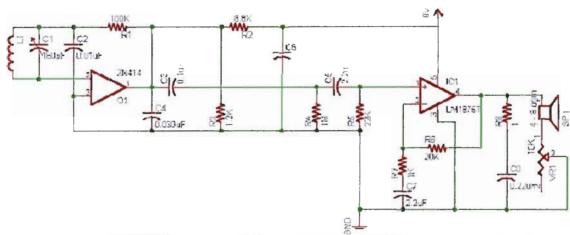
We are planning on building a simple AM radio receiver with a built-in signal amplifier. There is a variable capacitor for adjusting the frequency of the incoming signal and a variable resistor for adjusting the volume of the speaker. A circuit diagram is included below. We will need to purchase several components not available in the lab.



	Description	Qty	Notes
Part			
R1	100K ohm resistor	1	All resistors 5% tolerance
R2	6.8K ohm resistor	1	
R3	1.2K ohm resistor	1	
R4	1M ohm resistor	1	
R5	22K ohm resistor	1	
R6	20K ohm resistor	1	
R7	1K ohm resistor	1	
R8	1 ohm resistor	1	
C1	160pF variable capacitor	1	
C2	0.01uF ceramic capacitor	1	
C3, C6	0.1uF ceramic capacitor	2	
C4	0.039uF ceramic capacitor	1	
C5, C7	2.2uF bipolar electrolytic capacitor	2	
C8	0.22uF ceramic capacitor	1	
VR1	10K potentiometer	1	Substitute: >1K<100K
L1	Broadcast band ferrite rod antenna coil	1	
Q1	ZN414 AM radio receiver IC	1	Substitute: MK484
IC1	LM1875 audio amplifier IC	1	
SP1	4-8 ohm speaker	1	Must be low wattage
9V	9V battery	1	