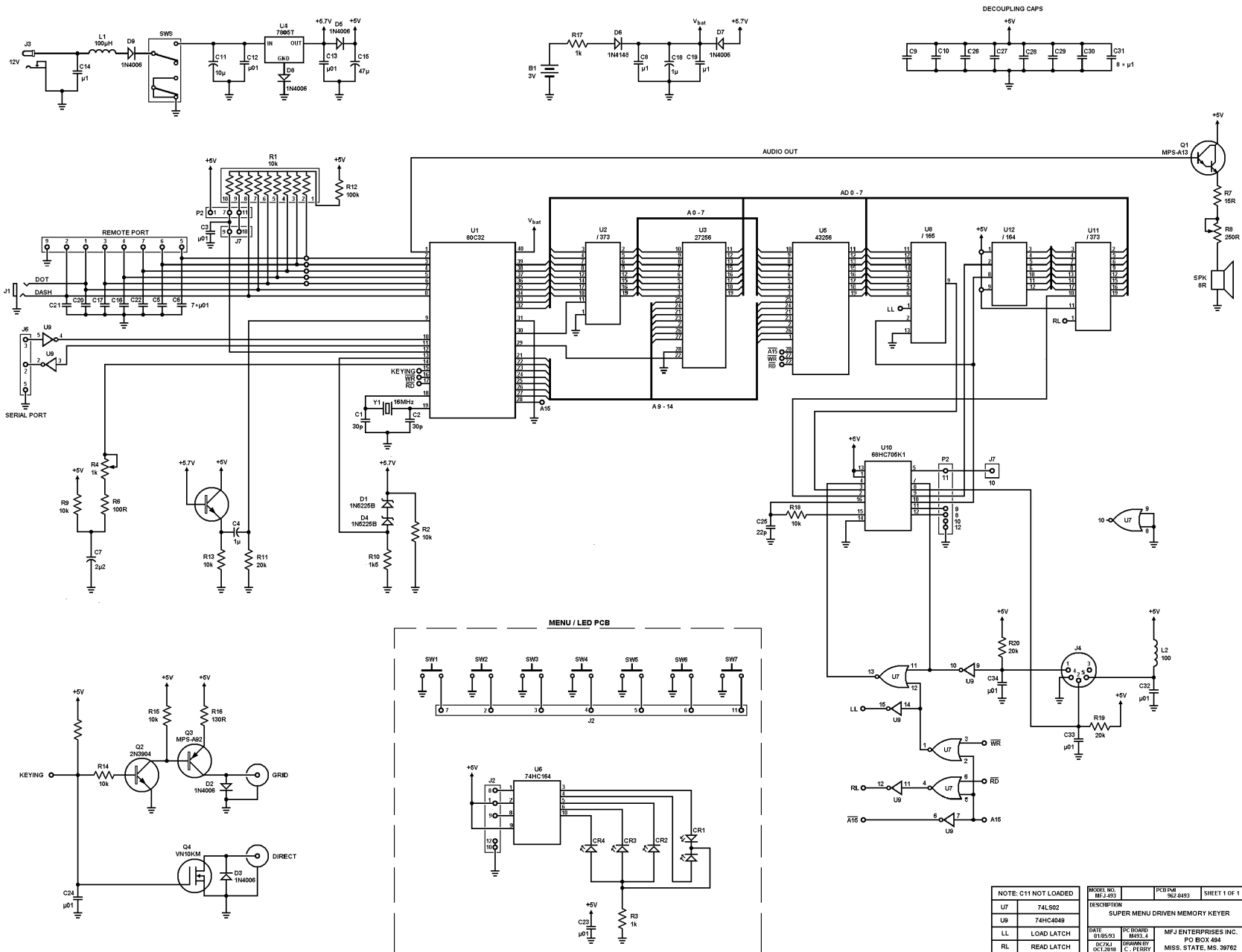




MFJ-493 Parts List

Part Designator	Description
R1	Resistor, Network, SIP, Common, 9 Elements, 10 kOhm
R2, R12	Resistor, 1/4 Watt, 5 %, Film, 100 kOhm
R3, R17	Resistor, 1/4 Watt, 5 %, Film, 1 kOhm
R4	Resistor, Pot, PCS, Linear Taper, 1 kOhm
R5, R11, R19, R20	Resistor, 1/4 Watt, 5 %, Film, 20 kOhm
R6	Resistor, 1/4 Watt, 5 %, Film, 100 Ohm
R7	Resistor, 1/4 Watt, 5 %, Film, 15 Ohm
R8	Resistor, Pot, PCB, Linear Taper, 250 Ohm
R9, R13, R14, R15, R18	Resistor, 1/4 Watt, 5 %, Film, 10 kOhm
R10	Resistor, 1/4 Watt, 5 %, Film, 1.5 kOhm
R16	Resistor, 1/4 Watt, 5 %, Film, 130 Ohm
C1, C2	Capacitor, Multilayer Cer, NPO, 5 %, 50 V, 33 pF
C3, C5, C6, C12, C13, C16	Capacitor, Disc Ceramic, 1 kV, 20 %, .01 μ F
C4, C18	Capacitor, Electrolytic, Radial, 50 V, 1 μ F
C7	Capacitor, Electrolytic, Radial, 35 V, 2.2 μ F
C8, C9, C10, C19, C26, C27	Capacitor, Multilayer, .2, X7R, 10 %, 50 V, .1 μ F
C14	Capacitor, Disc Ceramic, 1 kV, 20 %, .1 μ F
C11	Capacitor, Electrolytic, Radial, 50 V, 10 μ F
C15	Capacitor, Electrolytic, Radial, 35 V, 47 μ F
C17, C20, C21, C22, C24	Capacitor, Multilayer Cer., NPO, 5 %, 50 V, 33 pF
C23	Capacitor, Disc Ceramic, 1 kV, 20 %, .001 μ F
C25	Capacitor, Disc Ceramic, 50 V, 20 %, 22 pF
C28, C29, C30, C31	Capacitor, Multilayer Cer., NPO, 5 %, 50 V, 33 pF
C32, C33, C34	Capacitor, Disc Ceramic, 1 kV, 20 %, .001 μ F
Q1	Transistor, Darlington, TO-92, NPN, MPS-A13
Q2, Q5	Transistor, General Purpose, NPN, MOT 2N3904
Q3	Transistor, High Voltage, 300 V, PNP, MPS-A92
Q4	Transistor, FET, Switching, VN10KM
Y1	CrystaI, HC18/U, 16 MHz
D1, D4	Diode, Zener, DO-35, 500 mW, 3 V, 1N5225B
D2, D3, D5, D7, D8, D9	Diode, Rectifier, DO-41, 1 A, 1N4006
D6	Diode, Switching, DO-3 5, 10 mW, 1N4148
L1, L2	100 mH

U1	IC, CPU, 40, 8-Bit, INTEL, P80C32-1
U2, U11	IC, HCT 20, Tri-State Octal Latch, 74HCT373
U3	IC, EPROM, 28 Pin, 256K, 21V, CMOS, 27C256
U4	Voltage Regulator, TO-220, +5 Volts, 7805T
U5	IC, RAM, 28 Pin, 32k × 8, 150 nS, 43256-15L
U7	IC, LS, 14, Quad 2-Input Nor Gate, 74LS02
U8	IC, HC, 8 BIT Shift Register, IN, 74HC165
U9	IC, HC, 16, Inverting Hex/Buffer/Conv, 74HC4049
U10	IC CPU, 16 Pin 4 MHz, 68HC705K1
U6, U12	IC, HC, 8 BIT Shift Register, Out, 74HC164
FOR U1	Socket, IC, Low Profile, 40 Pin
FOR U2, U11	Socket, IC, Low Profile, 20 Pin
FOR U3, U5	Socket, IC, Low Profile, 28 Pin
FOR U8, U9, U10	Socket, IC, Low Profile, 16 Pin
FOR U6, U7, U12	Socket, IC, Low Profile, 14 Pin
P2	Jumper, Ribbon, 12 Pos., Singleline
J1	Jack, 1/4" Phone, PCB, Open, Stereo
J2, J5	Jack, RCA Phono, PCB, Single
J3	Jack, 2.1 mm, PCB, DC Coaxial Jack
J4	Connector, DIN, PCB, Rt. Ang, F, 5 Pin
J6	Connector, D-Sub, PCB Rt. Ang, 9 Pin F, DB-9S
J7	Connector, Header, Rt. Ang., .1, 10 Positions
SW1-SW7	Switch, Push Button, 125 VAC, SPST (N.O.) Mem
SW8	Switch, Push Button, PC, .5 A, 125 VAC, 2P2P
FOR SW8	Knob, Plastic, Push Button, .350" Dia, RED
B1	Battery, Coin, 3V, Lithium, (1480)
FOR B1	Holder, Battery, PCB MT, Coin, 3 V, Lithium
SP	Speaker, 2", Round, .2 Watt, 8 Ohm
CR1	LED, 5 mm, Round, Red/Green
CR2, CR3, CR4	LED, 5 MM Round, Red, MV5753