=0.35, D=5



H427
M2, L>7mm



H428
M2, L>7mm

fastened to the bottom side of PCB

BATTERY HOLDER

what's missing:
- knobs for pots