

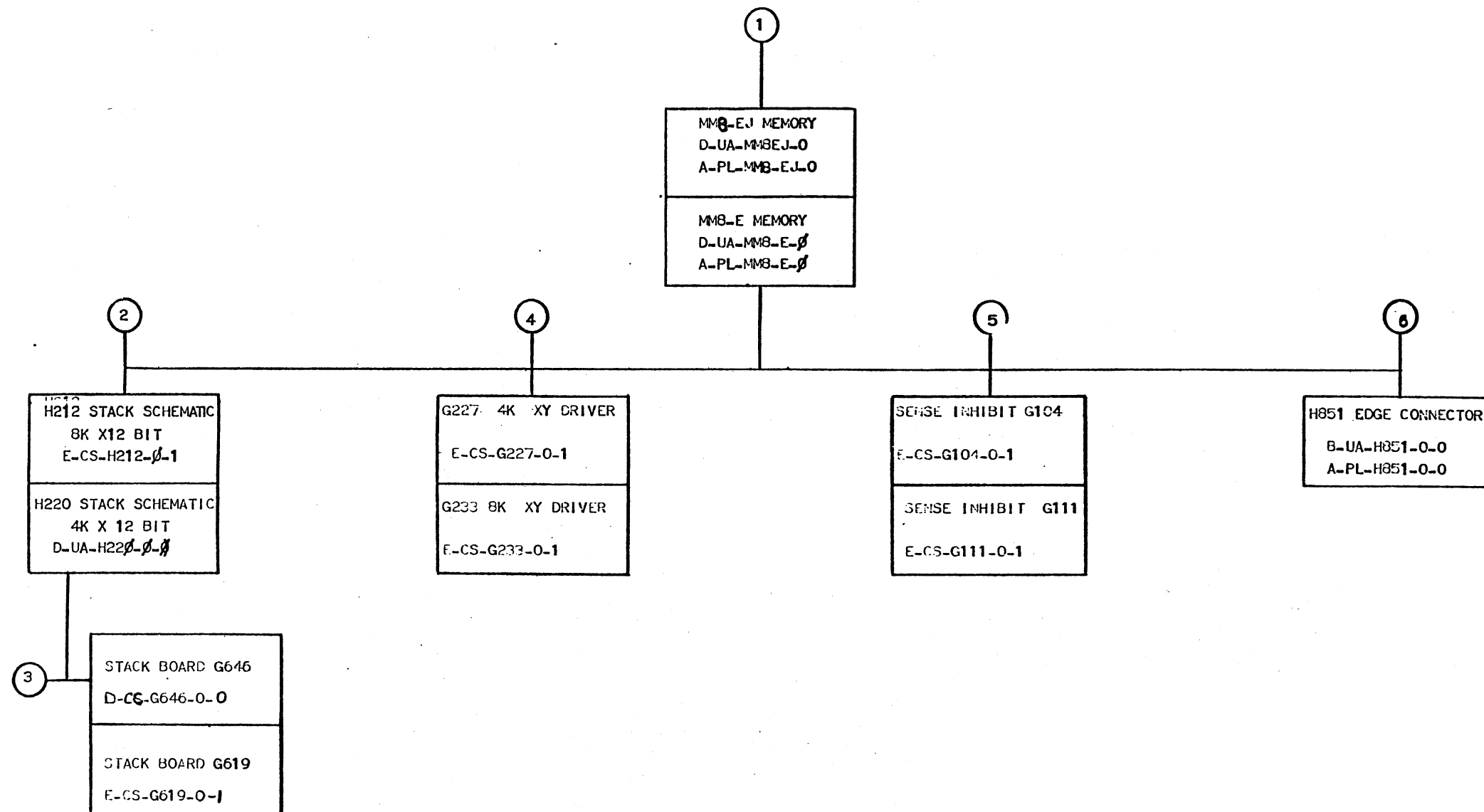
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SEQUENCE	SEQUENCE
BLOCK DIAGRAM	E-BD-MMB-E-1
BLOCK DIAGRAM	E-BD-MMB-EJ-5
4K XY DRIVER	E-CS-G227-Ø-1
STACK BOARD	E-CS-G619-Ø-1
SENSE INHIBIT (4K)	E-CS-G1Ø4-Ø-1
8K XY DRIVER	E-CS-G233-Ø-1
SENSE INHIBIT (8K)	E-CS-G111-Ø-1
8K STACK ASSY	E-CS-H212-Ø-1
MEMORY ASSY (4K)	D-UA-MMB-E-Ø
MEMORY ASSY (PL)	A-PL-MMB-E-Ø
MEMORY (8K)	D-UA-MMB-EJ-Ø
STACK 4K 12 BIT	D-UA-H220-Ø-Ø
ACCESSORY LIST	A-AL-MMB-E-3
12 BIT STACK BOARD	D-CS-6646-Ø-1
ACCEPTANCE PROCEDURE	A-SP-7665139-Ø-Ø
ACCEPTANCE PROCEDURE	A-SP-MMB-EJ-1

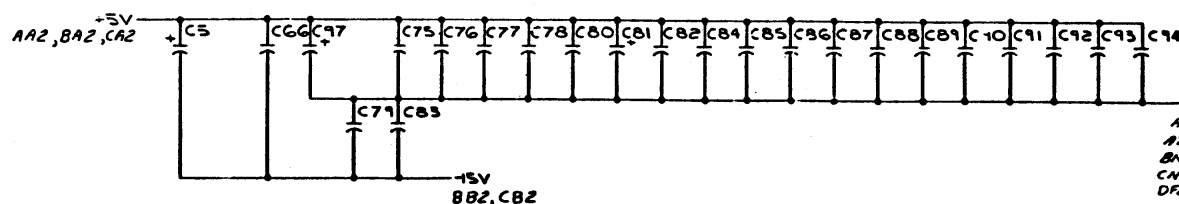
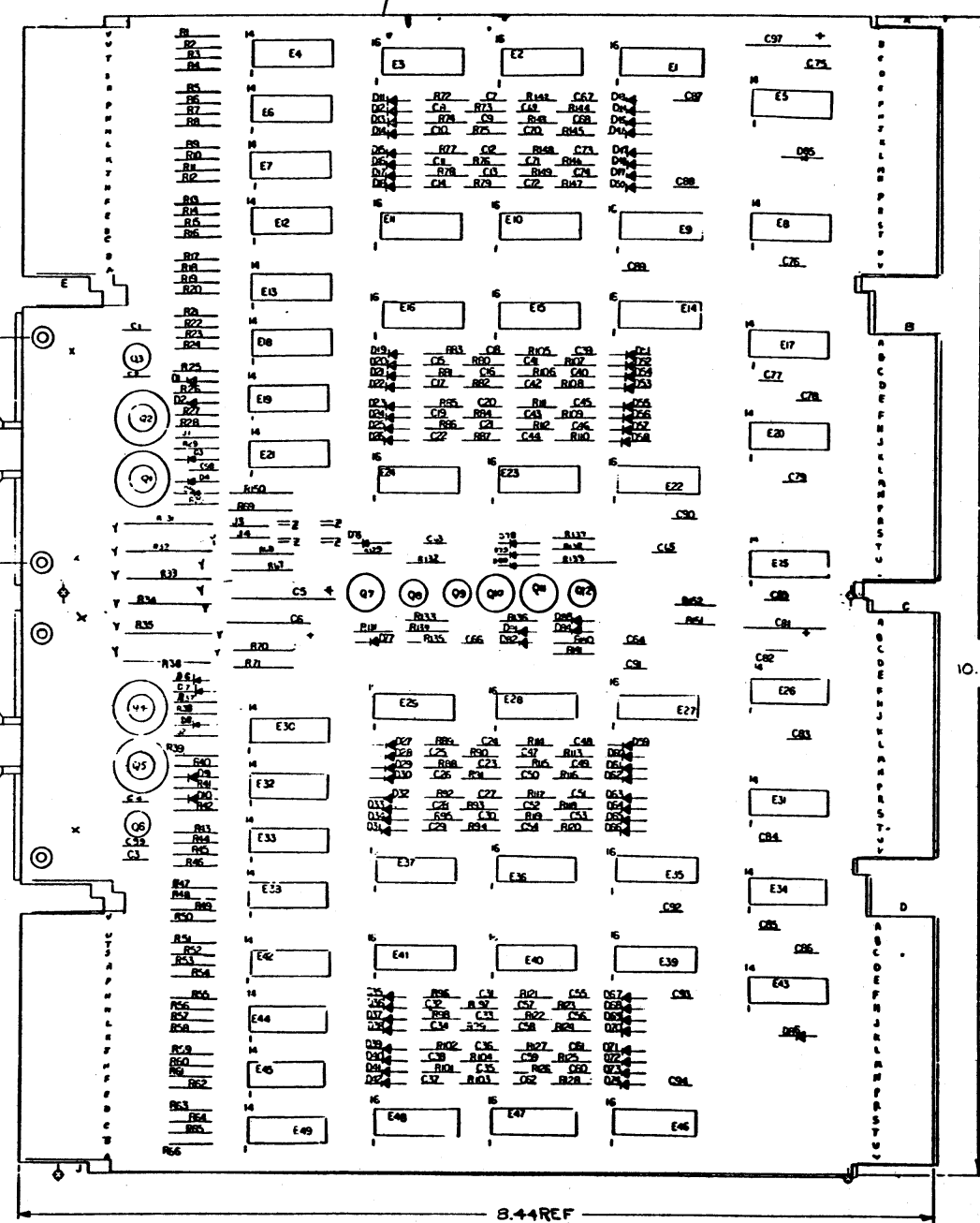
[illegible]

REVISIONS			USED ON OPTION/MODEL	DRN.	DATE	TITLE										
DATE	CHG. NO.	REV			F. CARBERRY	2/17/72	MEMORY									
					CHK'D	DATE										
					Z. Kalay	6-6-72										
					PROJ ENG	DATE										
						6/11/72										
					PROD.	DATE	SIZE	CODE	NUMBER	REV						
					Z. K. 11/11	6-2-72										
					FIELD SERV.	DATE	B	DD	M48-E							



TITLE	SIZE	CODE	NUMBER	REV
MEMORY	B	DD	MMB-E	
SHEET 2 OF 3				

DRB 108
DEC - 16- (325)-1062-2A-R272



AC2, AF1, AF2, AH1, AN2, AT1, AT2, BC1, BC2, BF1, BF2, BN1, BN2, BT1, BT2, CC1, CC2, CF1, CF2, CN1, CN2, CT1, CT2, DC1, DC2, DF1, DF2, DN1, DN2, DT1, DT2.

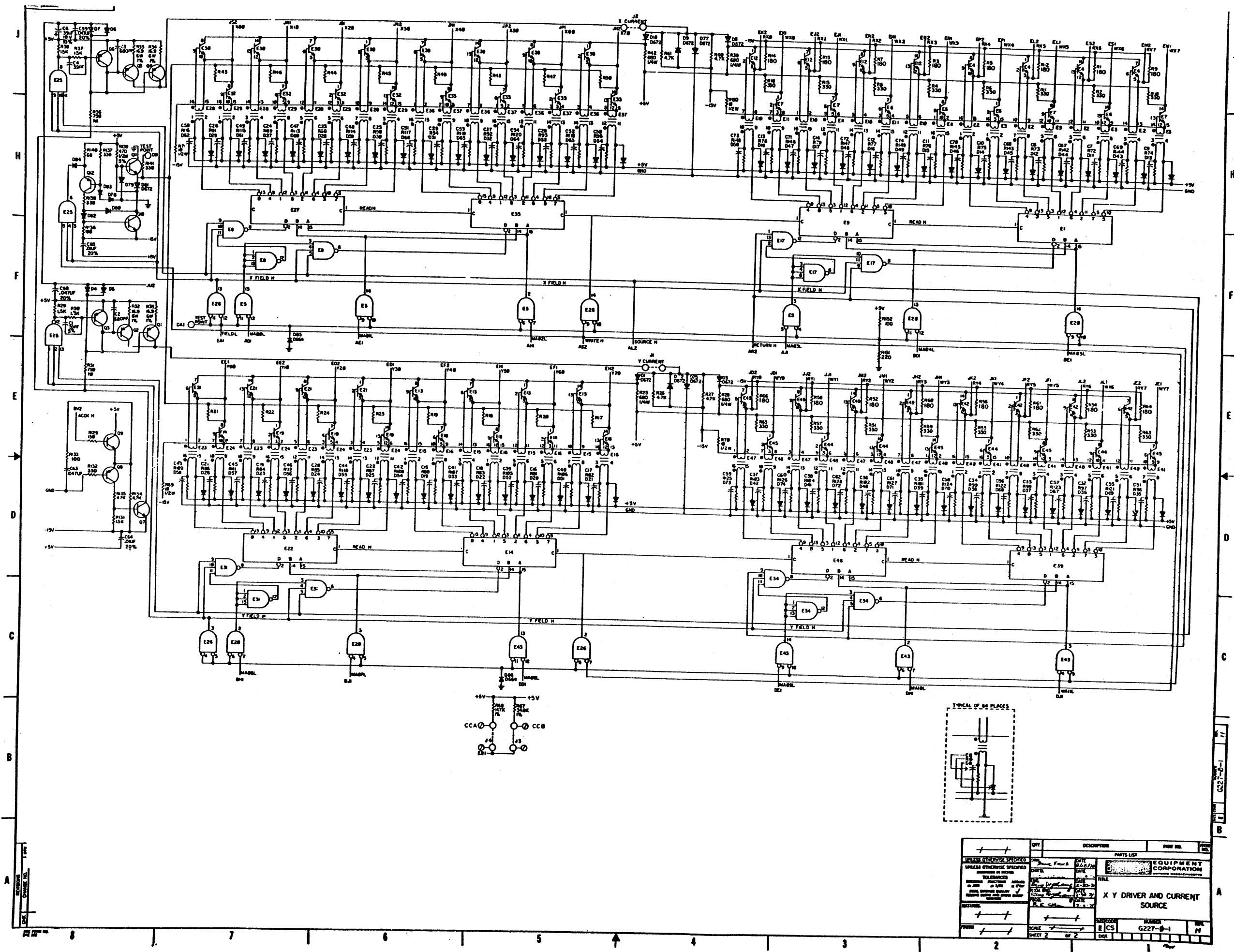
ITEM NO	QTY	REV	DATE	BY	CHKD	APPD	REMARKS
DEC6380	1	8	39	22	J4-A	J4-B	
DEC6251	8	16	39	22	J2-A	J2-B	
IC TYPE	QTY	REV	DATE	BY	CHKD	APPD	REMARKS
GND	+5V	39	22	J1-A	J1-B		
IC PIN LOCATIONS	JUMPER LIST						
QND AND DV ARE USUALLY PIN 7 AND 10 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE	ITEM NO	QTY	REV	DATE	BY	CHKD	REMARKS

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	REV
4	R1, R3, R5, R7, R9, R12, R14, R15, R52, R54, R56, R58, R60, R61, R64, R66	SPLIT LUGS	3006735	48
16		RES. 180 1/4W 5%	1301322	47
20	R2, R4, R6, R8, R11, R13, R16, R51, R53, R55, R57, R59, R62, R63, R65, R132, R137, R138, R141	RES. 330 1/4W 5%	1300295	46
E6	C2, C3, C7, C62, C67, C74	CAP. 680PF. 100V. 5% MICA	1000026	45
4		HEAT SINK	1210001	44
1	R140	RES. 68 1/4W. 5%	1300219	43
1	R139	RES. 470 1/2W. 5%	1300315	42
4	R25, R28, R39, R42	RES. 680 1/4W. 5%	1301424	41
2		SPACER/CABLE CLAMP	1202704	40
WIRE	WIRE #22AWG 3T20 TEF INS		0733055	39
8	E1, E9, E14, E22, E27, E35, E39, E46	I.C. DEC 8251	1909594	38
4	E5, E20, E26, E43	I.C. DEC 6380	1909971	37
1	E25	I.C. DEC 74H11	1909267	36
4	E8, E17, E31, E34, E35, E10, E11, E15, E16, E23, E24, E28, E29, E36, E37, E40, E41, E47, E48	I.C. DEC 74H10	1909057	35
16		PULSE TRANSFORMER	1609651	34
16	E4, E6, E7, E12, E13, E18, E19, E21, E30, E32, E33, E38, E42, E44, E45, E49	TRANSISTOR DEC4008	1510015	33
4	Q1, Q2, Q4, Q5	TRANSISTOR DEC 3762	1509649	32
2	Q3, Q6	TRANSISTOR DEC 4258	1505321	31
2	Q8, Q12	TRANSISTOR DEC 634B	1503409	30
1	Q9	TRANSISTOR DEC 3001B	1503100	29
3	Q7, Q10, Q11	TRANSISTOR DEC1008	1502155	28
4	R32-R35	RES. 1G. 9.6W. 1% BERYLLIUM	3100332	27
1	R67	RES. 348K 1/8W. 1% MF	1303156	26
1	R68	RES. 14.7K. 1/8W. 1% MF	1302941	25
6	R26, 27, 40, 41, 134, 135	RES. 4.7K. 1/4W. 5%	1300447	24
1	R29, R30, R31	RES. 5.9K. 1/4W. 5%	1300444	23
5	R38, R39, R30, R31, R131	RES. 15K. 1/4W. 5%	1300391	22
2	R31, R36	RES. 750. 1W. 5%	1302385	21
1	R1-R16, R51, R66, R132, R137, R138, R141	RES. 530. 1/4W. 5%	1300296	20
1	R151	RES. 220. 1/4W. 5%	1300271	19
81	R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100	RES. 150. 1/4W. 5%	1300250	18
3	R133, R136, R152	RES. 100. 1/4W. 5%	1300229	17
4	R69-R71, R150	RES. 10. 1/2W. 5%	1300168	16
9	D1-D3, D8-D10, D75, D77, D81	DIODE D672	1105275	15
76	D4-D7, D11-D74, D78-D80, D82-D86	DIODE D664	1100114	14
1	C5	CAP. 20UF. 50V. 10-75% ELKO	1002839	13
22	C64-C66, C75-C80, C82-C94	CAP. 01UF 100V. 20% DISC	1001610	12
3	C6, C81, C97	CAP. 3UF. 10V. 10% STANLY	1000076	11
3	C63, C98, C99	CAP. 047UF. 16V. 15-20% DISC	1009678	10
2	C65, C96	CAP. 500PF. 100V. 5% DISC	1000096	9
60	C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100	CAP. 680PF. 100V. 5% DISC	1000012	8
2	C1, C4	CAP. 39PF. 100V. 5% D.M.	1000010	7
4		EYELET #54-11 STIMPSON	10006750	6
1		HANDLE FLIP CHIP GREEN	100337-01	5
1		ETCHED CIRCUIT BOARD	1000332	4
1		MODULE HISTORY LIST	1000332	3
1		ASSY/DRILLING HOLE LAYOUT	1000332	2
1		XY COORDINATE HOLE LOC	1000332	1

REV	DESCRIPTION	DATE	BY	CHKD	APPD	REMARKS
DEC 3762	++					
DEC 4258	2N4258					
DEC 634B	MPS634B					
DEC 3001B	2N 3646					
DEC 1008	NONE					
DEC D672	IN 3653					
DEC D664	IN 3608					
DEC NO.	EDA NO.	D-1A-MM8-E-8				
REVISIONS	CHANGED BY					
1	ORIGINATED					
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3	CHANGED					
4	CHANGED					
5	CHANGED					
6	CHANGED					
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XY DRIVER & CURRENT SOURCE

ECS G227-2-1

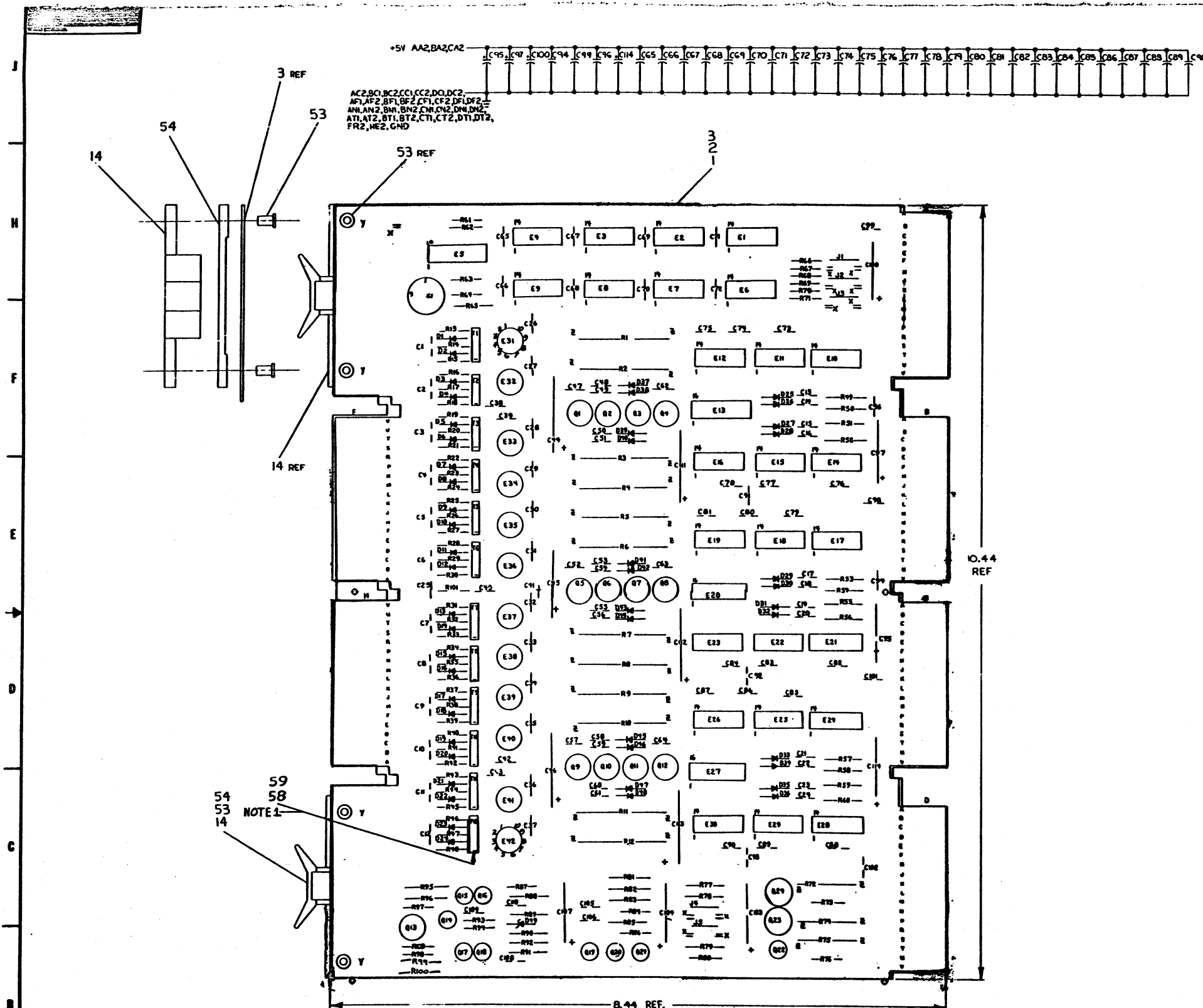


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	QTY.	DESCRIPTION	PART NO.	FREQ. NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES: FRACTIONS DECIMALS ANGLES ± .001 ± .005 ± .010 SURF. FINISHES: MILLING SURF. AND DRILL HOLE ENDS NONE	DRAWN BY J. JEANNE FRENCH	DATE 7/3/70	EQUIPMENT CORPORATION CORPORATION MEMPHIS, TENNESSEE 38103	
	CHECKED BY R. VOGELBANG	DATE 7/23/70	PLANAR STACK BOARD	
	DESIGNED BY R. VOGELBANG	DATE 7/23/70		
	APPROVED BY A.A. DICK	DATE 7-1-71		
	MATERIAL	QUANTITY		
	SCALE	SHEET		
	SIZE	NO.		
FORM	SCALE SHEET 2 OF 2	REV. ECS	REVISION GG9-0-1	REV.

NOTES:

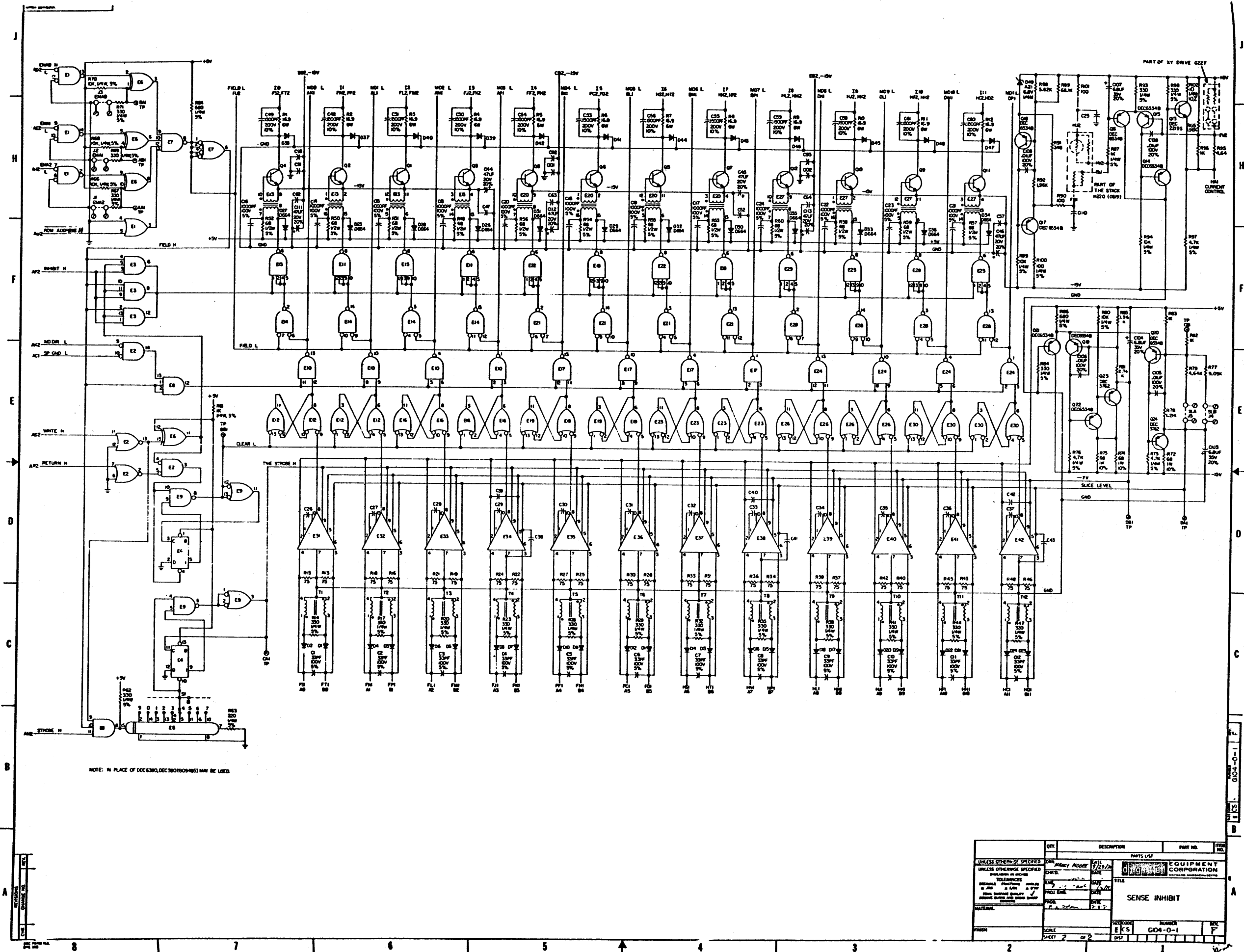
1. CUT CATERPILLER GROMMET (DEC 9007622) 7/8" LONG. ON ONE SIDE CUT TOOTH OUT 3/8" FROM ONE END. ON EACH END SPRAY WITH SCOTCH-GRIP ADHESIVE NO 77 (DEC 9008907) FOLLOW DIRECTIONS FOR NON-PERMANENT BONDS ON BACK OF CAN. PLACE THE GROMMET OVER 17Z5 TRANSFORMERS WITH CUTOUT TOOTH OVER CAPACITOR C40.

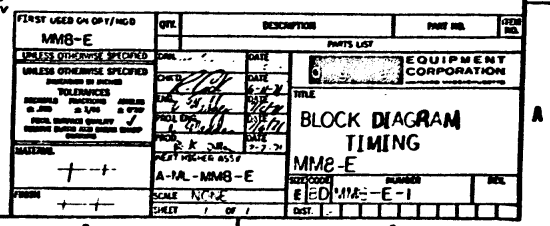


1	R102	RES. 10, 1/4W, 10%	1300170	62
11		SPLIT LUGS	1300170	61
1	R81	RES. 2.7K, 1/8W, 1% 100 MFP	1304868	60
W/R		SCOTCH GRIP ADHESIVE	9008907	59
W/R		CATERPILLER GROMMET	9007622	58
REF		ASSY/DRILLING HOLE LAYOUT	1304868	57
2	R90, R101	RES. 100, 1/8W, 1% 100 MFP	1302858	56
W/R		WIRE #22 AWG SOLID BUS	407560-01	55
2		SPACER (CABLE CLAMP)	1202704	54
4		EYELET #654-II E.B. STIMPSON	9006750	53
1	E6	IC. DEC 7486	1910011	52
3	E10, E17, E24	IC. DEC 8581	1904705	51
4	E14, E21, E28	IC. DEC 384	1904486	50
1	E2	IC. DEC 6380	1909371	49
2	E3, E8	IC. DEC 74H11	1904267	48
1	E9	IC. DEC 74H00N	1905056	47
6	E11, E15, E18, E22, E25, E29	IC. DEC 74H40N	1905586	46
1	E7	IC. DEC 7440N	1905579	45
6	E12, E16, E19, E23, E26, E30	IC. DEC 7400N	1905375	44
1	E4	IC. DEC 7474N	1905547	43
12	E31-E42	IC. MC 1540G	1905521	42
1	E5	ICONS DELAY LINE	1610033-0	41
3	E13, E20, E27	PULSE TRANSFORMER	1609946	40
12	T1-T2	TRANSFORMER 17Z-S	1609478	39
12	Q1-Q12	TRANSISTOR DEC 3734	1500662	38
2	Q23, Q24	TRANSISTOR DEC 3762	1500649	37
9	Q14-Q22	TRANSISTOR DEC 6534-B	1503409-01	36
1	Q13	TRANSISTOR DEC 2219-S	1501881	35
12	R1-R2	RES. 1K, 1/8W, 1% 100 MFP	1304679	34
12	R49-R50	RES. 68, 1/8W, 1% 100 MFP	1304605	33
1	R89	RES. 68, 1/8W, 1% 100 MFP	1305252	32
1	R88	RES. 5.6K, 1/8W, 1% 100 MFP	1305128	31
1	R41	RES. 348, 1/8W, 1% 100 MFP	1304858	30
2	R74, R95	RES. 4.6K, 1/8W, 1% 100 MFP	1304856	29
1	R77	RES. 9.0K, 1/8W, 1% 100 MFP	1304855	28
3	R65, R92, R85	RES. 1.9K, 1/8W, 1% 100 MFP	1304833	27
3	R82, R83, R96	RES. 1K, 1/8W, 1% 100 MFP	1303114	26
1	R78	RES. 1.21K, 1/8W, 1% 100 MFP	1302871	25
24	R13, R15, R16, R18, R19, R21, R22, R24, R25, R27, R28, R30, R31, R33, R34, R36, R37, R39, R40, R42, R43, R45, R46, R48	RES. 75, 1/8W, 1%	1303064	24
2	R64, R86	RES. 680, 1/4W, 5% CC	1301424	23
6	R66, R68, R70, R80, R84, R89	RES. 10K, 1/4W, 5% CC	1300479	22
3	R73, R76, R97	RES. 4.7K, 1/4W, 5% CC	1300447	21
2	R61, R87	RES. 1K, 1/4W, 5% CC	1300365	20
19	R41, R17, R20, R23, R26, R29, R32, R35, R38, R41, R44, R47, R62, R67, R69, R71, R84, R93, R98	RES. 330, 1/4W, 5% CC	1300295	19
1	R63	RES. 220, 1/4W, 5% CC	1300271	18
1	R100	RES. 100, 1/4W, 5% CC	1300229	17
3	R72, R74, R75	RES. 68, 1/4W, 5% CC	1300222	16
1	S1	ROTARY SWITCH	1210043-0	15
2	D44	HANDLE FLIP CHIP - GREEN	1006337-01	14
36	D1-D24, D37-D48	DIODE 1/4W, 6.8A21	100494	13
12	D25-D36	DIODE D672	1005275	12
12	D37-D48	DIODE D664	1000114	11
32	C23-C43, C47, C52, C57, C62-C64, C74-C76, C78, C101, C102, C110	CAR .047MFD 50V 20% DISC	100678	10
33	C44-C46, C48-C51, C53-C56, C58-C61, C65-C69, C71, C73, C75, C77, C79, C81, C83, C85, C87, C89, C91, C93, C95, C97, C99, C103, C104, C107, C109	CAR .01MFD 100V 20% DISC	100610	9
6	C44-C46, C48-C51, C53-C56, C58-C61, C65-C69, C71, C73, C75, C77, C79, C81, C83, C85, C87, C89, C91, C93, C95, C97, C99, C103, C104, C107, C109	CAR .01MFD 20V 20% C. TANT	1000079	8
7	C45, C47, C50, C52, C54, C56, C58, C60, C62, C64, C66, C68, C70, C72, C74, C76, C78, C80, C82, C84, C86, C88, C90, C92, C94, C96, C98, C100, C102, C104, C106, C108, C110	CAR .01MFD 35V 20% C. TANT	1000067	7
12	C48-C53, C56-C58, C61-C63, C65-C67, C69-C71, C73-C75, C77-C79, C81-C83, C85-C87, C89-C91, C93-C95, C97-C99, C101-C103, C105-C107, C109-C111	CAR .0001F 200V 10% DISC	1000054	6
12	C13-C24	CAR .0001F 100V 5% D. MICA	1000042	5
12	C1-C12	CAR .001F 100V 5% D. MICA	1000001	4
1		ETCHED CIRCUIT BOARD	5003341	3
REF		MODULE ECO HISTORY	8-M-654-9-4	2
REF		X-Y COORDINATE HOLE LOCATION	X-CO-654-9-4	1

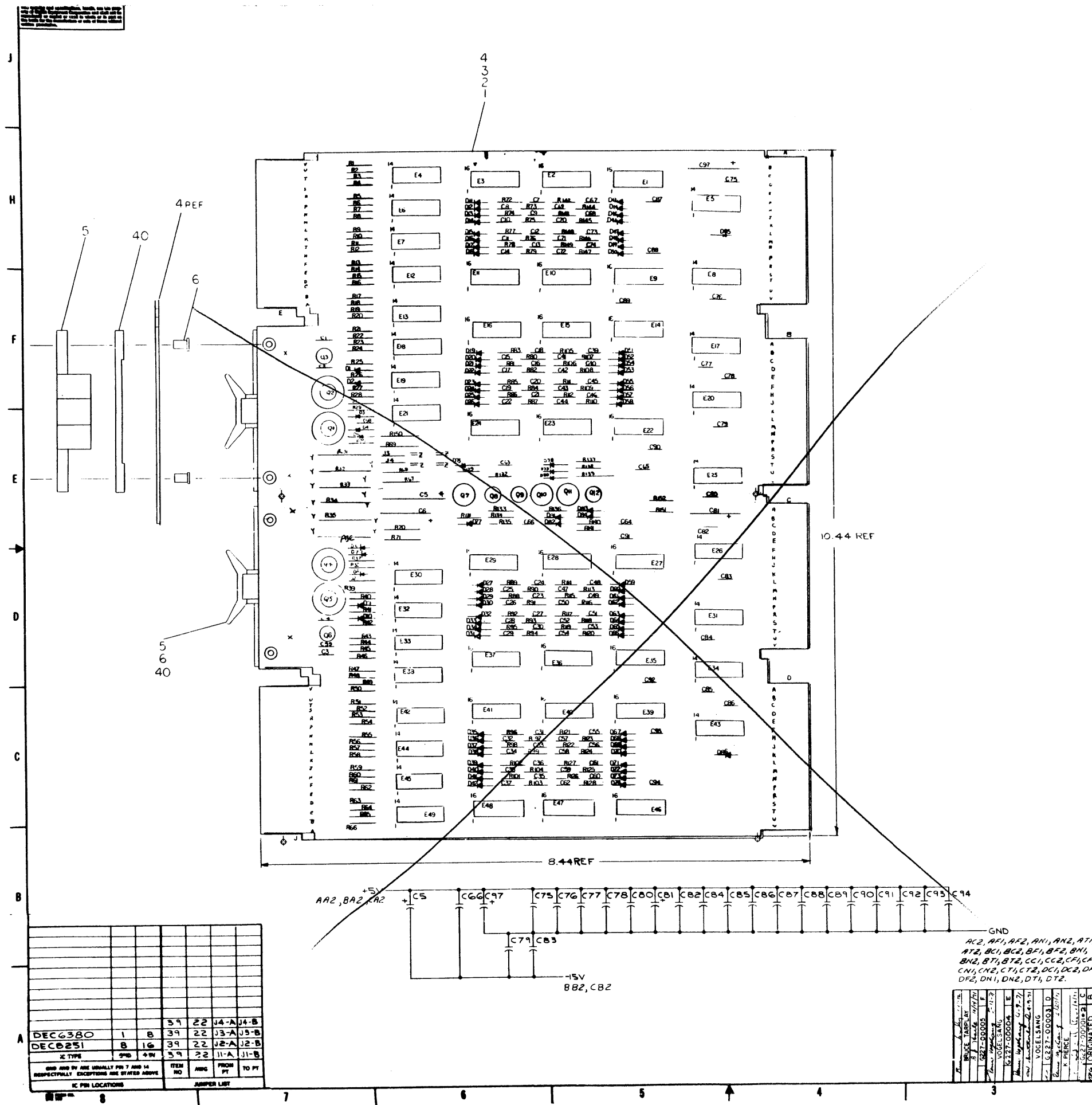
REV	DESIGNATION	DESCRIPTION	REV NO.
1	DEC 3734	SAME	1
2	DEC 3762	SAME	1
3	DEC 6534-B	MS6534	1
4	DEC 2219-S	2N 2219	1
5	IN 4M 6.8A21	IN4099	1
6	D672	IN3653	1
7	D664	IN3606	1
8	DEC NO	EDA NO	1
9	DEC NO	EDA NO	1
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97	DEC NO	EDA NO	1
98	DEC NO	EDA NO	1
99	DEC NO	EDA NO	1
100	DEC NO	EDA NO	1

REV	DESIGNATION	DESCRIPTION	REV NO.
1	DEC 380	I 8	1
2	DEC 384	I 8	1
3	DEC 380	I 8	1
4	DEC 384	I 8	1
5	DEC 380	I 8	1
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18	DEC 384	I 8	1
19	DEC 380	I 8	1
20	DEC 384	I 8	1
21	DEC 380	I 8	1
22	DEC 384	I 8	1
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83	DEC 380	I 8	1
84	DEC 384	I 8	1
85	DEC 380	I 8	1
86	DEC 384	I 8	1
87	DEC 380	I 8	1
88	DEC 384	I 8	1
89	DEC 380	I 8	1
90	DEC 384	I 8	1
91	DEC 380	I 8	1
92	DEC 384	I 8	1
93	DEC 380	I 8	1
94	DEC 384	I 8	1
95	DEC 380	I 8	1
96	DEC 384	I 8	1
97	DEC 380	I 8	1
98	DEC 384	I 8	1
99	DEC 380	I 8	1
100	DEC 384	I 8	1

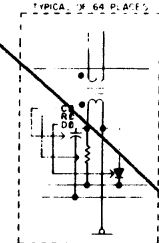




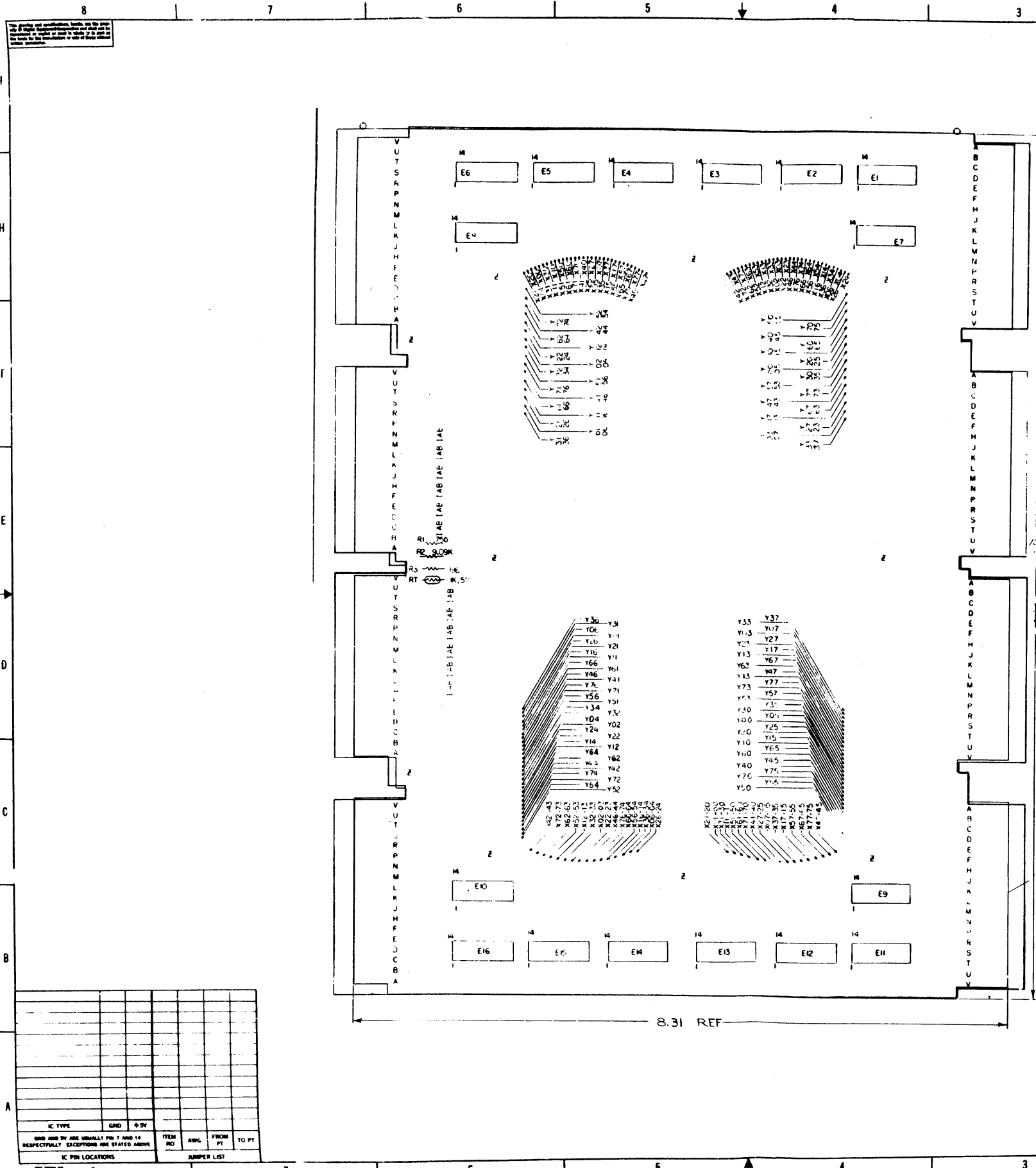
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1



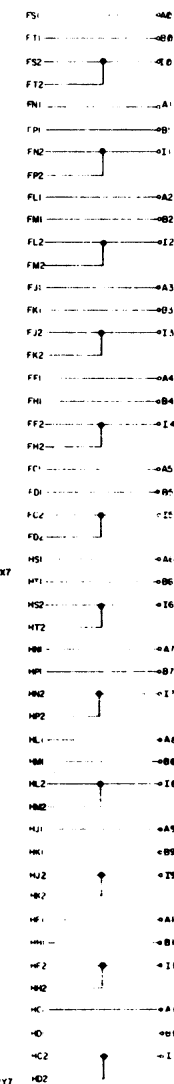
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED DIMENSIONS IN MILLIMETERS TOLERANCES FRACTIONS ANGLES DECIMALS .0005 .0010 .0015 .0020 .0025 .0030 .0035 .0040 .0045 .0050 .0055 .0060 .0065 .0070 .0075 .0080 .0085 .0090 .0095 .0100 .0105 .0110 .0115 .0120 .0125 .0130 .0135 .0140 .0145 .0150 .0155 .0160 .0165 .0170 .0175 .0180 .0185 .0190 .0195 .0200 .0205 .0210 .0215 .0220 .0225 .0230 .0235 .0240 .0245 .0250 .0255 .0260 .0265 .0270 .0275 .0280 .0285 .0290 .0295 .0300 .0305 .0310 .0315 .0320 .0325 .0330 .0335 .0340 .0345 .0350 .0355 .0360 .0365 .0370 .0375 .0380 .0385 .0390 .0395 .0400 .0405 .0410 .0415 .0420 .0425 .0430 .0435 .0440 .0445 .0450 .0455 .0460 .0465 .0470 .0475 .0480 .0485 .0490 .0495 .0500 .0505 .0510 .0515 .0520 .0525 .0530 .0535 .0540 .0545 .0550 .0555 .0560 .0565 .0570 .0575 .0580 .0585 .0590 .0595 .0600 .0605 .0610 .0615 .0620 .0625 .0630 .0635 .0640 .0645 .0650 .0655 .0660 .0665 .0670 .0675 .0680 .0685 .0690 .0695 .0700 .0705 .0710 .0715 .0720 .0725 .0730 .0735 .0740 .0745 .0750 .0755 .0760 .0765 .0770 .0775 .0780 .0785 .0790 .0795 .0800 .0805 .0810 .0815 .0820 .0825 .0830 .0835 .0840 .0845 .0850 .0855 .0860 .0865 .0870 .0875 .0880 .0885 .0890 .0895 .0900 .0905 .0910 .0915 .0920 .0925 .0930 .0935 .0940 .0945 .0950 .0955 .0960 .0965 .0970 .0975 .0980 .0985 .0990 .0995 .1000 .1005 .1010 .1015 .1020 .1025 .1030 .1035 .1040 .1045 .1050 .1055 .1060 .1065 .1070 .1075 .1080 .1085 .1090 .1095 .1100 .1105 .1110 .1115 .1120 .1125 .1130 .1135 .1140 .1145 .1150 .1155 .1160 .1165 .1170 .1175 .1180 .1185 .1190 .1195 .1200 .1205 .1210 .1215 .1220 .1225 .1230 .1235 .1240 .1245 .1250 .1255 .1260 .1265 .1270 .1275 .1280 .1285 .1290 .1295 .1300 .1305 .1310 .1315 .1320 .1325 .1330 .1335 .1340 .1345 .1350 .1355 .1360 .1365 .1370 .1375 .1380 .1385 .1390 .1395 .1400 .1405 .1410 .1415 .1420 .1425 .1430 .1435 .1440 .1445 .1450 .1455 .1460 .1465 .1470 .1475 .1480 .1485 .1490 .1495 .1500 .1505 .1510 .1515 .1520 .1525 .1530 .1535 .1540 .1545 .1550 .1555 .1560 .1565 .1570 .1575 .1580 .1585 .1590 .1595 .1600 .1605 .1610 .1615 .1620 .1625 .1630 .1635 .1640 .1645 .1650 .1655 .1660 .1665 .1670 .1675 .1680 .1685 .1690 .1695 .1700 .1705 .1710 .1715 .1720 .1725 .1730 .1735 .1740 .1745 .1750 .1755 .1760 .1765 .1770 .1775 .1780 .1785 .1790 .1795 .1800 .1805 .1810 .1815 .1820 .1825 .1830 .1835 .1840 .1845 .1850 .1855 .1860 .1865 .1870 .1875 .1880 .1885 .1890 .1895 .1900 .1905 .1910 .1915 .1920 .1925 .1930 .1935 .1940 .1945 .1950 .1955 .1960 .1965 .1970 .1975 .1980 .1985 .1990 .1995 .2000 .2005 .2010 .2015 .2020 .2025 .2030 .2035 .2040 .2045 .2050 .2055 .2060 .2065 .2070 .2075 .2080 .2085 .2090 .2095 .2100 .2105 .2110 .2115 .2120 .2125 .2130 .2135 .2140 .2145 .2150 .2155 .2160 .2165 .2170 .2175 .2180 .2185 .2190 .2195 .2200 .2205 .2210 .2215 .2220 .2225 .2230 .2235 .2240 .2245 .2250 .2255 .2260 .2265 .2270 .2275 .2280 .2285 .2290 .2295 .2300 .2305 .2310 .2315 .2320 .2325 .2330 .2335 .2340 .2345 .2350 .2355 .2360 .2365 .2370 .2375 .2380 .2385 .2390 .2395 .2400 .2405 .2410 .2415 .2420 .2425 .2430 .2435 .2440 .2445 .2450 .2455 .2460 .2465 .2470 .2475 .2480 .2485 .2490 .2495 .2500 .2505 .2510 .2515 .2520 .2525 .2530 .2535 .2540 .2545 .2550 .2555 .2560 .2565 .2570 .2575 .2580 .2585 .2590 .2595 .2600 .2605 .2610 .2615 .2620 .2625 .2630 .2635 .2640 .2645 .2650 .2655 .2660 .2665 .2670 .2675 .2680 .2685 .2690 .2695 .2700 .2705 .2710 .2715 .2720 .2725 .2730 .2735 .2740 .2745 .2750 .2755 .2760 .2765 .2770 .2775 .2780 .2785 .2790 .2795 .2800 .2805 .2810 .2815 .2820 .2825 .2830 .2835 .2840 .2845 .2850 .2855 .2860 .2865 .2870 .2875 .2880 .2885 .2890 .2895 .2900 .2905 .2910 .2915 .2920 .2925 .2930 .2935 .2940 .2945 .2950 .2955 .2960 .2965 .2970 .2975 .2980 .2985 .2990 .2995 .3000 .3005 .3010 .3015 .3020 .3025 .3030 .3035 .3040 .3045 .3050 .3055 .3060 .3065 .3070 .3075 .3080 .3085 .3090 .3095 .3100 .3105 .3110 .3115 .3120 .3125 .3130 .3135 .3140 .3145 .3150 .3155 .3160 .3165 .3170 .3175 .3180 .3185 .3190 .3195 .3200 .3205 .3210 .3215 .3220 .3225 .3230 .3235 .3240 .3245 .3250 .3255 .3260 .3265 .3270 .3275 .3280 .3285 .3290 .3295 .3300 .3305 .3310 .3315 .3320 .3325 .3330 .3335 .3340 .3345 .3350 .3355 .3360 .3365 .3370 .3375 .3380 .3385 .3390 .3395 .3400 .3405 .3410 .3415 .3420 .3425 .3430 .3435 .3440 .3445 .3450 .3455 .3460 .3465 .3470	
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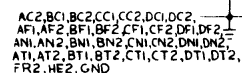


- NOTES:
1. UNLESS OTHERWISE INDICATED:
GND=AC2,AF1,AF2,AN1,AN2,AT1,AT2,BC1,BC2
BF1,BF2,BN1,BN2,BT1,BT2,CC1,CC2,CF1,CF2
CN1,CN2,CT1,CT2,DC1,DC2,DF1,DF2,DN1,DN2
DT1,DT2
 2. DIODE ARRAYS WILL BE MOUNTED BY STACK
VENDOR. DIODE ARRAYS ARE DEC2501
 3. THERMISTOR (RT) 1.0K, 1% AT 25°C

IC TYPE	GND	+5V	ITEM NO	AVG	FROM PT	TO PT
IC PIN LOCATIONS						
JUMPER LIST						

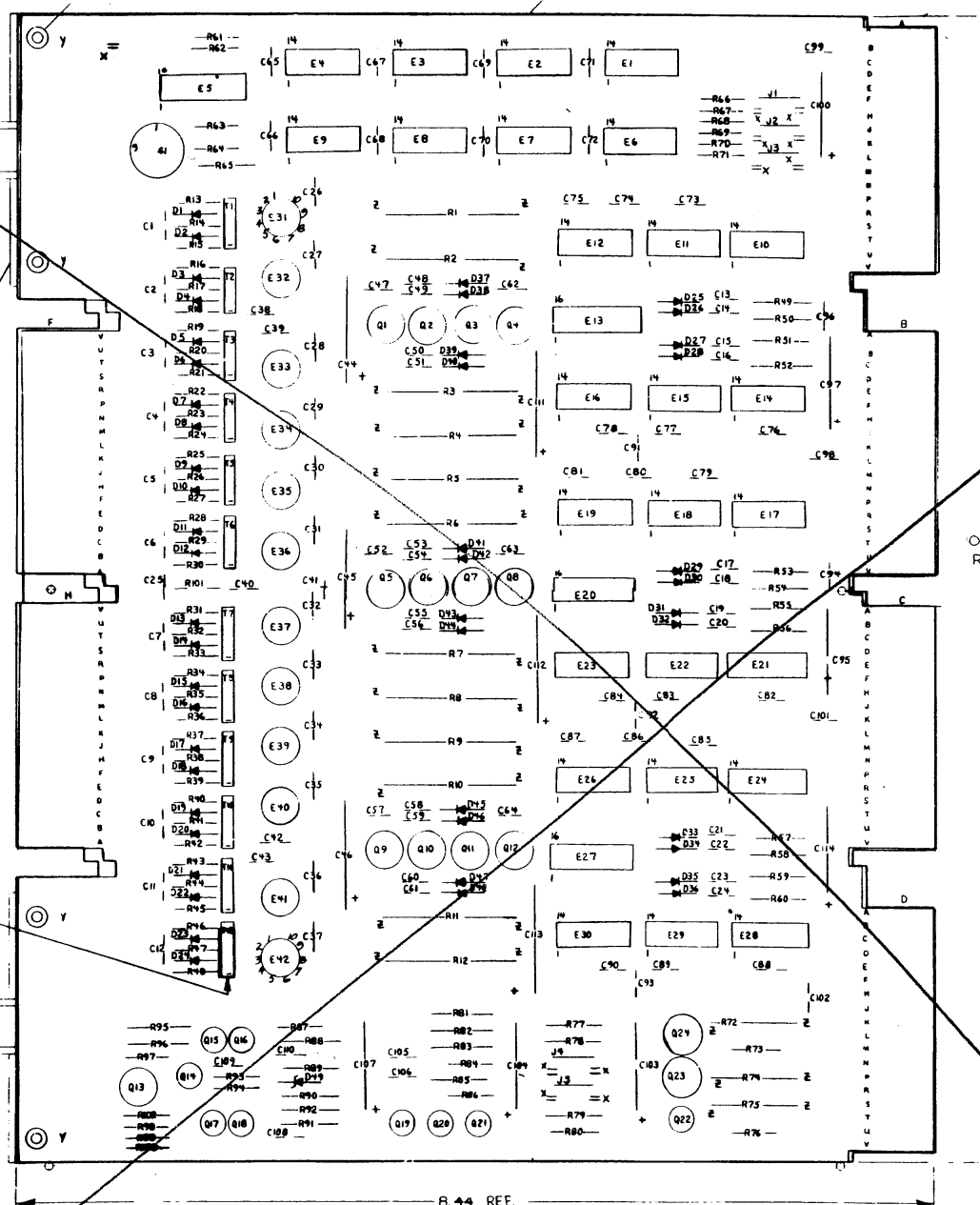
16E1-E16	IC DEC 2501	1910010	4
RT	RES 1K THERMISTOR 1%	1310071	4
R2	RES 9.09 1/8W 1% MF	1304885	4
R3	RES 146 1/8W 1% MF	1302950	4
R1	RES 750 1/8W 1% MF	1302955	4
REV	ETCHED CIRCUIT BOARD	5009057	4
REF	MODULE HISTORY LIST	3-MH 6619-0-1	4
REF	ASSY/DRILLING HOLE LAYOUT	3-MH 6619-0-1	4
REF	AT COORDINATE HOLE LOC	3-MH 6619-0-1	4
QTY	REF DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST			
REV COLUMN			
PRINTED CIRCUIT BOARD REVISION			
CIRCUIT SCH REVISION			
EQUIPMENT CORPORATION			
TITLE			
PLANAR STACK BOARD			
G619			
D UA-H220-0-0			
ECS 6619-0-1			
SEMICONDUCTOR CONVERSION CHART			
SCALE 271			
SHEET 1 OF 2			

[illegible]



NOTES:

1. CUT CATERPILLER GROMMET DEC 9007622)
7-8 LONG. ON ONE SIDE CUT TOOTH OUT 3/8
FROM ONE END. ON EACH END SPRAY WITH
SCOTCH-GRIP ADHESIVE NO 77(DEC 9008307)
FOLLOW DIRECTIONS FOR NON-PERMANENT
BONDS ON BACK OF CAN. PLACE THE
GROMMET OVER T25 TRANSFORMERS
WITH CUT OUT TOOTH OVER CAPACITOR
C40.



1	R102	RES. 10, 1/4W, 10%	1300170	62
11		SPLIT LUGS	9006735	61
J	R81	RES 2.74 8W 1/2 100 MFP	1304868	60
N/R		SCOTCH GRIP ADHESIVE	9008507	59
N/R		CATERPILLER GROMMET	9007622	58
REF		ASSY/DRILLING HOLE LAYOUT	9007622	57
2	R90, R101	RES. 100, 1/8W, 1% 100 MFP	1302858	56
2		WIRE # 22 AWG SOLID BUS	9107500-01	55
2		SPACER (CABLE CLAMP)	1020704	54
1		EYELET #654-II E.B. STIMPSON	9006750	53
1	E6	I.C. DEC 7486	1910011	52
3	E10,E17,E24	I.C. DEC 8881	1900056	51
4	E1E14,E21,E28	I.C. DEC 384	1904446	50
J	E2	I.C. DEC 8380	1909971	49
2	E3,E6	I.C. DEC 74H11	1909267	48
1	E9	I.C. DEC 74H00N	1909056	47
6	E1E15,E18,E22,E25,E29	I.C. DEC 74H40N	1905586	46
1	E17	I.C. DEC 7440N	1905574	45
6	E12,E16,E19,E23,E26,E30	I.C. DEC 7400N	1905575	44
1	E4	I.C. DEC 7474N	1905547	43
12	E31-E42	I.C. MC 1540C	1905521	42
3	E5	100N5 DELAY LINE	1610033-0	41
3	E13, E20, E27	PULSE TRANSFORMER	1604996	40
12	T1-T12	TRANSFORMER DEC 173 -5	1604478	39
12	Q1-Q12	TRANSISTOR DEC 33A	1509476	38
2	Q23,Q24	TRANSISTOR DEC 3762	1509449	37
9	Q14-Q22	TRANSISTOR DEC 6534-B	1503409-01	36
1	Q13	TRANSISTOR DEC 2219-S	1508881	35
12	RI-R12	RES. 1/4W, 10%	1306774	34
12	R44-R60	RES. 6.2W, 5% CC	1309405	33
1	R89	RES. 68.1K, 1/8W, 1% 100 MFP	1305252	32
1	R88	RES. 5.62K, 1/8W, 1% 100 MFP	1305128	31
1	R81	RES. 348, 1/8W, 1% 100 MFP	1304858	30
2	R79, R95	RES. 4.64K, 1/8W, 1% 100 MFP	1304856	29
1	R77	RES. 1.96K, 1/8W, 1% 100 MFP	1304853	28
3	R65, R92, R85	RES. 9.6K, 1/8W, 1% 100 MFP	1304833	27
3	R82, R83, R96	RES. 1K, 1/8W, 1% 100 MFP	1303114	26
1	R78	RES. 1.21K, 1/8W, 1% 100 MFP	1302871	25

24	R12,R15,R16,R19,R21, R22,R24,R25,R27,R28, R30,R31,R33,R34,R36, R37,R39,R40,R42,R43, R45,R46,R48	RES. 75 1/8W 1%	1303064	24
25	R64,R86 R66,R68,R70,R80, R82,R84	RES. 680. 1/4W,5% CC	1301424	23
26	R66,R68,R70,R80, R82,R84	RES. 10K, 1/4W,5% CC	1300-79	22
27	R73,R76,R97	RES. 4.7K, 1/4W,5% CC	1300447	21
28	R61,R87	RES. 1K, 1/4W,5% CC	1300365	20

19	R4,R17,R20,R23,R26, R29,R32,R35,R38,R41, R44,R47,R62,R67,R69, R71,R84,R93,R98	RES. 33C,1/4W,5/ CC	1-00295	19
	R63	RES. 220,1/4W,5X CC	300271	18
	R100	RES. 100,1/4W,5X CC	1300229	17
3	R72,R74,R75	RES. 6B,1/4W,10X CC	1300222	16
1	SI	ROTARY SWITCH	1210043-0	15

2		HANDLE FLIP CHIP - GREEN	1008337-01	14
1	D49	DIODE 1/4M 6.8A21	1109491	13
36	D1-D24, D37-D48	DIODE D672	1105275	12
12	D25-D36	DIODE D664	1100114	11
32	C25-C43, C47, C52, C57, C62-C64, C9-C13, C98, CAP .047MFD 16V 20% DISC		1009678	10

	C101, C102, C110			
33	C65-C90, C94, C96, C99, C105, C106, C108, C109	CAP. OMIFED 100V 20% DISC	1001610	9

6	C44-C46, C111-C113	CAP. 47BFD 20V 20% S. TANT	10000074	8
7	C45, C97, C100, C103, C104, C107, C114	CAP. 6.BMFD 35V 20% S. TANT	10000067	7
12	C48-C53, C53-C56, C58-C61	CAP. 1500PF 200V 10% DISC	10000054	6
13	C13-C24	CAP. 1000PF 500V 5% MICA	1000042	5

12	C15-C24	CAP. 33PF 100V 5% D. MICA	10000009	4
1	C1-C12	ETCHED CIRCUIT BOARD	5008847	3
REF		MODULE ECO HISTORY	B-MH-GM4-Q-6	2
REF		X-Y COORDINATE HOLE LOCATION	K-CO-GM4-Q-4	1

QTY.	REF DESIGNATION	DESCRIPTION	PART NO.	FIG. NO.
PARTS LIST				

[illegible]

		BOARD REVISION	
DEC 3734	SAME	CIRCUIT SCH REVISION	F

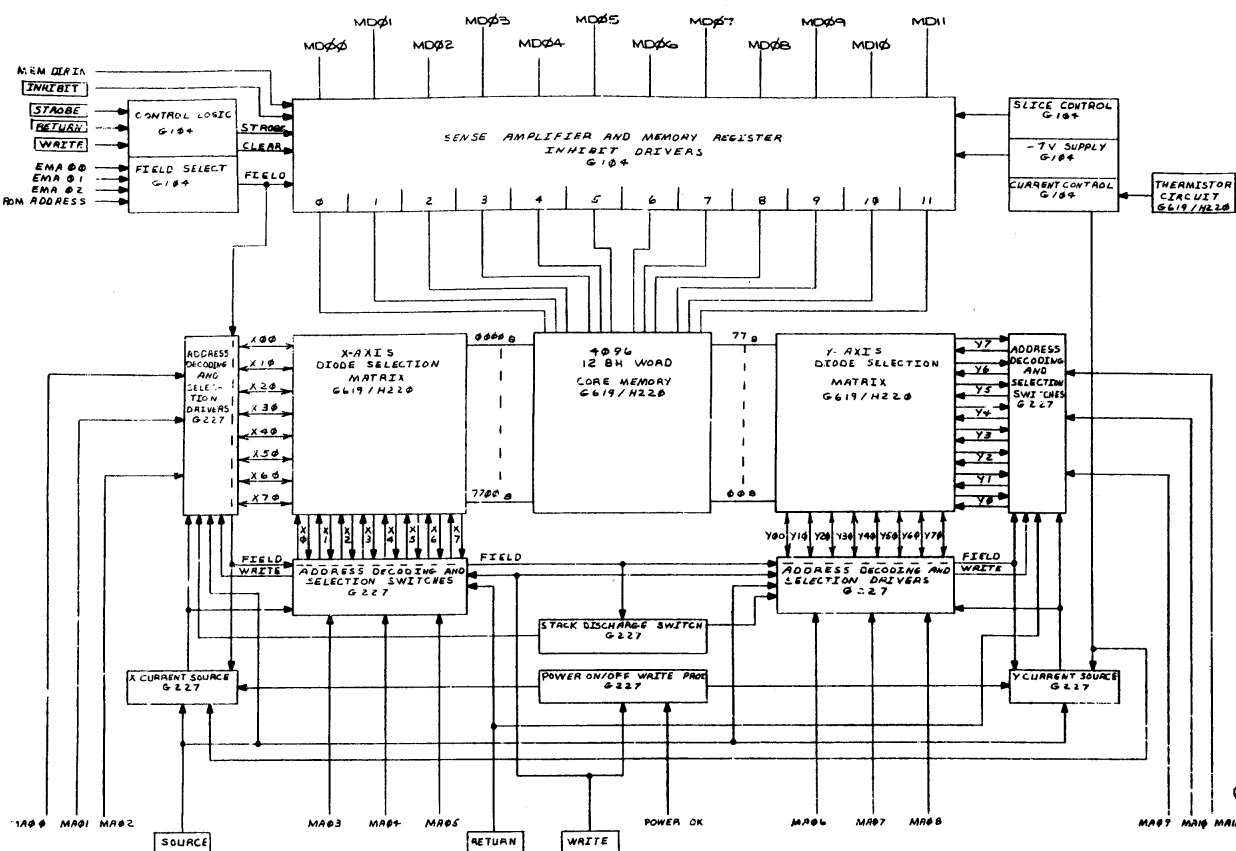
DEC 3762	SAME	DEC 3762	12/11	 EQUIPMENT CORPORATION MALDEN, MASSACHUSETTS
DEC 6534	BMP54534	DEC 6534	12/11	
DEC 2219-S	2N 2219	DEC 2219-S	12/11	

14 M 6.8AZ	IN4044	Pass to play	9/17
D672	IN3653		
D664	IN3606	6.6 m	7.6.21
DEC 30	ESB 30	NOT USED ON	

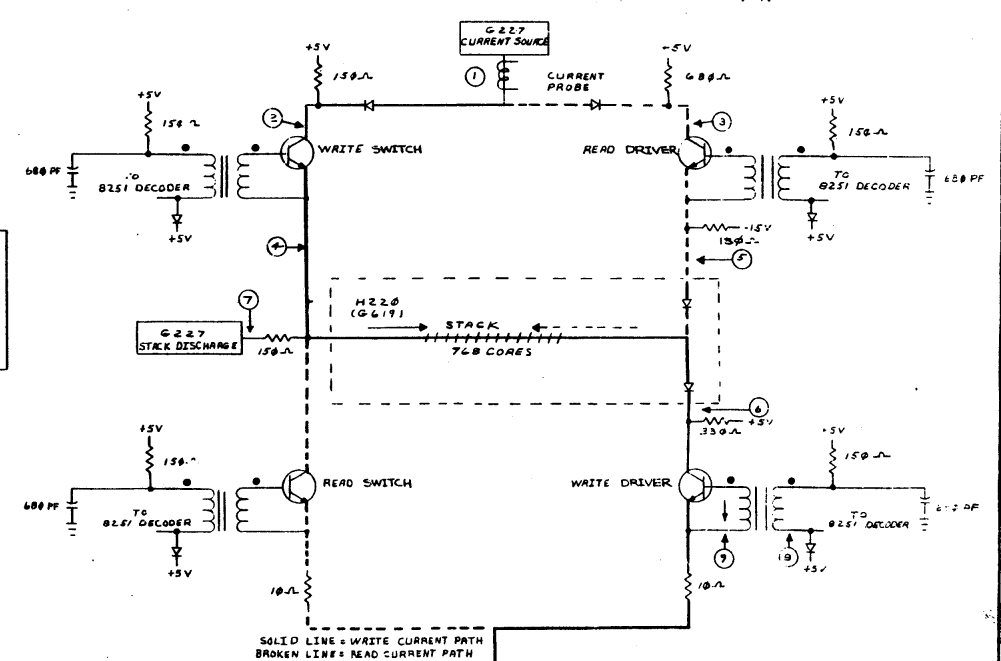
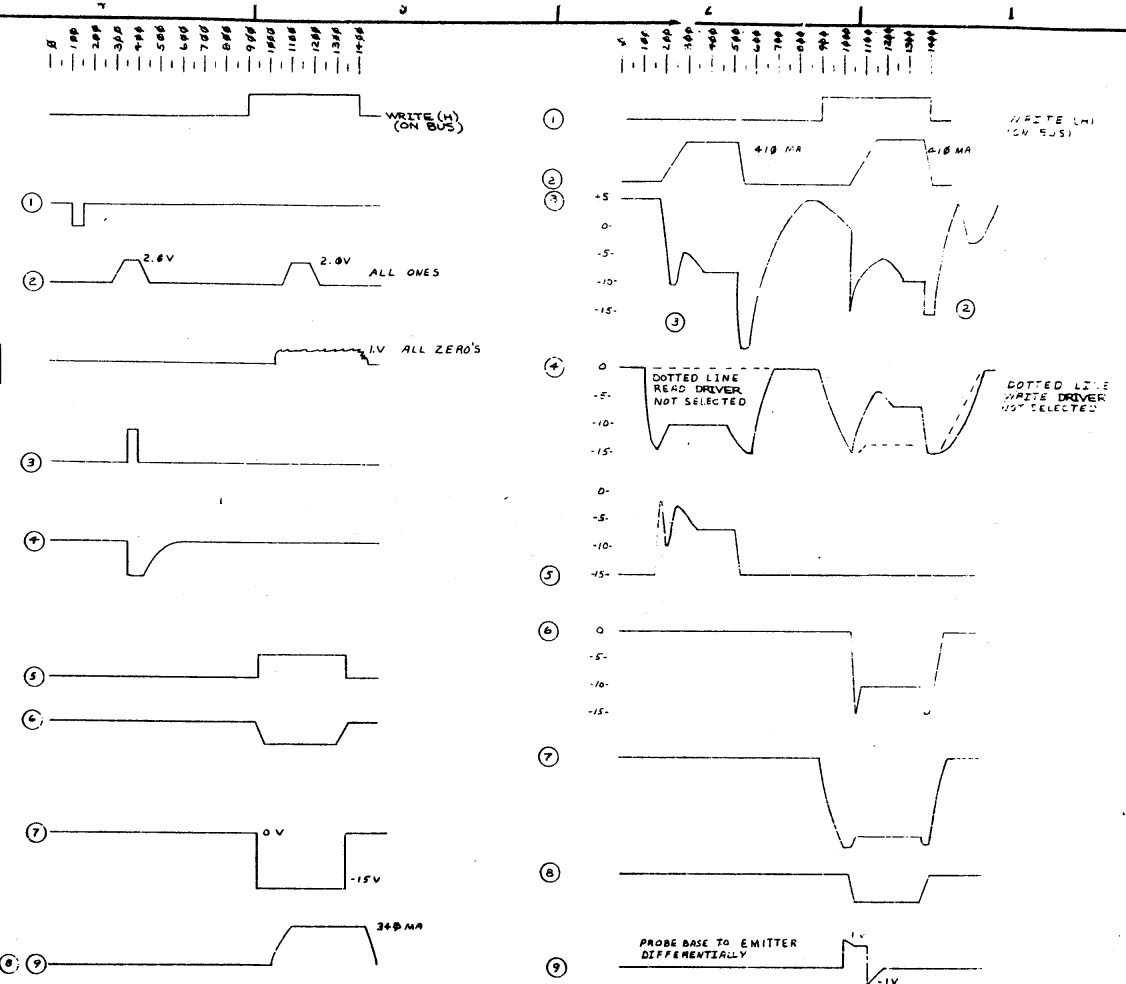
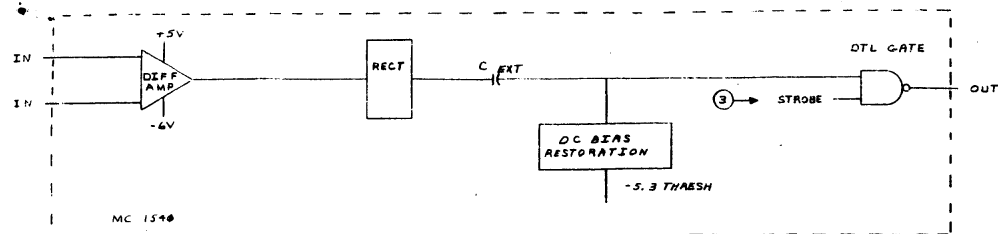
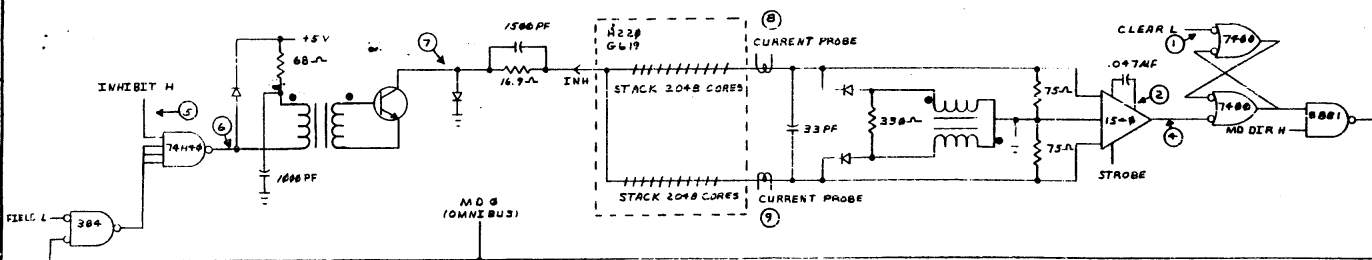
SEMICONDUCTOR CONVERSION CHART		SCALE 1 OF 2	CODE ECS	ALPHANUM 3-04-0-1	REV. F
SHEET 1 OF 2		REV.			

[illegible][illegible]

The timing and sequence of signals shown in this diagram are based on the timing and sequence of signals shown in the block diagram of the MM8-E.



MEMORY TIMING SIGNALS GENERATED IN THE CP



ITEM NO.	DESCRIPTION	QTY.	PART NO.	ITEM NO.
1	MM8-E	1		1
2	MM8-E	1		2
3	MM8-E	1		3
4	MM8-E	1		4
5	MM8-E	1		5
6	MM8-E	1		6
7	MM8-E	1		7
8	MM8-E	1		8
9	MM8-E	1		9

BLOCK DIAGRAM
TIMING
MM8-E
A-ML-MM8-E
E180MM8-E-1
1 OF 1