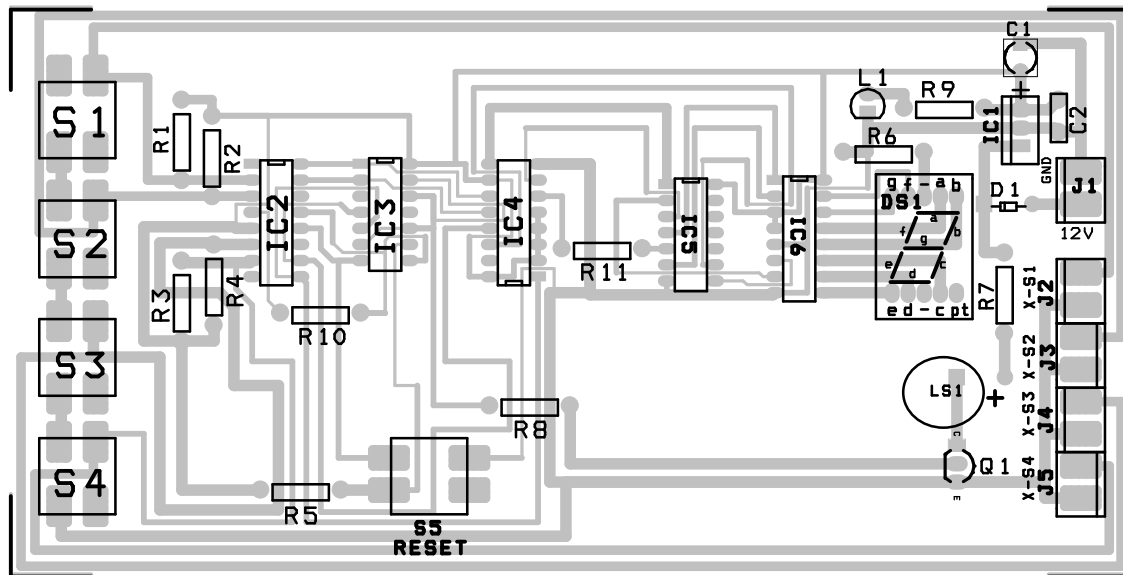
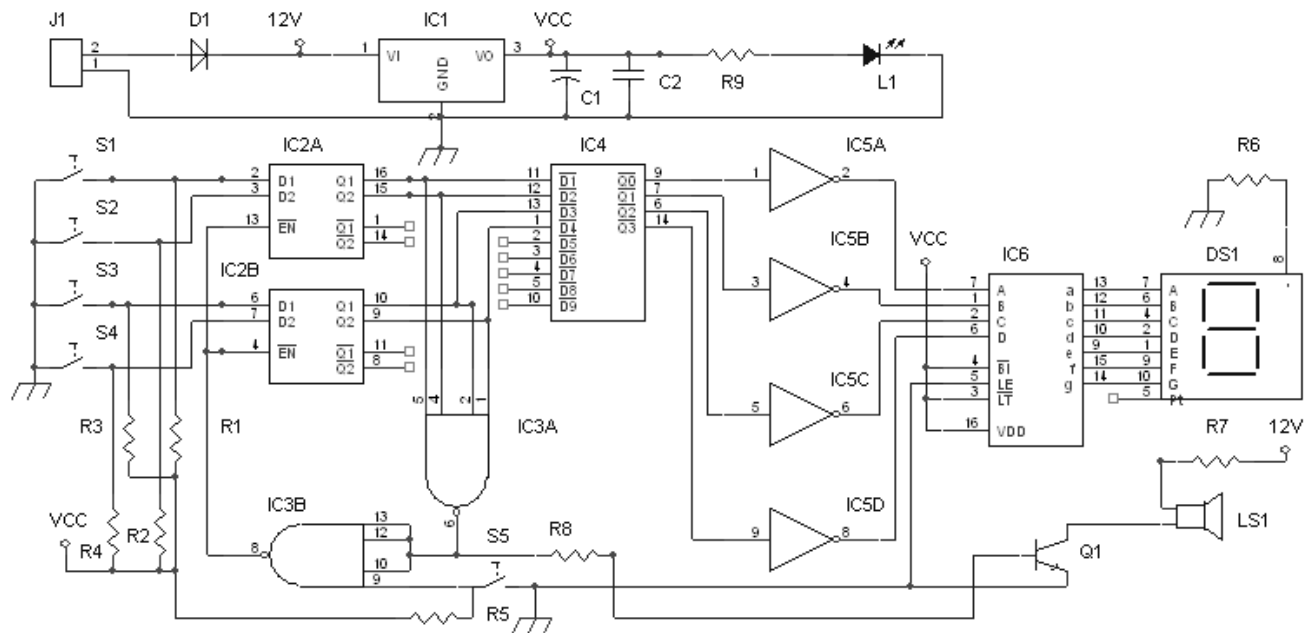


FASTEST FINGER-FIRST INDICATOR

GE 200



BILL OF MATERIALS:

R1→R5: 1K OHM (Brown, Black, Red)
 R6, R9: 330 OHM (Orange, Orange, Brown)
 R7: 100 OHM (Brown, Black, Brown)
 R8: 4,7 K OHM (Yellow, Violet, Red)
 R10, R11: 0 OHM (Black)
 C1: 470 uF 16V
 C2: 220 nF 50V 224
 D1: Signal Diode (1N4007)
 Q1: BC337 (NPN Transistor)
 IC1: 7805 (Voltage Regulator)
 IC2: 74LS75 (4 bit type latch D)
 IC3: 74LS20 (Double 4 NAND gate)

IC4: 74HC147 (10 lines to 4 lines priority encoder)
 IC5: 74LS04 (HEX Inverter)
 IC6: CD4511 (CMOS BCD to 7 segments decoder)
 IC Support 16 * 3
 IC Support 14 * 2
 L1: LED Red 5mm
 DS1: 7 Segments Display common Cathode
 S1→S5: Tact Switch
 LS1: Frequency Buzzer
 J1→J5: Screw Junction
 * J2→J5 are switches extensions.