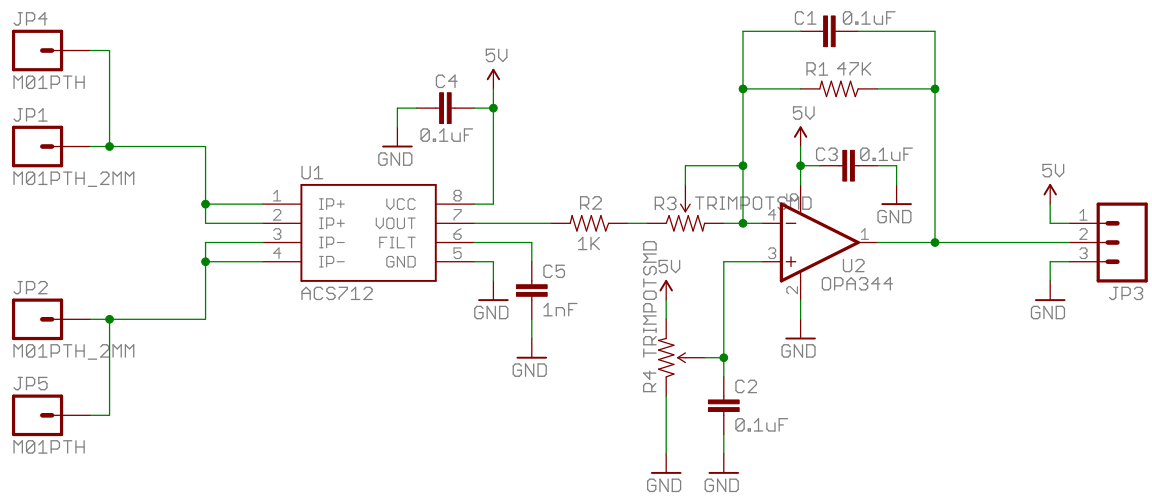Note 1: R4 turns clockwise to increase output reference voltage
Note 2: R3 turns counter-clockwise to increase gain
Note 3: Remove C1 for full 80KHz bandwidth

JP4
M01PTH

JP1
M01PTH_2MM

JP2
M01PTH_2MM

JP5
M01PTH

C4
0.1uF
GND

5V

U1
1 IP+   VCC 8
2 IP+   VOUT 7
3 IP-   FILT 6
4 IP-   GND 5
ACS712

GND

C5
1nF
GND

R2
1K

R3 TRIMPOTSMD

R4 TRIMPOTSMD

5V

C2
0.1uF
GND   GND

C1 0.1uF

R1 47K

5V

C3 0.1uF
GND

U2
OPA344

5V

JP3
1
2
3
GND