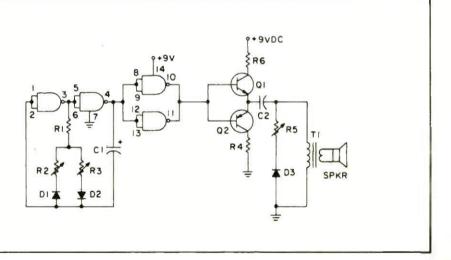
27 Metronome

☐ Transforming IC pulses into sound, this tiny ticker goes both tick and tock, at a rate of about 2

seconds per tic to 6 tocks per second. The timing capacitor, C1, should be a low leakage mylar type

PARTS LIST FOR METRONOME C1-2 to 5-uF low-leakage mylar or tantalum capacitor, 15 VDC C2-2.2 to 10-uF electrolytic capacitor, 15 VDC D1, D2, D3-1N4148 diode IC1-4011A quad NAND gate Q1-2N4401 transistor Q2-2N4403 transistor R1-47,000-ohm, 1/2-watt resistor R2. R3-500.000-ohm linear-taper potentiometer R4. R6-10-ohm, 1/2-watt resistor R5-1,000-ohm linear-taper potentiometer T1—audio output transformer 500ohm primary/8-ohm secondary



of about 2-uF or else a quality tantalum of about going inrush, diode D3 and potentiometer R5 can 4.7-uF. Although the reversed flow of current be added to make the "tock" more definitive in its through the transformer's primary winding causes sound quality. a different sound in the speaker from the positive-