



Put a jumper here, or else use a resistor of low value to alter chirp  
 Add "gravel" to voice with fast PWM of the power (i.e. provide power with a high frequency wave. Assymmetric works best). Try an ASMV with 0.22uF and 0.47uF

Transformer of type "split primary, single secondary"  
 (transformer coil magnet)

LT700 type (audio)

Basic bird chirp sound. There are many options for input and control in order to make the chirp more interesting. Connect various points on this circuit to oscillators, for example, to add voice texture, alter the tempo, or switch the chirp on/off.

Schematic indicates places to add variation in chirp pattern  
 A basic "chirping canary" that can be easily modified  
 The first of many experiments into bird song creation

**Kelly Heaton Studio**

Sheet: /  
 File: Bird\_1.sch

**Title: Bird chirp\_1**

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 KiCad E.D.A. kicad 4.0.7

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