

- NOTES:**
1. W1 (NUMBER) TO BE INSERTED BY CUSTOMER ONLY.
 2. THE STICKER READS AS FOLLOWS:
 *M8330 ETCH D MAY BE REPLACED WITH ETCH C IF MACHINE USES ONLY CORE MEMORY SEMICONDUCTOR MEMORIES MAY REQUIRE ETCH D OR LATER.
 *PRINT SIDE UPON SO THAT PIN 1 IS CLOSEST TO THE FINGERS. PIN 1 IS IDENTIFIED BY A GOLDEN EDGE ON SIDE OF ICG CAR.
 3. M8330 -YB IS TO BE USED ONLY WITH THE M83F OPTION ONLY.
 4. THE YB VARIATION WILL BE CREATED BY INSTALLING ECO No.5 M8330 -00006 & M8550 -00007 IN M8330 ETCH REV D OR LATER.

REF	IC DESIGNATION	IC PART NO.	QTY
1	E17	IC DEC 1584	1A10999 21
2	E18	WIRE #30 AWG	912120-55 53
3	E19	IC DEC 1584	1B11440-00 52
4	E20	IC DEC 1584	1B11440-00 52
5	E21	IC DEC 1584	1B11440-00 52
6	E22	IC DEC 1584	1B11440-00 52
7	E23	IC DEC 1584	1B11440-00 52
8	E24	IC DEC 1584	1B11440-00 52
9	E25	IC DEC 1584	1B11440-00 52
10	E26	IC DEC 1584	1B11440-00 52
11	E27	IC DEC 1584	1B11440-00 52
12	E28	IC DEC 1584	1B11440-00 52
13	E29	IC DEC 1584	1B11440-00 52
14	E30	IC DEC 1584	1B11440-00 52
15	E31	IC DEC 1584	1B11440-00 52
16	E32	IC DEC 1584	1B11440-00 52
17	E33	IC DEC 1584	1B11440-00 52
18	E34	IC DEC 1584	1B11440-00 52
19	E35	IC DEC 1584	1B11440-00 52
20	E36	IC DEC 1584	1B11440-00 52
21	E37	IC DEC 1584	1B11440-00 52
22	E38	IC DEC 1584	1B11440-00 52
23	E39	IC DEC 1584	1B11440-00 52
24	E40	IC DEC 1584	1B11440-00 52
25	E41	IC DEC 1584	1B11440-00 52
26	E42	IC DEC 1584	1B11440-00 52
27	E43	IC DEC 1584	1B11440-00 52
28	E44	IC DEC 1584	1B11440-00 52
29	E45	IC DEC 1584	1B11440-00 52
30	E46	IC DEC 1584	1B11440-00 52
31	E47	IC DEC 1584	1B11440-00 52
32	E48	IC DEC 1584	1B11440-00 52
33	E49	IC DEC 1584	1B11440-00 52
34	E50	IC DEC 1584	1B11440-00 52
35	E51	IC DEC 1584	1B11440-00 52
36	E52	IC DEC 1584	1B11440-00 52
37	E53	IC DEC 1584	1B11440-00 52
38	E54	IC DEC 1584	1B11440-00 52
39	E55	IC DEC 1584	1B11440-00 52
40	E56	IC DEC 1584	1B11440-00 52
41	E57	IC DEC 1584	1B11440-00 52
42	E58	IC DEC 1584	1B11440-00 52
43	E59	IC DEC 1584	1B11440-00 52
44	E60	IC DEC 1584	1B11440-00 52
45	E61	IC DEC 1584	1B11440-00 52
46	E62	IC DEC 1584	1B11440-00 52
47	E63	IC DEC 1584	1B11440-00 52
48	E64	IC DEC 1584	1B11440-00 52
49	E65	IC DEC 1584	1B11440-00 52
50	E66	IC DEC 1584	1B11440-00 52
51	E67	IC DEC 1584	1B11440-00 52
52	E68	IC DEC 1584	1B11440-00 52
53	E69	IC DEC 1584	1B11440-00 52
54	E70	IC DEC 1584	1B11440-00 52
55	E71	IC DEC 1584	1B11440-00 52
56	E72	IC DEC 1584	1B11440-00 52
57	E73	IC DEC 1584	1B11440-00 52
58	E74	IC DEC 1584	1B11440-00 52
59	E75	IC DEC 1584	1B11440-00 52
60	E76	IC DEC 1584	1B11440-00 52
61	E77	IC DEC 1584	1B11440-00 52
62	E78	IC DEC 1584	1B11440-00 52
63	E79	IC DEC 1584	1B11440-00 52
64	E80	IC DEC 1584	1B11440-00 52
65	E81	IC DEC 1584	1B11440-00 52
66	E82	IC DEC 1584	1B11440-00 52
67	E83	IC DEC 1584	1B11440-00 52
68	E84	IC DEC 1584	1B11440-00 52
69	E85	IC DEC 1584	1B11440-00 52
70	E86	IC DEC 1584	1B11440-00 52
71	E87	IC DEC 1584	1B11440-00 52
72	E88	IC DEC 1584	1B11440-00 52
73	E89	IC DEC 1584	1B11440-00 52
74	E90	IC DEC 1584	1B11440-00 52
75	E91	IC DEC 1584	1B11440-00 52
76	E92	IC DEC 1584	1B11440-00 52
77	E93	IC DEC 1584	1B11440-00 52
78	E94	IC DEC 1584	1B11440-00 52
79	E95	IC DEC 1584	1B11440-00 52
80	E96	IC DEC 1584	1B11440-00 52
81	E97	IC DEC 1584	1B11440-00 52
82	E98	IC DEC 1584	1B11440-00 52
83	E99	IC DEC 1584	1B11440-00 52
84	E100	IC DEC 1584	1B11440-00 52

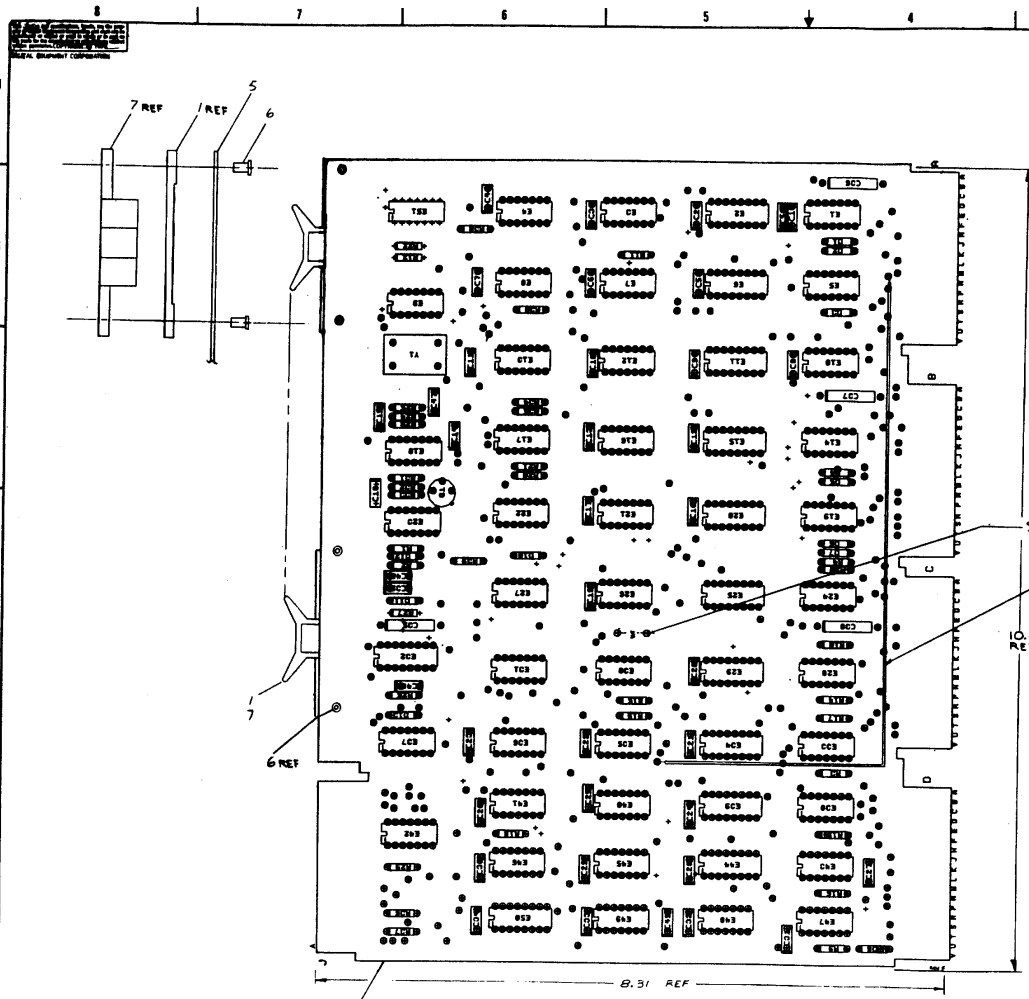
GND= AC2, AF1, AH1, AN2, AT1, BC1, BC2, BF1, BN2, BT1, BT2, CC1, CC2, CF1, CF2, CN, CT1, DC1, DP1, DN1, DT1, DT2.

IC TYPE	QTY	FROM	TO	PT
DEC 7194	8	1/6		
DEC 8251	8	1/6		
DEC 8314	1	8		
DEC 8380	1	8		
DEC 8384	1	8		

IC TYPE	QTY	FROM	TO	PT
DEC 7194	8	1/6		
DEC 8251	8	1/6		
DEC 8314	1	8		
DEC 8380	1	8		
DEC 8384	1	8		

ETCH BOARD REV	DATE	DESIGNER	APP'D	REVISIONS
1	1/6/64	...	...	...
2	...	...	...	...
3	...	...	...	...

TIMING GENERATOR
 MODEL M8330-1-1
 DATE 1/6/64



NOTES:

1. W1 (JUMPER) TO BE INSERTED BY CUSTOMER ONLY.

SEE NOTE 1

10.44 REF

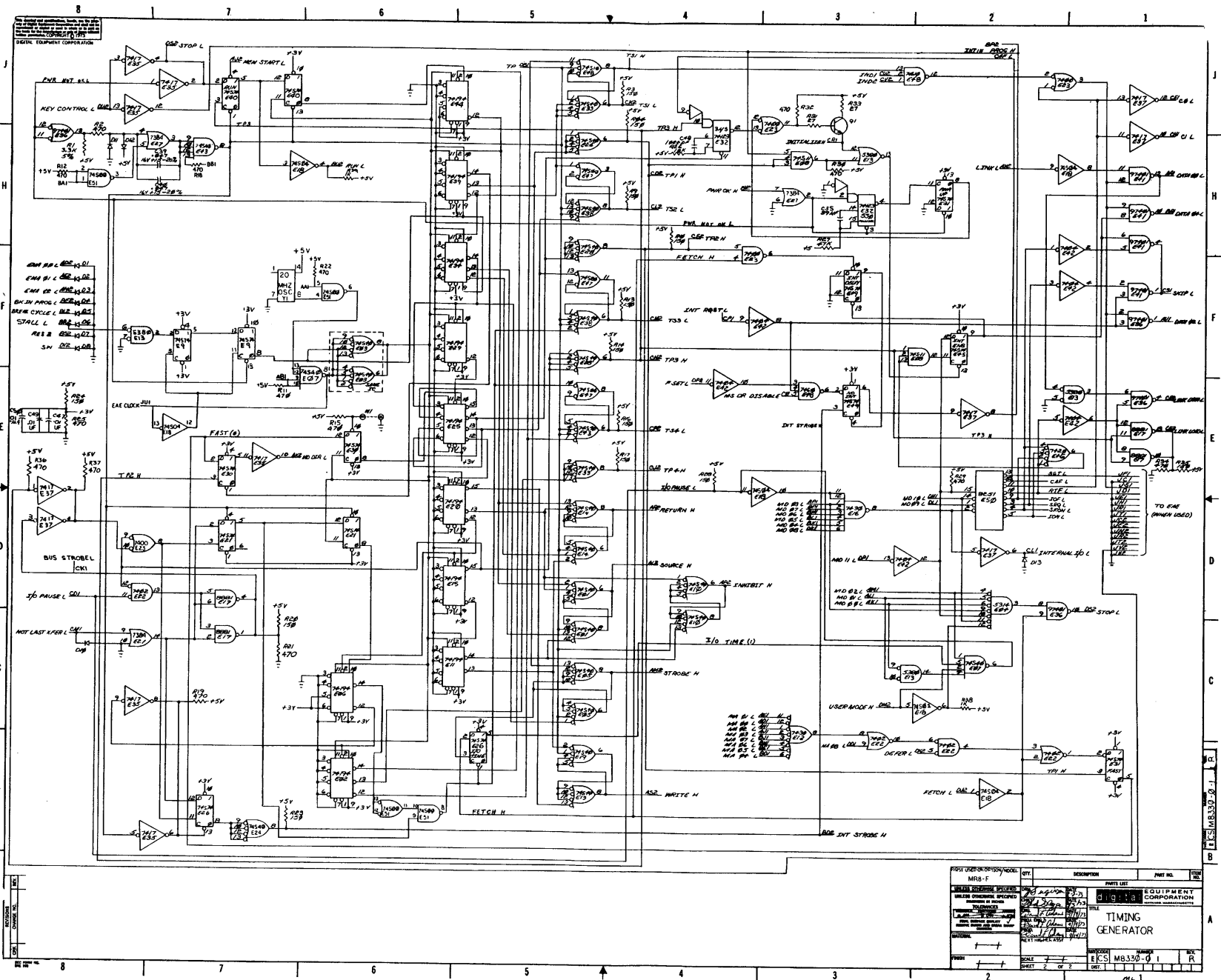
SND = AC2, AF1, AN1, AN2, AT1, BC1, BC2, BF1, BN2, BN, BT2, CC1, CC2, CF1, CF2, CM1, CM, DC1, DF1, DN1, DN, DT2.

DEC N194	8	1/6		
DEC B251	8	1/6		
DEC 5314	1	8		
DEC 5380	1	8		
DEC 5394	1	8		
IC TYPE	QND	S-3V	W1	SEE NOTE 1
QND NO.	ARG	FRON	TO PT	
IC PIN LOCATIONS				JUMPER LIST

PN	VALUE, SD, BWD	9108740-58	WT
2 E4E5H	1.0 1% 5000	1910313-22	43
1 LEV	1.0 1% 1000	1903531	43
1 V1	DEC 20 1/4W	1914420-10	14
1 E2P1K1A3G1E4G1	IC DEC 94374	1910544	51
1 E2B	1.0 1% 1000	1910326	43
2 X8E 721	RES 1/4 1/4W 5% 1/4	1900564	40
4	RES 1/4 1/4W 5% 1/4	1903571	43
1 E13	1.0 1% 1000	1910544	51
1 E4	1.0 1% 1000	1910313	43
1 E20	1.0 1% 1000	1910313	43
1 E17	1.0 1% 1000	1910313	43
1 E26	1.0 1% 1000	1910313	43
1 E30	1.0 1% 1000	1910313	43
1 E31	1.0 1% 1000	1910313	43
1 E32	1.0 1% 1000	1910313	43
1 E33	1.0 1% 1000	1910313	43
1 E34	1.0 1% 1000	1910313	43
1 E35	1.0 1% 1000	1910313	43
1 E36	1.0 1% 1000	1910313	43
1 E37	1.0 1% 1000	1910313	43
1 E38	1.0 1% 1000	1910313	43
1 E39	1.0 1% 1000	1910313	43
1 E40	1.0 1% 1000	1910313	43
1 E41	1.0 1% 1000	1910313	43
1 E42	1.0 1% 1000	1910313	43
1 E43	1.0 1% 1000	1910313	43
1 E44	1.0 1% 1000	1910313	43
1 E45	1.0 1% 1000	1910313	43
1 E46	1.0 1% 1000	1910313	43
1 E47	1.0 1% 1000	1910313	43
1 E48	1.0 1% 1000	1910313	43
1 E49	1.0 1% 1000	1910313	43
1 E50	1.0 1% 1000	1910313	43
1 E51	1.0 1% 1000	1910313	43
1 E52	1.0 1% 1000	1910313	43
1 E53	1.0 1% 1000	1910313	43
1 E54	1.0 1% 1000	1910313	43
1 E55	1.0 1% 1000	1910313	43
1 E56	1.0 1% 1000	1910313	43
1 E57	1.0 1% 1000	1910313	43
1 E58	1.0 1% 1000	1910313	43
1 E59	1.0 1% 1000	1910313	43
1 E60	1.0 1% 1000	1910313	43
1 E61	1.0 1% 1000	1910313	43
1 E62	1.0 1% 1000	1910313	43
1 E63	1.0 1% 1000	1910313	43
1 E64	1.0 1% 1000	1910313	43
1 E65	1.0 1% 1000	1910313	43
1 E66	1.0 1% 1000	1910313	43
1 E67	1.0 1% 1000	1910313	43
1 E68	1.0 1% 1000	1910313	43
1 E69	1.0 1% 1000	1910313	43
1 E70	1.0 1% 1000	1910313	43
1 E71	1.0 1% 1000	1910313	43
1 E72	1.0 1% 1000	1910313	43
1 E73	1.0 1% 1000	1910313	43
1 E74	1.0 1% 1000	1910313	43
1 E75	1.0 1% 1000	1910313	43
1 E76	1.0 1% 1000	1910313	43
1 E77	1.0 1% 1000	1910313	43
1 E78	1.0 1% 1000	1910313	43
1 E79	1.0 1% 1000	1910313	43
1 E80	1.0 1% 1000	1910313	43
1 E81	1.0 1% 1000	1910313	43
1 E82	1.0 1% 1000	1910313	43
1 E83	1.0 1% 1000	1910313	43
1 E84	1.0 1% 1000	1910313	43
1 E85	1.0 1% 1000	1910313	43
1 E86	1.0 1% 1000	1910313	43
1 E87	1.0 1% 1000	1910313	43
1 E88	1.0 1% 1000	1910313	43
1 E89	1.0 1% 1000	1910313	43
1 E90	1.0 1% 1000	1910313	43
1 E91	1.0 1% 1000	1910313	43
1 E92	1.0 1% 1000	1910313	43
1 E93	1.0 1% 1000	1910313	43
1 E94	1.0 1% 1000	1910313	43
1 E95	1.0 1% 1000	1910313	43
1 E96	1.0 1% 1000	1910313	43
1 E97	1.0 1% 1000	1910313	43
1 E98	1.0 1% 1000	1910313	43
1 E99	1.0 1% 1000	1910313	43
1 E100	1.0 1% 1000	1910313	43
1 E101	1.0 1% 1000	1910313	43
1 E102	1.0 1% 1000	1910313	43
1 E103	1.0 1% 1000	1910313	43
1 E104	1.0 1% 1000	1910313	43
1 E105	1.0 1% 1000	1910313	43
1 E106	1.0 1% 1000	1910313	43
1 E107	1.0 1% 1000	1910313	43
1 E108	1.0 1% 1000	1910313	43
1 E109	1.0 1% 1000	1910313	43
1 E110	1.0 1% 1000	1910313	43
1 E111	1.0 1% 1000	1910313	43
1 E112	1.0 1% 1000	1910313	43
1 E113	1.0 1% 1000	1910313	43
1 E114	1.0 1% 1000	1910313	43
1 E115	1.0 1% 1000	1910313	43
1 E116	1.0 1% 1000	1910313	43
1 E117	1.0 1% 1000	1910313	43
1 E118	1.0 1% 1000	1910313	43
1 E119	1.0 1% 1000	1910313	43
1 E120	1.0 1% 1000	1910313	43

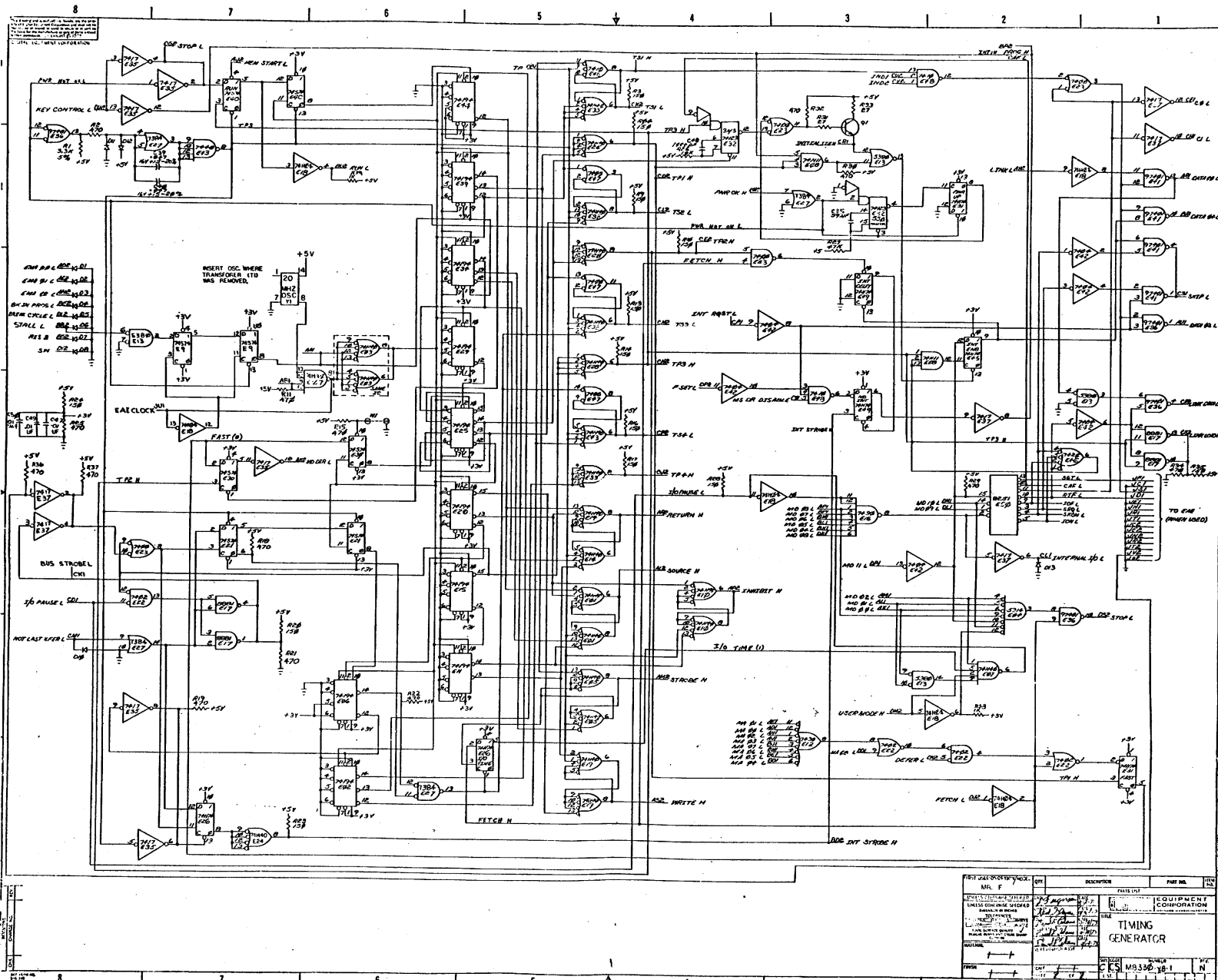
2V309G	2V309G			
M300	M300			
M301	M301			
M302	M302			
M303	M303			
M304	M304			
M305	M305			
M306	M306			
M307	M307			
M308	M308			
M309	M309			
M310	M310			
M311	M311			
M312	M312			
M313	M313			
M314	M314			
M315	M315			
M316	M316			
M317	M317			
M318	M318			
M319	M319			
M320	M320			
M321	M321			
M322	M322			
M323	M323			
M324	M324			
M325	M325			
M326	M326			
M327	M327			
M328	M328			
M329	M329			
M330	M330			
M331	M331			
M332	M332			
M333	M333			
M334	M334			
M335	M335			
M336	M336			
M337	M337			
M338	M338			
M339	M339			
M340	M340			
M341	M341			
M342	M342			
M343	M343			
M344	M344			
M345	M345			
M346	M346			
M347	M347			
M348	M348			
M349	M349			
M350	M350			
M351	M351			
M352	M352			
M353	M353			
M354	M354			
M355	M355			
M356	M356			
M357	M357			
M358	M358			
M359	M359			
M360	M360			
M361	M361			
M362	M362			
M363	M363			
M364	M364			
M365	M365			
M366	M366			
M367	M367			
M368	M368			
M369	M369			
M370	M370			

DEC 5309	2V309G		
DEC 5309	M300		
DEC NO.	ETA NO.	DEC NO.	ETA NO.
SEMICONDUCTOR CONVERSION CHART			
EQUIPMENT CORPORATION			
TIMING GENERATOR			
ECS M3330-0-1			



REV.	DESCRIPTION	DATE	BY
1	INITIAL DESIGN		
2	REVISED FOR PARTS LIST		
3	REVISED FOR PARTS LIST		
4	REVISED FOR PARTS LIST		
5	REVISED FOR PARTS LIST		
6	REVISED FOR PARTS LIST		
7	REVISED FOR PARTS LIST		
8	REVISED FOR PARTS LIST		
9	REVISED FOR PARTS LIST		
10	REVISED FOR PARTS LIST		

PARTS LIST M8330-01 1 74LS00 2 74LS01 3 74LS02 4 74LS03 5 74LS04 6 74LS05 7 74LS06 8 74LS07 9 74LS08 10 74LS09 11 74LS10 12 74LS11 13 74LS12 14 74LS13 15 74LS14 16 74LS15 17 74LS16 18 74LS17 19 74LS18 20 74LS19 21 74LS20 22 74LS21 23 74LS22 24 74LS23 25 74LS24 26 74LS25 27 74LS26 28 74LS27 29 74LS28 30 74LS29 31 74LS30 32 74LS31 33 74LS32 34 74LS33 35 74LS34 36 74LS35 37 74LS36 38 74LS37 39 74LS38 40 74LS39 41 74LS40 42 74LS41 43 74LS42 44 74LS43 45 74LS44 46 74LS45 47 74LS46 48 74LS47 49 74LS48 50 74LS49 51 74LS50 52 74LS51 53 74LS52 54 74LS53 55 74LS54 56 74LS55 57 74LS56 58 74LS57 59 74LS58 60 74LS59 61 74LS60 62 74LS61 63 74LS62 64 74LS63 65 74LS64 66 74LS65 67 74LS66 68 74LS67 69 74LS68 70 74LS69 71 74LS70 72 74LS71 73 74LS72 74 74LS73 75 74LS74 76 74LS75 77 74LS76 78 74LS77 79 74LS78 80 74LS79 81 74LS80 82 74LS81 83 74LS82 84 74LS83 85 74LS84 86 74LS85 87 74LS86 88 74LS87 89 74LS88 90 74LS89 91 74LS90 92 74LS91 93 74LS92 94 74LS93 95 74LS94 96 74LS95 97 74LS96 98 74LS97 99 74LS98 100 74LS99 101 74LS100	TITLE: TIMING GENERATOR DRAWN: [Signature] CHECKED: [Signature] APPR: [Signature] DATE: [Date] SCALE: 1:1 SHEET: 2 OF 2 PART NO: ECS M8330-01 REV: R
---	--



REV	DATE	DESCRIPTION	APP'D	CHK'D
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				

EQUIPMENT CONFIGURATION
TIMING GENERATOR

MS342-1