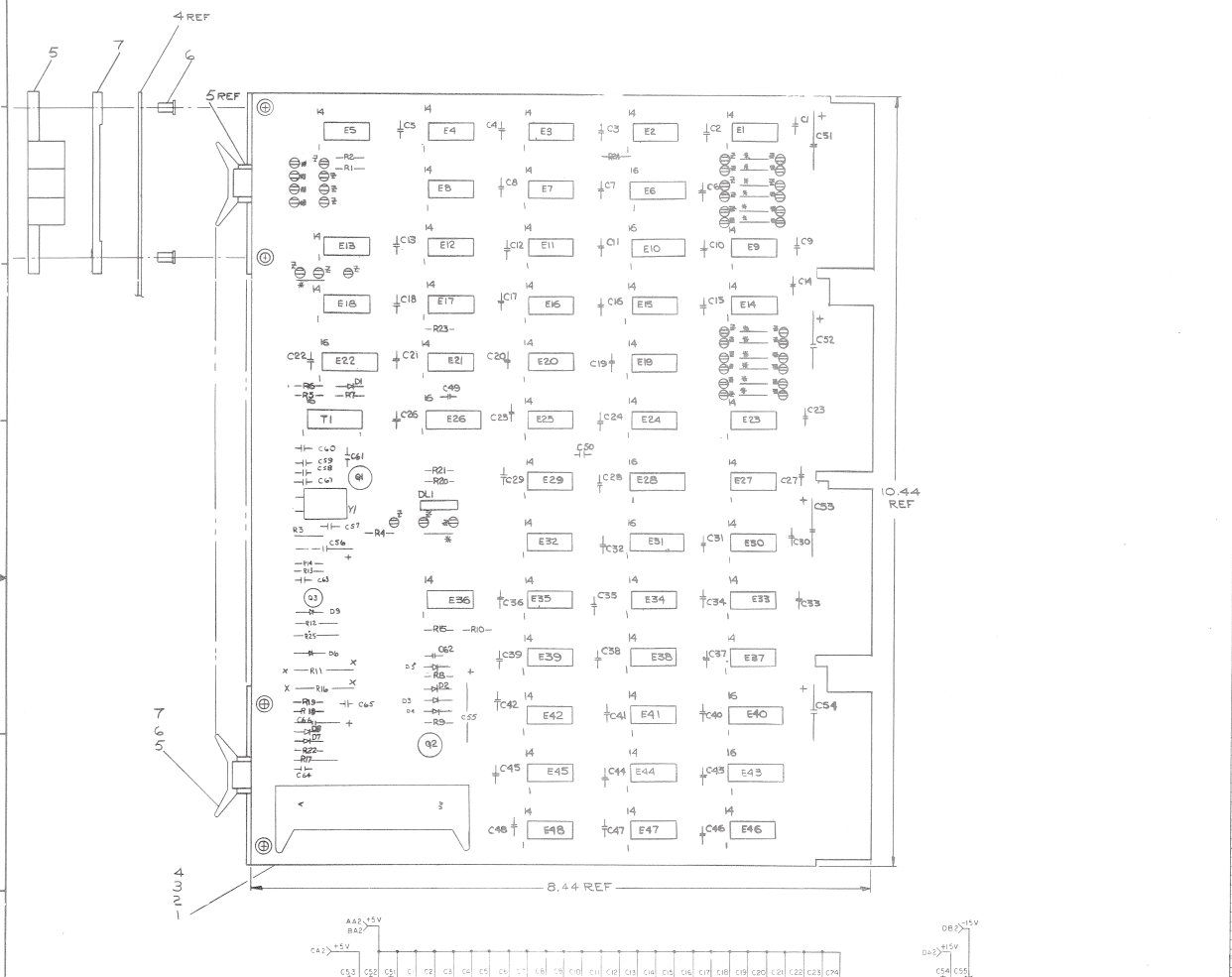


The company of origin, Model, Part Number, Date of Issue, and other information available on the manufacturer's drawing should be indicated in this column. For a drawing of this type, see the instructions on page 10 of this manual.



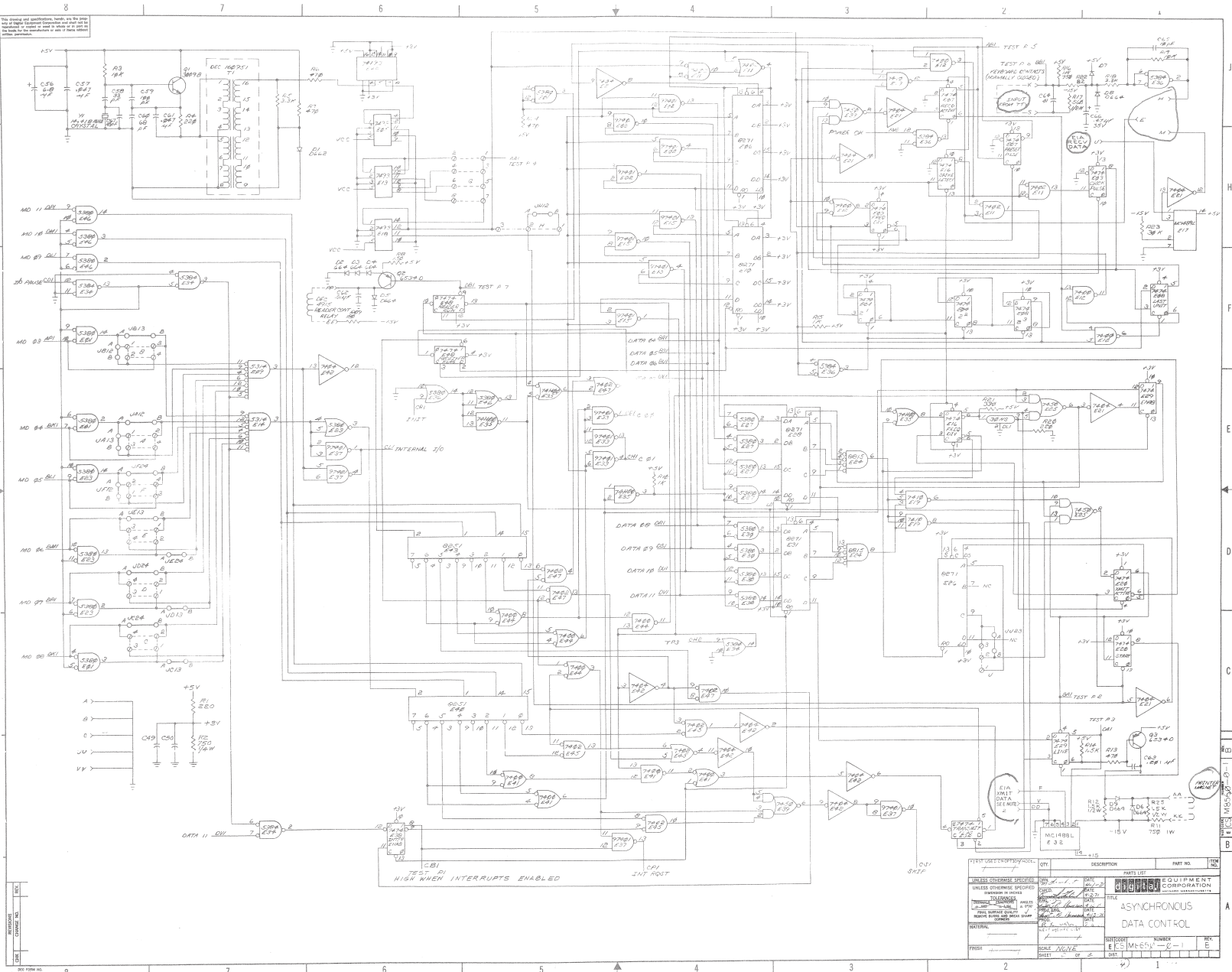
DEC MC1486L	7	1486L	1486L	1486L	1486L				
B251	6	16	16	16	16				
B254	1	8	16	16	16				
74193	8	16	16	16	16				
5310	1	8	16	16	16				
B271	8	16	16	16	16				
7493	10	5	16	16	16				
5380	1	8	16	16	16				
C TYPE	GND	2-5V	8	22	C11-14,C13-15				
ITEM NO	AVG	FROM	TO	PT	PT				
BIB AND V ARE USUALLY FOR 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.									
JUMPER LIST									
<table border="1"> <tr> <th>NO</th> <th>LOCATIONS</th> </tr> <tr> <td>8</td> <td></td> </tr> </table>						NO	LOCATIONS	8	
NO	LOCATIONS								
8									

**NOTES:**

1.  $\frac{A}{B}$  : SPLIT LUGS  
 $\frac{A}{B}$  : MACHINE INSERTED JUMPER  
 $\frac{A}{B}$  : 40 PIN HEADER CONNECTION
2. DATA II BVI : OMNIBUS CONNECTION  
 2. PIN F IS EIA TRANSMITTED DATA:  
 +6V OR MORE = SPACE = 0  
 -6V OR LESS = MARK = 1  
 PIN V IS EIA REQUEST TO SEND, +6V OR MORE = ON (PERMANENTLY),  
 PIN DD IS EIA DATA TERMINAL READY, +6V OR MORE = ON (PERMANENTLY).
3. THIS DRAWING FOLLOWS DEC STANDARD OS6 LOGIC SYMBOLS. FLIP-FLOPS ARE NAMED FOR THE CONDITION THEY REPRESENT IN THE '1' STATE. THE FOLLOWING FIGURES APPLY:  
  
 IF 'D' SHOWN THUS  $\frac{D}{1}$  '1' STATE = Q STATE.  
 IF 'D' SHOWN THUS  $\frac{D}{0}$  '1' STATE = Q STATE.  
 IF '1' SHOWN THUS  $\frac{D}{1}$  THIS LEAD IS HIGH WHEN FLIP-FLOP IS IN '1' STATE.  
 IF '1' SHOWN THUS  $\frac{D}{0}$  THIS LEAD IS LOW WHEN FLIP-FLOP IS IN '1' STATE.
4. WAVEFORM AT TEST POINT #6 FOR RECESSION OF 'A' (ASCII 39):
5. UNLESS OTHERWISE NOTED:  
 RESISTORS = 1/4W 5%  
 CAPACITORS = .01µF 100V 20%  
 DIODES = 0664

2 R25-R26	RES. 1.6K 1/2W 5%	1300359	53	
1 R27	RES. 36 1/4W 5%	1301447	56	
5 E1E2,E3,E7,E8,E46	V.C. DEC 6330	1910395	67	
4 E2E5,E5,E8,E37	V.C. DEC 97401	1909973	66	
9 E3E4,E7,E8,E46	V.C. DEC 7474	1905547	65	
3 E5,E8,E18	V.C. DEC 7493	1909254	64	
5 E2E5,E26,E28,E31	V.C. DEC 8271	1909915	63	
3 E2,E14	V.C. DEC 814	1910391	62	
3 E11,E43,E47	V.C. DEC 7402	1909004	61	
3 E1E4,E41,E44	V.C. DEC 7400	1905533	60	
1 E14	V.C. MC1486 EIA RECEIVER	1909393	59	
1 E19	V.C. DEC 7410	1905576	58	
2 E21,E42	V.C. DEC 7404	1909866	57	
1 E22	V.C. DEC 7413B	1910018	56	
1 E23	V.C. DEC 8215	1909973	55	
2 E25,E39	V.C. DEC 7450	1909380	54	
1 E32	V.C. MC1486 EIA DRIVER	1910382	53	
2 E34,E36	V.C. DEC 8284	1910384	52	
2 E40,E43	V.C. DEC 8251	1909992	51	
1 E38	V.C. DEC 7440	1909256	50	
2 C1-C50,C68,C64	CAP. 0.1µF 100V 20% DISC	10091910	58	
2 C31-C36	CAP. 6.8µF 50V 20% TANT	1009009	57	
2 C37,C41	CAP. 0.47µF	DISC	1009078	56
1 C38	CAP. 33PF	MICA	1009009	55
1 C39	CAP. 100PF	MICA	1009078	54
1 C40	CAP. 68PF	MICA	1009078	53
1 C43	CAP. 1001 PF 250V DISC	1009009	52	
2 C45,C67	CAP. 10µF 100V 20% MICA	1009009	51	
1 C66	CAP. 1µF 50V TANT	1009365	50	
1 D1	DIODE 0664	1100118	49	
7 D2-D9	DIODE 6864	1100114	48	
3 R1,R4,R20	RES. 250 1/4W 5%	1301391	46	
1 R2	RES. 250 1/4W 5%	1301401	45	
2 R3,R10	RES. 10K 1/4W 5%	1300479	44	
2 R7,R18	RES. 3.3K 1/4W 5%	1300435	43	
4 R6,R7,R13,R24	RES. 470 1/4W 5%	1300316	42	
1 R8	RES. 150 1/4W 5%	1300352	41	
2 R10,R16	RES. 1K 1/4W 5%	1300365	40	
2 R11,R16	RES. 750 1/4W 5%	1300385	39	
1 R14	RES. 1.5K 1/4W 5%	1300391	38	
1 R21	RES. 330 1/4W 5%	1300255	37	
1 R23	RES. 30K 1/4W 5%	1300394	36	
1 R5	RES. 120 1/4W 5%	1301522	35	
1 R19	RES. 560 1/4W 5%	1300388	34	
1 R22	RES. 1.5K 1/4W 5%	1300391	33	
1 Q1	TRANSISTOR DEC 6334D	1503409	32	
2 Q2,Q3	TRANSISTOR DEC 6334D	1503409	31	
1 U1	ICMR 8210	1509651	30	
1 DLI	DELAY LINE 30 NANO SEC	1609528	29	
1 U1	CRYSTAL 14.318 MHE	1509880	28	
1 S8	LUGS SPLIT	9008735	10	
1 W1	CONNECTOR 40 PIN	1509941	9	
1 W2	WIRE STRAKE SOLID BUS	2107660	8	
1 W3	SPACER CABLE CLAMP	1005706	7	
1 S	TESTER 68-11 STIMPSON	1003470	6	
1 W	HANDLE FLIP CHIP MOUNTING	9008330	5	
1 W4	ETCHED CIRCUIT BOARD	9009547	4	
REF	MODULE HISTORY LIST	9009664	3	
REF	ASSY/DRILLING HOLE LAYOUT	9009664	2	
REF	X-Y COORDINATING HOLE LOC.	9009664	1	

ETCH BOARD REV	A	DATE LIST	
NO. OF SHEETS	1	EQUIPMENT	ASYNCHRONOUS
REVISION		NO. OF SHEETS	8
DATE		NO. OF SHEETS	8
DESIGNED BY		NO. OF SHEETS	8
CHECKED BY		NO. OF SHEETS	8
DRAWN BY		NO. OF SHEETS	8
DATE		NO. OF SHEETS	8
SCALE	AS SHOWN	NO. OF SHEETS	8
NO. OF SHEETS	1	NO. OF SHEETS	8
NO. OF SHEETS	1	NO. OF SHEETS	8



1. Original and manufacturer's name shall be the basis of all component designations and shall not be changed without the approval of the design engineer. 2. All components shall be specified by manufacturer's name and part number. 3. All components shall be specified by manufacturer's name and part number.

TEST POINT SYMBOL	QTY	DESCRIPTION	PART NO.	REV.
TEST POINT A 1	1	TEST POINT	100-000000	1
TEST POINT A 2	1	TEST POINT	100-000000	1
TEST POINT A 3	1	TEST POINT	100-000000	1
TEST POINT A 4	1	TEST POINT	100-000000	1
TEST POINT A 5	1	TEST POINT	100-000000	1
TEST POINT A 6	1	TEST POINT	100-000000	1
TEST POINT A 7	1	TEST POINT	100-000000	1
TEST POINT A 8	1	TEST POINT	100-000000	1
TEST POINT A 9	1	TEST POINT	100-000000	1
TEST POINT A 10	1	TEST POINT	100-000000	1
TEST POINT A 11	1	TEST POINT	100-000000	1
TEST POINT A 12	1	TEST POINT	100-000000	1
TEST POINT A 13	1	TEST POINT	100-000000	1
TEST POINT A 14	1	TEST POINT	100-000000	1
TEST POINT A 15	1	TEST POINT	100-000000	1
TEST POINT A 16	1	TEST POINT	100-000000	1
TEST POINT A 17	1	TEST POINT	100-000000	1
TEST POINT A 18	1	TEST POINT	100-000000	1
TEST POINT A 19	1	TEST POINT	100-000000	1
TEST POINT A 20	1	TEST POINT	100-000000	1
TEST POINT A 21	1	TEST POINT	100-000000	1
TEST POINT A 22	1	TEST POINT	100-000000	1
TEST POINT A 23	1	TEST POINT	100-000000	1
TEST POINT A 24	1	TEST POINT	100-000000	1
TEST POINT A 25	1	TEST POINT	100-000000	1
TEST POINT A 26	1	TEST POINT	100-000000	1
TEST POINT A 27	1	TEST POINT	100-000000	1
TEST POINT A 28	1	TEST POINT	100-000000	1
TEST POINT A 29	1	TEST POINT	100-000000	1
TEST POINT A 30	1	TEST POINT	100-000000	1
TEST POINT A 31	1	TEST POINT	100-000000	1
TEST POINT A 32	1	TEST POINT	100-000000	1
TEST POINT A 33	1	TEST POINT	100-000000	1
TEST POINT A 34	1	TEST POINT	100-000000	1
TEST POINT A 35	1	TEST POINT	100-000000	1
TEST POINT A 36	1	TEST POINT	100-000000	1
TEST POINT A 37	1	TEST POINT	100-000000	1
TEST POINT A 38	1	TEST POINT	100-000000	1
TEST POINT A 39	1	TEST POINT	100-000000	1
TEST POINT A 40	1	TEST POINT	100-000000	1
TEST POINT A 41	1	TEST POINT	100-000000	1
TEST POINT A 42	1	TEST POINT	100-000000	1
TEST POINT A 43	1	TEST POINT	100-000000	1
TEST POINT A 44	1	TEST POINT	100-000000	1
TEST POINT A 45	1	TEST POINT	100-000000	1
TEST POINT A 46	1	TEST POINT	100-000000	1
TEST POINT A 47	1	TEST POINT	100-000000	1
TEST POINT A 48	1	TEST POINT	100-000000	1
TEST POINT A 49	1	TEST POINT	100-000000	1
TEST POINT A 50	1	TEST POINT	100-000000	1
TEST POINT A 51	1	TEST POINT	100-000000	1
TEST POINT A 52	1	TEST POINT	100-000000	1
TEST POINT A 53	1	TEST POINT	100-000000	1
TEST POINT A 54	1	TEST POINT	100-000000	1
TEST POINT A 55	1	TEST POINT	100-000000	1
TEST POINT A 56	1	TEST POINT	100-000000	1
TEST POINT A 57	1	TEST POINT	100-000000	1
TEST POINT A 58	1	TEST POINT	100-000000	1
TEST POINT A 59	1	TEST POINT	100-000000	1
TEST POINT A 60	1	TEST POINT	100-000000	1
TEST POINT A 61	1	TEST POINT	100-000000	1
TEST POINT A 62	1	TEST POINT	100-000000	1
TEST POINT A 63	1	TEST POINT	100-000000	1
TEST POINT A 64	1	TEST POINT	100-000000	1
TEST POINT A 65	1	TEST POINT	100-000000	1
TEST POINT A 66	1	TEST POINT	100-000000	1
TEST POINT A 67	1	TEST POINT	100-000000	1
TEST POINT A 68	1	TEST POINT	100-000000	1
TEST POINT A 69	1	TEST POINT	100-000000	1
TEST POINT A 70	1	TEST POINT	100-000000	1
TEST POINT A 71	1	TEST POINT	100-000000	1
TEST POINT A 72	1	TEST POINT	100-000000	1
TEST POINT A 73	1	TEST POINT	100-000000	1
TEST POINT A 74	1	TEST POINT	100-000000	1
TEST POINT A 75	1	TEST POINT	100-000000	1
TEST POINT A 76	1	TEST POINT	100-000000	1
TEST POINT A 77	1	TEST POINT	100-000000	1
TEST POINT A 78	1	TEST POINT	100-000000	1
TEST POINT A 79	1	TEST POINT	100-000000	1
TEST POINT A 80	1	TEST POINT	100-000000	1
TEST POINT A 81	1	TEST POINT	100-000000	1
TEST POINT A 82	1	TEST POINT	100-000000	1
TEST POINT A 83	1	TEST POINT	100-000000	1
TEST POINT A 84	1	TEST POINT	100-000000	1
TEST POINT A 85	1	TEST POINT	100-000000	1
TEST POINT A 86	1	TEST POINT	100-000000	1
TEST POINT A 87	1	TEST POINT	100-000000	1
TEST POINT A 88	1	TEST POINT	100-000000	1
TEST POINT A 89	1	TEST POINT	100-000000	1
TEST POINT A 90	1	TEST POINT	100-000000	1
TEST POINT A 91	1	TEST POINT	100-000000	1
TEST POINT A 92	1	TEST POINT	100-000000	1
TEST POINT A 93	1	TEST POINT	100-000000	1
TEST POINT A 94	1	TEST POINT	100-000000	1
TEST POINT A 95	1	TEST POINT	100-000000	1
TEST POINT A 96	1	TEST POINT	100-000000	1
TEST POINT A 97	1	TEST POINT	100-000000	1
TEST POINT A 98	1	TEST POINT	100-000000	1
TEST POINT A 99	1	TEST POINT	100-000000	1
TEST POINT A 100	1	TEST POINT	100-000000	1