TECHNICAL DESCRIPTION OF MODEL 3 CYCLE COMPUTER

Transmitter Circuit

Signal Pick-up	Magnetic Reed Switch T1
Pulse Generation	Square wave signaling after a single magnetic reed switch engagement, U1-A and U1-B.
Carrier Generation	18kHz generated by C4, R8 and R4.
Electrical Switching	Performed by U2-A, U2-B, U2-C and U2-D, feedback to pulse generator for signal switching.
Signal Transmission	The 20mm coil antenna T1 transmits square signals modulated by 18kHz carrier.

Reception Circuit

Signal Reception	The 10mm coil antenna T3 receives the modulated signal transmitted by T1.
Signal Demodulation	C9, CC9 demodulates the 18kHz carrier.
Signal Pre-amplification	Cascaded amplifiers connected by Q2 to Q7 demodulated signal amplification.
Square Wave Amplification	An amplified pure square recovered by the U3 and send to CPU for signal pick-up.

Main Circuit

CPU	Speed and Clock calculation.
LCD	Feature and artwork display.
Backlight	High voltage boost up by BT6802-2 (U4)