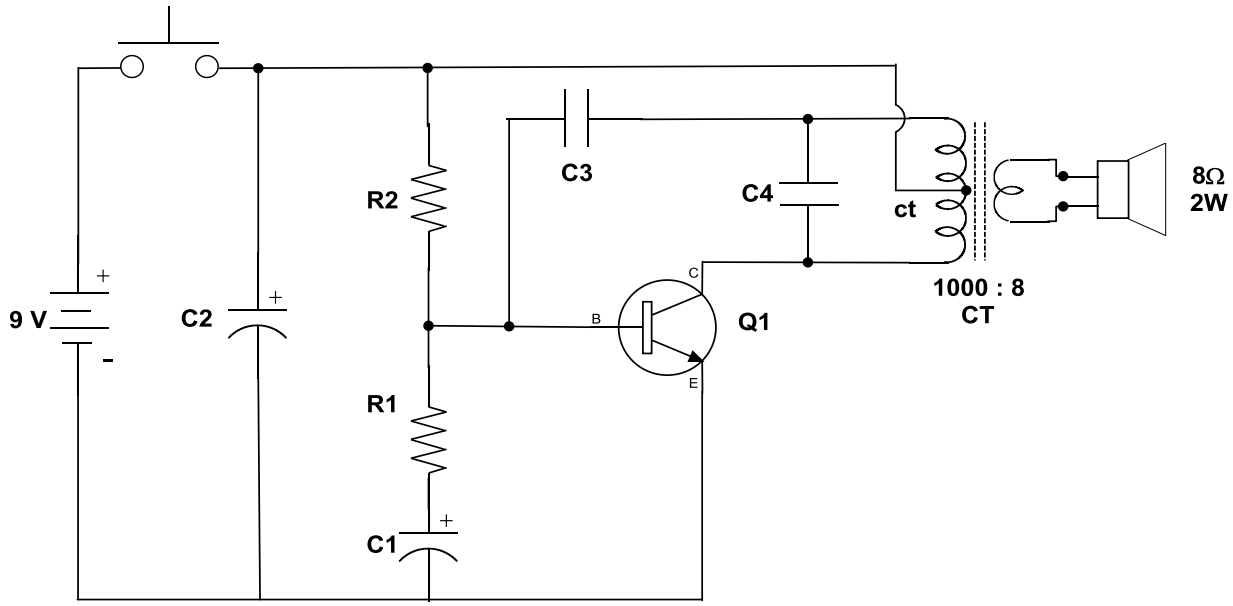
PACE Electrical Engineering

Electronic Canary Project



Parts List

R1	4.7 kΩ
R2	47 kΩ
C1,C2	100 µF
C3	10 nF
C4	22 nF
Q1	2N2222 NPN transistor

Description

When the button S1 is pushed the circuit makes a sound that resembles a chirping canary. The sound gradually dies down after the button is released.

Instructions

1. Augment the above list with all the other parts needed to actually build the circuit. For example, the transformer, breadboard, wire, battery holder, etc.
2. Collect all the parts. Make sure that you have them all and that they are the correct parts.
3. Collect any tools you need.
4. Build the circuit.
5. Test the circuit. Make sure it does what it is supposed to do.
6. Troubleshoot the circuit if it does not work correctly.
7. Once the circuit works correctly, try changing capacitor and resistor values to see what effect they have.

Reference

http://www.sentex.ca/~mec1995/circ/canary.html