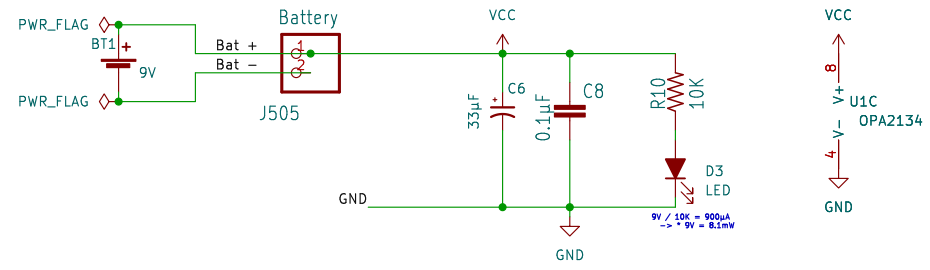


v0.3.1 corrected PCB front silkscreen issue
where the battery input pins were labeled backwards

Pin-compatible substitute op-amps:

- LT1113: \$10.77
- SSM2135: 9.50
- AD712: 5.95
- AD823: 5.26
- OPA2134: 4.67 *short-lived; called out in original BOM*
- OP275: 4.06
- TLE2072: 1.67 *ordered 4 for testing*
- LM4562MAX: 1.42 *used in earlier and current builds*
- NE5532: 0.46 *ordered 5 for testing*
- MC33078: 0.40
- LF353: 0.35
- LF453, NE5533, SSM2275: unavailable

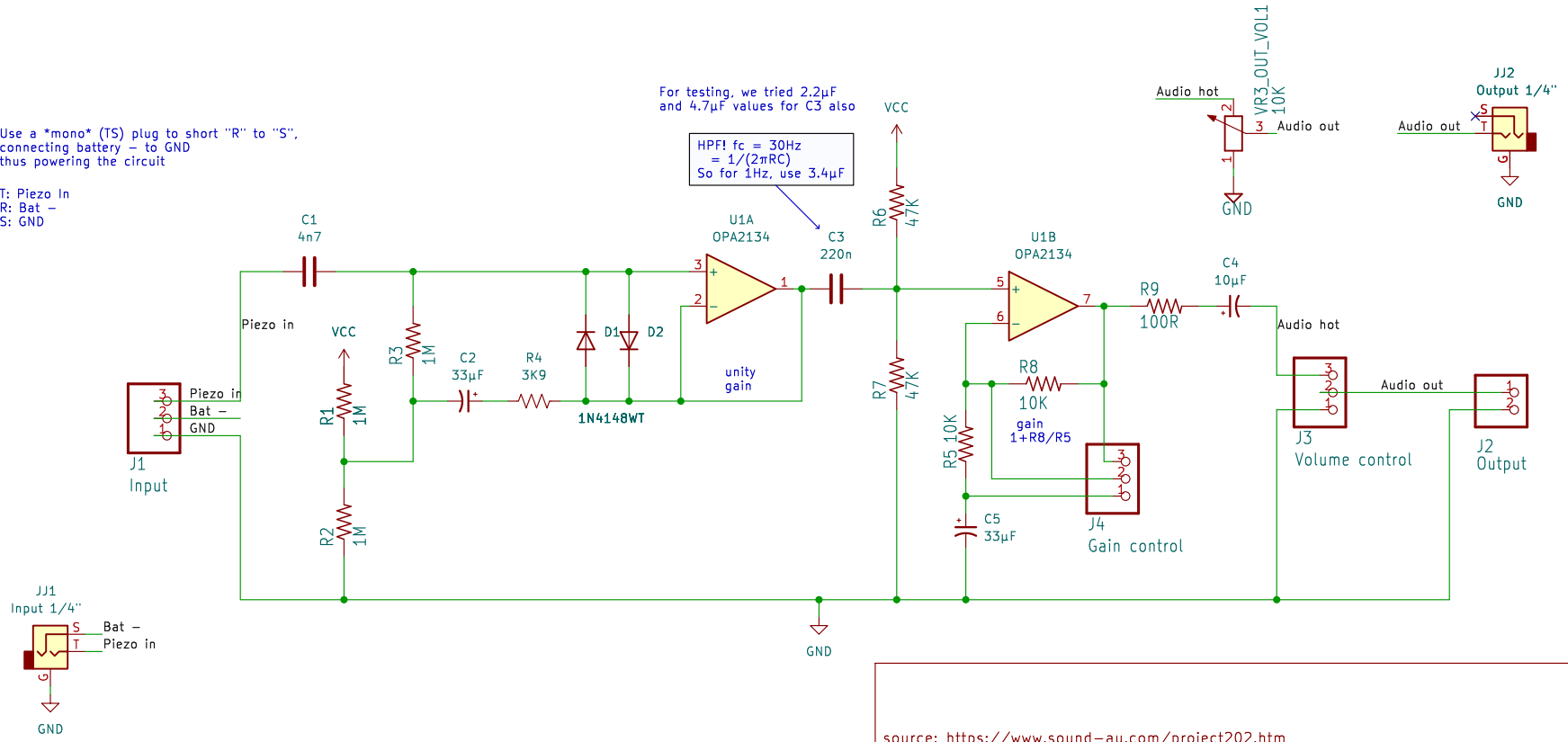


Use a *mono* (TS) plug to short "R" to "S",
connecting battery - to GND
thus powering the circuit

T: Piezo In
R: Bat -
S: GND

For testing, we tried 2.2µF
and 4.7µF values for C3 also

HPF! $f_c = 30\text{Hz}$
 $= 1/(2\pi RC)$
So for 1Hz, use 3.4µF



source: <https://www.sound-au.com/project202.htm>

drawn by Charles B. Malloch, PhD

Sheet: /

File: piezo_preamp.kicad_sch

Title: piezo preamp

Size: USLetter Date: 2024-06-03

KiCad E.D.A. 8.0.3

Rev: 0.3.1

Id: 1/1