LAB 5 Q & A

1.) How do you know if your mic is in the right orientation?  
 A: Take the mic pins and go to your oscilloscope and use the diode checker option, this will allow you to check the polarity of the mic.

2.) My circuit isn’t working what should I do?

A: First, take out your voltage probes and check your sources to the IC chips. Then see if you missed a pin or swapped them. If this happens you may have blown a chip. If all goes wrong call Cliver.

3.) How do you get the mic amplified signal on the oscilloscope?

A: Since we are outputting a max of -12v to 12v on that stage of the circuit, you will need to fix your scale on the scope to account for that. Your time scale will vary due to the frequencies your sending in, so

1/freq = period

So adjust your time scale to show you roughly your period range in your view space. Both settings can be adjusted by the 2 nobs labled scale.

4.) IM NOT GETTING ANY SCOPE READING!!!!

A: 1 of 2 things, one your time scale is wrong therefore your scope won’t show you your wave or it will give you an weird one cause its scaled badly. Two, have you checked the Cin capacitor? That cap is a high pass filter so at high frequency that cap will function as AC pass and a DC block. Run some calculations through your Tau and break frequency equations and figure out if you chose the right value for your filter.