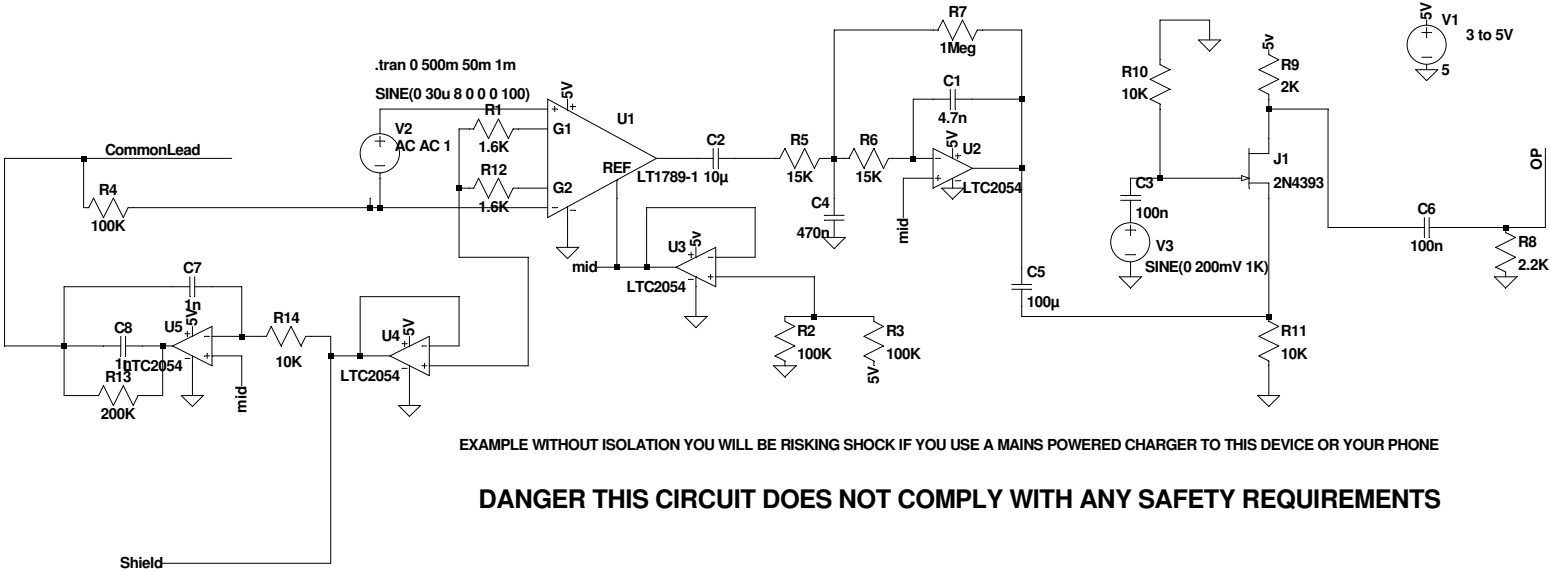# EXPERIMENTAL CIRCUIT ONLY

R4 IS NOT FITTED, IT REPRESENTS THE VICTIM!
NOTE V2 Represents EEG input

NOTE V3 Represents 400mv p-p 1KHz Tone from your phone

.tran 0 500m 50m 1m

SINE(0 30u 8 0 0 0 100)

CommonLead

R4
100K

V2
AC AC 1

R1
1.6K

R12
1.6K

G1
G2

U1
REF
LT1789-1

C2
10μ

R5
15K

R6
15K

R7
1Meg

C1
4.7n

U2
LTC2054

R10
10K

R9
2K

V1
3 to 5V
5

C4
470n

mid

J1
2N4393

C3
100n

V3
SINE(0 200mV 1K)

OP

C6
100n

R8
2.2K

C7
1n

C8
1n

U5
LTC2054

R13
200K

R14
10K

U4
LTC2054

mid

U3
LTC2054

R2
100K

R3
100K

C5
100μ

R11
10K

Shield

EXAMPLE WITHOUT ISOLATION YOU WILL BE RISKING SHOCK IF YOU USE A MAINS POWERED CHARGER TO THIS DEVICE OR YOUR PHONE

DANGER THIS CIRCUIT DOES NOT COMPLY WITH ANY SAFETY REQUIREMENTS

--- C:\Users\rowatc\Desktop\eeg4.asc ---