Potentiometer Size	Turning Clockwise gives gain	Turning Counterclockwise gives gain	Least Possible Resistance	Most Possible Resistance	Cutoff Resistance	Ideal Resistances Tested - #1	Ideal Resistances Tested - #2	Clipping Resistance
0.5 MΩ	Minimum	Maximum	0.3 Ω	0.49 MΩ	15.8 Ω	4.67 KΩ	9.5 KΩ	24.3 ΚΩ
1 MΩ	Maximum	Minimum	0.8 Ω	1.059 MΩ	11.4 Ω		N/A	
200 ΚΩ	Minimum	Maximum	0.9 Ω	191.1 ΚΩ	N/A	4 ΚΩ	10.26 ΚΩ	15.17 ΚΩ
10 KΩ	Minimum	Maximum	1.0 Ω	10.65 KΩ	0.427 KΩ	5.01 KΩ	2.0 ΚΩ	9.12 KΩ
200 Ω	Maximum	Minimum	0.8 Ω	227.9 Ω			N/A	
50 KΩ	Minimum	Maximum	0.9 Ω	48.8 KΩ	1.155 KΩ	5.05 KΩ	14.76 KΩ	29.3 ΚΩ
25 ΚΩ	Minimum	Maximum	0.8 Ω	23.59 KΩ	1.885 KΩ	5.02 KΩ	9.94 KΩ	14.06 KΩ
1 KΩ	Minimum	Maximum	0.9 Ω	1.0 KΩ			N/A	
0.5 ΚΩ	Minimum	Maximum	0.9 Ω	0.513 ΚΩ			N/A	

Resistance was measured from Pin A to Pin S, which connects the negative feedback loop of the second differential op-amp in the circuit. All resistance calculations were done with the breadboard circuit, and individual, regulated power supply lines of 6V (to the impedance matcher) and 3V (to the preamp). The output resistance was equal to ~0 \, \Omega, and further tests must check that this resistor does not negatively affect the system

C (in F) $\begin{array}{c} R \text{ (in ohm)} \\ 0.1 & 0.1 \\ 0.0000001 & 100000 & 15.9154943092 \end{array}$

Notes

Clipping seems to occur very close to the Cutoff Resistance value, thus an ideal range could not be obtained It was physically impossible to get any value in between the Least Possible Resistance and the Ideal Resistance tested, thus the Cutoff Resistance is (theoretically) in between these two values but unmeasurable

This potentiometer is so small that it failed to give any significant gain boost at any resistance level

This potentiometer was also too small to give a significant gain boost
As expected, this potentiometer was too small to give a significant gain boost

	Error in Potentiometer	Percentage of Posistance to Turn On	Percentage of Peristance That is Clinned	Percentage of Tested Peristance #1 is of Clinning Peristance	Parcentage of Tosted Posistance #2 is of Clinning Posistance			
	Size	Percentage of Resistance to Turn On Percentage of Resistance That is Clipped Percentage of Tested Resistance #1 is of Clipping Resistance Percentage of Tested Resistance #2 is of Clipping Resistance Percentage of Tested Resistance #2 is of Clipping Resistance Percentage of Tested Resistance #2 is of Clipping Resistance Percentage of Tested Resistance #2 is of Clipping Resistance Percentage of Tested Resistance #2 is of Clipping Resistance Percentage of Tested Resistance #2 is of Clipping Resistance Percentage of Tested Resistance Percentage of Tested Resistance Percentage of Tested Resistance #2 is of Clipping Resistance Percentage of Tested Resistance Percentag						
$0.5~\mathrm{M}\Omega$	-2.00%	3.22E-05	95.04%	19.17%	39.06%			
$1~\text{M}\Omega$	5.90%	1.08E-05	N/A	N/A	N/A			
200 ΚΩ	-4.45%	N/A	92.06%	N/A	N/A			
10 ΚΩ	6.50%	4.01%	14.37%	18.10%	52.72%			
200Ω	13.95%	N/A	N/A	N/A	N/A			
50 ΚΩ	-2.40%	2.37%	39.96%	13.84%	48.34%			
25 ΚΩ	-5.64%	7.99%	40.40%	25.75%	66.16%			
1 ΚΩ	0.00%	N/A	N/A	N/A	N/A			
0.5 ΚΩ	2.60%	N/A	N/A	N/A	N/A			