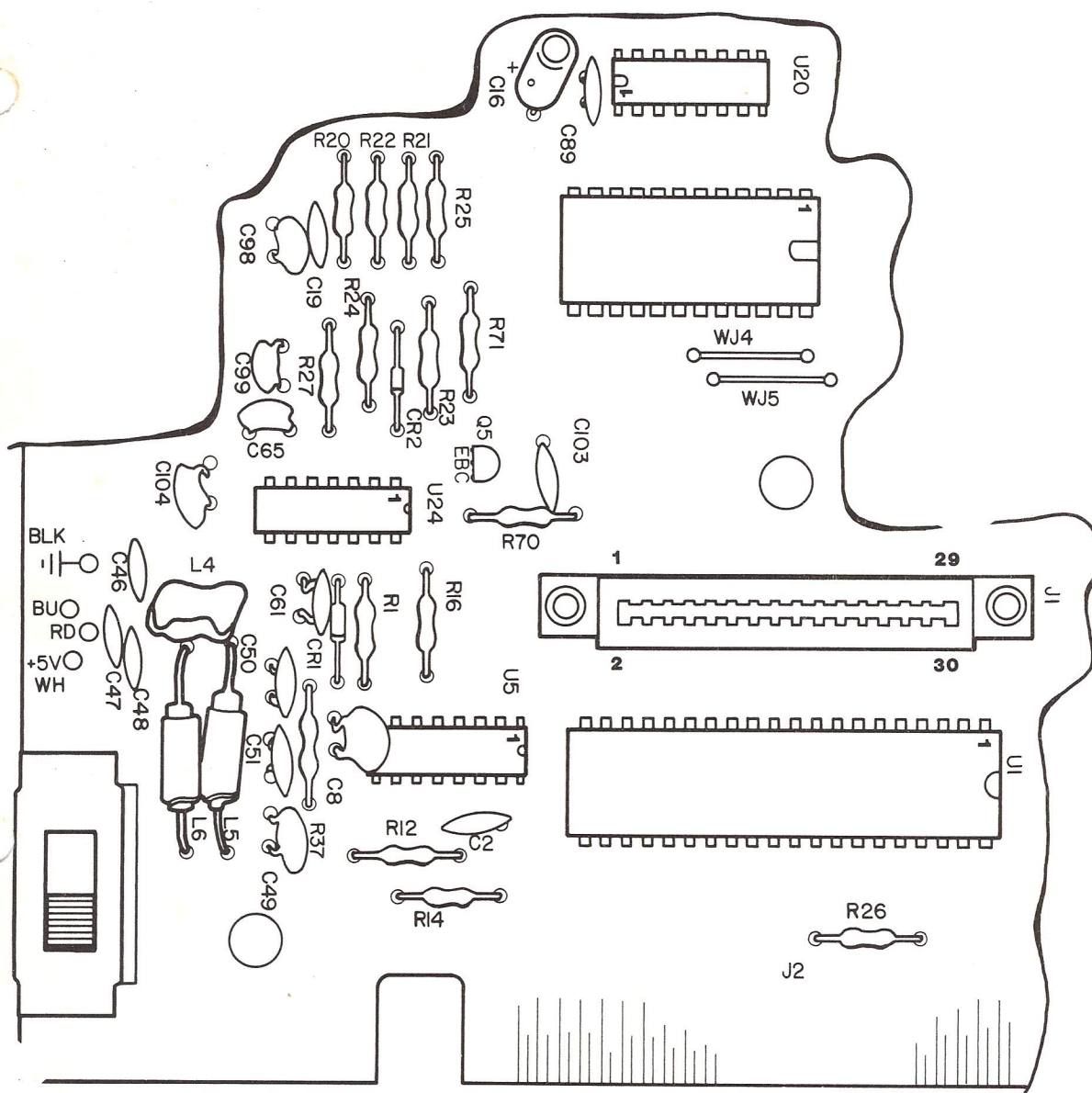
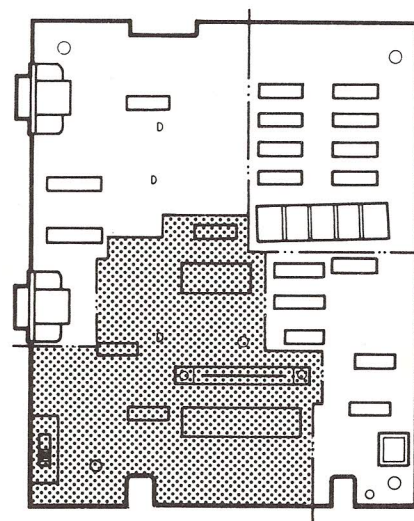


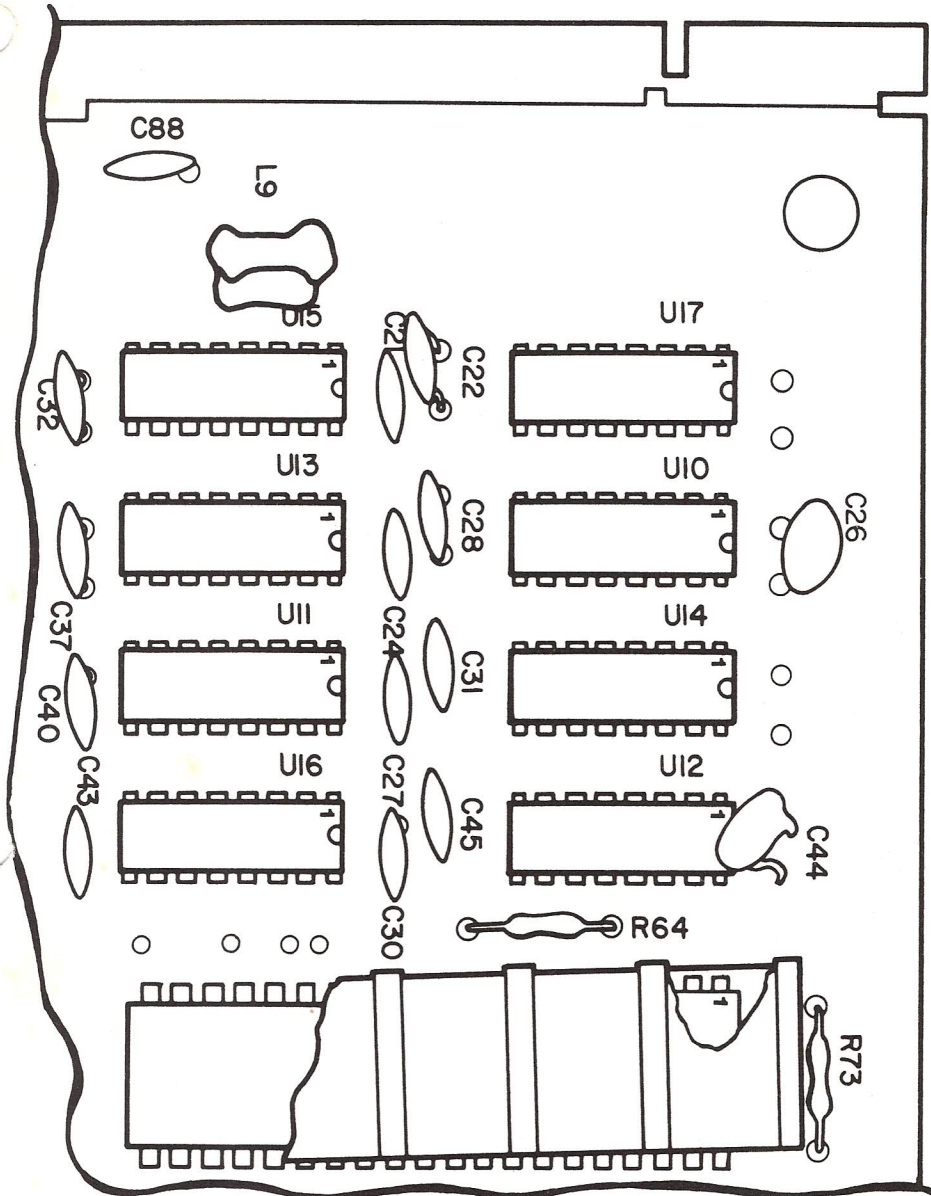
Assembly Drawings

V-3

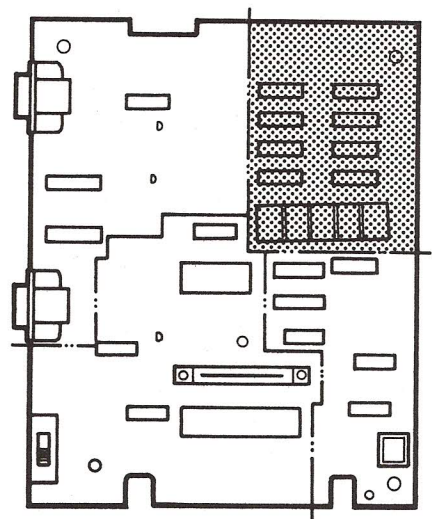


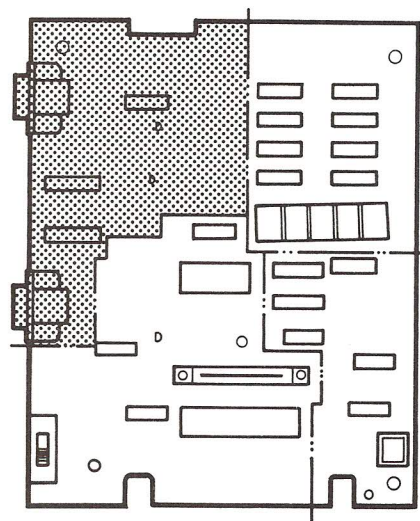
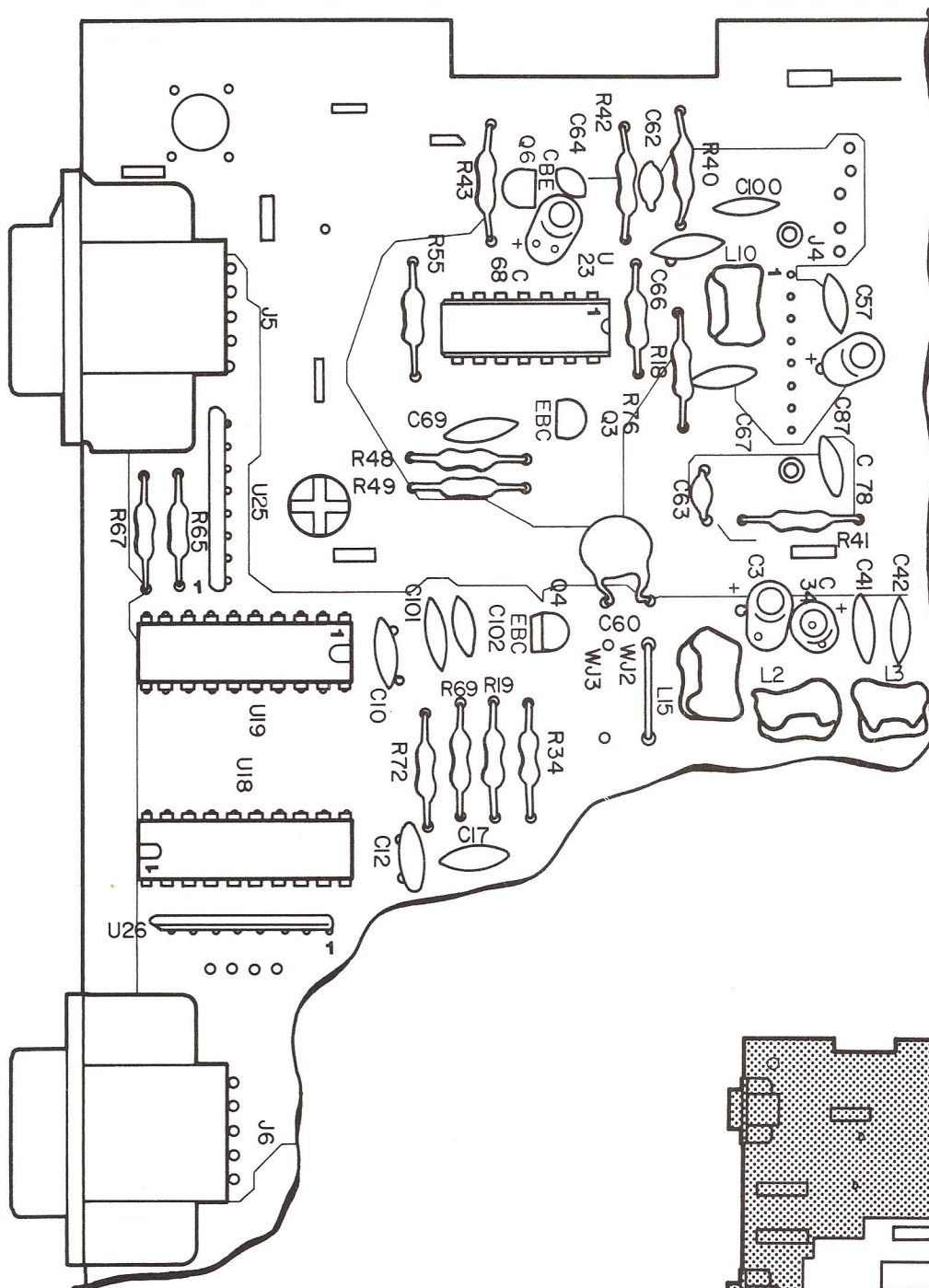
**Logic Board
(Expanded View)**



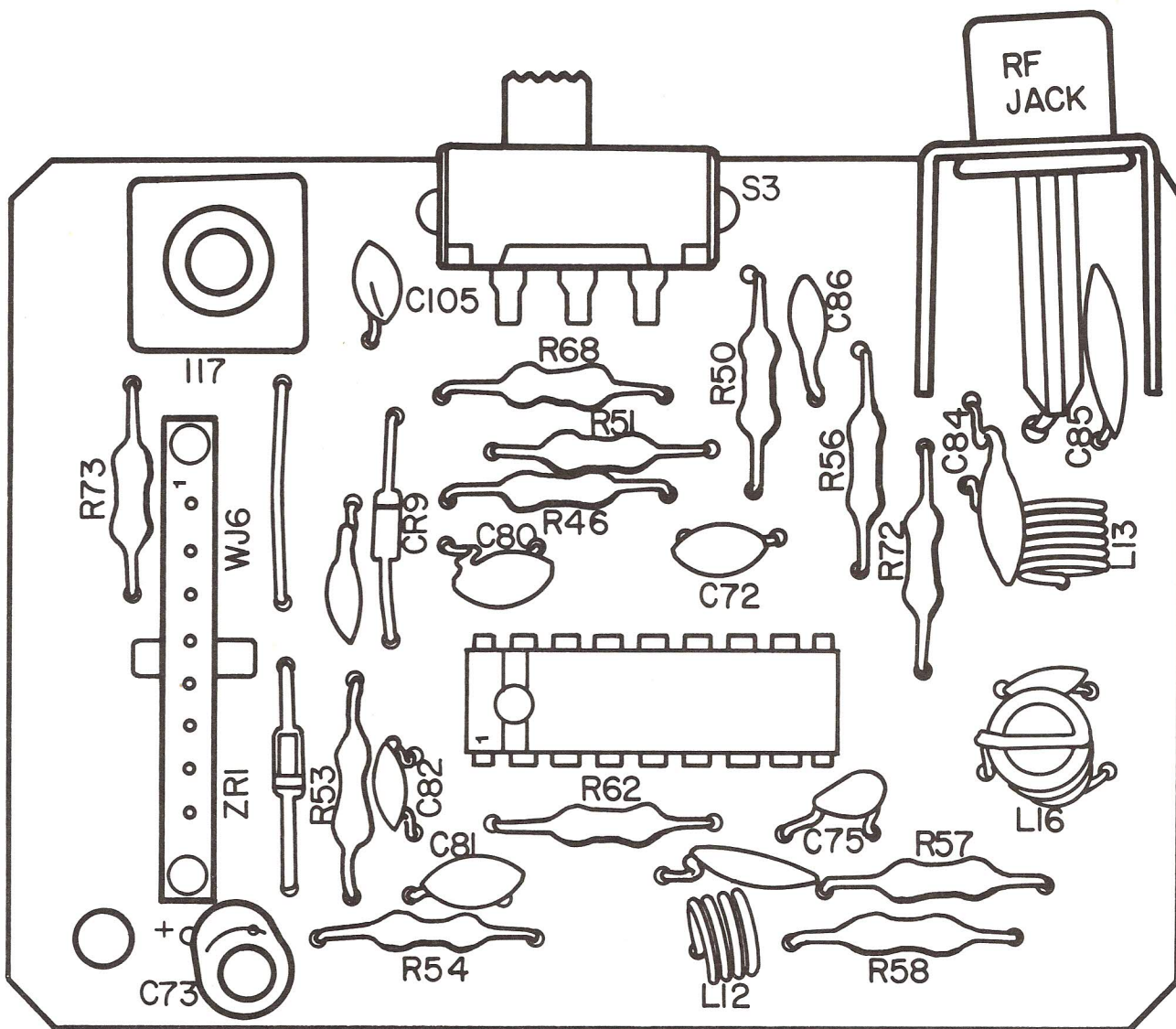


**Logic Board
(Expanded View)**





Logic Board
(Expanded View)



RF BOARD

Parts List

Capacitors

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
C1	.002 μ f ceramic disc	R72311
C2	.1 μ f ceramic disc	R72284
C3	1 μ f electrolytic	R72617
C4	68pf ceramic disc	R72255
C5	.1 μ f ceramic disc	R72284
C6	Not used	
C7	.1 μ f ceramic disc	R72284
C8	.1 μ f ceramic disc	R72284
C9	.1 μ f ceramic disc	R72284
C10	.1 μ f ceramic disc	R72284
C11	.1 μ f ceramic disc	R72284
C12	.1 μ f ceramic disc	R72284
C13	.1 μ f ceramic disc	R72284
C14	Not used	
C15	Not used	
C16	10 μ f electrolytic	R72642
C17	.1 μ f ceramic disc	R72284
C18	Not used	
C19	.1 μ f ceramic disc	R72284
C20	Not used	
C21	.1 μ f ceramic disc	R72284
C22	.1 μ f ceramic disc	R72284
C23	Not used	
C24	.1 μ f ceramic disc	R72284
C25	Not used	
C26	.1 μ f ceramic disc	R72284
C27	.1 μ f ceramic disc	R72284
C28	.1 μ f ceramic disc	R72284
C29	Not used	
C30	.1 μ f ceramic disc	R72284
C31	.1 μ f ceramic disc	R72284
C32	.1 μ f ceramic disc	R72284
C33	Not used	
C34	10 μ f electrolytic	R72642
C35	Not used	
C36	10 μ f electrolytic	R72642

Capacitors

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
C37	.1 μ f ceramic disc	R72284
C38	Not used	
C39	Not used	
C40	.1 μ f ceramic disc	R72284
C41	.1 μ f ceramic disc	R72284
C42	.1 μ f ceramic disc	R72284
C43	.1 μ f ceramic disc	R72284
C44	.1 μ f ceramic disc	R72284
C45	.1 μ f ceramic disc	R72284
C46	.1 μ f ceramic disc	R72284
C47	.1 μ f ceramic disc	R72284
C48	.1 μ f ceramic disc	R72284
C49	.1 μ f ceramic disc	R72284
C50	.1 μ f ceramic disc	R72284
C51	.1 μ f ceramic disc	R72284
C52	Not used	
C53	Not used	
C54	Not used	
C55	Not used	
C56	Not used	
C57	.01 μ f ceramic disc	R72018
C58	Not used	
C59	.01 μ f ceramic disc	R72018
C60	.047 μ f ceramic disc	R72296
C61	.01 μ f ceramic disc	R72018
C62	470 pf ceramic disc	R72015
C63	470 pf ceramic disc	R72015
C64	120 pf ceramic disc	R72289
C65	.01 μ f ceramic disc	R72018
C66	.1 μ f ceramic disc	R72284
C67	.1 μ f ceramic disc	R72284
C68	10 μ f electrolytic	R72642
C69	.047 μ f ceramic disc	R72296
C70	100 pf ceramic disc	R72012
C71	Not used	
C72	47 pf ceramic disc	Order RF board

Capacitors

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
C73	10 μ f electrolytic	Order RF board
C74	Not used	
C75	20 pf ceramic disc	Order RF board
C76	82 pf ceramic disc	Order RF board
C77	Not used	
C78	.01 μ f ceramic disc	R72018
C79	Not used	
C80	47 pf ceramic disc	Order RF board
C81	47 pf ceramic disc	Order RF board
C82	.01 μ f ceramic disc	Order RF board
C83	10 pf ceramic disc	Order RF board
C84	82 pf ceramic disc	Order RF board
C85	270 pf ceramic disc	Order RF board
C86	.01 μ f ceramic disc	Order RF board
C87	10 μ f electrolytic	R72642
C88	.1 μ f ceramic disc	R72284
C89	.1 μ f ceramic disc	R72284
C90	120 pf ceramic disc	R72283
C91	150 pf ceramic disc	R72014
C92	82 pf ceramic disc	R72288
C93	Not used	
C94	Not used	
C95	Not used	
C96	Not used	
C97	Not used	
C98	.01 μ f ceramic disc	R72018
C99	.01 μ f ceramic disc	R72018
C100	.1 μ f ceramic disc	R72284
C101	.047 μ F ceramic disc	R72296
C102	100 pf ceramic disc	R72012
C103	.047 μ f ceramic disc	R72296
C104	100 pf ceramic disc	R72012
C105	.001 μ f ceramic disc	Order RF board
C106	10 μ f tantalum	R72644

Connectors

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
J1	30 pin, cartridge connector	R75451
J2	60 pin, expansion port connector	Part of Logic Board
J3	4 pin, power connector	R75458
J4	8 pin riser	Order RF board
J5	9 pin "D", handcontrol connector	R75450
J6	9 pin "D", handcontrol connector	R75450

Crystals

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
Y1	7.15909 MHz crystal	R73276

Diodes

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
CR1	Signal diode	R57188
CR2	Signal diode	R57188
CR3	Not used	
CR4	Not used	
CR5	Not used	
CR6	Not used	
CR7	Not used	
CR8	Not used	
CR9	Tuner diode	Order RF board

Zener Diodes

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
ZR1	6.2V zener	Order RF board

Inductors

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
L1	Not used	
L2	10 μ H postage stamp	R73273
L3	10 μ H postage stamp	R73273
L4	10 μ H postage stamp	R73273
L5	10 μ H $\frac{1}{2}$ W	R73274
L6	10 μ H $\frac{1}{2}$ W	R73274
L7	120 μ H postage stamp	R73277
L8	120 μ H postage stamp	R73277
L9	43 μ H postage stamp	R73278
L10	10 μ H postage stamp	R73273
L11	Adjustable sound tank coil	Order RF board
L12	2 $\frac{1}{2}$ turn	Order RF board
L13	6 turn	Order RF board
L14	2.7 μ H postage stamp	R73275
L15	43 μ H, postage stamp	R73278
L16	.7 μ H	Order RF board
L17	43 μ H postage stamp	R73278

Integrated Circuits

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
U1	Z-80A microprocessor	R73069
U2	Masked ROM	R73108
U3	1K \times 4 RAM	R73071
U4	1K \times 4 RAM	R73071
U5	3 to 8 decoder	R73072
U6	3 to 8 decoder	R73072
U7	Hex inverter, open collector	R73073
U8	Dual "D" flip-flop	R73074
U9	Video display processor	R73075
U10	16K \times 1 video RAM	R73076
U11	16K \times 1 video RAM	R73076
U12	16K \times 1 video RAM	R73076
U13	16K \times 1 video RAM	R73076
U14	16K \times 1 video RAM	R73076
U15	16K \times 1 video RAM	R73076
U16	16K \times 1 video RAM	R73076

Integrated Circuits

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
U17	16K × 1 video RAM	R73076
U18	Octal buffer	R73077
U19	Octal buffer	R73077
U20	Sound generator	R73078
U21	RF modulator	Order RF board
U22	Hex inverter	R73079
U23	CMOS quad bilateral switch	R73030
U24	Quad nand gate	R73113
U25	22K Ω resistor pack	R73114
U26	22K Ω resistor pack	R73114

Resistors

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
R1	1.5K Ω carbon film, 1/4W	R58286
R2	Not used	
R3	Not used	
R4	Not used	
R5	330 Ω carbon film, 1/4W	R57269
R6	620 Ω carbon film, 1/4W	R74310
R7	91K Ω carbon film, 1/4W	R74292
R8	3.3K Ω carbon film, 1/4W	R58446
R9	1M Ω carbon film, 1/4W	R57570
R10	3.3K Ω carbon film, 1/4W	R58446
R11	180 Ω carbon film, 1/4W	R58049
R12	3.3K Ω carbon film, 1/4W	R58446
R13	1.1K Ω carbon film, 1/4W	R58441
R14	3.3K Ω carbon film, 1/4W	R58446
R15	2.7K Ω carbon film, 1/4W	R74004
R16	3.3K Ω carbon film, 1/4W	R58446
R17	3.3K Ω carbon film, 1/4W	R68446
R18	1.8K Ω carbon film, 1/4W	R58007
R19	1.8K Ω carbon film, 1/4W	R58007
R20	1.8K Ω carbon film, 1/4W	R58007
R21	1.5K Ω carbon film, 1/4W	R58286
R22	120 Ω carbon film, 1/4W	R74060
R23	120 Ω carbon film, 1/4W	R74060

Resistors

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
R24	100K Ω carbon film, $\frac{1}{4}$ W	R57602
R25	1.5K Ω carbon film, $\frac{1}{4}$ W	R58286
R26	470 Ω carbon film, $\frac{1}{4}$ W	R74008
R27	100K carbon film, $\frac{1}{4}$ W	R57602
R28	Not used	
R29	Not used	
R30	Not used	
R31	Not used	
R32	Not used	
R33	Not used	
R34	3.3K Ω carbon film, $\frac{1}{4}$ W	R58446
R35	3.3K Ω carbon film, $\frac{1}{4}$ W	R58446
R36	Not used	
R37	3.3K Ω carbon film, $\frac{1}{4}$ W	R58446
R38	Not used	
R39	1K Ω carbon film, $\frac{1}{4}$ W	R57268
R40	390 Ω carbon film, $\frac{1}{4}$ W	R74298
R41	390 Ω carbon film, $\frac{1}{4}$ W	R74298
R42	390 Ω carbon film, $\frac{1}{4}$ W	R74298
R43	10K Ω carbon film, $\frac{1}{4}$ W	Order RF board
R44	Not used	
R45	Not used	
R46	22K Ω carbon film, $\frac{1}{4}$ W	Order RF board
R47	Not used	
R48	470K Ω carbon film, $\frac{1}{4}$ W	R74300
R49	10K Ω carbon film, $\frac{1}{4}$ W	R57266
R50	8.2K Ω carbon film, $\frac{1}{4}$ W	Order RF board
R51	4.7K Ω carbon film, $\frac{1}{4}$ W	Order RF board
R52	1K Ω carbon film, $\frac{1}{4}$ W	Order RF board
R53	1K Ω carbon film, $\frac{1}{4}$ W	Order RF board
R54	1K Ω carbon film, $\frac{1}{4}$ W	Order RF board
R55	1.8K Ω carbon film, $\frac{1}{4}$ W	Order RF board
R56	82 Ω carbon film, $\frac{1}{4}$ W	Order RF board
R57	240 Ω carbon film, $\frac{1}{4}$ W	Order RF board
R58	240 Ω carbon film, $\frac{1}{4}$ W	Order RF board
R59	Not used	
R60	47 Ω carbon film, $\frac{1}{4}$ W	R74294
R61	1K Ω carbon film, $\frac{1}{4}$ W	R57268
R62	270 Ω carbon film, $\frac{1}{4}$ W	R74034

Resistors

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
R63	Not used	
R64	1K Ω carbon film, 1/4 W	R57268
R65	270 Ω carbon film, 1/4 W	R74034
R66	Not used	
R67	270 Ω carbon film, 1/4 W	R74034
R68	47 Ω carbon film, 1/4 W	Order RF board
R69	22K Ω carbon film, 1/4 W	R57920
R70	10K Ω carbon film, 1/4 W	R57266
R71	22K Ω carbon film, 1/4 W	R57920
R72	10K Ω carbon film, 1/4 W	R57266
R73	4.7K Ω carbon film, 1/4 W	R57295
R74	39K Ω carbon film, 1/4 W	Order RF board
R75	Not used	
R76	1.8K Ω carbon film, 1/4 W	R58007
R77	22K Ω carbon film, 1/4 W	R57920
R78	1K Ω carbon film, 1/4 W	R57268
R79	Optional trim resistor	
R80	39K Ω carbon film, 1/4 W	Order RF board

Switches

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
S1	Reset switch	R74933
S2	On/off switch	R74932
S3	Channel selector switch	Order RF board

Transistors

<u>REFERENCE/ DESIGNATOR</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
Q1	Not used	
Q2	PNP transistor	R74983
Q3	PNP transistor	R57298
Q4	NPN transistor	R74977
Q5	NPN transistor	R74977
Q6	PNP transistor	R57298

Miscellaneous

<u>DESCRIPTION</u>	<u>PART NUMBER</u>
Power supply	S55416
Logic board	S75747
RF board	S75748
Donkey Kong cartridge	S78021
Handcontroller	S78022
Switch box assembly	R74608
Game cable	R75315
RF box sideshield	F74516
RF box cover	F74519
Heat sink (for U9)	F74937
Loctite 420 adhesive	R75982
Bottom shield assembly	S57048
Top housing assembly	S92049
Cartridge door assembly	S78016
Expansion port door	F74751
Front console label	R77390
Top console label	R77391
Top shield	F74514
Bottom housing	F74747
On/off switch cap	F74749
Reset switch cap	F74750
Phillips pan head screws	M65319
Rubber foot	R75973
Instructions for fine tuning	R74888
Warranty card, console	R78074B
Owner's manual	R78200A
Donkey Kong instruction manual	R78214
Retail carton	R78080
Top styrofoam insert	R79962
Bottom styrofoam insert	R79983