Regulated DC Supply

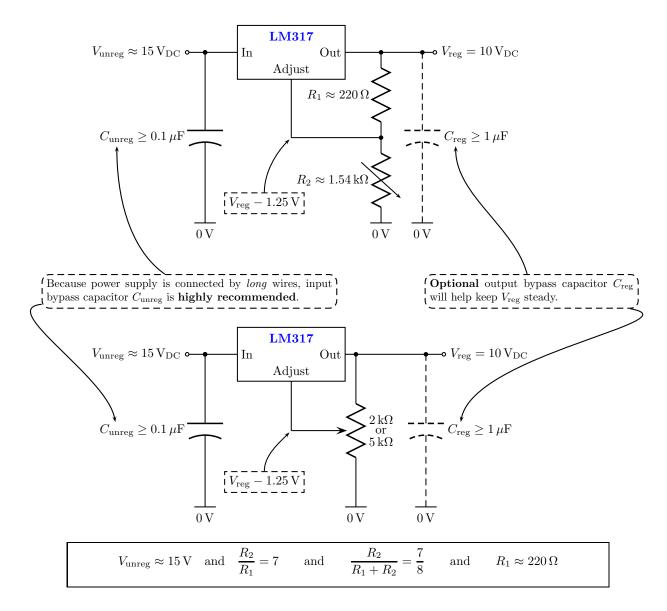
Lab 4: Oscillators

ECE 327: Electronic Devices and Circuits Laboratory I

1 Regulated $10 V_{DC}$ Supply

A single regulated supply powers every transmitter component. Receiver components use a separate supply.

- 1. Isolate two separate sets of 0 V and 10 V supply rails on your breadboard (or use two breadboards).
- 2. Connect LM317 regulated output to transmitter supply rail.
- 3. Connect unregulated DC supply (e.g., $15 V_{DC}$) to LM317 input. Make connection easy to find later.
- 4. A large bypass capacitor (e.g., $1-10 \,\mu\text{F}$) may be placed *near* LM317 from Adjust to ground.
- 5. A $\sim 0.1 \,\mu\text{F}$ bypass capacitor to ground can be placed at the 10 V input to each circuit component.





A Parts

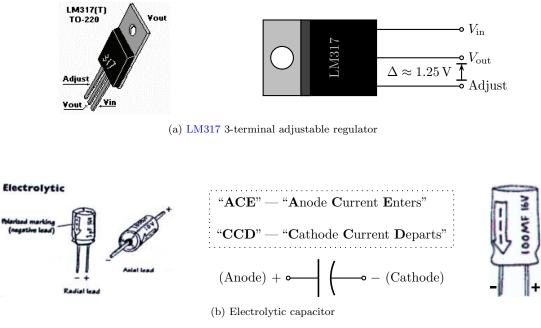


Figure A.1: Part pin-outs.