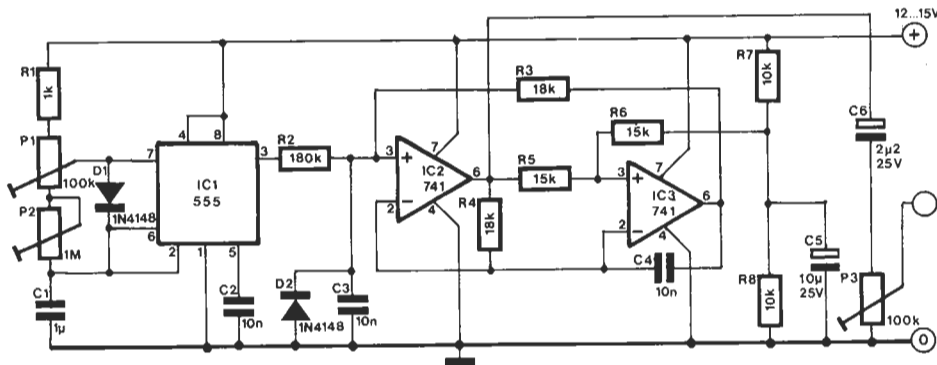


electronic gong 13



This circuit will simulate the sound of a bell or gong and may be used as a replacement for conventional bells in such applications as doorchimes, clocks etc.

The circuit consists of a resonant filter built around IC2 and IC3 which will ring at its resonant frequency when a short pulse is fed to the input. In this circuit the trigger pulses are provided by a 555 timer connected as an astable multivibrator, but other trigger sources may be used depending on the application.

The character of the sound is influenced by two factors; the Q of the filter, which may be varied by changing the value of R2, and the duration of the trigger pulse, which may be adjusted using P1. The repetition rate of the trigger pulses, i.e. the rate at which the gong is 'struck', may be varied using P2. In order to drive a loudspeaker the output of the circuit must be fed through an audio amplifier. The output level may be varied from zero to about 5 V by means of P3.

