

Bill of Materials for Voltron 2 Full Kit P0.0
CGS582 - Negative Slew Component Kit

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	120pF 5% Ceramic	1	C102	RAD-0.2N
2	100nF Ceramic	1	C303	RAD-0.2N
3	330nF 63V Polyester	1	C101	RAD-0.2
4	10uF 35V Electrolytic	2	C301, C302	RB-D5.0-P2.0
	CONNECTOR			
5	3-way 0.1inch Crimp Housing	1	J301	2.54MM
6	14-pin IC Socket 0.3inch	2	U101, U102	DIP-14
7	3-way 0.1inch Straight Header	1	J301	2.54MM
8	CRIMP - KK254	3	J301^3	-
	DIODE			
9	6V8 5% 500mW	1	D301	DIODE-0.3
	LINEAR			
10	LM3900 - Quad Norton Amplifier	1	U101	DIP-14
	INDUCTOR			
11	Ferrite Bead - 5A	1	L301	AXIAL-0.3
	RESISTOR			
12	33R 1% 0.5W Metal Film	1	R106	AXIAL-0.4
13	220R 1% 0.5W Metal Film	3	R110, R115, R118	AXIAL-0.4
14	1K0 1% 0.5W Metal Film	2	R301, R302	AXIAL-0.4
15	4K7 1% 0.5W Metal Film	2	R113, R205	AXIAL-0.4
16	6K8 1% 0.5W Metal Film	2	R102, R114	AXIAL-0.4
17	10K 1% 0.5W Metal Film	3	R104, R111, R112	AXIAL-0.4
18	18K 1% 0.5W Metal Film	1	R103	AXIAL-0.4
19	18K7 1% 0.5W Metal Film	1	R204	AXIAL-0.4
20	22K 1% 0.5W Metal Film	2	R202, R206	AXIAL-0.4
21	100K 1% 0.5W Metal Film	1	R101	AXIAL-0.4

Bill of Materials for Voltron 2 Full Kit P0.0
CGS578 - VCA Component Kit [1/2]

Item	Description	Qty	Designator	Package
CAPACITOR				
1	47pF 5% Ceramic	1	C202	RAD-0.2N
2	10nF 5% Ceramic	2	C4, C5	RAD-0.2N
3	100nF Ceramic	2	C6, C7	RAD-0.2N
4	100nF 63V Polyester	1	C201	RAD-0.2
5	10uF 35V Electrolytic	3	C1, C2, C3	RB-D5.0-P2.0
CONNECTOR				
6	3-way 0.1inch Straight Header	1	J1	2.54MM
7	CRIMP - KK254	3	J1^3	-
8	3-way 0.1inch Crimp Housing	1	J1	2.54MM
9	8-pin IC Socket 0.3inch	1	U202	DIP-8
10	16-pin IC Socket 0.3inch	1	U201	DIP-16
DIODE				
11	1N4148	1	D101	DIODE-0.3
12	6V2 5% 500mW	1	D1	DIODE-0.3
LINEAR				
13	TL071 JFET Opamp	1	U202	DIP-8
14	LM13700 - Dual OTA	1	U201	DIP-16
INDUCTOR				
15	Ferrite Bead - 5A	2	L1, L2	AXIAL-0.3
RESISTOR				
16	330R 1% 0.5W Metal Film	3	R203, R206, R210	AXIAL-0.4
17	1K0 1% 0.5W Metal Film	2	R103, R108	AXIAL-0.4
18	2K2 1% 0.5W Metal Film	2	R1, R107	AXIAL-0.4
19	10K 1% 0.5W Metal Film	1	R207	AXIAL-0.4
20	22K 1% 0.5W Metal Film	5	R102, R104, R109, R201, R204	AXIAL-0.4
21	47K 1% 0.5W Metal Film	1	R211	AXIAL-0.4

Bill of Materials for Voltron 2 Full Kit P0.0
CGS578 - VCA Component Kit [2/2]

Item	Description	Qty	Designator	Package
CAPACITOR				
1	47pF 5% Ceramic	1	C202	RAD-0.2N
2	10nF 5% Ceramic	2	C4, C5	RAD-0.2N
3	100nF Ceramic	2	C6, C7	RAD-0.2N
4	100nF 63V Polyester	1	C201	RAD-0.2
5	10uF 35V Electrolytic	3	C1, C2, C3	RB-D5.0-P2.0
CONNECTOR				
6	3-way 0.1inch Straight Header	1	J1	2.54MM
7	CRIMP - KK254	3	J1^3	-
8	3-way 0.1inch Crimp Housing	1	J1	2.54MM
9	8-pin IC Socket 0.3inch	1	U202	DIP-8
10	16-pin IC Socket 0.3inch	1	U201	DIP-16
DIODE				
11	1N4148	1	D101	DIODE-0.3
12	6V2 5% 500mW	1	D1	DIODE-0.3
LINEAR				
13	TL071 JFET Opamp	1	U202	DIP-8
14	LM13700 - Dual OTA	1	U201	DIP-16
INDUCTOR				
15	Ferrite Bead - 5A	2	L1, L2	AXIAL-0.3
RESISTOR				
16	330R 1% 0.5W Metal Film	3	R203, R206, R210	AXIAL-0.4
17	1K0 1% 0.5W Metal Film	2	R103, R108	AXIAL-0.4
18	2K2 1% 0.5W Metal Film	2	R1, R107	AXIAL-0.4
19	10K 1% 0.5W Metal Film	1	R207	AXIAL-0.4
20	22K 1% 0.5W Metal Film	5	R102, R104, R109, R201, R204	AXIAL-0.4
21	47K 1% 0.5W Metal Film	1	R211	AXIAL-0.4

Bill of Materials for Voltron 2 Full Kit P0.0
CGS592 - SSG Component Kit

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	47pF 5% Ceramic	2	C102, C202	RAD-0.2N
2	100pF 5% Ceramic	1	C501	RAD-0.2N
3	1nF 63V Polyester	1	C401	RAD-0.2
4	2.2nF 63V Polyester	1	C402	RAD-0.2
5	100nF 63V Polyester	1	C101	RAD-0.2
6	100nF Ceramic	12	C603, C604, C605, C606, C607, C608, C609, C610, C611, C612, C613, C614	RAD-0.2N
7	220nF 63V Polyester	1	C201	RAD-0.2
8	10uF 35V Electrolytic	2	C601, C602	RB-D5.0-P2.0
	CONNECTOR			
9	3-way 0.1inch Straight Header	1	J601	2.54MM
10	8-pin IC Socket 0.3inch	3	U103, U201, U501	DIP-8
11	16-pin IC Socket 0.3inch	1	U101	DIP-16
12	Jumper Shunt	1	JP1	2.54MM
13	1x2 Pin 9mm Header	1	JP1	2.54MM
14	14-pin IC Socket 0.3inch	2	U102, U202	DIP-14
15	CRIMP - KK254	3	J601^3	-
16	3-way 0.1inch Crimp Housing	1	J601	2.54MM
	DIODE			
17	1N4148	8	D101, D102, D201, D202, D401, D402, D403, D501	DIODE-0.3
	LINEAR			
18	LM3900 - Quad Norton Amplifier	2	U102, U202	DIP-14
19	TL072 Dual JFET Opamp	2	U103, U201	DIP-8
20	LM13700 - Dual OTA	1	U101	DIP-16
21	LM741 - GP Opamp	1	U501	DIP-8
	INDUCTOR			
22	Ferrite Bead - 5A	2	L601, L602	AXIAL-0.3

Bill of Materials for Voltron 2 Full Kit P0.0
CGS592 - SSG Component Kit

Item	Description	Qty	Designator	Package
	RESISTOR			
23	100R 1% 0.5W Metal Film	2	R109, R209	AXIAL-0.4
24	330R 1% 0.5W Metal Film	2	R106, R206	AXIAL-0.4
25	1K2 1% 0.5W Metal Film	3	R108, R208, R504	AXIAL-0.4
26	3K3 1% 0.5W Metal Film	5	R113, R213, R503, R505, R506	AXIAL-0.4
27	10K 1% 0.5W Metal Film	4	R107, R207, R501, R502	AXIAL-0.4
28	15K 1% 0.5W Metal Film	4	R304, R306, R410, R411	AXIAL-0.4
29	33K 1% 0.5W Metal Film	9	R101, R102, R103, R201, R202, R203, R303, R404, R409	AXIAL-0.4
30	100K 1% 0.5W Metal Film	4	R301, R401, R403, R406	AXIAL-0.4
31	150K 1% 0.5W Metal Film	4	R305, R309, R412, R415	AXIAL-0.4
32	470K 1% 0.5W Metal Film	2	R110, R210	AXIAL-0.4
33	680K 1% 0.5W Metal Film	1	R405	AXIAL-0.4
34	820K 1% 0.5W Metal Film	2	R104, R205	AXIAL-0.4
35	1M0 1% 0.5W Metal Film	4	R105, R111, R204, R211	AXIAL-0.4
36	1M5 1% 0.5W Metal Film	3	R308, R408, R414	AXIAL-0.4
37	2M2 1% 0.5W Metal Film	2	R112, R212	AXIAL-0.4
38	2M7 1% 0.5W Metal Film	4	R302, R307, R402, R413	AXIAL-0.4
39	4M7 1% 0.5W Metal Film	1	R407	AXIAL-0.4
	TRANSISTOR			
40	J201 JFET	2	Q101, Q201	TO-92
41	PN4250 PNP Transistor	2	Q301, Q401	TO-92
	TRIMPOT			
42	20K MTV Cermet	2	P303, P403	T93YA

CGS576 - Envelope Generator Component Kit

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	100pF 5% Ceramic	1	C301	RAD-0.2N
2	220pF 5% Ceramic	1	C102	RAD-0.2N
3	10nF 63V Polyester	1	C101	RAD-0.2
4	10nF 5% Ceramic	3	C403, C404, C407	RAD-0.2N
5	100nF Ceramic	2	C402, C408	RAD-0.2N
6	470nF 63V Polyester	1	C103	RAD-0.2X
7	1uF 35V Tantalum	1	C405	RB-D5.0-P5.0
8	10uF 35V Electrolytic	2	C401, C406	RB-D5.0-P2.0
	CONNECTOR			
9	CRIMP - KK254	3	J401^3	-
10	14-pin IC Socket 0.3inch	2	U101, U201	DIP-14
11	3-way 0.1inch Crimp Housing	1	J401	2.54MM
12	3-way 0.1inch Straight Header	1	J401	2.54MM
	DIODE			
13	6V8 5% 500mW	1	D401	DIODE-0.3
14	1N4148	6	D101, D102, D103, D301, D302, D303	DIODE-0.3
	LINEAR			
15	LM3900 - Quad Norton Amplifier	2	U101, U201	DIP-14
	INDUCTOR			
16	Ferrite Bead - 5A	1	L401	AXIAL-0.3
	RESISTOR			
17	33R 1% 0.5W Metal Film	1	R109	AXIAL-0.4
18	470R 1% 0.5W Metal Film	4	R101, R113, R309, R315	AXIAL-0.4
19	1K0 1% 0.5W Metal Film	4	R305, R308, R401, R402	AXIAL-0.4
20	1K2 1% 0.5W Metal Film	2	R316, R317	AXIAL-0.4
21	2K2 1% 0.5W Metal Film	1	R307	AXIAL-0.4

Bill of Materials for Voltron 2 Full Kit P0.0
CGS501 - Ncom Component Kit

Item	Description	Qty	Designator	Package
CAPACITOR				
1	47pF 5% Ceramic	1	C101	RAD-0.2N
2	100nF Ceramic	6	C3, C4, C5, C6, C7, C8	RAD-0.2N
3	10uF 35V Electrolytic	3	C1, C2, C9	RB-D5.0-P2.0
CONNECTOR				
4	3-way 0.1inch Straight Header	1	J1	2.54MM
5	16-pin IC Socket 0.3inch	1	U201	DIP-16
6	3-way 0.1inch Crimp Housing	1	J1	2.54MM
7	8-pin IC Socket 0.3inch	2	U101, U102	DIP-8
8	14-pin IC Socket 0.3inch	1	U103	DIP-14
9	CRIMP - KK254	3	J1^3	-
LINEAR				
10	RC4558 Dual Opamp	2	U101, U102	DIP-8
11	LM317LZ - Adjustable Positive Voltage Regulator	1	U401	TO-92
INDUCTOR				
12	Ferrite Bead - 5A	2	L1, L2	AXIAL-0.3
LOGIC				
13	CD4520 - Dual Binary Up-Counter	1	U201	DIP-16
14	CD4093 - Quad 2-input NAND Schmitt trigger	1	U103	DIP-14
RESISTOR				
15	240R 1% 0.5W Metal Film	1	R402	AXIAL-0.4
16	330R 1% 0.5W Metal Film	1	R109	AXIAL-0.4
17	698R 1% 0.5W Metal Film	1	R403	AXIAL-0.4
18	2K2 1% 0.5W Metal Film	3	R107, R115, R116	AXIAL-0.4
19	33K 1% 0.5W Metal Film	2	R106, R114	AXIAL-0.4
20	47K 1% 0.5W Metal Film	5	R101, R102, R103, R104, R108	AXIAL-0.4
21	51K1 1% 0.5W Metal Film	2	R110, R113	AXIAL-0.4

Bill of Materials for Voltron 2 Full Kit P0.0
CGS83 - Positive Slew Component Kit

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	220pF 5% Ceramic	2		RAD-0.2N
2	100nF 63V Polyester	4		RAD-0.2
3	330nF 63V Polyester	2		RAD-0.2
4	10uF 35V Electrolytic	3		RB-D5.0-P2.0
	CONNECTOR			
5	KK396 - 4-way Crimp Housing	1		3.96MM
6	14-pin IC Socket 0.3inch	4		DIP-14
7	CRIMP - KK396	4		-
8	KK396 - 4-way Straight - Locking Header	1		-
	DIODE			
9	1N4148	4		DIODE-0.3
	LINEAR			
10	LM3900 - Quad Norton Amplifier	4		DIP-14
	INDUCTOR			
11	Ferrite Bead - 5A	2		AXIAL-0.3
	RESISTOR			
12	33R 1% 0.5W Metal Film	2		AXIAL-0.4
13	100R 1% 0.5W Metal Film	2		AXIAL-0.4
14	220R 1% 0.5W Metal Film	6		AXIAL-0.4
15	3K3 1% 0.5W Metal Film	2		AXIAL-0.4
16	4K7 1% 0.5W Metal Film	12		AXIAL-0.4
17	5K6 1% 0.5W Metal Film	1		AXIAL-0.4
18	6K8 1% 0.5W Metal Film	1		AXIAL-0.4
19	10K 1% 0.5W Metal Film	2		AXIAL-0.4
20	18K 1% 0.5W Metal Film	4		AXIAL-0.4
21	47K 1% 0.5W Metal Film	2		AXIAL-0.4

Bill of Materials for Voltron 2 Full Kit P0.0
CGS577 - 1973 VCF Component Kit

Item	Description	Qty	Designator	Package
CAPACITOR				
1	22pF 10% Ceramic	1	C201	RAD-0.2N
2	100pF 5% Ceramic	2	C101, C102	RAD-0.2N
3	220pF 2.5% Polystyrene	2	C203, C205	AXIAL-0.4W
4	100nF 63V Polyester	2	C202, C204	RAD-0.2
5	100nF Ceramic	4	C303, C304, C305, C306	RAD-0.2N
6	10uF 35V Electrolytic	2	C301, C302	RB-D5.0-P2.0
CONNECTOR				
7	14-pin IC Socket 0.3inch	1	U101	DIP-14
8	KK396 - 4-way Straight - Locking Header	1	J301	-
9	KK396 - 4-way Crimp Housing	1	J301	3.96MM
10	16-pin IC Socket 0.3inch	1	U202	DIP-16
11	CRIMP - KK396	4	J301^4	-
12	8-pin IC Socket 0.3inch	1	U201	DIP-8
LINEAR				
13	LM3900 - Quad Norton Amplifier	1	U101	DIP-14
14	LM13700 - Dual OTA	1	U202	DIP-16
15	TL071 JFET Opamp	1	U201	DIP-8
INDUCTOR				
16	Ferrite Bead - 5A	2	L301, L302	AXIAL-0.3
RESISTOR				
17	Wire Link	1	R110	TO FIT
18	330R 1% 0.5W Metal Film	3	R207, R213, R219	AXIAL-0.4
19	470R 1% 0.5W Metal Film	4	R208, R209, R215, R216	AXIAL-0.4
20	2K2 1% 0.5W Metal Film	2	R211, R218	AXIAL-0.4
21	3K3 1% 0.5W Metal Film	2	R210, R217	AXIAL-0.4
22	4K7 1% 0.5W Metal Film	1	R108	AXIAL-0.4
23	15K 1% 0.5W Metal Film	1	R117	AXIAL-0.4

