

EE 43/100 FINAL PROJECT: AN AUDIO AMPLIFIER

Part 2: Audio Amplifier

Report

1 Audio Amp Stage Build your audio amp. When you are satisfied with your circuit, plug in your audio device and your headphones and power it up. Play with the volume knob. How does it sound? You need at least 4 sentences here.

2 Tone Control Circuit Build the tone control circuit. Once you have this built, reconnect your audio player and power it up. Play with the volume, bass, and treble knobs. How does it sound? Write at least 2 sentences here.

3 Measuring the Transfer Function Set the treble, bass, and volume knobs to something interesting (not a flat response – distort it slightly). Set up the signal generator and oscilloscope as described in the lab guide, and measure the transfer function.

Frequency (Hz)	V_{in}	V_{out}	dB
50			
100			
150			
200			
250			
300			
400			
500			
600			
700			
800			
900			
1k			
2k			
4k			
6k			
8k			
10k			
12k			
14k			
16k			
18k			
20k			

