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FIELD MAINTENANCE PRINT SET

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UNIT VARIATIONS COVERED BY THIS PRINT SET

MSV11-PF
MSV11-PK
MSV11-PL

MSV11-P

Field Maintenance
Print Set

MP#1239

Digital Equipment
Corporation

REVISIONS	REV		USED ON OPTION/MODEL	DRN.	DATE	TITLE MSV11-P Q-BUS MOS MEMORY SYSTEM	digital
	CHG. NO.		11/23B	J. D'ANGELI	6-2-81		
	DATE			CHK'D	DATE		
				<i>J. Sweeney</i>	6-2-81		
				PROJ. ENG.	DATE		
				<i>R. Sweeney</i>	6-2-81		
				FIELD SERV.	DATE		
				<i>D. Sullivan</i>	6-2-81		
SHEET 1 OF 1			SIZE		CODE	NUMBER	REV.
			B		TC	MSV11-P 1	A
			DIST.				

DRAWING DIRECTORY

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UNIT VARIATIONS

VAR

TITLE

MSV11-PF	64K X 18 MOS MEMORY SYSTEM
MSV11-PK	128K X 18 MOS MEMORY SYSTEM
MSV11-PL	256K X 18 MOS MEMORY SYSTEM

USED ON OPTION/MODEL

11/23B

TORN.

H. D. 62-81

CHK'D.

J. Dixons 6-2-81

PROJ. ENG.

R. L. Stone

PROD

DATE

62-81

DATE

6-2-81

DATE _____

6-2-81

DATE _____

TITLE	1
-------	---

DRAWING DIRECTORY
MSV11-P
Q-BUS MOS MEMORY SYSTEM

SIZE	CODE
------	------

B	DD
---	----

NUMBER

MSV11-P

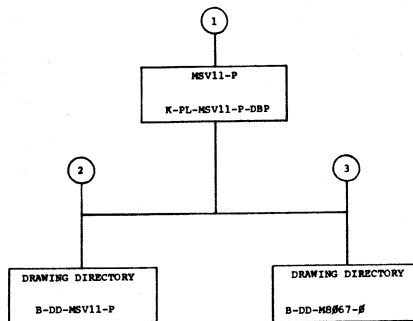
REV

A

SHEET 1 OF 3

ORB 108A

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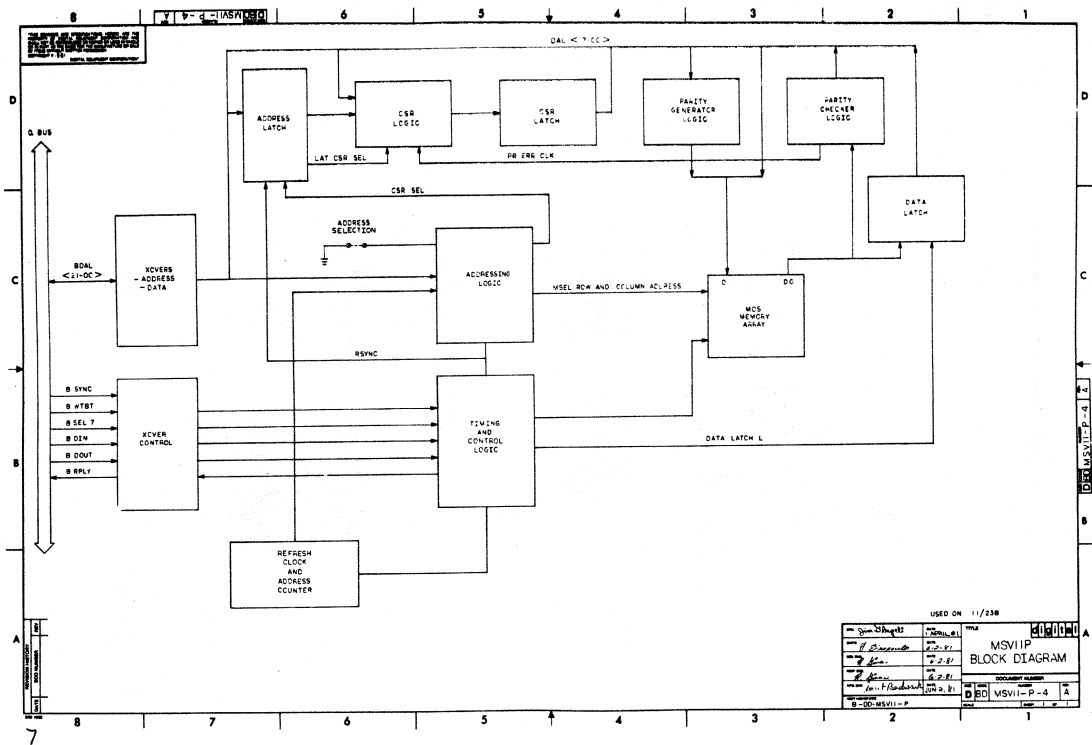
TITLE	DRAWING DIRECTORY MSV11-P Q-BUS MOS MEMORY SYSTEM	SIZE	CODE	NUMBER	REV
		SHEET 2 OF 3	B DD	MSV11-P	A

[illegible]

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PFR VARIATION		
				PF	PK	PL
1	1	D-UA-M8067-0-0	M8067-KA	MSV11-PK: 256KB MOS MEM WITH PAR	1	1 1
2	2	D-BD-MSV11-P-4		BLOCK DIAGRAM	REF	REF REF
3	3	D-FD-MSV11-P-5		FLOW DIAGRAM	REF	REF REF
4	4	A-SP-MSV11-P-3		SYSTEM SPECIFICATION	REF	REF REF
5	5	D-TD-MSV11-P-6		TIMING DIAGRAM	REF	REF REF
6	6	B-PL-MSV11-P-7		SHIPPING LIST	REF	REF REF
7	7		M8067-LA	MSV11-PL: 512KB MOS MEM WITH PAR	1	1 1

REVISION HISTORY		BASIC PART NO: MSV11		DRN: J. D'ANGELO	DATE: 17-APR-81	D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: F. HALLIDAY	DATE: 22-APR-81	TITLE PARTS LIST	
RG	MSV11-P-ML001	B	[A] PF,PK,PL			MSV11-P (256K X 18) Q-BUS MOS MEMORY ASSY	
			[B]	DES.ENG.: RON GIVEN	DATE: 02-JUN-81	DOCUMENT NUMBER	
			[C]	RESP.ENG.: RON GIVEN	DATE: 07-JUN-81	SIZE CODE NUMBER REV	
			[D]			K PL MSV11-P-DBP B	
			[E]	MFG.ENG.: AMRIT BADWAIK	DATE: 02-JUN-81	FILE NAME: EDIT #	
			[F]	ASSEMBLY NUMBER: #B-DD-MSV11-P	TOP DOCUMENT NUMBER: #R-DD-MSV11-P	Z2533B.PLS 14	
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ML2



USED ON 11/23/88

DESIGNED BY	DATE	REV	DESCRIPTION
J. J. J.	11/23/88	1	MSVII-P-4 BLOCK DIAGRAM
CHECKED BY	DATE	REV	DESCRIPTION
J. J. J.	11/23/88	1	MSVII-P-4 BLOCK DIAGRAM
APPROVED BY	DATE	REV	DESCRIPTION
J. J. J.	11/23/88	1	MSVII-P-4 BLOCK DIAGRAM

MSVII-P-4 BLOCK DIAGRAM

DOCUMENT NUMBER

MSVII-P-4

1

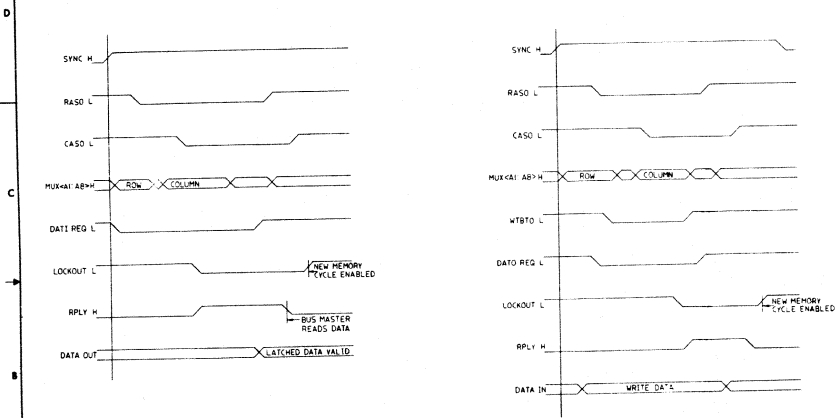
THIS DOCUMENT CONTAINS INFORMATION RELATIVE TO THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION'S SPACE AND AIR FORCE RESEARCH AND DEVELOPMENT PROGRAM. IT IS THE POLICY OF THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION TO MAKE AVAILABLE TO THE PUBLIC THE INFORMATION CONTAINED HEREIN, UNLESS IT IS DETERMINED THAT THE INFORMATION IS OF A NATURE THAT ITS DISCLOSURE WOULD BE DETRIMENTAL TO THE NATIONAL DEFENSE.

6-4-TLASH 010

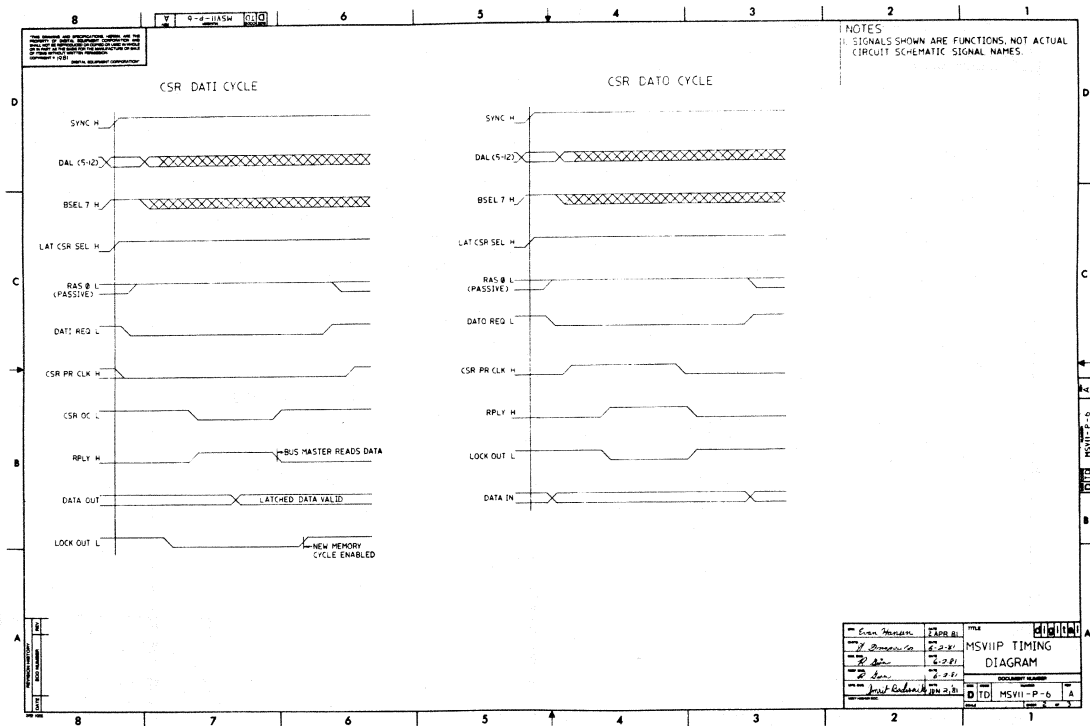
NOTES
1. SIGNALS SHOWN ARE FUNCTIONS, NOT ACTUAL CIRCUIT SCHEMATIC SIGNAL NAMES.

DATI CYCLE

DATO CYCLE



DATE		PAGE 81		TITLE	
1/1/82		1/1/82		MSVII TIMING	
1/1/82		1/1/82		DIAGRAM	
1/1/82		1/1/82		DOCUMENT NUMBER	
1/1/82		1/1/82		MSVII-P-b	
1/1/82		1/1/82		A	



AUTOMATED BY PRT1ST.3P(44)

P A R T S L I S T

SHEET A1 OF A3

LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

QTY PER VARIATION
LC CF LH

REFERENCE DESIGNATOR

1	D-05-M8067-0-1		CIRCUIT SCHEMATIC	REF	REF	REF	
1	D-05-M8067-0-1		UNIT TEST	REF	REF	REF	
1	D-05-M8067-0-1		DRAWING DICTIONARY	REF	REF	REF	
1	D-05-M8067-0-1		DRILL & ETCH DWG	REF	REF	REF	
1	D-05-M8067-0-1		ETCH CUT DWG	REF	REF	REF	
1	D-05-M8067-0-1		ETCH BOARD	REF	REF	REF	
1	D-05-M8067-0-1		220.0 MFD	1	1	1	C17 C28
1	D-05-M8067-0-1		10 MFD	4	4	4	C179 C182
1	D-05-M8067-0-1		100V 1X200PPH MICA	1	1	1	C1-C7 C9 C14-C16 C22-C27
1	D-05-M8067-0-1		35V +50-10% AL EL	1	1	1	C30-C36 C100 C102 C104 C106
1	D-05-M8067-0-1		50V +80-20% CER	150	150	150	C108 C110 C112 C114 C116 C118
1	D-05-M8067-0-1						C120 C122 C124 C126 C128
1	D-05-M8067-0-1						C130 C132 C134 C136 C138
1	D-05-M8067-0-1						C140 C142 C144 C146 C148
1	D-05-M8067-0-1						C150 C152 C154 C156 C158
1	D-05-M8067-0-1						C160 C162 C164 C166 C168
1	D-05-M8067-0-1						C170 C172 C174 C176 C178
1	D-05-M8067-0-1						C180 C182 C184 C186 C188
1	D-05-M8067-0-1						C190 C192 C194 C196 C198
1	D-05-M8067-0-1						C200 C202 C204 C206 C208
1	D-05-M8067-0-1						C210 C212 C214 C216 C218
1	D-05-M8067-0-1						C220 C222 C224 C226 C228
1	D-05-M8067-0-1						C230 C232 C234 C236 C238
1	D-05-M8067-0-1						C240 C242 C244 C246 C248
1	D-05-M8067-0-1						C250 C252 C254 C256 C258
1	D-05-M8067-0-1						C260 C262 C264 C266 C268
1	D-05-M8067-0-1						C270 C272 C274 C276 C278
1	D-05-M8067-0-1						C280 C282 C284 C286 C288
1	D-05-M8067-0-1						C290 C292 C294 C296 C298
1	D-05-M8067-0-1						C300 C302 C304 C306 C308
1	D-05-M8067-0-1						C310 C312 C314 C316 C318
1	D-05-M8067-0-1						C320 C322 C324 C326 C328
1	D-05-M8067-0-1						C330 C332 C334 C336 C338
1	D-05-M8067-0-1						C340 C342 C344 C346 C348
1	D-05-M8067-0-1						C350 C352 C354 C356 C358
1	D-05-M8067-0-1						C360 C362 C364 C366 C368
1	D-05-M8067-0-1						C370 C372 C374 C376 C378
1	D-05-M8067-0-1						C380 C382 C384 C386 C388
1	D-05-M8067-0-1						C390 C392 C394 C396 C398
1	D-05-M8067-0-1						C400 C402 C404 C406 C408
1	D-05-M8067-0-1						C410 C412 C414 C416 C418
1	D-05-M8067-0-1						C420 C422 C424 C426 C428
1	D-05-M8067-0-1						C430 C432 C434 C436 C438
1	D-05-M8067-0-1						C440 C442 C444 C446 C448
1	D-05-M8067-0-1						C450 C452 C454 C456 C458
1	D-05-M8067-0-1						C460 C462 C464 C466 C468
1	D-05-M8067-0-1						C470 C472 C474 C476 C478
1	D-05-M8067-0-1						C480 C482 C484 C486 C488
1	D-05-M8067-0-1						C490 C492 C494 C496 C498
1	D-05-M8067-0-1						C500 C502 C504 C506 C508
1	D-05-M8067-0-1						C510 C512 C514 C516 C518
1	D-05-M8067-0-1						C520 C522 C524 C526 C528
1	D-05-M8067-0-1						C530 C532 C534 C536 C538
1	D-05-M8067-0-1						C540 C542 C544 C546 C548
1	D-05-M8067-0-1						C550 C552 C554 C556 C558
1	D-05-M8067-0-1						C560 C562 C564 C566 C568
1	D-05-M8067-0-1						C570 C572 C574 C576 C578
1	D-05-M8067-0-1						C580 C582 C584 C586 C588
1	D-05-M8067-0-1						C590 C592 C594 C596 C598
1	D-05-M8067-0-1						C600 C602 C604 C606 C608
1	D-05-M8067-0-1						C610 C612 C614 C616 C618
1	D-05-M8067-0-1						C620 C622 C624 C626 C628
1	D-05-M8067-0-1						C630 C632 C634 C636 C638
1	D-05-M8067-0-1						C640 C642 C644 C646 C648
1	D-05-M8067-0-1						C650 C652 C654 C656 C658
1	D-05-M8067-0-1						C660 C662 C664 C666 C668
1	D-05-M8067-0-1						C670 C672 C674 C676 C678
1	D-05-M8067-0-1						C680 C682 C684 C686 C688
1	D-05-M8067-0-1						C690 C692 C694 C696 C698
1	D-05-M8067-0-1						C700 C702 C704 C706 C708
1	D-05-M8067-0-1						C710 C712 C714 C716 C718
1	D-05-M8067-0-1						C720 C722 C724 C726 C728
1	D-05-M8067-0-1						C730 C732 C734 C736 C738
1	D-05-M8067-0-1						C740 C742 C744 C746 C748
1	D-05-M8067-0-1						C750 C752 C754 C756 C758
1	D-05-M8067-0-1						C760 C762 C764 C766 C768
1	D-05-M8067-0-1						C770 C772 C774 C776 C778
1	D-05-M8067-0-1						C780 C782 C784 C786 C788
1	D-05-M8067-0-1						C790 C792 C794 C796 C798
1	D-05-M8067-0-1						C800 C802 C804 C806 C808
1	D-05-M8067-0-1						C810 C812 C814 C816 C818
1	D-05-M8067-0-1						C820 C822 C824 C826 C828
1	D-05-M8067-0-1						C830 C832 C834 C836 C838
1	D-05-M8067-0-1						C840 C842 C844 C846 C848
1	D-05-M8067-0-1						C850 C852 C854 C856 C858
1	D-05-M8067-0-1						C860 C862 C864 C866 C868
1	D-05-M8067-0-1						C870 C872 C874 C876 C878
1	D-05-M8067-0-1						C880 C882 C884 C886 C888
1	D-05-M8067-0-1						C890 C892 C894 C896 C898
1	D-05-M8067-0-1						C900 C902 C904 C906 C908
1	D-05-M8067-0-1						C910 C912 C914 C916 C918
1	D-05-M8067-0-1						C920 C922 C924 C926 C928
1	D-05-M8067-0-1						C930 C932 C934 C936 C938
1	D-05-M8067-0-1						C940 C942 C944 C946 C948
1	D-05-M8067-0-1						C950 C952 C954 C956 C958
1	D-05-M8067-0-1						C960 C962 C964 C966 C968
1	D-05-M8067-0-1						C970 C972 C974 C976 C978
1	D-05-M8067-0-1						C980 C982 C984 C986 C988
1	D-05-M8067-0-1						C990 C992 C994 C996 C998
1	D-05-M8067-0-1						C1000 C1002 C1004 C1006 C1008

25	26	1302124-00		*** THIS ITEM IS NOT USED ***					
REVISION HISTORY		BASIC PART NO: M8067		DIN: R.GIVEN		DATE: 11-JUN-80		DIGITAL	
ENG	ECO NUMBER	REV	SECTION A OF A					TITLE	
	INITIAL	A	SECTION VARIATION INDEX	CHK'D: P.BOSSMAN		DATE: 15-OCT-80		PARTS LIST	
			(A) LC,LF,LH					Q-BUS MOS MEMORY	
			(B)	DES.ENG: R.GIVEN		DATE: 11-JUN-80			
			(C)					DOCUMENT NUMBER	
			(D)	RESP.ENG.: R.GIVEN		DATE: 15-OCT-80		SIZE/	
			(E)					CODE: NUMBER	
			(F)					REV	
			(G)	MFG.ENG.: AMRIT BADWAIK		DATE: 15-OCT-80		K PL M8067-LA-D8P A	
			(H)	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT A	
			(I)	D-UR-M8067-0-0		AB-DD-M8067-0		2200BA.PLS 21	
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AUTOMATED BY PRTLST.3P(44)

P A R T S L I S T

SHEET A2 OF A3

LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

QTY PER VARIATION
LC LF LH

REFERENCE DESIGNATOR

27	1315339-00	R NETWORK 4-SK 5.0 % SPIN	3	1	1	1	R17, R19, R20
28	1314636-00	R NETWORK 2-SK 5.0 % 4PIN	1	1	1	1	R21, R22
29	1317989-00	R NETWORK 2-SK 3-360 SPIN	1	1	1	1	R23, R24, R25, R26
30	1301959-00	22.0 OHM 5.0 % 1/4W	1	1	1	1	R27, R28, R29, R30
31	1301971-00	*** THIS ITEM IS NOT USED ***	1	1	1	1	
32	1305921-00	DEC4258 PNP 200MH SI 12 30 M	2	2	2	2	Q2, Q3
33	1317533-00	DELAY= 250MS STAPS 14PIN DIP	1	1	1	1	Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, Q35, Q36, Q37, Q38, Q39, Q40, Q41, Q42, Q43, Q44, Q45, Q46, Q47, Q48, Q49, Q50, Q51, Q52, Q53, Q54, Q55, Q56, Q57, Q58, Q59, Q60, Q61, Q62, Q63, Q64, Q65, Q66, Q67, Q68, Q69, Q70, Q71, Q72, Q73, Q74, Q75, Q76, Q77, Q78, Q79, Q80, Q81, Q82, Q83, Q84, Q85, Q86, Q87, Q88, Q89, Q90, Q91, Q92, Q93, Q94, Q95, Q96, Q97, Q98, Q99, Q100
34	1911579-00	8641 TRANSCEIVER BUS QUAD	1	1	1	1	U1
35	1911469-00	8640 RECEIVER BUS QUAD U	1	1	1	1	U2
36	1911944-00	555CN TIMER FUNCTION BLOCK	1	1	1	1	U3
37	1910532-00	74500 NAND GATE QUAD 2IN	1	1	1	1	U4
38	1912388-00	74502 NOR GATE QUAD 2IN PO	1	1	1	1	U5
39	1910533-00	74503 NAND GATE QUAD 2IN	1	1	1	1	U6
40	1910534-00	74504 INVERTER GATE HEX II	1	1	1	1	U7
41	1912803-00	741504 INVERTER GATE HEX	1	1	1	1	U8
42	1912808-00	74508 AND GATE QUAD 2IN PO	1	1	1	1	U9
43	1910536-00	74510 NAND GATE TRIPLE 3IN	1	1	1	1	U10
44	1913340-00	74532 OR GATE QUAD 2IN	1	1	1	1	U11
45	1911715-00	74551 AND-OR GATE INVERT D	1	1	1	1	U12
46	1910542-00	74564 A-C-T GATE 4-2-3-2	1	1	1	1	U13
47	1910544-00	74574 FF-D DUAL EDGE TRIGG	1	1	1	1	U14
48	1910544-01	74574 600G-D DUAL EDGE TRIG	1	1	1	1	U15
49	1910545-00	745112 FF-JK DUAL EDGE TRIG	1	1	1	1	U16
50	1911983-00	745133 NAND GATE POSITIVE I	1	1	1	1	U17
51	1912840-00	LS133 X-OR GATE QUAD 2IN O	1	1	1	1	U18
52	1912840-01	LS133 X-OR GATE QUAD 2IN O	1	1	1	1	U19
53	1910546-00	745139 DECODER-DUAL TWO-IMP	1	1	1	1	U20
54	1910546-01	745140 NAND GATE-DUAL 4INPU	1	1	1	1	U21
55	1912853-00	LS175 FF-D BURD	1	1	1	1	U22
56	1913639-00	LS181 COUNTER SYNCHR UP/D	1	1	1	1	U23
57	1911579-00	745280 PARTIAL DEM/CHKR 8BIT	1	1	1	1	U24
58	1912867-00	LS298 MUX 1 OF 4 2IN M/S	1	1	1	1	U25
59	1913670-00	745373 LATCH 8BIT TRASP TR	1	1	1	1	U26
60	1913670-01	DN 745373 LATCH 8BIT TRANS	1	1	1	1	U27
61	1914451-00	74LS393 COUNTER 8BITNABIT	1	1	1	1	U28
62	1912849-00	*** THIS ITEM IS NOT USED ***	1	1	1	1	
63	2113825-01	*** THIS ITEM IS NOT USED ***	1	1	1	1	
64	2114408-01	*** THIS ITEM IS NOT USED ***	1	1	1	1	
65	2114567-01	*** THIS ITEM IS NOT USED ***	1	1	1	1	
66	2115734-01	*** THIS ITEM IS NOT USED ***	1	1	1	1	
67	239382-00	A2-05	1	1	1	1	E38
68	2377171-00	*** THIS ITEM IS NOT USED ***	1	1	1	1	
69	238161-00	*** THIS ITEM IS NOT USED ***	1	1	1	1	
70	237944-00	FI-01	1	1	1	1	E37
71	9009185-00	JUMPER WIRE, INSULATED, BLACK B	8	8	8	8	W1, W2, W4, W6, W9, W13, W15
72	9007201-00	TRANS PADS #10253	1	1	1	1	
73	9000024-01	EYELET ROLL FLANGE .1210DX .192	8	8	8	8	
74	9009149-01	PIN, STAKING, P.C. BOARD .025 SOU	43	43	43	43	
75		*** THIS ITEM IS NOT USED ***	1	1	1	1	
76							
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95							
96							
97							
98							
99							
100							

USED UNDER Z1

BLANK

SIZE	CODE	DOCUMENT NUMBER	REV
K	PL	M8067-LA-DBP	A

AUTOMATED BY PRTLST.3P(44)

P A R T S L I S T

SHEET A3 OF A3

LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

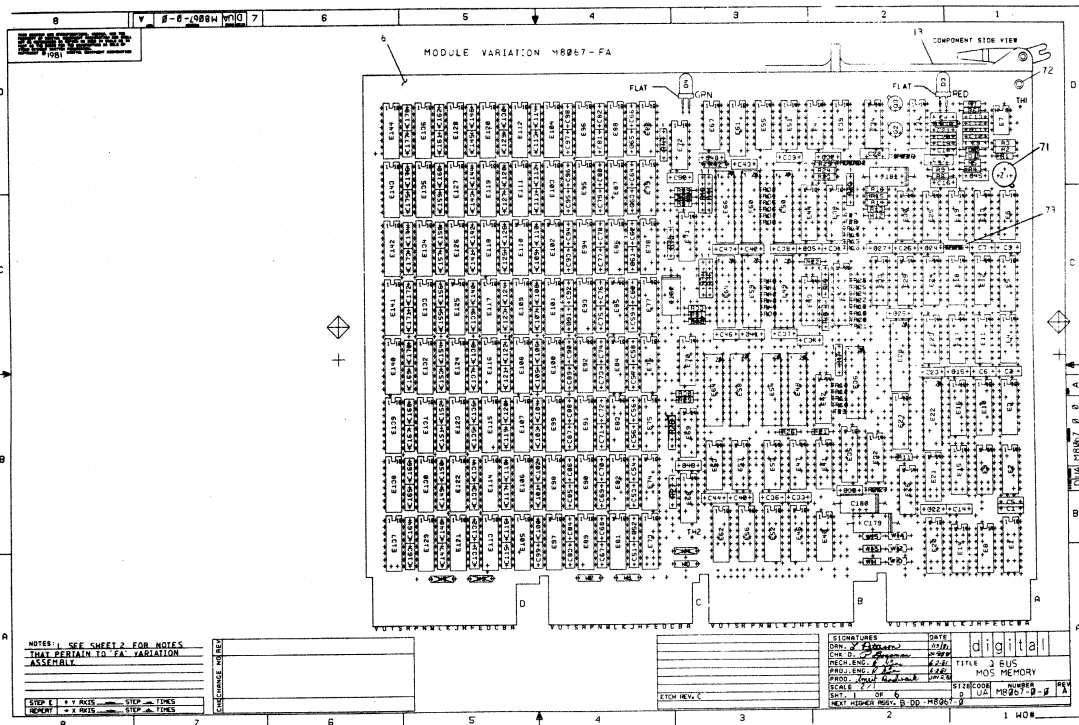
QTY PER VARIATION
LC LF LH

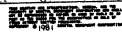
REFERENCE DESIGNATOR

75	75	2118467-01	8254-20 RAM 64K X1,200NS 1	72	-	-	E73-E144
76	76	2118470-01	4854-1 MOS RAM 64K X1,200	-	72	-	E73-E144
77	77	2118472-01	4154-2 MOS RAM 64K X1,200	-	-	72	E73-E144
78	78	9105740-55	WIRE(WRAP)30AWG UL1429	A/R	A/R	A/R	

75 NOTE: M8067-LA IS A PRIMARY VARIATION OF 256K X 18 BIT SYSTEM (NOT A MODULE TYPE).
 80 NOTE: M8067-LC IS A MODULE TYPE USING FUJITSU 64K MOS DEVICES.
 81 NOTE: M8067-LF IS A MODULE TYPE USING HITACHI 64K MOS DEVICES.
 82 NOTE: M8067-LH IS A MODULE TYPE USING NEC 64K MOS DEVICES.

D	I	G	I	T	A	L	TITLE	Q-BUS MOS MEMORY	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	M8067-LA-DBP	A





NOTES:

1. WIRE WRAP PIN

2. R32 AND R38 ARE NOT INSTALLED IN THE FA VARIATION

TIME SELECTION	JUMPER CONFIG.	VARIATION
MOS RAMS WITH 40NS ACCESS TIME	43 TO 44	FA, KA, LA
MOS RAMS WITH 200NS ACCESS TIME	45 TO 44	FA, KA, LA

WRITE WRONG PARITY	JUMPER CONFIG.	VARIATION
ENABLING TO WRITE WRONG PARITY	6 TO 7	FA, KA, LA
DISABLING TO WRITE WRONG PARITY	6 TO 7	FA, KA, LA

BLOCK MODE SELECTION	JUMPER CONFIG.	VARIATION
ENABLING BLOCK MODE FUNCTION	22 TR 23	FA, KA, LA
DISABLING BLOCK MODE FUNCTION	21 TR 23	FA, KA, LA

16K OR 64K MOS RAM CHIP SELECTION	JUMPER CONFIG.	VARIATION
FOR 16K MOS RAM CHIPS	9 TO 9 AND 13 TO 15	FA
FOR 64K MOS RAM CHIPS	9 TO 9 AND 13 TO 15	KA, LA

BUS GRANT CONTINUITY	JUMPER CONFIG.	VARIATION
FOR Q/O CH 022/022	W1 W2	FA, KA, LA
FOR Q/CD OR 022/CD	IN OUT	FA, KA, LA

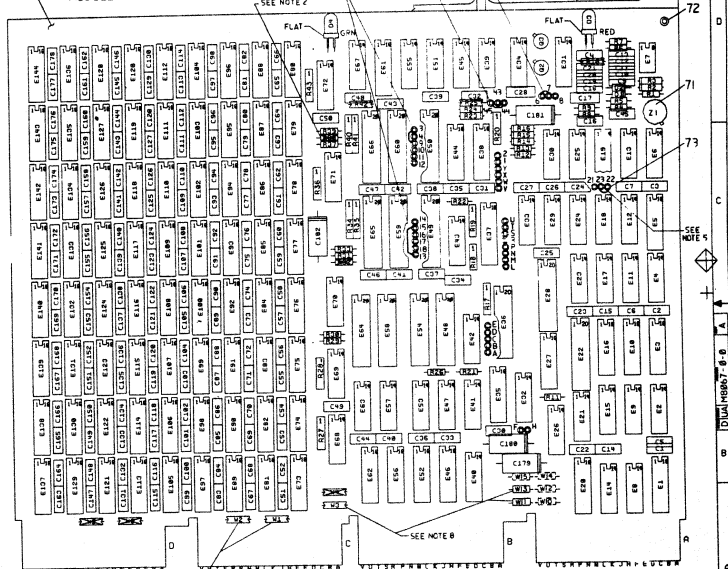
16K MOS RAM MULTIPLE VOLTAGE DEVICES	JUMPER CONFIGURATION	VARIATION
NON-BATTERY BACK UP	W1 W2	FA
BATTERY BACK UP	IN OUT IN OUT	FA

9. M8067-FA (64K X 16 BIT) IS A PRIMARY VARIATION (NOT A MODULE TYPE) USING 16K MULTIPLE-VOLTAGE MOS RAMS.
M8067-KA (128K X 16 BIT) IS A PRIMARY VARIATION (NOT A MODULE TYPE) USING 64K SINGLE-VOLTAGE MOS RAMS.
M8067-LA (256K X 16 BIT) IS A PRIMARY VARIATION (NOT A MODULE TYPE) USING 64K SINGLE VOLTAGE MOS RAMS.

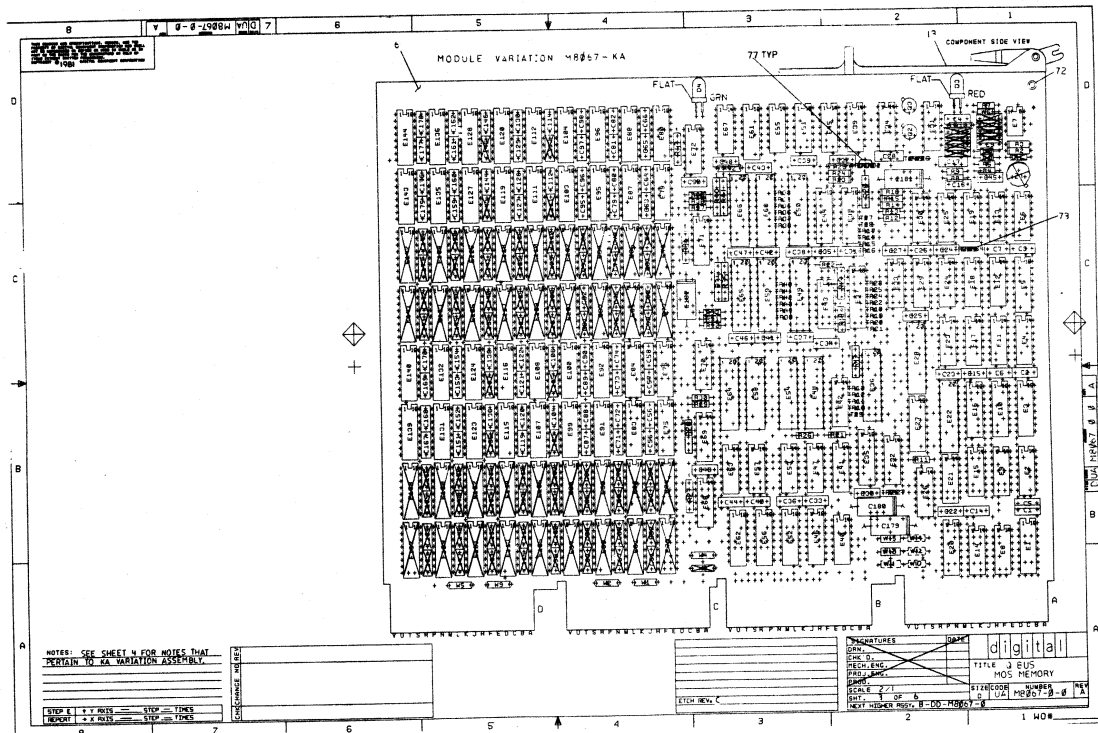
NOTES:

STEP	4 Y H015	STEP	4 Y H015
REMARK	4 Y H015	STEP	4 Y H015

MODULE VARIATION M8067-FA



TEMPERATURE	DATE	digital
CH 001	CH 002	
CH 003	CH 004	TITLE Q BUS
CH 005	CH 006	MOS MEMORY
CH 007	CH 008	PROJ. NO.
CH 009	CH 010	DATE
CH 011	CH 012	SIZE/REV. NUMBER
CH 013	CH 014	0 LA M8067-B-B
CH 015	CH 016	0
CH 017	CH 018	0
CH 019	CH 020	0
CH 021	CH 022	0
CH 023	CH 024	0
CH 025	CH 026	0
CH 027	CH 028	0
CH 029	CH 030	0
CH 031	CH 032	0
CH 033	CH 034	0
CH 035	CH 036	0
CH 037	CH 038	0
CH 039	CH 040	0
CH 041	CH 042	0
CH 043	CH 044	0
CH 045	CH 046	0
CH 047	CH 048	0
CH 049	CH 050	0
CH 051	CH 052	0
CH 053	CH 054	0
CH 055	CH 056	0
CH 057	CH 058	0
CH 059	CH 060	0
CH 061	CH 062	0
CH 063	CH 064	0
CH 065	CH 066	0
CH 067	CH 068	0
CH 069	CH 070	0
CH 071	CH 072	0
CH 073	CH 074	0
CH 075	CH 076	0
CH 077	CH 078	0
CH 079	CH 080	0
CH 081	CH 082	0
CH 083	CH 084	0
CH 085	CH 086	0
CH 087	CH 088	0
CH 089	CH 090	0
CH 091	CH 092	0
CH 093	CH 094	0
CH 095	CH 096	0
CH 097	CH 098	0
CH 099	CH 100	0
CH 101	CH 102	0
CH 103	CH 104	0
CH 105	CH 106	0
CH 107	CH 108	0
CH 109	CH 110	0
CH 111	CH 112	0
CH 113	CH 114	0
CH 115	CH 116	0
CH 117	CH 118	0
CH 119	CH 120	0
CH 121	CH 122	0
CH 123	CH 124	0
CH 125	CH 126	0
CH 127	CH 128	0
CH 129	CH 130	0
CH 131	CH 132	0
CH 133	CH 134	0
CH 135	CH 136	0
CH 137	CH 138	0
CH 139	CH 140	0
CH 141	CH 142	0
CH 143	CH 144	0
CH 145	CH 146	0
CH 147	CH 148	0
CH 149	CH 150	0
CH 151	CH 152	0
CH 153	CH 154	0
CH 155	CH 156	0
CH 157	CH 158	0
CH 159	CH 160	0
CH 161	CH 162	0
CH 163	CH 164	0
CH 165	CH 166	0
CH 167	CH 168	0
CH 169	CH 170	0
CH 171	CH 172	0
CH 173	CH 174	0
CH 175	CH 176	0
CH 177	CH 178	0
CH 179	CH 180	0
CH 181	CH 182	0
CH 183	CH 184	0
CH 185	CH 186	0
CH 187	CH 188	0
CH 189	CH 190	0
CH 191	CH 192	0
CH 193	CH 194	0
CH 195	CH 196	0
CH 197	CH 198	0
CH 199	CH 200	0



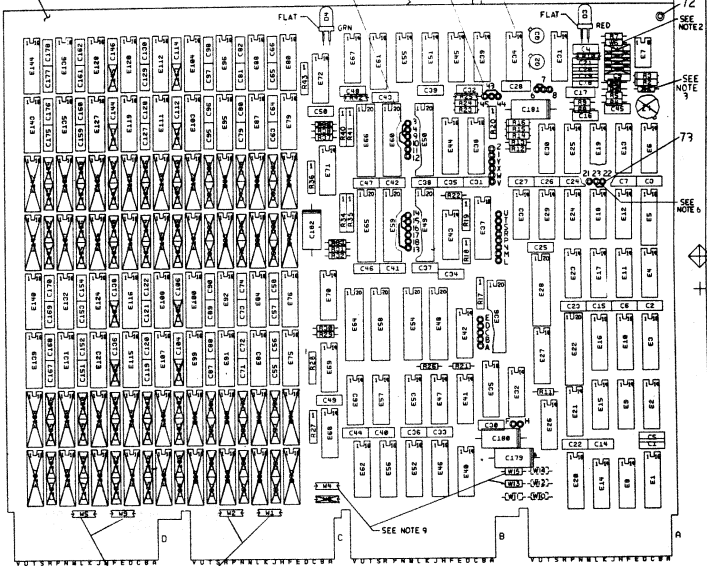
COMPONENT SIDE VIEW

THE FOLLOWING COMPONENTS ARE NOT INSTALLED IN THE KA VARIATION:
R1, D1, D2, J1, C10-C18, C21, C91-C104, C59-C62, C67-C70, C75-C78,
C83-C86, C94-C94, C99-C103, C105, C107, C117, C118, C119, C123-C126,
C131-C135, C137, C139-C143, C145, C147-C150, C155-C158, C163-C166,
C171-C174. E73, E74, E77, E78, E81, E82, E85, E86, E89, E90, E93, E94,
E97, E98, E101, E102, E105, E106, E109, E110, E113, E114, E117, E118, E121,
E122, E125, E126, E129, E130, E133, E134, E137, E138, E141 and E142.
ALSO DO NOT INSTALL R33 & R39.

9.	64K MOS RAM SINGLE VOLTAGE DEVICES	JUMPER CONFIGURATION							VARIATION
	NON-BATTERY BACK UP	W4	W5	W9	W13	W15	W12	W14	XA, LA
	BATTERY BACK UP	IN	IN	IN	IN	IN	OUT	OUT	

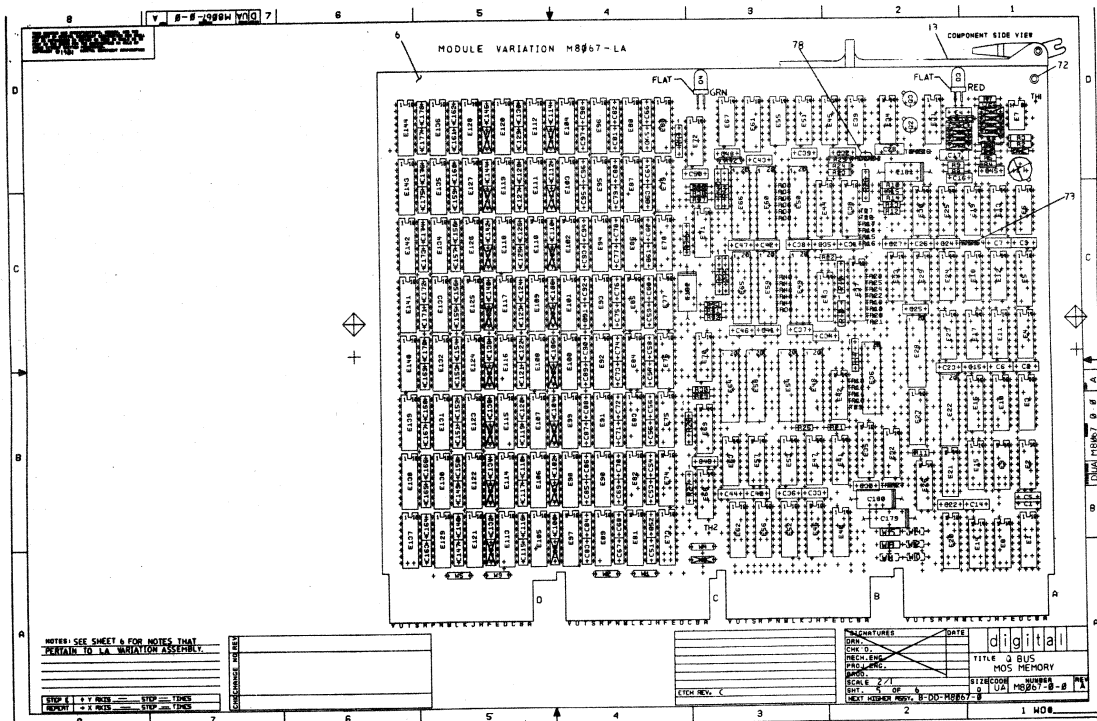
NOTES:

CHK	CHANGE	NO	REV
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SEE NOTE 9

TITLE Q BUS MOS MEMORY			
SIZE 9	CODE UA	NUMBER MB067-0-0	RE A



MODULE VARIATION M8067-LA

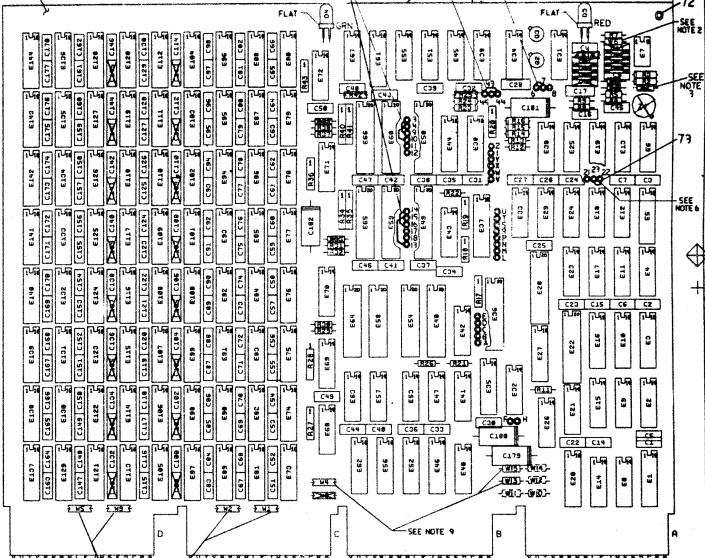
NOTES:

1. **WIRE WRAP PIN**
2. **R₁₀ IS REPLACED WITH A JUMPER (W6) IN KA AND LA VARIATIONS**
3. **THE FOLLOWING COMPONENTS ARE NOT IN THE LA VERSION:**
R1, D1, D2, Z1, C10, C11, C18, C21, C28, C30, C101, C105, C107, C109, C111, C113, C131, C133, C135, C137, C139, C141, C143, C145
ALSO DO NOT INSTALL R33 & R39.

4. TIME SELECTION MOS RAMS WITH 18MS ACCESS TIME	JUMPER CONFIG. 43 TO 44	VARIATION FA, KA, LA
MOS RAMS WITH 200NS ACCESS TIME	45 TO 44	FA, KA, LA
5. WRITE WRONG PARITY	JUMPER CONFIG.	VARIATION
ENABLING TO WRITE WRONG PARITY	6 TO 7	FA, KA, LA
DISABLING TO WRITE WRONG PARITY	8 TO 7	FA, KA, LA
6. BLOCK MODE SELECTION	JUMPER CONFIG.	VARIATION
ENABLING BLOCK MODE FUNCTION	22 TO 23	FA, KA, LA
DISABLING BLOCK MODE FUNCTION	21 TO 23	FA, KA, LA
7. 16K OR 64K MOS RAM CHIP SELECTION	JUMPER CONFIG.	VARIATION
FOR 16K MOS RAM CHIPS	1 TO 9 AND 13 TO 15	FA
FOR 64K MOS RAM CHIPS	3 TO 9, 13 TO 15 & 18 AND 14 TO 16	KA, LA
8. BUS GRANT CONTINUITY	JUMPER CONFIG.	VARIATION
FOR G/Q OR Q22/Q22	W1 W2 IN IN	FA, KA, LA
FOR G/CD OR Q22/CD	OUT OUT	
9. 64K MOS RAM SINGLE VOLTAGE DEVICES	JUMPER CONFIGURATION	VARIATION
NON-BATTERY BACK UP	W4 W5 W3 W1 W2 W1 W1	KA, LA
BATTERY BACK UP	IN IN IN IN IN IN IN IN	

10. **M8067-FA (64K X 16 BIT) IS A PRIMARY VARIATION (NOT A MODULE TYPE) USING 64K MULTIPLE-VOLTAGE MOS RAMS.**
M8067-KA (128K X 16 BIT) IS A PRIMARY VARIATION (NOT A MODULE TYPE) USING 64K SINGLE-VOLTAGE MOS RAMS.
M8067-LA (256K X 16 BIT) IS A PRIMARY VARIATION (NOT A MODULE TYPE) USING 64K SINGLE-VOLTAGE MOS RAMS.

STOP & + V MOS STOP & + V MOS
REPORT & + V MOS STOP & + V MOS



SEE NOTE 9

SEE NOTE 8

SEE NOTE 9

ETCH REV. C

SYNOPSIS	DATE
DESIGN	
RECH. ENG.	
PROD. ENG.	
SCALE 2/1	
DATE 3 OF 6	
NOT RECH. REV. B-DU-1000	

digital

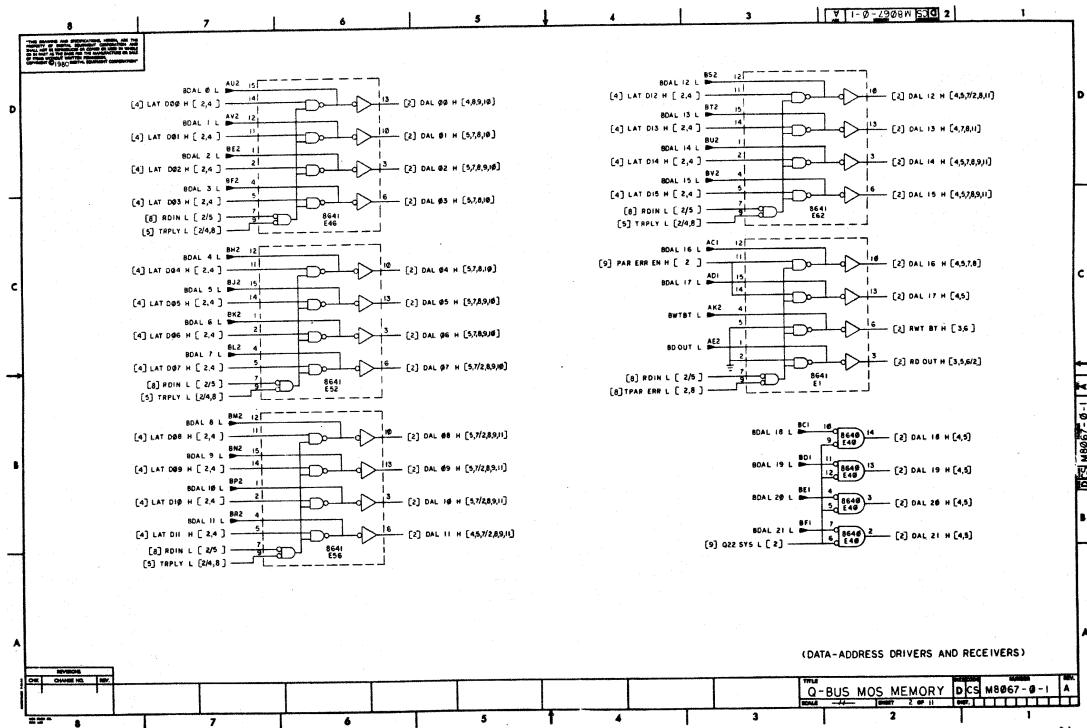
TITLE 0 BUS MOS MEMORY

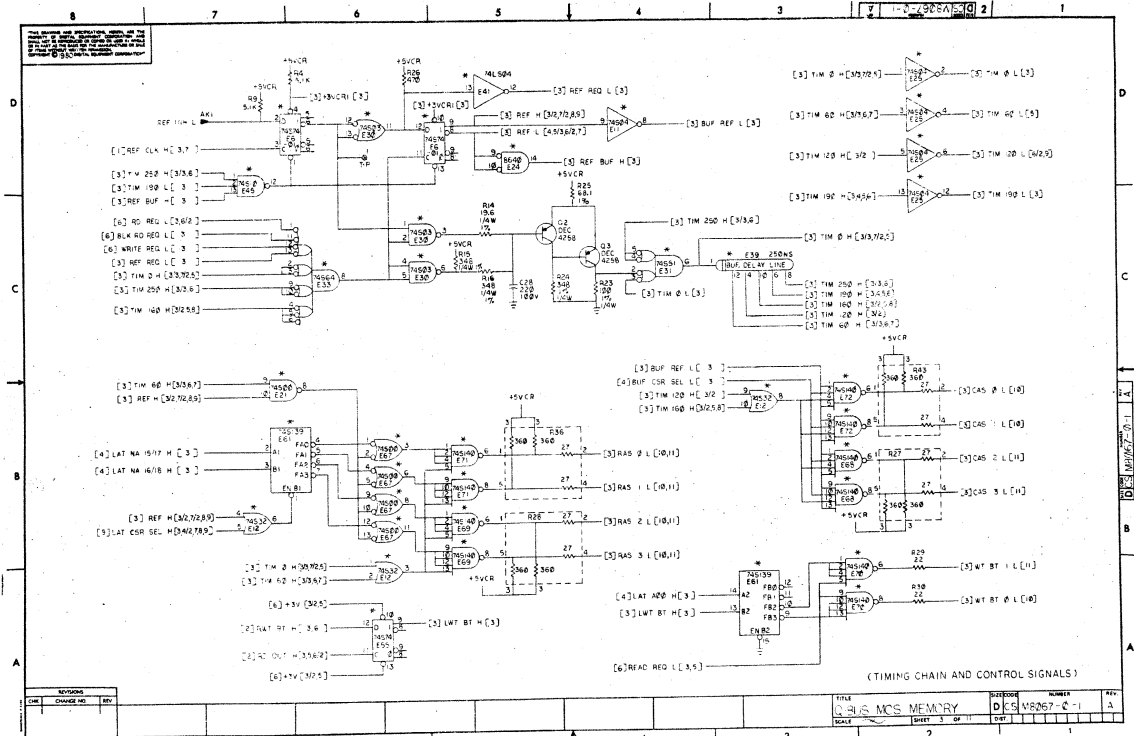
SIZE 2/1

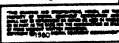
DATE 3 OF 6

NOT RECH. REV. B-DU-1000

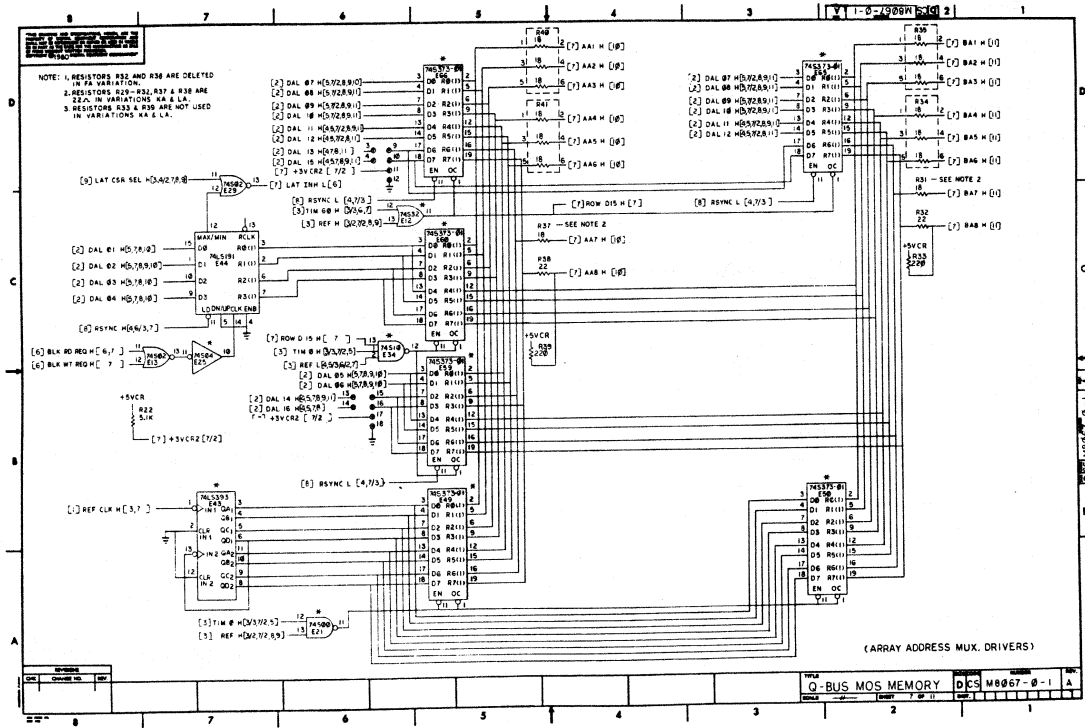








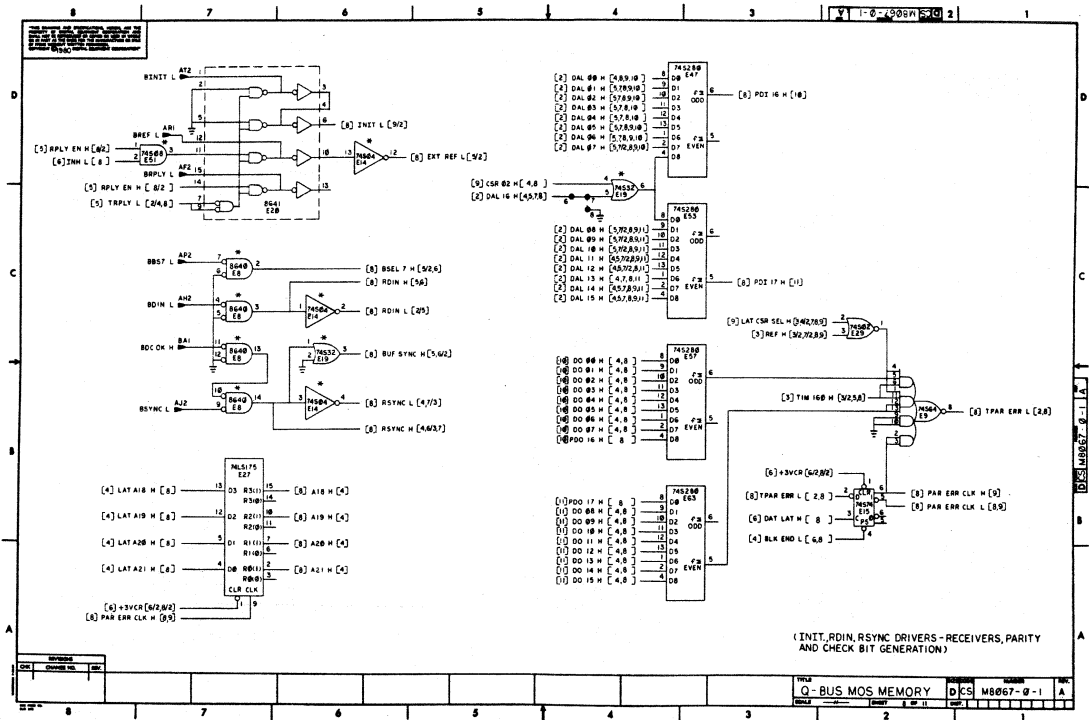
NOTE: 1. RESISTORS R32 AND R36 ARE DELETED
IN PA VARIATION.
2. RESISTORS R29-R32, R37 & R38 ARE
22K IN VARIATIONS KA & LA.
3. RESISTORS R33 & R39 ARE NOT USED
IN VARIATIONS KA & LA.

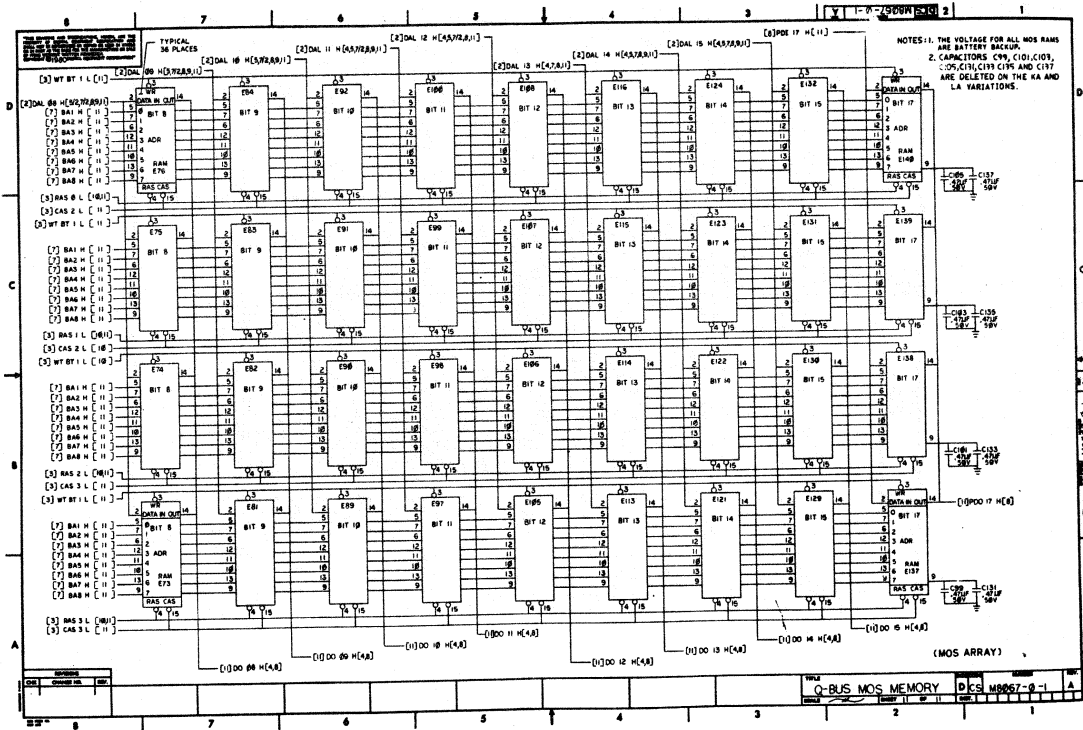


(ARRAY ADDRESS MUX. DRIVERS)

TEST	OPERATION	VAL.	REV.
1	1	1	1

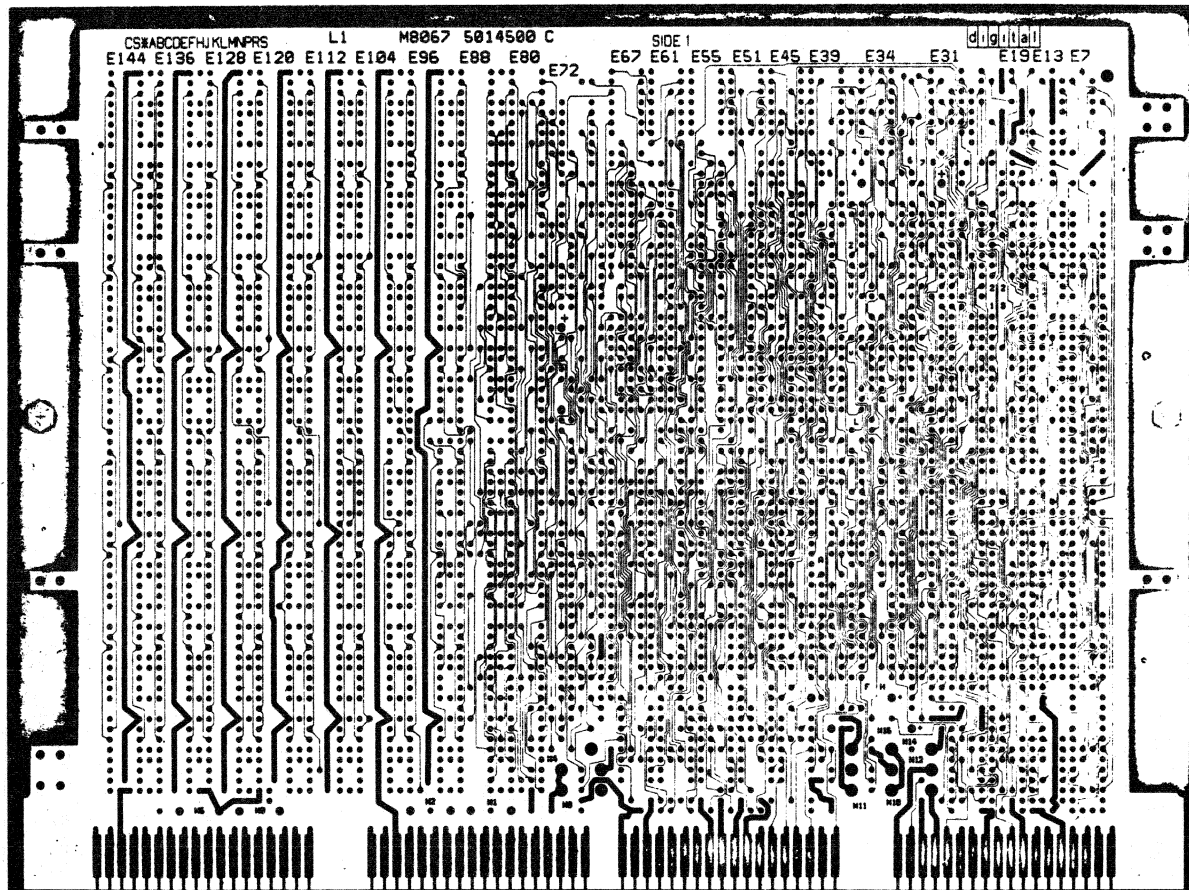
TYPE	Q-BUS MOS MEMORY	DCS	M0067-0-1	REV.
DATE	1987	1	1	1





LAYER 1

7 0-0-02510530 2



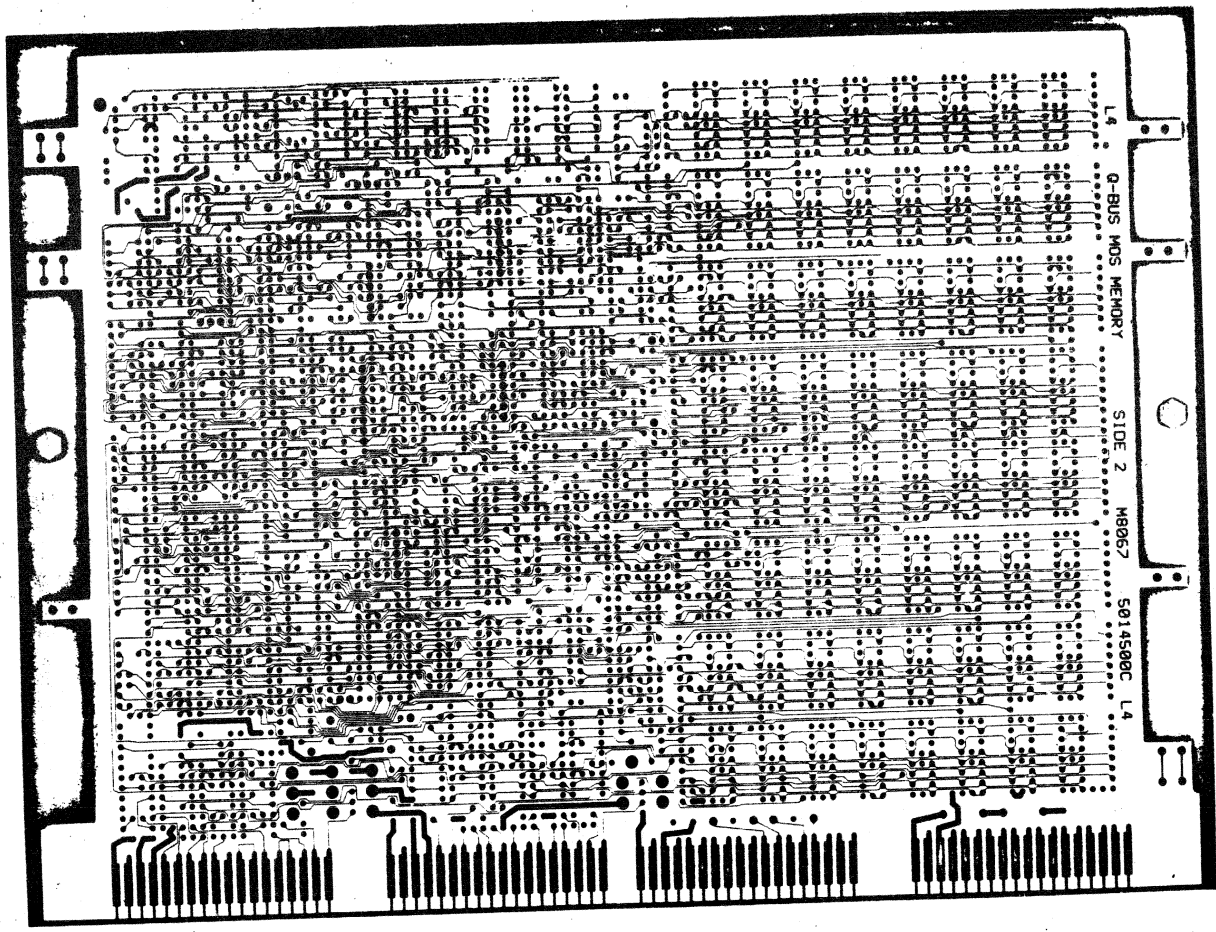
NOTES:

CHANGE NO	REV

SIGNATURES		DATE	digital	TITLE
DAN. [Signature]		01/01/01		
CHK. D. [Signature]		01/01/01	ETCH CUT DRAWING	
ENG. [Signature]		01/01/01	SIZE CODE	
PROJ. ENG. [Signature]		01/01/01	NUMBER	
PROD. [Signature]		01/01/01	REV	
SCALE 2:1		01/01/01	01/01/01	
SMT. 1 OF 2		01/01/01	01/01/01	
ETCH REV C FIRST USED ON M8067		01/01/01	01/01/01	

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PC 834AJ



REV	DATE	BY	CHKD
1			

TITLE	ETCH CUT DRAWING	DATE	DEC 5014500-0-0	REV	A
SCALE	2:1	SHEET	2 OF 2	UNIT	

AUTOMATED BY: PRTLET.3P(44)

PARTS LIST

SHEET A2 OF A3

LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

QTY PER VARIATION
78 FC PH

REFERENCE DESIGNATOR

280.0	1900271-00	280.0	2E H S O X CC	2	2	2	R33, R39
280.0	1900272-00	280.0	PH 200H 61 12 30	2	2	2	R33, R39
280.0	1900273-00	280.0	2EONS STAP 12 30	2	2	2	R33, R39
280.0	1900274-00	280.0	TRANSCIVER BUS DTP	2	2	2	R33, R39
280.0	1900275-00	280.0	RECORDER BUS DTP	2	2	2	R33, R39
280.0	1900276-00	280.0	CH 12E H 12	2	2	2	R33, R39
280.0	1900277-00	280.0	AND GATE-QUAD 2IN	2	2	2	R33, R39
280.0	1900278-00	280.0	NOR GATE-QUAD 2IN	2	2	2	R33, R39
280.0	1900279-00	280.0	AND GATE-QUAD 2IN	2	2	2	R33, R39
280.0	1900280-00	280.0	INVERTER GATE-HEX 11	2	2	2	R33, R39
280.0	1900281-00	280.0	AND GATE-QUAD 2IN	2	2	2	R33, R39
280.0	1900282-00	280.0	AND GATE-TRIPLE 3IN	2	2	2	R33, R39
280.0	1900283-00	280.0	OR GATE-QUAD 2IN	2	2	2	R33, R39
280.0	1900284-00	280.0	AND-OR GATE-INVERT D	2	2	2	R33, R39
280.0	1900285-00	280.0	0-0-1 GATE 4-2-2-2	2	2	2	R33, R39
280.0	1900286-00	280.0	FF-D DUAL EDGE TRIGG	2	2	2	R33, R39
280.0	1900287-00	280.0	60G-D DUAL EDGE TRIG	2	2	2	R33, R39
280.0	1900288-00	280.0	FF-JK DUAL EDGE TRIG	2	2	2	R33, R39
280.0	1900289-00	280.0	NAND GATE-POSITIVE I	2	2	2	R33, R39
280.0	1900290-00	280.0	X-OR GATE-QUAD 2IN	2	2	2	R33, R39
280.0	1900291-00	280.0	DECODER-DUAL TWO-IMP	2	2	2	R33, R39
280.0	1900292-00	280.0	NAND GATE-DUAL 4INPU	2	2	2	R33, R39
280.0	1900293-00	280.0	FF-D QUAD	2	2	2	R33, R39
280.0	1900294-00	280.0	COUNTER SYNCHR UP/D	2	2	2	R33, R39
280.0	1900295-00	280.0	PARITY EN/CHN 9BIT	2	2	2	R33, R39
280.0	1900296-00	280.0	MUX 1 OF 4 2IN W/S	2	2	2	R33, R39
280.0	1900297-00	280.0	LATCH 8BIT TRASP TR	2	2	2	R33, R39
280.0	1900298-00	280.0	LATCH 8BIT TRANS	2	2	2	R33, R39
280.0	1900299-00	280.0	COUNTER BINARY 4BIT	2	2	2	R33, R39
280.0	1900300-00	280.0	VOL 12 12 12 12 12	2	2	2	R33, R39
280.0	1900301-00	280.0	16K MOS RAM 200NS	2	2	2	R33, R39
280.0	1900302-00	280.0	16K MOS RAM 200NS	2	2	2	R33, R39
280.0	1900303-00	280.0	16K MOS RAM 200NS	2	2	2	R33, R39
280.0	1900304-00	280.0	16K MOS RAM 200NS	2	2	2	R33, R39
280.0	1900305-00	280.0	UPD 4160	2	2	2	R33, R39
280.0	1900306-00	280.0	THIS ITEM IS NOT USED ***	2	2	2	R33, R39
280.0	1900307-00	280.0	02-05	2	2	2	R33, R39
280.0	1900308-00	280.0	F1-01	2	2	2	R33, R39
280.0	1900309-00	280.0	THIS ITEM IS NOT USED ***	2	2	2	R33, R39
280.0	1900310-00	280.0	THIS ITEM IS NOT USED ***	2	2	2	R33, R39
280.0	1900311-00	280.0	JUMPER WIRE INSULATED, BLACK B	2	2	2	R33, R39
280.0	1900312-00	280.0	TRANS PADS 10253	2	2	2	R33, R39
280.0	1900313-00	280.0	EYELET ROLL FLANGE 12100X .192	2	2	2	R33, R39
280.0	1900314-00	280.0	PIN, STAKING, P.C. BOARD .025 SQU	2	2	2	R33, R39
280.0	1900315-00	280.0	THIS ITEM IS NOT USED ***	2	2	2	R33, R39
280.0	1900316-00	280.0	THIS ITEM IS NOT USED ***	2	2	2	R33, R39
280.0	1900317-00	280.0	THIS ITEM IS NOT USED ***	2	2	2	R33, R39
280.0	1900318-00	280.0	WIRE (WRAP) 30AWG	2	2	2	R33, R39
280.0	1900319-00	280.0	UL1423	2	2	2	R33, R39
280.0	1900320-00	280.0	A/R A/R A/R	2	2	2	R33, R39

USED UNDER Z1

BLANK

BLANK

9105740-55

W1-W3, W13, W11

D	I	G	I	T	A	L	TITLE	SECTION	A	OF	A	SIZE	CODE	DOCUMENT NUMBER	REV
							0-BUS MOS MEMORY					K	PL	M8067-FA-DBP	A

AUTOMATED BY PRTLST.3P(44)

P A R T S L I S T

SHEET A3 OF A3

LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

QTY PER VARIATION
FB FC FH

REFERENCE DESIGNATOR

77 NOTE: 1. MB067-FA IS A PRIMARY VARIATION OF 64K X 16 BIT SYSTEM (NOT A MODULE TYPE).
 78 NOTE: MB067-FB IS A MODULE TYPE USING MOSTEK 16K MOS DEVICES.
 79 NOTE: MB067-FC IS A MODULE TYPE USING FUJITSU 16K MOS DEVICES.
 80 NOTE: MB067-FH IS A MODULE TYPE USING NEC 16K MOS DEVICES.

D	I	G	I	T	A	L	TITLE	Q-BUS MOS MEMORY	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	MB067-FA-DBP	A

24	REVISION HISTORY	BASIC PART NO:	M8067	DRAWN:	R.GIVEN	DATE:	11-JUN-80	D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF F	CHK'D:	P.BOSSMAN	DATE:	15-OCT-80	TITLE	PARTS LIST
---	INITIAL	A	SECTION VARIATION INDEX [A] KC,KF,KH [B] [C] [D] [E] [F] [G] [H] [I] [J] [K] [L] [M] [N]	DES.ENG.	R.GIVEN	DATE:	11-JUN-80		
				RESP.ENG.	R.GIVEN	DATE:	15-OCT-80	DOCUMENT NUMBER	
				MFG.ENG.	AMRIT BADWAIK	DATE:	15-OCT-80	K PL M8067-KA-D8P	A
				ASSEMBLY NUMBER:	D-UA-M8067-0-0	TOP DOCUMENT NUMBER:	M8-DD-M8067-0	FILE NAME	EDIT #
								ZED07A.PLS	24
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AUTOMATED BY PRTLST.3P(44)

P A R T S L I S T

SHEET A2 OF A3

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER	VARIATION	REFERENCE DESIGNATOR
				KC	KF	KH	
1314637-00		A NETWORK 3-22	1.0 % 6PIN	4	4	4	R34,R35,R40,R41
1302124-00		*** THIS ITEM IS NOT USED ***					
1215339-00		A NETWORK 4-5K	5.0 % 5PIN	3	3	3	R17,R19,R20
1214636-00		A NETWORK 3-27	3-360 5PIN	4	4	4	R18
1317989-00		22.0 .25 W 5.0 % CC		6	6	6	R27,R28,R36,R43
1301959-00		*** THIS ITEM IS NOT USED ***					R29-R32,R37,R38
1300271-00		DEC4258 PNP 200MA ST 1.3 30 M		2	2	2	Q2 Q3
1505263-00		DELAY= 250NS STOPS 14PIN DIP		6	6	6	Q4
1911579-00		8641 TRANSCIEVER BUS GUA		3	3	3	R1,E20,E46,E52,E56,E62
1911469-00		DEC 8640 RECEIVER BUS QUAD U		3	3	3	R18,R24,E40
1911944-00		555CN TIMER FUNCT BLOCK		1	1	1	U7
1910532-00		74500 NAND GATE-QUAD 2IN		1	1	1	U1,E67
1912388-00		74502 NOR GATE-QUAD 2IN PO		1	1	1	U13,E29
1910533-00		74503 NAND GATE-QUAD 2IN O		1	1	1	U30
1910534-00		74504 INVERTER GATE-HEX II		3	3	3	U11,E14,E25
1912803-00		74LS04 INVERTER GATE-HEX		1	1	1	U41
1912389-00		74508 AND GATE-QUAD 2IN PO		1	1	1	U12
1910536-00		74510 NAND GATE-TRIPLE 3IN		1	1	1	U10,E34,E45
1913340-00		74532 OR GATE-QUAD 2IN 3IN		1	1	1	U19
1911712-00		74551 AND-OR GATE-INVERT D		1	1	1	U31
1910542-00		74564 A-O-I GATE 4-2-3-2		1	1	1	U16,E9,E17,E33
1910544-00		74574 FF-D DUAL EDGE TRIGG		1	1	1	U15,E18,E26,E55
1910544-01		74574-6000-D DUAL EDGE TRIG		1	1	1	U15
1910545-00		745112 FF-JK DUAL EDGE TRIG		1	1	1	U16
1911983-00		745133 NAND GATE-POSITIVE 1		1	1	1	U35
1912840-00		LS136 X-OR GATE-QUAD 2IN O		1	1	1	U12
1911676-00		745139 DECODER-DUAL W/O-INP		1	1	1	U1
1910546-00		745140 NAND GATE-DUAL 4INPU		1	1	1	U17,E72
1912853-00		LS175 FF-D QUAD		1	1	1	U3
1913939-00		LS191 COUNTER SYNCHRA UP/D		1	1	1	U44
1911579-00		745280 PARITY GEN/CHKR 9BIT		1	1	1	U17,E53,E57,E63
1912967-00		LS298 MUX 1 OF 2 2IN W/S		1	1	1	U10
1913670-00		745273 LATCH 8BIT TRASP TR		1	1	1	U18,E36,E48,E54,E58,E64
1913670-01		DM 745373M LATCH 8BIT TRANS		1	1	1	U19
1914451-00		74LS393 COUNTER BINARY 4BIT		1	1	1	U43
1912541-00		*** THIS ITEM IS NOT USED ***					
2113282-01		*** THIS ITEM IS NOT USED ***					
2114408-01		*** THIS ITEM IS NOT USED ***					
2114567-01		*** THIS ITEM IS NOT USED ***					
2115724-01		*** THIS ITEM IS NOT USED ***					
23578AC-00		A2-05		1	1	1	E38
23771F-00		*** THIS ITEM IS NOT USED ***					
23816F1-00		F1-01		1	1	1	E37
23794F1-00		*** THIS ITEM IS NOT USED ***					
9009185-00		JUMPER WIRE INSULATED BLACK B		8	8	8	W1,W2,W4-W6,W9,W13,W15
9007201-00		*** THIS ITEM IS NOT USED ***					
9000034-01		EYELET ROLL FLANGE .12100X .192		8	8	8	

D I G I T A L TITLE

Q-BUS MOS MEMORY

SECTION A OF A

SIZE CODE DOCUMENT NUMBER

K PL M8067-KA-DBP

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LINE	ITEM	DOCUMENT NUMBER
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DESCRIPTION

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73	73	9009149-01	PIN, STAKING, P.C. BOARD, 025 SQ	43	43	43	275, 276, 279, 280, 283, 284, 287, 288, 291, 292, 295, 296, 299, 300, 303, 304, 307, 310, 313, 316, 319, 320, 323, 326, 329, 330, 333, 336, 339, 340, 343, 346, 349, 350, 353, 356, 359, 360, 363, 366, 369, 370, 373, 376, 379, 380, 383, 384, 387, 388, 391, 392, 395, 396, 399, 400, 403, 404, 407, 410, 413, 416, 419, 420, 423, 426, 429, 430, 433, 436, 439, 440, 443, 446, 449, 450, 453, 456, 459, 460, 463, 466, 469, 470, 473, 476, 479, 480, 483, 484, 487, 488, 491, 492, 495, 496, 499, 500, 503, 504, 507, 510, 513, 516, 519, 520, 523, 526, 529, 530, 533, 536, 539, 540, 543, 546, 549, 550, 553, 556, 559, 560, 563, 566, 569, 570, 573, 576, 579, 580, 583, 584, 587, 588, 591, 592, 595, 596, 599, 600, 603, 604, 607, 610, 613, 616, 619, 620, 623, 626, 629, 630, 633, 636, 639, 640, 643, 646, 649, 650, 653, 656, 659, 660, 663, 666, 669, 670, 673, 676, 679, 680, 683, 684, 687, 688, 691, 692, 695, 696, 699, 700, 703, 704, 707, 710, 713, 716, 719, 720, 723, 726, 729, 730, 733, 736, 739, 740, 743, 746, 749, 750, 753, 756, 759, 760, 763, 766, 769, 770, 773, 776, 779, 780, 783, 784, 787, 788, 791, 792, 795, 796, 799, 800, 803, 804, 807, 810, 813, 816, 819, 820, 823, 826, 829, 830, 833, 836, 839, 840, 843, 846, 849, 850, 853, 856, 859, 860, 863, 866, 869, 870, 873, 876, 879, 880, 883, 884, 887, 888, 891, 892, 895, 896, 899, 900, 903, 904, 907, 910, 913, 916, 919, 920, 923, 926, 929, 930, 933, 936, 939, 940, 943, 946, 949, 950, 953, 956, 959, 960, 963, 966, 969, 970, 973, 976, 979, 980, 983, 984, 987, 988, 991, 992, 995, 996, 999, 1000, 1003, 1004, 1007, 1010, 1013, 1016, 1019, 1020, 1023, 1026, 1029, 1030, 1033, 1036, 1039, 1040, 1043, 1046, 1049, 1050, 1053, 1056, 1059, 1060, 1063, 1066, 1069, 1070, 1073, 1076, 1079, 1080, 1083, 1084, 1087, 1088, 1091, 1092, 1095, 1096, 1099, 1100, 1103, 1104, 1107, 1110, 1113, 1116, 1119, 1120, 1123, 1126, 1129, 1130, 1133, 1136, 1139, 1140, 1143, 1146, 1149, 1150, 1153, 1156, 1159, 1160, 1163, 1166, 1169, 1170, 1173, 1176, 1179, 1180, 1183, 1184, 1187, 1188, 1191, 1192, 1195, 1196, 1199, 1200, 1203, 1204, 1207, 1210, 1213, 1216, 1219, 1220, 1223, 1226, 1229, 1230, 1233, 1236, 1239, 1240, 1243, 1246, 1249, 1250, 1253, 1256, 1259, 1260, 1263, 1266, 1269, 1270, 1273, 1276, 1279, 1280, 1283, 1284, 1287, 1288, 1291, 1292, 1295, 1296, 1299, 1300, 1303, 1304, 1307, 1310, 1313, 1316, 1319, 1320, 1323, 1326, 1329, 1330, 1333, 1336, 1339, 1340, 1343, 1346, 1349, 1350, 1353, 1356, 1359, 1360, 1363, 1366, 1369, 1370, 1373, 1376, 1379, 1380, 1383, 1384, 1387, 1388, 1391, 1392, 1395, 1396, 1399, 1400, 1403, 1404, 1407, 1410, 1413, 1416, 1419, 1420, 1423, 1426, 1429, 1430, 1433, 1436, 1439, 1440, 1443, 1446, 1449, 1450, 1453, 1456, 1459, 1460, 1463, 1466, 1469, 1470, 1473, 1476, 1479, 1480, 1483, 1484, 1487, 1488, 1491, 1492, 1495, 1496, 1499, 1500, 1503, 1504, 1507, 1510, 1513, 1516, 1519, 1520, 1523, 1526, 1529, 1530, 1533, 1536, 1539, 1540, 1543, 1546, 1549, 1550, 1553, 1556, 1559, 1560, 1563, 1566, 1569, 1570, 1573, 1576, 1579, 1580, 1583, 1584, 1587, 1588, 1591, 1592, 1595, 1596, 1599, 1600, 1603, 1604, 1607, 1610, 1613, 1616, 1619, 1620, 1623, 1626, 1629, 1630, 1633, 1636, 1639, 1640, 1643, 1646, 1649, 1650, 1653, 1656, 1659, 1660, 1663, 1666, 1669, 1670, 1673, 1676, 1679, 1680, 1683, 1684, 1687, 1688, 1691, 1692, 1695, 1696, 1699, 1700, 1703, 1704, 1707, 1710, 1713, 1716, 1719, 1720, 1723, 1726, 1729, 1730, 1733, 1736, 1739, 1740, 1743, 1746, 1749, 1750, 1753, 1756, 1759, 1760, 1763, 1766, 1769, 1770, 1773, 1776, 1779, 1780, 1783, 1784, 1787, 1788, 1791, 1792, 1795, 1796, 1799, 1800, 1803, 1804, 1807, 1810, 1813, 1816, 1819, 1820, 1823, 1826, 1829, 1830, 1833, 1836, 1839, 1840, 1843, 1846, 1849, 1850, 1853, 1856, 1859, 1860, 1863, 1866, 1869, 1870, 1873, 1876, 1879, 1880, 1883, 1884, 1887, 1888, 1891, 1892, 1895, 1896, 1899, 1900, 1903, 1904, 1907, 1910, 1913, 1916, 1919, 1920, 1923, 1926, 1929, 1930, 1933, 1936, 1939, 1940, 1943, 1946, 1949, 1950, 1953, 1956, 1959, 1960, 1963, 1966, 1969, 1970, 1973, 1976, 1979, 1980, 1983,
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78 NOTE: M8067-KA IS A PRIMARY VARIATION OF 128K X 18 BIT SYSTEM (NOT A MODULE TYPE).
79 NOTE: M8067-KC IS A MODULE TYPE USING FUJITSU 64K MOS DEVICES.
80 NOTE: M8067-KF IS A MODULE TYPE USING HITACHI 64K MOS DEVICES.
81 NOTE: M8067-KH IS A MODULE TYPE USING NEC 64K MOS DEVICES.

D	I	G	I	T	A	L	TITLE	Q-BUS MOS MEMORY	SECTION A OF A	SIZE CODE	DOCUMENT NUMBER	REV
										K PL	W8067-KA-DBP	A