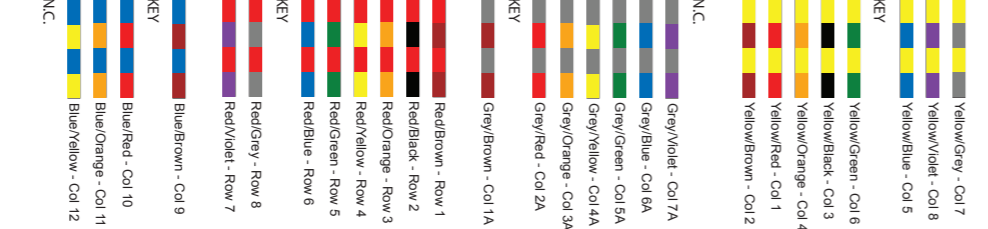
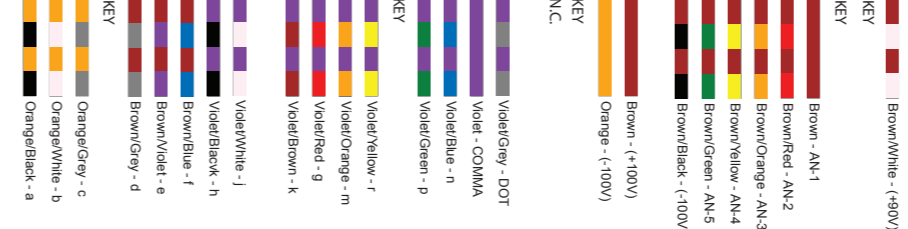


LAMP ROWS (8X4) LAMP ROWS (8X8) LAMP COLUMNS (8X4) LAMP COLUMNS (8X8)



SEGMENT DRIVES +100V ALPHA STROBES



BILL OF MATERIALS			
ITEM NO.	PART DESIGNATION	DESCRIPTION	REQD NO.
1		BASE P.C. BOARD	1
2	IC1,IC2,IC15,IC16	IC 7406 HEX INVERTERS	4
3	IC4,IC6,IC7,IC8,IC10	IC 7408 QUAD AND	5
4	IC3	IC 7400 QUAD NAND	1
5	IC5,IC9,IC11,IC12	IC 8002 PIA	1
6	IC13,IC16,IC20	IC 4003 HEX 3-STATE BUFFER	3
7	IC14,IC21	IC 718A CATHODE DRIVE	2
8	IC17,IC18	IC 4049 HEX INVERTERS	2
9	IC22,IC25	IC 6104 ANODE DRIVE	2
10	IC23,IC24	IC 4049 HEX INVERTERS	2
11	Q1 THRU Q8, Q11 THRU Q28	TRANSISTOR NPN DARLINGTON	20
12	Q9 THRU Q16, Q33	TRANSISTOR 2N4403 NPN	9
13	Q20, Q22, Q31, Q34, Q41, Q44, Q47, 50	TRANSISTOR 2N4647 NPN DARLINGTON	1
14	Q30, Q31, Q33, Q34, Q36, Q37, Q38, Q40, Q42, Q43, Q45, Q46, Q48, Q49, Q51, Q52	TRANSISTOR TP42 PNP	16
15	Q1 THRU Q34	DIODE 1N4001 1A	24
16	Q54	TRANSISTOR 2N4403 PNP	1
17	S1 THRU S12	SCR 2N5600 6.8A 30V	12
18	R1 THRU R8	RESISTOR C.F. 680 5% 12W	8
19	R9, R10, R11, R14, R17, R18, R21, R22, R25, R26, R29, R30	RESISTOR C.F. 1K 5% 1/4W	12
20	R11, R12, R15, R16, R19, R20, R23, R24, R27, R28, R31, R32	RESISTOR C.F. 840 5% 3W	12
21	R42, R73	RESISTOR C.F. 4700 5% 1/4W	2
22	R34 THRU R41, R43 THRU R50	RESISTOR C.F. 270 5% 5W	16
23	R33, R78	RESISTOR C.F. 4.7K 5% 1/4W	2
24	R71	RESISTOR C.F. 1000 5% 1/4W	1
25	R75	RESISTOR C.F. 3.30 5% 1W	1
26	S1	SP 2.7K 8R 10P 5% 1	1
27	SR2, SR3, SR16	SP 1.2K 8R 8P 5% 1	3
28	SR5	SP 4.8K 8R 10P 5% 1	1
29	SR6	SP 6.8K 8R 8P 5% 1	1
30	SR10	SP 2.2K 8R 10P 5% 1	1
31	SR7, SR8, SR12, SR14	SP 4.7K 8R 10P 5% 1	4
32	SR13, SR15	SP 1K 4R 8P 5% 2	2
33	SR18, SR11	SP 4.7K 8R 8P 5% 2	2
34	C1 THRU C4, C6 THRU C13, C16, C18, C20	CAPACITOR CERAMIC 0.01MFD 50V	15
35	C14	CAPACITOR CERAMIC 0.1MFD 50V	1
36	C22, C26 THRU C35	CAPACITOR POLYCARBONATE 0.1 MFD 100V	12
37	C21	CAPACITOR RADIAL 100MFD 25V	1
38	C38 THRU C51	CAPACITOR CERAMIC 470PFD 50V	16
39	C2, C3, C24, C28, C30, C32, C10 THRU C14, C17, C19, C21, C23, C25, C27, C29, C31, C33, C37, C39, C41, C43, C45, C47, C49, C50, C51, C52	SP 230V, 08-65-1001	14
40	2J5, 2J15	8H 230V, 08-65-1001	2
41	2J7	15H 230V, 08-65-1101	1
42	2J9	4H 230V, 08-65-1041	1
43	2J16	3H 230V, 08-65-1031	1
44	2P1	8H 2145 08-52-3002	5
45	R60, R61, R65, R66	RESISTOR C.F. 30K 5% 1/4W	4
46	R67, R68	RESISTOR C.F. 300K 5% 12W	2
47	R70, R74	RESISTOR C.F. 2.7K 5% 1/4W	2
48	ZR1	ZENER DIODE 1N4740 10V 5% 1W	1
49	S14	SP 9000 9R 10P 5% 1	1
50	R72	RESISTOR C.F. 1200 5% 1/4W	1
51	R51, R54, R57, R58, R59, R62, R63, R64	RESISTOR C.F. 18K 5% 1/4W	8
52	R52, R53, R55, R56	RESISTOR C.F. 18K 5% 12W	4