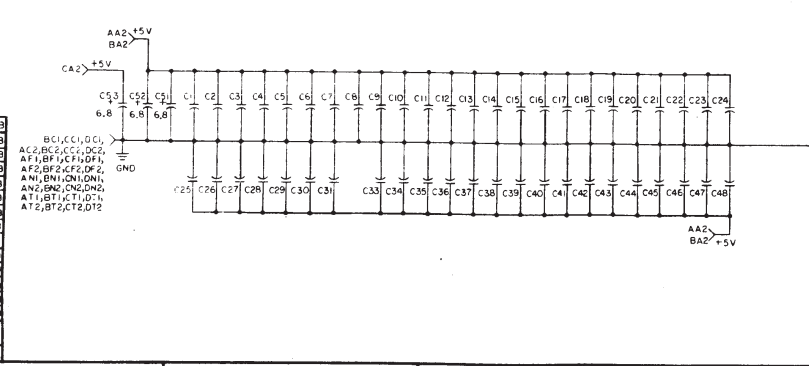


IC PART LOCATIONS	QTY	REF	DESCRIPTION	PART NO.	
DEC MC1488B-L	7	14(4)H-V			
8251	8	16			
5384	1	8			
74193	8	16			
5314	1	8			
8271	8	16			
7493	10	5			
DEC 5360	1	8			
IC TYPE	QTY	REF	DESCRIPTION	PART NO.	
IC PART LOCATIONS	JUMPER LIST	ITEM NO.	AVG	FROM PT	TO PT



NOTES

1. Δ - 40 PIN MACHINE INSERTED JUMPER
 B - 40 PIN HEADER CONNECTION

DATA I/OV L...
 2. PIN 1 IS 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).

LOGIC SYMBOLS...
 FLIP-FLOPS ARE NAMED FOR THE CONDITION THEY REPRESENT IN THE '1' STATE.
 THE FOLLOWING FIGURES APPLY:

CLEAR 7474 PRESET CLEAR PRESET

IF 'D' SHOWN THUS $\begin{matrix} D \\ \text{---} \\ \text{---} \\ \text{---} \end{matrix}$, '1' STATE = Q STATE
 IF 'D' SHOWN THUS $\begin{matrix} D \\ \text{---} \\ \text{---} \\ \text{---} \end{matrix}$, '1' STATE = Q STATE
 IF '1' SHOWN THUS $\begin{matrix} 1 \\ \text{---} \\ \text{---} \\ \text{---} \end{matrix}$ THIS LEAD IS HIGH WHEN FLIP-FLOP IS IN '1' STATE.
 IF '1' SHOWN THUS $\begin{matrix} 1 \\ \text{---} \\ \text{---} \\ \text{---} \end{matrix}$ THIS LEAD IS LOW WHEN FLIP-FLOP IS IN '1' STATE.

4. WAVEFORM AT TEST POINT #6 FOR RECEPTION OF 'A' (ASCII 01)

5. UNLESS OTHERWISE NOTED:
 RESISTORS - 1K 1/4W 5%
 CAPACITORS - 0.1uF 100V 20%
 DIODES - D664

QTY	REF DESIGNATION	DESCRIPTION	PART NO.
2	R12, R23	RES. 1.5K 1/2W 5%	1300394 59
1	R22	RES. 22 1/4W 5%	1301477 58
3	E1, E2, E3, E4	I.C. DEC 5380	1910392 57
4	E2, E15, E30, E37	I.C. DEC 97401	1909973 56
9	E3, E4, E7, E8, E16, E20, E23, E38, E48	I.C. DEC 7474	1905547 55
3	E5, E13, E18	I.C. DEC 7493	1909054 54
2	E6, E25, E28, E31	I.C. DEC 7471	1909015 53
2	E9, E14	I.C. DEC 5314	1910391 52
3	E11, E43, E47	I.C. DEC 7402	1909004 51
3	E12, E41, E44	I.C. DEC 7400	1905575 50
1	E14	I.C. MC1488B-EIA RECEIVER	1910322 49
1	E19	I.C. DEC 7410	1905576 48
2	E21, E42	I.C. DEC 7404	1909086 47
1	E22	I.C. DEC 74193	1910018 46
1	E24	I.C. DEC 8175	1909394 45
2	E25, E39	I.C. DEC 7450	1905580 44
1	E32	I.C. MC1488B-EIA DRIVER	1910322 43
2	E34, E36	I.C. DEC 5384	1910394 42
2	E40, E43	I.C. DEC 8251	1909394 41
1	E35	I.C. DEC 74100	1909050 40
5	C1, C2, C6, C22, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48	CAP. .01uF 100V 20% DISC	1001610 39
2	C51, C56	CAP. 6.8 35V 20% TANT	1000229 38
2	C57, C61	CAP. .047uF	DISC 1009678 37
1	C58	CAP. 33PF	MICA 1000009 36
1	C59	CAP. 100PF	MICA 1000016 35
1	C60	CAP. 0.033uF	MICA 1000017 34
1	C63	CAP. .001uF 250V DISC	1000013 33
2	C65, C67	CAP. 10uF 100V 5% MICA	1000015 32
1	C66	CAP. 47uF 35V TANT	1000229 31
1	D1	DIODE D662	1000118 30
14	D2-D15	DIODE D664	1100114 29
3	R1, R4, R20	RES. 220 1/4W 5%	1300271 28
1	R2	RES. 220 1/4W 5%	1301401 27
2	R3, R19	RES. 10K 1/4W 5%	1300479 26
2	R5, R18	RES. 3.3K 1/4W 5%	1300439 25
4	R6, R7, R13, R24	RES. 470 1/4W 5%	1300316 24
1	R8	RES. 150 1/4W 5%	1300250 23
2	R10, R15, R26	RES. 1K 1/4W 5%	1300365 22
2	R11, R16	RES. 750 1/4W 5%	1302385 21
1	R17	RES. 1.5K 1/4W 5%	1300591 20
1	R21	RES. 330 1/4W 5%	1300295 19
1	R23	RES. 30K 1/4W 5%	1302394 18
1	R25	RES. 150 1/4W 5%	1301322 17
1	R17	RES. 560 1/4W 5%	1300338 16
1	Q1	TRANSISTOR DEC 300DB	1503100 15
2	Q2, Q3	TRANSISTOR DEC 6534D	1503409 14
1	T1	CRYSTAL 3.010	1809651 13
1	DL1	DELAY LINE 30 NANO SEC	1805028 12
1	Y1	CRYSTAL 14.418 MHE	1809880-01 11
10	J1	CONNECTOR 40 PIN	2000735 10
1/4	W	WIRE #22AWG SOLID BUS	9107560-01 9
1/4	S	SPACER (CABLE CLAMP)	1809704 7
1/4	E	ETIQUETTE (CABLE CLAMP)	4006750 6
1	F	HANDIC FLIP CHIP-MARITTA	8002546 5
1	C	ETCHED CIRCUIT BOARD	8002546 4
REF		MODULE HISTORY LIST	BMM#8650-4 3
REF		ASSY/DRILLING HOLE LOCAT	BMM#8650-4 2
REF		XY COORDINATE HOLE LOC	BMM#8650-4 1

ETCH BOARD REV D

PARTS LIST

EQUIPMENT CORPORATION

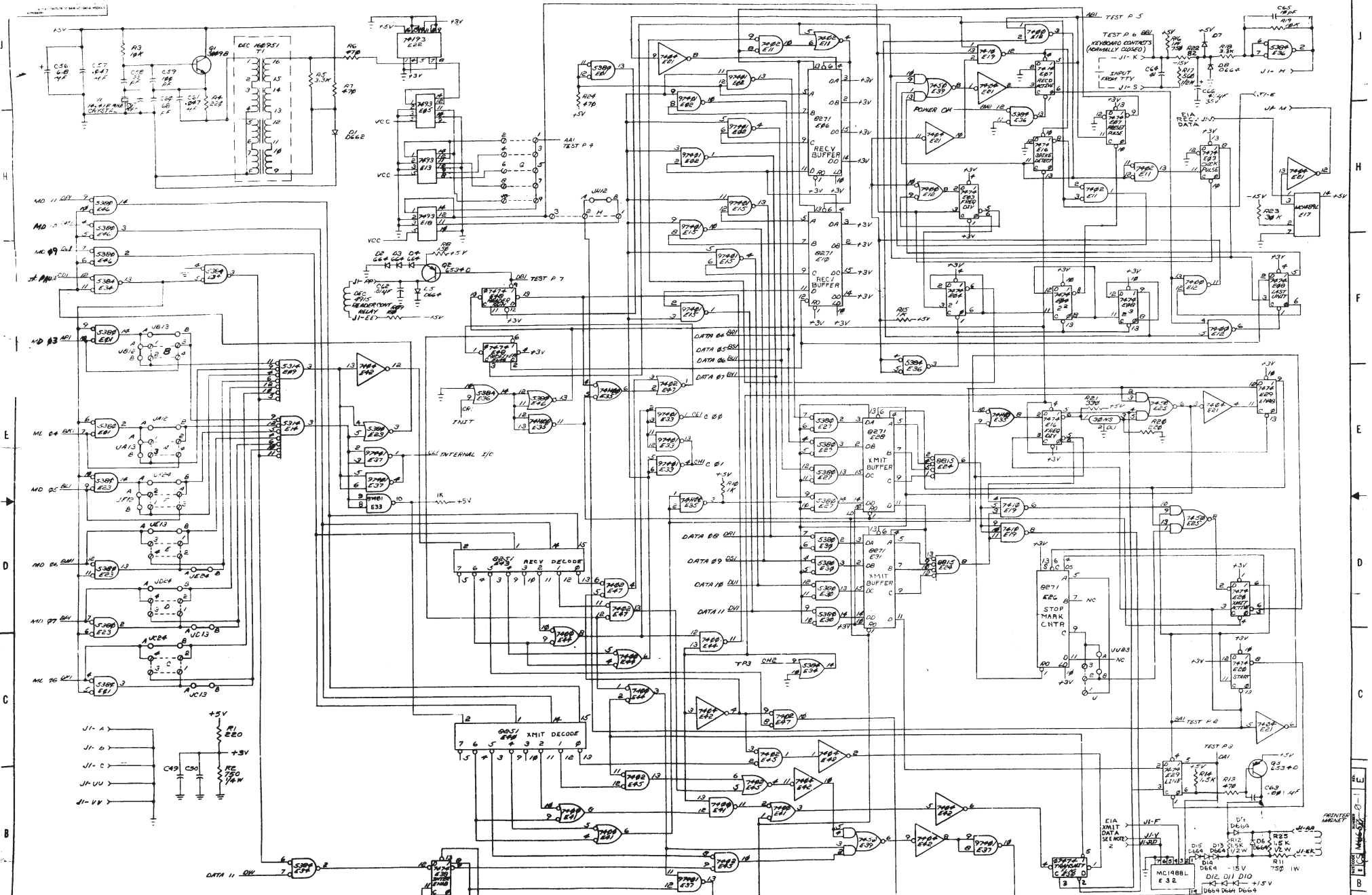
TITLE ASYNCHRONOUS DATA CONTROL

A=M-KL8-E

DEC NO. 271 ECSI M8650-0-1

SEMICONDUCTOR CONVERSION CHART

DATE 1/1/73



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ASYNCHRONOUS
DATA CONTROL

EKS MB650-0-1