

SOFTY 2 BOM

RefDes	Value	Description	Notes	Supplier Part No.	Quantity
C1,3,9,17,18,22	100nF	Ceramic capacitor			6
C2,6	330pF	Ceramic capacitor			2
C4,16	220nF	Ceramic capacitor			2
C5,13	12nF	Mylar capacitor			2
C7,14	100uF/10V	Electrolytic capacitor (radial)			2
C8	4.7nF	Ceramic capacitor			1
C12	10uF/40V	Electrolytic capacitor (radial)			1
C15	470nF	Ceramic capacitor			1
C19	22pF	Ceramic capacitor			1
C20	Optional	Ceramic capacitor			1
C21	10uF/10V	Electrolytic capacitor (radial)			1
D1	1N914	Small signal silicon diode			1
DZ3	20V	Zener diode			1
IC1	74LS90	Decade counter			1
IC2	74LS73	Dual JK flip flop			1
IC3	74LS93	4-bit binary counter			1
IC4	CD4070B	Quad XOR gate			1
IC5	CD4081B	Quad 2-input AND gate			1
IC6	7495	4-bit shift register			1
IC7	74S287	256 x 4-bit PROM	can use 74S571 or Tesla equivalents		1
IC8,15	CD4503B	Hex 3-state buffer			2
IC9	CD4040B	12-bit binary counter			1
IC10	74LS04	Hex inverters			1
IC11	74LS74	Dual D-type flip-flop			1
IC12,14	74LS157	Quad 2-input multiplexer			2
IC13	7445	BCD to decimal decoder/driver			1
IC16-19	2114	1K x 4-bit SRAM			4
IC20	2102	1K x 1-bit SRAM			1
IC21	74LS123	Dual monostable			1
IC22	M5L2716	2K x 8-bit EPROM			1
IC23	CD4068B	8-input NAND gate			1
IC24	INS8154	128-byte RAM and I/O			1
IC25	INS8060	SC/MP CPU			1
IC26-29	74LS367	Hex tri-state buffer			4
IC30	24-pin	ZIF socket			1
IC31	IHL0205D15	DC-DC conveter	incorrectly marked IC32 on PCB		1
J1,2	3.5mm 2-pole (mono)	PCB jack socket	Cassette input/output	Cliff FCR1281	2
JA	26-pin	Header	ROMULATOR		1
JB	20-pin	Header	EXTERNAL		1
LK1		Link	CDE		1
LK2		Link	FGH		1
LK3		Link	AB		1
M1	Astec UM1111 or UM1233	Modulator			1
R1,4,7,18,19,20,23,32,33	4K7	250mW resistor	R4 to be hard wired due to PCB error		9
R2	18K	250mW resistor			1
R3,10,31,45	47K	250mW resistor			4
R49,R53,R54	2K2	250mW resistor			3
R16,51	100R	250mW resistor			2
R11	22K	250mW resistor			1
R12,13	6K8	250mW resistor			1
R14,41,42	1K0	250mW resistor			3
R15,44,47	10K	250mW resistor			3
R17a	330R	250mW resistor			1
R17b	3K9	250mW resistor			1
R21	560K	250mW resistor			1
R22	910K*	250mW resistor	value selected to get 50mS pulse from IC21.1 pin 13 during BURN		1
R24-30	3K3 x 7	Resistor network		4608X-101-332	1
R34-40	10K x 7	Resistor network		4608X-101-103	1
R43	100K	250mW resistor			1
R5,48	1K5	250mW resistor			2
R50	1K2	250mW resistor			1
R52	220R	250mW resistor			1
RV1	220K	Preset			1
S1	5-way DP	DIL switch		SDC-5-014	1
S2-29	6 x 6 x 4.3mm	Tactile switch			28
SK1	2.1mm	Power jack socket	+5V DC Power In	RS 448-382	1
SK2		Phono jack socket	Video	CPC PSG01544	2
TR1,4,6,7	BC182B	NPN transistor	(don't use BC182L)		4
VR1	LM340LAZ5.0	5V Regulator			1
XTAL	4MHz HC49u	Crystal			1
IC1,2,3,4,5,6,10,11,23	14-pin	DIL socket			9
IC7,8,9,12,13,14,15,20,21,26,29	16-pin	DIL socket			13
IC16,17,18,19	18-pin	DIL socket			4
IC22	24-pin	DIL socket			1
IC24,25	40-pin	DIL socket			2