

CINEMATRONICS COLOR CONVERTER PCB, 81-11517-01 REV A

Edited by: David Fish

Bill Of Materials July 26,2007

Item	Quantity	Reference	Part
1	46	C1,C3,C4,C7,C8,C9,C10, C11,C13,C14,C17,C18,C19, C20,C21,C22,C23,C24,C26, C27,C28,C29,C30,C31,C32, C33,C34,C35,C36,C39,C42, C43,C45,C46,C48,C49,C51, C55,C58,C59,C62,C65,C66, C67,C69,C72	0.1uF, 25V CERAMIC DISK
2	3	C56,C60,C68	CAPACITOR, 0.1uF, 100V, MYLAR
3	9	C2,C5,C12,C15,C41,C44, C47,C52,C71	CAPACITOR, 22uF, 50V, ELECT, RADIAL
4	2	C6,C16	CAPACITOR, 0.022uF, 200v, +/-10%, POLYSTYRENE
5	2	C25,C37	CAPACITOR, 10pF, CERAMIC DISC
6	3	C57,C61,C70	CAPACITOR, 10pF, SILVER-MICA
7	2	C64,C74	CAPACITOR, 100uF, 35V, ELECT, RADIAL
8	1	C38	CAPACITOR, 100uF, 50V, ELECT, RADIAL
9	1	C40	CAPACITOR, 0.33uF, 100V, MYLAR
10	1	C50	CAPACITOR, 0.001, 100V, MYLAR
11	1	C53	CAPACITOR, 2.2uF, 50v, ELECT
12	2	C63,C73	CAPACITOR, 47uF, 16V, ELECT, RADIAL
13	30	D1-D9,D12,D13,D14,D15, D16,D17,D18,D19,D30,D31, D32,D37,D38,D39,D40,D41, D42,D43,D45,D46,D47	DIODE, 1N914B, SWITCHING
14	2	D10,D11	DIODE, ZENER, 1N5236, 7.5V, 1/2W
15	14	D20,D21,D22,D23,D24,D25, D26,D27,D28,D29,D33,D34, D35,D36	DIODE, 1N4003, 200V, 1A
16	2	D44,D48	DIODE, ZENER, 1N5230, 4.7V, 1/2W
17	1	I1	LED, T-1 3/4, RED
18	9	Q1,Q2,Q3,Q6,Q7,Q9,Q10,	TRANSISTOR, 2N3904, TO-92

19	4	Q12,Q14	
		Q4,Q5,Q8,Q13	TRANSISTOR, 2N3906, TO-92
20	1	Q11	TRANSISTOR, 2N6107, TO-220
21	1	Q15	TRANSISTOR, 2N6292, TO-220
22	2	RP1,RP2	RESISTOR NETWORK, 2.2K X 10, BUSSED
23	3	RP3,RP4,RP5	RESISTOR NETWORK, 100K X 7, BUSSED
24	2	R1,R5	RESISTOR, 820, 1/4W, 5%, CF
25	1	R2	RESISTOR, 1.43K, 1/8W, 1%, MF
26	2	R3,R7	RESISTOR, 10.0K, 1/8W, 1%, MF
27	4	R4,R82,R88,R98	RESISTOR, 1.8K, 1/4W, 5%, CF
28	1	R6	RESISTOR, 2.1K, 1/4W, 5%, CF
29	4	R8,R75,R76,R100	RESISTOR, 2.2K, 1/4W, 5%, CF
30	8	R9,R11,R22,R23,R27,R46,R49,R50	RESISTOR, 3K, 1/4W, 5%, CF
31	10	R10,R15,R18,R25,R39,R47,R60, R72,R79,R106	RESISTOR, 10K, 1/4W, 5%, CF
32	1	R12	RESISTOR, 2.4K, 1/4W, 5%, CF
33	1	R16	RESISTOR, 8.2K, 1/4W, 5%, CF
34	2	R17,R38	RESISTOR, 68 5W, 5%, WW
35	4	R19,R41,R48,R51	RESISTOR, 7.5K, 1/4W, 5%, CF
36	1	R20	RESISTOR, 47K, 1/4W, 5%, CF
37	12	R13,R30,R31,R32,R33,R34, R35,R36,R37,R86,R91,R102	RESISTOR, 6.8K, 1/4W, 5%, CF
38	2	R28,R29	RESISTOR, 300, 1W, 5%, CF
39	2	R40,R43	RESISTOR, 100K, 1/4W, 5%, CF
40	1	R21	RESISTOR, 200K, 1/4W, 5%, CF
41	1	R42	RESISTOR, 75K, 1/4W, 5%, CF
42	4	R52,R81,R87,R97	RESISTOR, 13K, 1/4W, 5%, CF
43	5	R53,R55,R61,R64,R66	RESISTOR, 4.7K, 1/4W, 5%, CF
44	4	R54,R56,R63,R73	RESISTOR, 1K, 1/4W, 5%, CF
45	3	R84,R90,R101	RESISTOR, 1K, 1/2W, 5%, CF
46	3	R57,R78,R105	RESISTOR, 2K, 1/4W, 5%, CF
47	1	R58	RESISTOR, 22K, 1/4W, 5%, CF
48	1	R59	RESISTOR, 24K, 1/4W, 5%, CF
49	1	R62	RESISTOR, 2.7K, 1/4W, 5%, CF
50	2	R65,R67	RESISTOR, 470, 1/4W, 5%, CF
51	2	R68,R69	RESISTOR, 2.2K, 1/2W, 5%, CF
52	1	R70	RESISTOR, 12K, 1/2W, 5%, CF
53	2	R71,R94	RESISTOR, 430, 1/4W, 5%, CF
54	2	R74,R93	RESISTOR, 220, 1/4W, 5%, CF

55	2	R77,R104	RESISTOR, 3.6K, 1/4W, 5%, CF
56	2	R80,R107	RESISTOR, 6.2K, 1/4W, 5%, CF
57	3	R83,R89,R99	RESISTOR, 3.83K, 1/4W, 1%, MF
58	3	R85,R92,R103	RESISTOR, 16K, 1/4W, 5%, CF
59	1	R95	RESISTOR, 15K, 1/4W, 5%, CF
60	5	R24,R26,R44,R45,R96	RESISTOR, 20K, 1/4W, 5%, CF
61	1	R14	RESISTOR, 270, 1/4W, 5%, CF
62	2	U1,U3	IC, D/A CONVERTER, DAC80-CBI-V
63	1	U5	IC, QUAD ANALOG SWITCH, LF13331N
64	9	U2,U4,U6,U7,U9,U10,U11,U12,U14	IC, OP-AMP, LF351N
65	2	U8,U13	IC, ANALOG MULTIPLIER, MC1595L
66	2	U15,U16	IC, HEX SCHMITT INVERTER, 7414N
67	1	U17	IC, HEX BUFFER OC, 7406N
68	2	U18,U19	IC, OCTAL LATCH, 74LS374N
69	3	U20,U21,U22	IC, OP-AMP, LM318N
70	1	VREG1	IC, VOLTAGE REGULATOR, LM7915, TO-220
71	1	VREG2	IC, VOLTAGE REGULATOR, LM7815, TO-220
72	2	VR1,VR2	POTENTIOMETER, 5K
73	2	VR5,VR6,VR7	POTENTIOMETER, 10K
74	1	VR8	POTENTIOMETER, 100K
75	7	VR3,VR4,VR9,VR10,VR11,VR12,VR13	POTENTIOMETER, 1K
76	5	W1,W2,W3,W4,W5	JUMPER (IN ETCH)
77	1	J1	CONNECTOR, IDC, 2X17 PIN, 0.1 CTR, VERTICAL
78	1	P2	CONNECTOR, 4X3, PINS, SOCKET 9 KEY
79	1	H3	CONNECTOR, 5X3, PINS
80	2		HEATSINK, TO-220, THERMALLOY 6072
81	4		HEATSINK, TO-220, THERMALLOY 6071
82	6		SCREW, 6-23 X 1/4
83	6		NUT, 6-32, KEPS
84	1		PCB, FAB, 81-11517-01