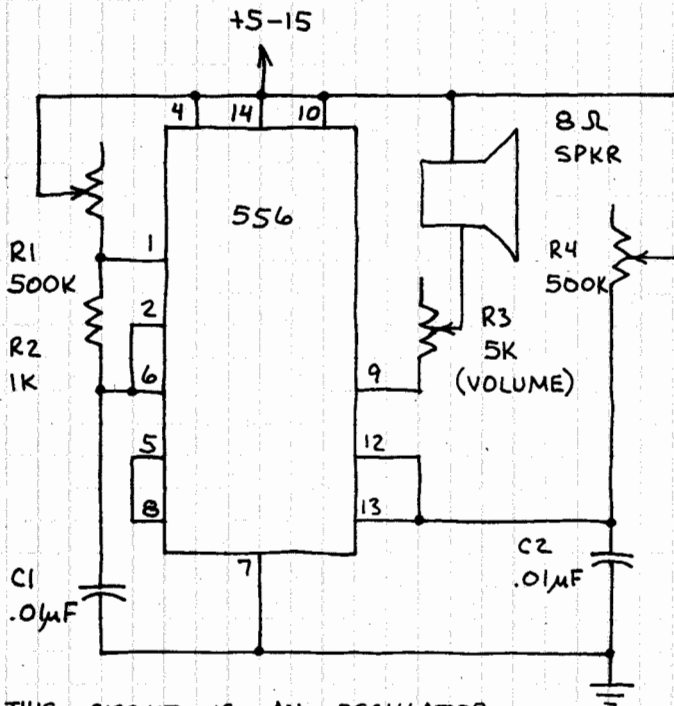


DUAL TIMER (CONTINUED)

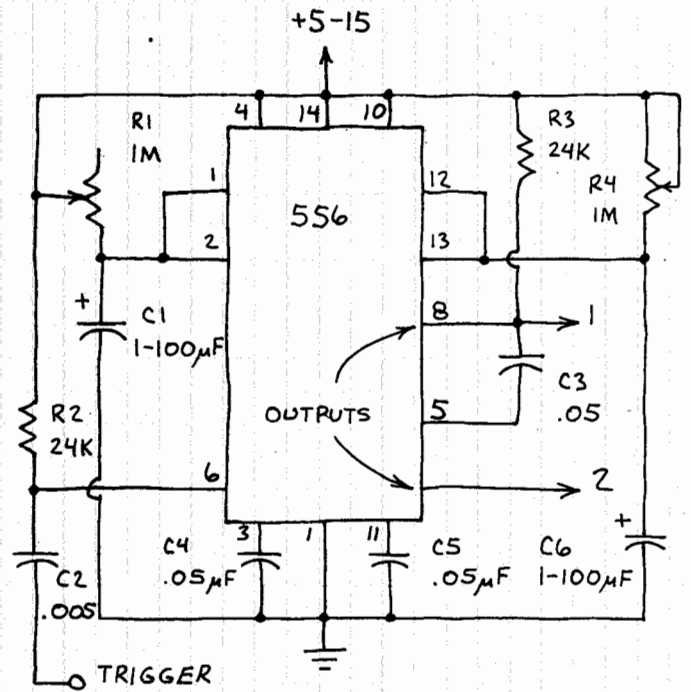
556

SOUND SYNTHESIZER



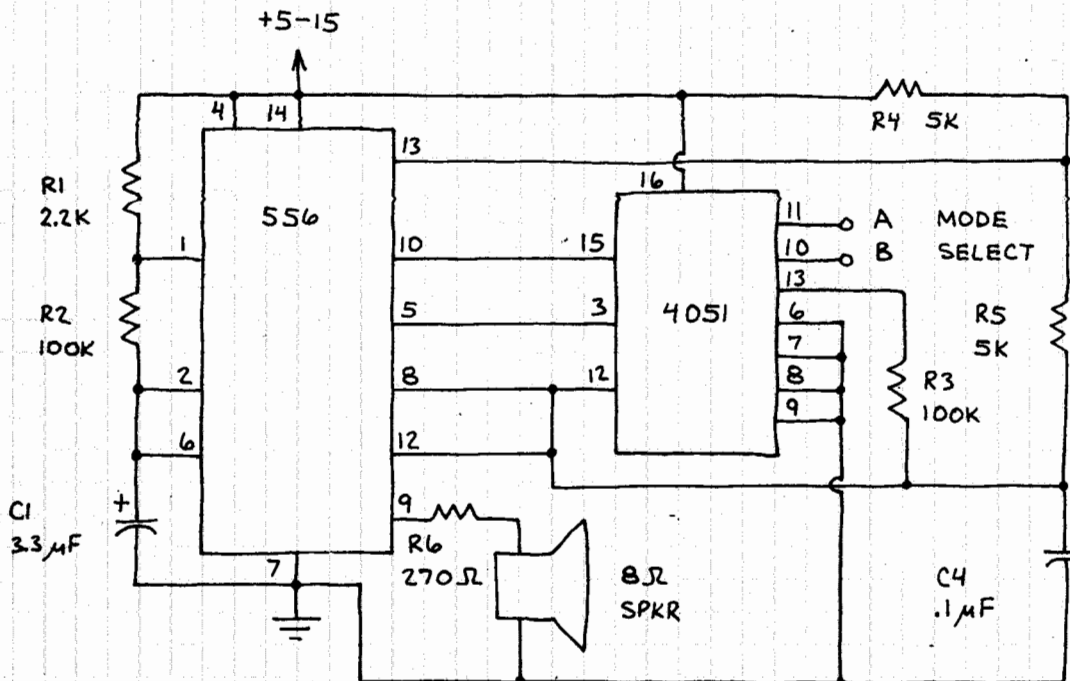
THIS CIRCUIT IS AN OSCILLATOR FOLLOWED BY A FREQUENCY DIVIDER. ADJUST R1 AND R4 FOR VERY UNUSUAL SOUND EFFECTS.

TWO-STAGE TIMER



BOTH TIMERS ARE IN ONE-SHOT MODE. GROUNDING THE TRIGGER INPUT INITIATES THE FIRST TIMER'S CYCLE TIME. THE SECOND TIMER'S CYCLE BEGINS AFTER THE FIRST IS COMPLETE.

PROGRAMMABLE 4-STATE TONE GENERATOR



MODE SELECT	
BA	OUTPUT
L L	TWO-TONE
L H	STEADY
H L	BURST
H H	METRONOME

L = GND
H = +5-15 (V_{DD})

CHANGE C1 AND C4 TO ALTER THE OUTPUT TONES.