

Bill of Materials for ES75 - VCS Full Kit V5.1
Column 1 [ES75 - VCS Component Kit]

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	100nF Ceramic	1	C402	RAD-0.2N
2	47uF Electrolytic	1	C401	RB-D5-P2.5
	CONNECTOR			
3	IDC10 RA Box Header	1	J406	-
4	1x4 Pin 16mm Header	2	J403, S401	-
	DIODE			
5	1N4148	1	D401	DIODE-0.3
	OPTO-ELECTRONIC			
6	3mm HE-Green LED	1	D402	-
	RESISTOR			
7	1K0 1% 0.5W Metal Film	1	R404	AXIAL-0.4
8	100K 1% 0.5W Metal Film	2	R401, R402	AXIAL-0.4
9	150K 1% 0.5W Metal Film	1	R403	AXIAL-0.4
	SWITCH			
10	SPDT PCB RA [ON-ON]	1	S401	7101
	TRANSISTOR			
11	2N3904 NPN Transistor	1	Q401	TO-92

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Column 2 [ES75 - VCS Component Kit]

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	1nF 63V Polyester	2	C501, C502	RAD-0.2
	CONNECTOR			
2	IDC10 RA Box Header	1	J505	-
	DIODE			
3	1N4148	4	D501, D502, D503, D504	DIODE-0.3
	RESISTOR			
4	33K 1% 0.5W Metal Film	2	R503, R506	AXIAL-0.4
5	100K 1% 0.5W Metal Film	4	R501, R502, R504, R505	AXIAL-0.4

Column 3 [ES75 - VCS Component Kit]

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	47pF 5% Ceramic	4	C601, C602, C701, C702	RAD-0.2N
2	100nF Ceramic	2	C603, C604	RAD-0.2N
	CONNECTOR			
3	IDC10 RA Box Header	1	J601	-
4	14-pin IC Socket 0.3inch	1	U601	DIP-14
	LINEAR			
5	TL074 Quad JFET Opamp	1	U601	DIP-14
	POTENTIOMETER			
6	50K LIN Switched	2	P601, P701	ALPHA 16MM
7	50KB LIN - 18T Spline	2	P602, P702	ALPHA 16MM
	RESISTOR			
8	82K 1% 0.5W Metal Film	4	R610, R611, R710, R711	AXIAL-0.4
9	100K 1% 0.5W Metal Film	6	R603, R604, R605, R703, R704, R705	AXIAL-0.4
10	330K 1% 0.5W Metal Film	2	R601, R701	AXIAL-0.4
11	470K 1% 0.5W Metal Film	2	R607, R707	AXIAL-0.4
12	820K 1% 0.5W Metal Film	2	R609, R709	AXIAL-0.4
13	1M0 1% 0.5W Metal Film	6	R602, R606, R608, R702, R706, R708	AXIAL-0.4

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Main [ES75 - VCS Component Kit]

Item	Description	Qty	Designator	Package
CAPACITOR				
1	47pF 5% Ceramic	2	C101, C102	RAD-0.2N
2	10nF 5% Ceramic	3	C303, C304, C307	RAD-0.2N
3	22nF 63V Polyester	1	C201	RAD-0.2
4	100nF Ceramic	2	C305, C306	RAD-0.2N
5	10uF 35V Electrolytic	2	C301, C302	RB-D5.0-P2.0
CONNECTOR				
6	IDC10 Receptacle	3	J302, J303, J304	2.54MM
7	14-pin IC Socket 0.3inch	2	Q201, U102	DIP-14
8	8-pin IC Socket 0.3inch	1	U101	DIP-8
9	IDC16 Box Header	1	J301	2.54MM
DIODE				
10	5.6V 5% 500mW	1	D102	DIODE-0.3
11	1N4148	1	D101	DIODE-0.3
LINEAR				
12	TL072 Dual JFET Opamp	1	U101	DIP-8
13	LM3900 - Quad Norton Amplifier	1	U102	DIP-14
INDUCTOR				
14	Ferrite Bead - 0.45uH 7A	2	L301, L302	AXIAL-0.3
RESISTOR				
15	100R 1% 0.5W Metal Film	1	R203	AXIAL-0.4
16	1K0 1% 0.5W Metal Film	1	R108	AXIAL-0.4
17	1K8 1% 0.5W Metal Film	1	R202	AXIAL-0.4
18	2K2 1% 0.5W Metal Film	3	R107, R204, R205	AXIAL-0.4
19	8K2 1% 0.5W Metal Film	1	R114	AXIAL-0.4
20	68K 1% 0.5W Metal Film	1	R111	AXIAL-0.4
21	82K 1% 0.5W Metal Film	1	R201	AXIAL-0.4

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Main [ES75 - VCS Component Kit]

Item	Description	Qty	Designator	Package
	RESISTOR - continued			
22	100K 1% 0.5W Metal Film	1	R112	AXIAL-0.4
23	220K 1% 0.5W Metal Film	4	R103, R110, R115, R116	AXIAL-0.4
24	330K 1% 0.5W Metal Film	1	R105	AXIAL-0.4
25	820K 1% 0.5W Metal Film	2	R101, R102	AXIAL-0.4
26	1M0 1% 0.5W Metal Film	2	R106, R109	AXIAL-0.4
27	10M 1% 0.5W Metal Film	2	R104, R113	AXIAL-0.4
	TRANSISTOR			
28	2N3906 PNP Transistor	1	Q101	TO-92
29	THAT 340 - Dual NPN - Dual PNP Array	1	Q201	DIP-14
	TRIMPOT			
30	100K 20TV Cermet	1	P101	T93YA
	UNITS			
31	Panther - IDC16 - 24cm	1	J301	-

ES75 - VCS PCB/Panel Set

Item	Description	Qty	Designator	Package
	PANEL			
1	ES75 - VCS Front Panel A	1		-
	PCB			
2	ES75 - VCS Main PCB V5.1	1		-
3	ES75 - VCS Column 3 PCB V5.1	1		-
4	ES75 - VCS Column 2 PCB V5.1	1		-
5	ES75 - VCS Column 1 PCB V5.1	1		-
6	Panther Carrier PCB - JACK-SPDT V1.3	2		-
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