

SCA C84 Bill of Material								Rev 1.6
Item	Qty	Ref	Value	Description	Mfg	Mfg Part Number	Source	Cat Number
1	1	C1	220pF	221J C0G Ceramic	Kemet	C315C221J1G5TA	Digi-Key	399-4163-ND
2	2	C2,C3	1000pF	102J C0G Ceramic	Kemet	C320C102J1G5TA	Digi-Key	399-4257-ND
3	2	C4,C7	100uF/ 50V	Bi-Polar Electrolytic	Nichicon	UVP1H101MPD	Mouser	647-UVP1H101MPD
4	2	C5,C6	1uF/ 63V	Polypropylene	BC	2222 416 71005	Digi-Key	BC2076-ND
5	13	C8 - C12, C15 - C22	100pF	101J C0G Ceramic	Kemet	C315C101J2G5TA	Digi-Key	399-4141-ND
6	4	C13,C14,C31,C32	470nF	474 Polyester Film	Panasonic	ECQ-V1H474JL	Digi-Key	P4671-ND
7	4	C23,C25,C27,C29	100uF/ 35V	Aluminum Electrolytic	Panasonic	EEU-FC1V101	Digi-Key	P10294-ND
8	7	C24,C26,C28,C30,C34,C38,C43	0.1uF	104K X7R Ceramic	Kemet	C320C104K5R5TA	Mouser	80-C320C104K5R
9	2	C33,C37	1500uF/ 50V	Aluminum Electrolytic	Panasonic	ECO-S1HA152BA	Digi-Key	P7468-ND
10	2	C35,C39	47uF/ 50V	Aluminum Electrolytic	Panasonic	EEU-FC1H470	Digi-Key	P10321-ND
11	2	C36,C40	22uF/ 35V	226/ 35 Tantalum	Kemet	T356K226K035AT	Digi-Key	399-3670-ND
12	2	C41,C42	100uF/ 63V	Aluminum Electrolytic	Panasonic	EEU-FC1J101	Digi-Key	P10342-ND
13	6	C44,C45,C46,C47,C48,C49	1uF/ 35V	105/ 35 Tantalum	Kemet	T350A105K035AT	Digi-Key	399-3529-ND
14	1	CONN1		XLR-F	Neutrik	NC3FBHR2	Brill	NC3FBHR2
15	1	CONN2		XLR-M	Neutrik	NC3MBHR	Brill	NC3MBHR
16	19	D1 - D19	1N4002	Rectifier Diode	Fairchild	1N4002	Mouser	512-1N4002
17	2	J1,J2		3 Pin Header	Molex	22-28-4030	Digi-Key	WM6403-ND
18	2			Shorting Jumpers	Sullins	STC02SYAN	Digi-Key	S9000-ND
19	1	J3		6 Pin Header	Molex	26-60-4060	Digi-Key	WM4624-ND
20	1			Connector Housing	Molex	09-50-8061	Digi-Key	WM2126-ND
21	1			Crimp Terminals	Molex	08-50-0106	Digi-Key	WM2300-ND
22	2	L1,L2	102J	1000uH Inductor	JW Miller	RL181S-102J-RC	Digi-Key	M10064-ND
23	2	L3,L4		Load Isolator	Jensen	JT-OLI-3	Jensen	JT-OLI-3
24	2	Q1,Q2	LM394	NPN Super Matched Pair	National	LM394CH	Digi-Key	LM394CH-ND
25	2	Q3,Q7	BC560	PNP Bipolar	Fairchild	BC560	Mouser	512-BC560
26	2	Q4,Q8	BC550	NPN Bipolar	Fairchild	BC550	Mouser	512-BC550
27	2	Q5,Q9	MJE182	NPN Power	Fairchild	MJE182	Mouser	511-MJE182
28	2	Q6,Q10	MJE172	PNP Power	Fairchild	MJE172	Mouser	511-MJE172
29	3	R1,R2,R17	10R0	Brown-Black-Black-Gold-Brown	Yageo	MFR-25FBB-10R5	Digi-Key	10.0XBK
30	2	R3,R4	6K65	55D 6K65 B	IRC	RC55LF-D-6K65-B-B	Mouser	66-RC55LF-D-6.65K
31	2	R5,R6	750	55D 750 B	IRC	RC55LF-D-750-B-B	Mouser	66-RC55LF-D-750
32	1	R7	3R3	Orange-Orange-Gold-Gold	Yageo	CFR-25JB-3R3	Digi-Key	3.3QBK-ND
33	5	R8,R43,R44,R54,R55	1R8	Brown-Gray-Gold-Gold	Yageo	CFR-25JB-1R8	Digi-Key	1.8QBK-ND
34	1	R9	1R0	Brown-Black-Gold-Gold	Yageo	CFR-25JB-1R0	Digi-Key	1.0QBK-ND
35	1	R10	680	Blue-Gray-Black-Black-Brown	Xicon	271-680-RC	Mouser	271-680-RC
36	1	R11	350	Orange-Green-Black-Black-Brown	Xicon	271-350-RC	Mouser	271-350-RC
37	1	R12	187	Brown-Gray-Violet-Black-Brown	Yageo	MFR-25FBB-187R	Digi-Key	187XBK
38	1	R13	105	Brown-Black-Green-Black-Brown	Yageo	MFR-25FBB-105R	Digi-Key	105XBK
39	1	R14	57R6	Green-Violet-Blue-Gold-Brown	Yageo	MFR-25FBB-57R6	Digi-Key	57.6XBK
40	1	R15	32R4	Orange-Red-Yellow-Gold-Brown	Yageo	MFR-25FBB-32R4	Digi-Key	32.4XBK
41	1	R16	17R8	Brown-Violet-Gray-Gold-Brown	Yageo	MFR-25FBB-17R8	Digi-Key	17.8XBK
42	1	R18	5R6	Green-Blue-Gold-Gold	Yageo	CFR-25JB-5R6	Digi-Key	5.6QBK-ND
43	1	R19	100	Potentiometer	Bourns	3296Y-1-101LF	Digi-Key	3296Y-101LF-ND
44	2	R20,R21	1K00	55D 1K B	IRC	RC55LF-D-1K-B-B	Mouser	66-RC55LF-D-1.00K
45	1	R22	1K00	Brown-Black-Black-Brown-Brown	Yageo	MFR-25FBB-1K00	Digi-Key	1.00KXBK
46	10	R23,R24,R27,R28,R36,R37,R47,R48,R60,R61	10K0	Brown-Black-Black-Red-Brown	Yageo	MFR-25FBB-10K0	Digi-Key	10.0KXBK
47	2	R25,R26	1K58	55D 1K58 B	IRC	RC55LF-D-1K58-B-B	Mouser	66-RC55LF-D-1.58K
48	3	R29,R30,R31	2K74	Red-Violet-Yellow-Brown-Brown	Yageo	MFR-25FBB-2K74	Digi-Key	2.74KXBK
49	1	R32	10K	Potentiometer	Bourns	91A1A-B24-D15	Digi-Key	91A1A-B24-D15-ND

50	1	R33	100K	Brown-Black-Black-Orange-Brown	Yageo	MFR-25FBF-100K	Digi-Key	100KXBK
51	4	R34,R35,R58,R59	2M20	Red-Red-Black-Yellow-Brown	Xicon	271-2.2M-RC	Mouser	271-2.2M-RC
52	2	R38,R49	100	Brown-Black-Black-Black-Brown	Yageo	MFR-25FBF-100R	Digi-Key	100XBK
53	4	R39,R46,R51,R57	20K0	Red-Black-Black-Red-Brown	Yageo	MFR-25FBF-20K0	Digi-Key	20.0KXBK
54	2	R40,R50	475K	Yellow-Violet-Green-Orange-Brown	Yageo	MFR-25FBF-475K	Digi-Key	475KXBK
55	4	R41,R42,R52,R53	4K75	Yellow-Violet-Green-Brown-Brown	Yageo	MFR-25FBF-4K75	Digi-Key	4.75KXBK
56	2	R45,R56	24R9	Red-Yellow-White-Gold-Brown	Yageo	MFR-25FBF-24R9	Digi-Key	24.9XBK
57	2	R62,R66	15K	Brown-Green-Orange-Gold	Yageo	CFR-25JB-15K	Digi-Key	15KQBK-ND
58	2	R63,R67	1K	Potentiometer	Bourms	3296Y-1-102LF	Digi-Key	3296Y-102LF-ND
59	2	R64,R68	118	Brown-Brown-Gray-Black-Brown	Yageo	MFR-25FBF-118R	Digi-Key	118XBK
60	2	R65,R69	1K24	Brown-Red-Yellow-Brown-Brown	Yageo	MFR-25FBF-1K24	Digi-Key	1.24KXBK
61	2	R70,R71	150	Brown-Green-Black-Black-Brown	Yageo	MFR-25FBF-150R	Digi-Key	150XBK-ND
62	1	SW1		Rotary Switch	Grayhill	71BDF30-02-1-AJS	Grayhill	71BDF30-02-1-AJS
63	1	SW2		SPDT Switch	E-Switch	100AWSP1T2B4M7RE	Digi-Key	EG2435-ND
64	1	SW3		DPDT Switch	E-Switch	100AWDP1T2B4M7RE	Digi-Key	EG2444-ND
65	3	U1,U2,U3		Dual CMOS Op Amp	Burr-Brown	OPA2604AP	Digi-Key	OPA2604AP-ND
66	1	U4		Voltage Regulator, Pos	National	LM317T	Digi-Key	LM317TNS-ND
67	1	U5		Voltage Regulator, Neg	National	LM337T	Digi-Key	LM337TNS-ND
68	2			Heatsink	Aavid	577202B00000	Digi-Key	HS107-ND
69	2			Fluted Knob	Cosmo	39-7747-001-00-3-10	Cosmo	39-7747-001-00-3-10
70	6		#4-40 x 1/4"	Pan head machine screw, trilobe			Olander	4C25PPWZZ
71	2		#4-40	Kepps nut			Olander	4CKNTZR
72	1			PCB	SCA		SCA	