

# SCA N72 Bill of Material

**Rev 3.1**

Item	Qty	Ref	Value	Marking	Description	Manufacturer	Manufacturer's No	Source
1	2	C1, C7	100pF	101 J	C0G Ceramic	Kemet	C315C101J2G5TA	Digi-Key
2	1	C17	220pF	221 J	C0G Ceramic	Kemet	C315C221J1G5TA	Digi-Key
3	1	C19	330pF	331 J	C0G Ceramic	Kemet	C315C331J1G5TA	Digi-Key
4	1	C9	680pF	681 J	C0G Ceramic	Kemet	C315C681J1G5TA	Digi-Key
5	1	C13	1000pF	102 J	C0G Ceramic	Kemet	C320C102J1G5TA	Digi-Key
6	1	C8	1500pF	152 J	C0G Ceramic	Kemet	C320C152J1G5TA	Digi-Key
7	1	C18	4700pF	472 K	X7R Ceramic	Kemet	C315C472K5R5TA	Digi-Key
8	1	C4	.01uF	103 K	X7R Ceramic	Kemet	C315C103K1R5TA	Digi-Key
9	1	C24	0.1uF	104 K	X7R Ceramic	Kemet	C320C104K5R5TA	Digi-Key
10	4	C6, C12, C14, C16	22uF/16V	226 16	Tantalum Electrolytic	Kemet	T350F226K016AT	Digi-Key
11	1	C26	22uF/35V	226 35	Tantalum Electrolytic	Kemet	T356K226K035AT	Digi-Key
12	1	C10	22uF/25V	22uF 25V	Radial Electrolytic	Panasonic	EEA-FC1E220	Digi-Key
13	1	C25	22uF/35V	22uf 35V	Radial Electrolytic	Panasonic	EEU-FC1V220	Digi-Key
14	2	C20, C21	82uF/25V	82uF 25V	Radial Electrolytic	Panasonic	EEU-FC1E820	Digi-Key
15	1	C2	100uF/25V	100uF 25V	Radial Electrolytic	Panasonic	EEU-FC1E101S	Digi-Key
16	2	C29, C30	100uF/ 63V	100uF 63V	Radial Electrolytic	Panasonic	EEU-FC1J101	Digi-Key
17	1	C11	150uF/6.3V	150uF 6.3V	Radial Electrolytic	Panasonic	EEU-FC0J151	Digi-Key
18	1	C15	470uF/10V	470uF 10V	Radial Electrolytic	Panasonic	EEU-FC1A471	Digi-Key
19	1	C3	470uF/25V	470uF 25V	Radial Electrolytic	Panasonic	EEU-FC1E471	Digi-Key
20	1	C23	1500uF/50V	1500uF 50V	Snap-In Electrolytic	Panasonic	ECO-S1HA152BA	Digi-Key
21	1	R20	0	Black	Zero-ohm Jumper	Yageo	ZOR-25-B	Digi-Key
22	1	R49	10	Brown-Black-Black-Gold	Metal Film Resistor 1/4W	Yageo	MFR-25FBB-10R0	Digi-Key
23	1	R7	27	Red-Violet-Black-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-27R	Digi-Key
24	1	R6	56	Green-Blue-Black-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-56R	Digi-Key
25	1	R9	120	Brown-Red-Brown-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-120R	Digi-Key
26	1	R10	147	Brown-Yellow-Violet-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBB-147R	Digi-Key
27	2	R43, R45	150	Brown-Green-Brown-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-150R	Digi-Key
28	1	R14	270	Red-Violet-Brown-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-270R	Digi-Key
29	1	R13	316	Orange-Brown-Blue-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBB-316R	Digi-Key
30	1	R8	330	Orange-Orange-Brown-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-330R	Digi-Key
31	2	R2, R30	390	Orange-White-Brown-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-390R	Digi-Key
32	1	R26	470	Yellow-Violet-Brown-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-470R	Digi-Key
33	1	R1	499	Yellow-White-White-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBB-499R	Digi-Key
34	1	R16	604	Blue-Black-Yellow-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBB-604R	Digi-Key
35	1	R3	680	Blue-Gray-Brown-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-680R	Digi-Key
36	1	R12	825	Gray-Red-Green-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBB-825R	Digi-Key
37	2	R4, R36	1K2	Brown-Red-Red-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-1K2	Digi-Key
38	2	R17, R27	1K5	Brown-Green-Red-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-1K5	Digi-Key
39	1	R31	1K8	Brown-Gray-Red-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-1K8	Digi-Key
40	3	R5, R29, R33	2K2	Red-Red-Red-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-2K2	Digi-Key
41	1	R44	2K7	Red-Violet-Red-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-2K7	Digi-Key
42	1	R37	3K3	Orange-Orange-Red-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-3K3	Digi-Key
43	1	R25	5K1	Green-Brown-Red-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-5K1	Digi-Key
44	1	R11	6K34	Blue-Orange-Yellow-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBB-6K34	Digi-Key
45	2	R46, R47	6K65	55D 6K65 B	Metal Film Resistor 1/4W	IRC	RC55LF-D-6K65-B-B	Mouser
46	2	R28, R50	10K	Brown-Black-Orange-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-10K	Digi-Key
47	2	R15, R38	18K	Brown-Gray-Orange-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-18K	Digi-Key

48	1	R23	33K	Orange-Orange-Orange-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-33K	Digi-Key
49	1	R24	47K	Yellow-Violet-Orange-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-47K	Digi-Key
50	2	R34, R42	56K	Green-Blue-Orange-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-56K	Digi-Key
51	2	R22, R35	68K	Blue-Gray-Orange-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-68K	Digi-Key
52	1	R48	100K	Brown-Black-Yellow-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-100K	Digi-Key
53	1	R21	127K	Brown-Red-Violet-Orange-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-127K	Digi-Key
54	1	R40	47	Yellow-Violet-Black-Gold	Metal Film Resistor 2W	Vishay	5083NW47R00J	Mouser
55	1	R41	3K9	Orange-White-Red-Gold	Metal Film Resistor 2W	Vishay	5083NW3K900J	Mouser
56	1	R39	5K	502	Potentiometer	Bourns	3296Y-502LF-ND	Digi-Key
57	1	R19	10K	91A1A-B24-D15L	Potentiometer	Bourns	91A1A-B24-D15L	Digi-Key
58	5	Q1 - Q5	BC184C	BC184C	NPN Bipolar	Fairchild	BC184C	Mouser
59	1	Q6	2N3055	2N3055	NPN Power	On Semi	2N3055G	Digi-Key
60	1	Q7	MPSA06	NPN Bipolar	NPN Bipolar	Fairchild	MPSA06	Digi-Key
61	1	Q8	MPSA56	PNP Bipolar	PNP Bipolar	Fairchild	MPSA56	Digi-Key
62	1	U1	LM317	LM317T	Voltage Regulator	National	LM317TNS	Digi-Key
63	4	D1, D2, D3, D4	1N4002	1N4002	Diode	General Semi	1N4002-E3/54	Digi-Key
64	1				TO-3 Heatsink	Aavid	501503B00000	Digi-Key
65	1				TO-220 Heatsink	Aavid	577202B00000	Digi-Key
66	1	CONN1			XLR F	Neutrik	NC3FBHR-2	Brill
67	1	CONN2			XLR M	Neutrik	NC3MBHR	Brill
68	1	J1			6-Pin Header	Molex	26-60-4060	Digi-Key
69	3	J2, J5, J6			2-Pin Header	Molex	22-28-4020	Digi-Key
70	2	J3, J4			3-Pin Header	Molex	22-28-4030	Digi-Key
71	5				Shorting jumpers	Sullins	STC02SYAN	Digi-Key
72	1	S3	SW_DPDT	DPDT Toggle Switch	DPDT Toggle Switch	E Switch	100AWDP1T2B4M7RE	Digi-Key
73	1	S1	SW_SPDT	SPDT Toggle Switch	SPDT Toggle Switch	E Switch	100AWSP1T2B4M7RE	Digi-Key
74	1	S2	71BDF30-03-1-AJS	71BDF30-03-1-AJS	3-Deck Rotary Switch	Grayhill	71BDF30-03-1-AJS	Grayhill
75	2				Fluted Knob	Cosmo	39-7747-001-00-3-10	Cosmo
76	1	T1		VTB9045	Input Transformer	Carnhill	VTB9045	Carnhill
77	1	T2		VTB1847	Output Transformer	Carnhill	VTB1847	Carnhill
78	1				Mounting Bracket	Hub		SCA
79	1				Insulator	PSF		SCA
80	4		#4-40 x 1 1/4"		Pan head machine screw			Olander
81	5		#4-40 x 1/4"		Pan head machine screw, trilobe			Olander
82	5		#4-40		Keps nut			Olander
83	2		#6-32 x 3/8"		Pan head machine screw			Olander
84	2		#6-32		Keps nut			Olander
85	2		#4-48 x 1/4"		Pan head machine screw			Olander
86	4				1/8" Nylon spacer			Olander
87	4				1/16" Nylon spacer			Olander
88	1		12"		Hookup wire 26 AWG Solid			NTE
89	1			N72 Rev 3.1	Printed Circuit Board	AC		SCA