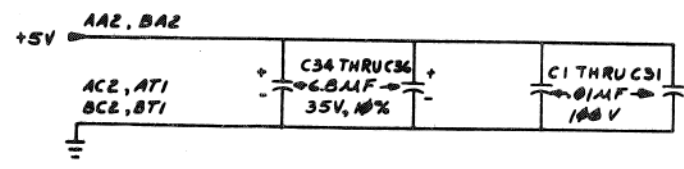
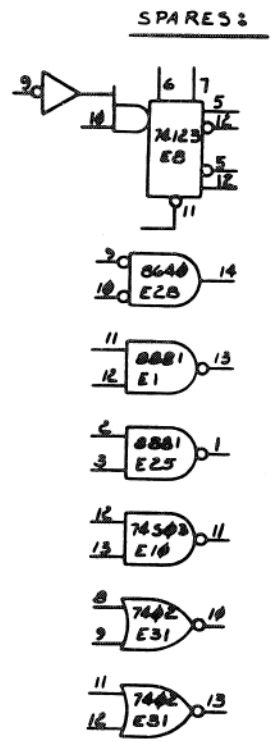
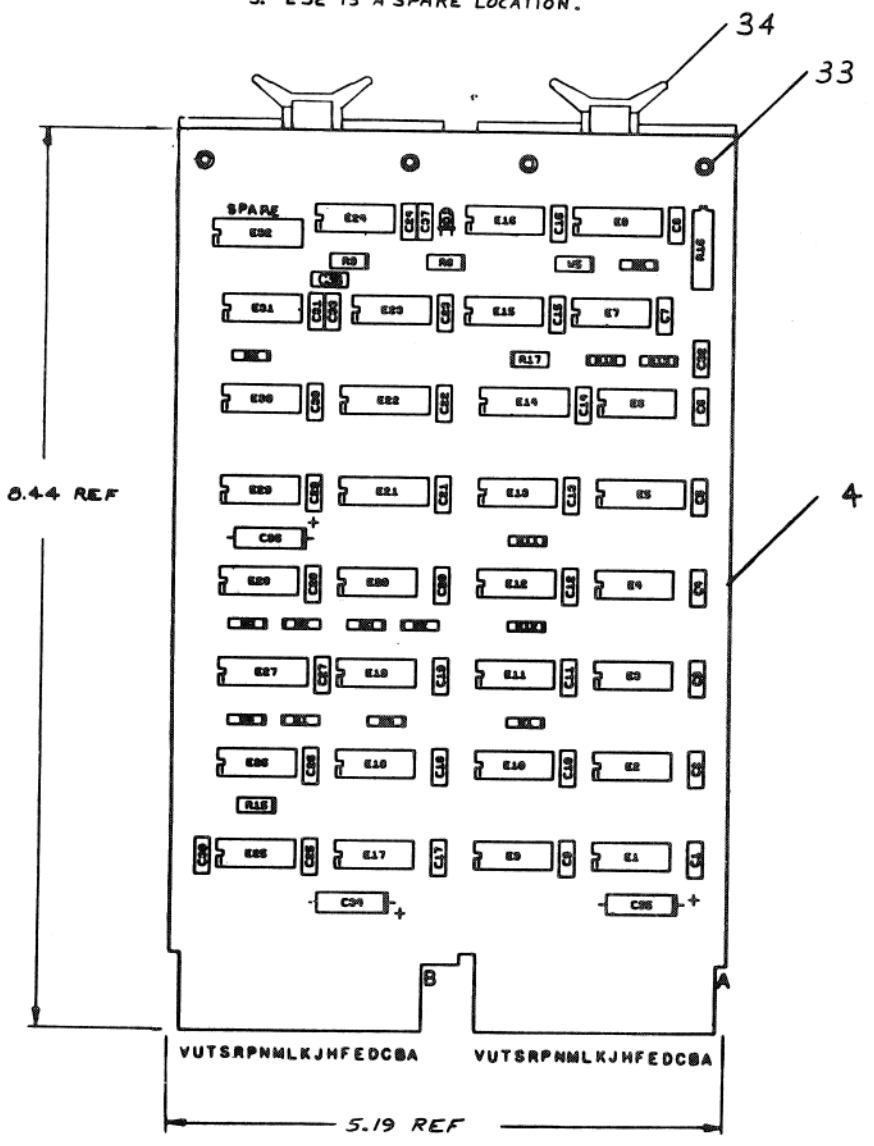


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- NOTES:**
- ALL RESISTORS 1/4 W, 5% UNLESS OTHERWISE NOTED. ALL CAPACITORS ARE 100V, 20% UNLESS OTHERWISE NOTED.
  - JUMPER CONTROL OPERATIONS AS FOLLOWS:  
W1 THRU W4 SELECT CSR ADDRESS, W5 CAPACITOR FOR S SYN DLY, NOT USED.
  - E32 IS A SPARE LOCATION.



REF	CIRCUIT SCHEMATIC	D-CS-M7850-0-1	REF
REF	X-Y COORDINATE HOLE LOCATION	K-CS-M7850-0-4	1
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M7850-0-5	2
REF	MODULE ECO HISTORY	B-MH-M7850-0-6	3
1	ETCHED CIRCUIT BOARD	5010681-00	4
1	C39 CAP 470 PF, 100V, 5% (DM)	1000024-00	5
2	C33, C37 CAP 330 PF, 100V, 5% (DM)	1000023-00	6
3B	C1 THRU C32 CAP 0.1µF, 100V, 20% DISC	1001610-01	7
3	C34, C35, C36 CAP 6.8µF, 35V, 10% STANT	1005306-00	8
1	D1 DIODE, LED.	1110324-00	9
5	R1 THRU R5 RES 4.7K 1/4W 5%	1300447-00	10
3	R8, R9, R15 RES 100 1/4W 5%	1300229-00	11
5	R6, R10, R11, R12, R17 RES 470 1/4W 5%	1300316-00	12
1	R13 RES 1K 1/4W 5%	1300365-00	13
1	R16 RES 10K 3/4W 20% (2% PR. 10)	1303143-10	14
1	E24 I.C. 7400	1905575-00	15
1	E30 I.C. 7430	1905578-00	16
1	E31 I.C. 7402	1909004-00	17
1	E19 I.C. 314A	1909704-00	18
1	E23 I.C. 7408	1910155-00	19
4	E1, E9, E17, E25 I.C. 8881	1909705-00	20
1	E16 I.C. 74H04	1909931-00	21
1	E27 I.C. 7485	1910224-00	22
1	E8 I.C. 74123	1910436-00	23
1	E10 I.C. 74503	1910533-00	24
1	E15 I.C. 74574	1910544-00	25
1	E21 I.C. 74174	1910652-00	26
2	E5, E22 I.C. 74157	1910655-00	27
9	E2, E3, E11, E12, E18, E20, E26, E28, E29 I.C. 8640	1911469-00	28
2	E4, E13 I.C. 745280	1911573-00	29
1	E14 I.C. 8266	1909934-00	30
2	E6, E7 I.C. 7474	1905547-00	31
4	W1 THRU W4 INSULATED JUMPER	9009185-00	32
4	EYELET	9006732-00	33
2	HANDLE, FLIP-CHIP (MAGENTA)	9008337-6	34

IC TYPE	QTY	LOC
8640	1	8
8266	8	16
74157	8	16
74174	8	16
74123	8	16
7485	8	16
314A	1	8
IC TYPE	QTY	+5V

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPT WHERE STATED ABOVE

IC PIN LOCATIONS

**SEMICONDUCTOR CONVERSION CHART**

DEC NO.	EIA NO.	DEC NO.	EIA NO.

ETCH BOARD REV. B

DATE: 2-3-75  
 DRN: M. LUFKIN  
 CHG: [Signature]  
 ENG: [Signature]  
 PRD: [Signature]  
 PRO: [Signature]

**digital**

TITLE: PARITY MODULE

SCALE: 1 of 3

SIZE CODE: DCS M7850-0-1

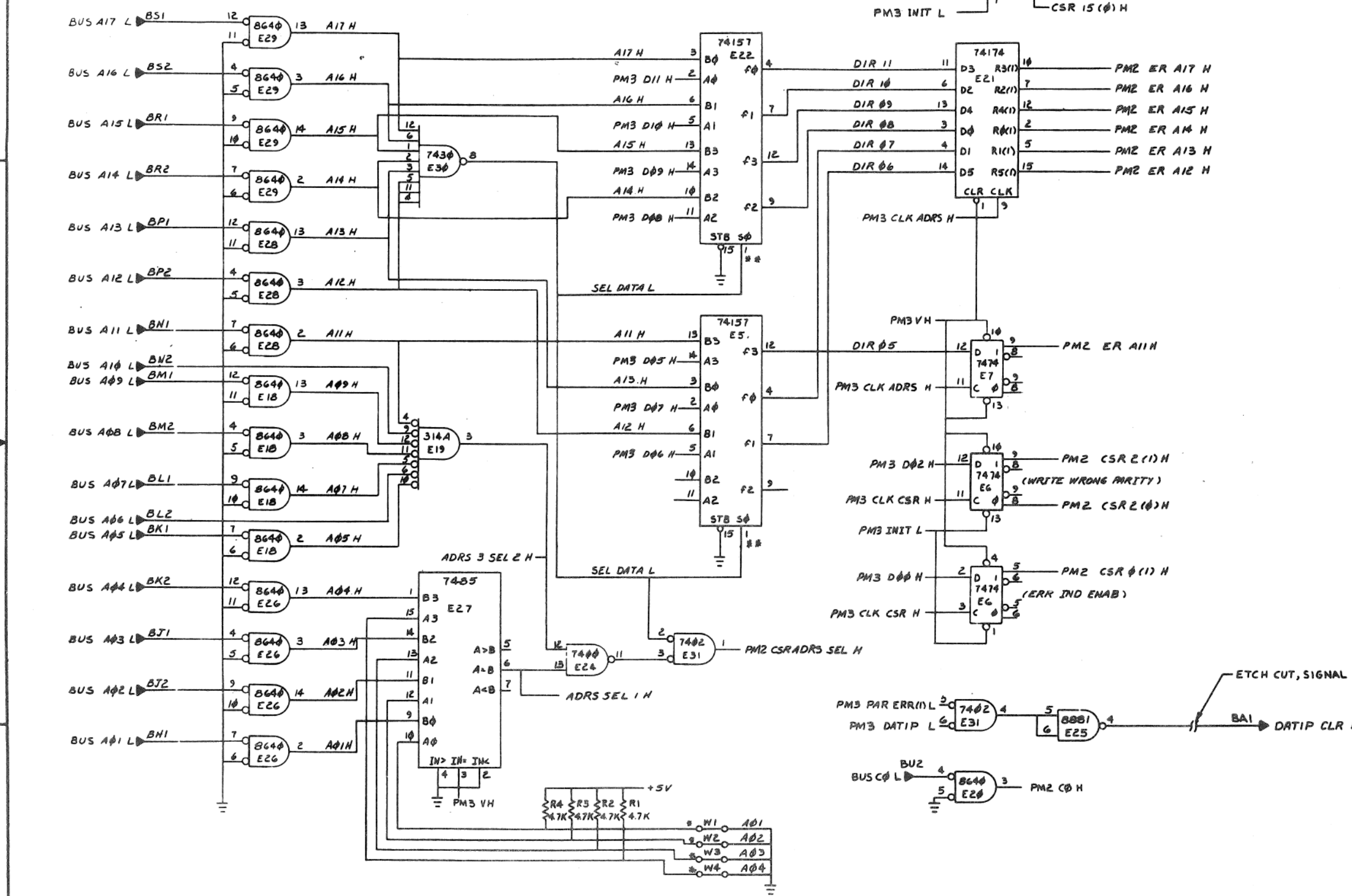
REV. B

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**NOTES:**  
 \* THE CSR REGISTER ADDRESS IS LOCATED BETWEEN 772100 AND 772136. IT IS SELECTED WITH JUMPERS W1 THRU W4. REMOVING A JUMPER SELECTS A "ONE" FOR THAT BIT POSITION. (\*\*)

MACHINE ADDRESS (WORDS) 8	W4 A4	W3 A3	W2 A2	W1 A1
772100	IN	IN	IN	IN
772102	IN	IN	IN	OUT
772104	IN	IN	OUT	IN
772106	IN	IN	OUT	OUT
772108	IN	OUT	IN	IN
772110	IN	OUT	IN	OUT
772112	IN	OUT	IN	OUT
772114	IN	OUT	OUT	IN
772116	IN	OUT	OUT	OUT
772120	OUT	IN	IN	IN
772122	OUT	IN	IN	OUT
772124	OUT	IN	OUT	IN
772126	OUT	IN	OUT	OUT
772130	OUT	OUT	IN	IN
772132	OUT	OUT	IN	OUT
772134	OUT	OUT	OUT	IN
772136	OUT	OUT	OUT	OUT

\*\* THE 'A' INPUTS ARE SELECTED WHEN THE SEL INPUT GOES LOW. (\*\*)

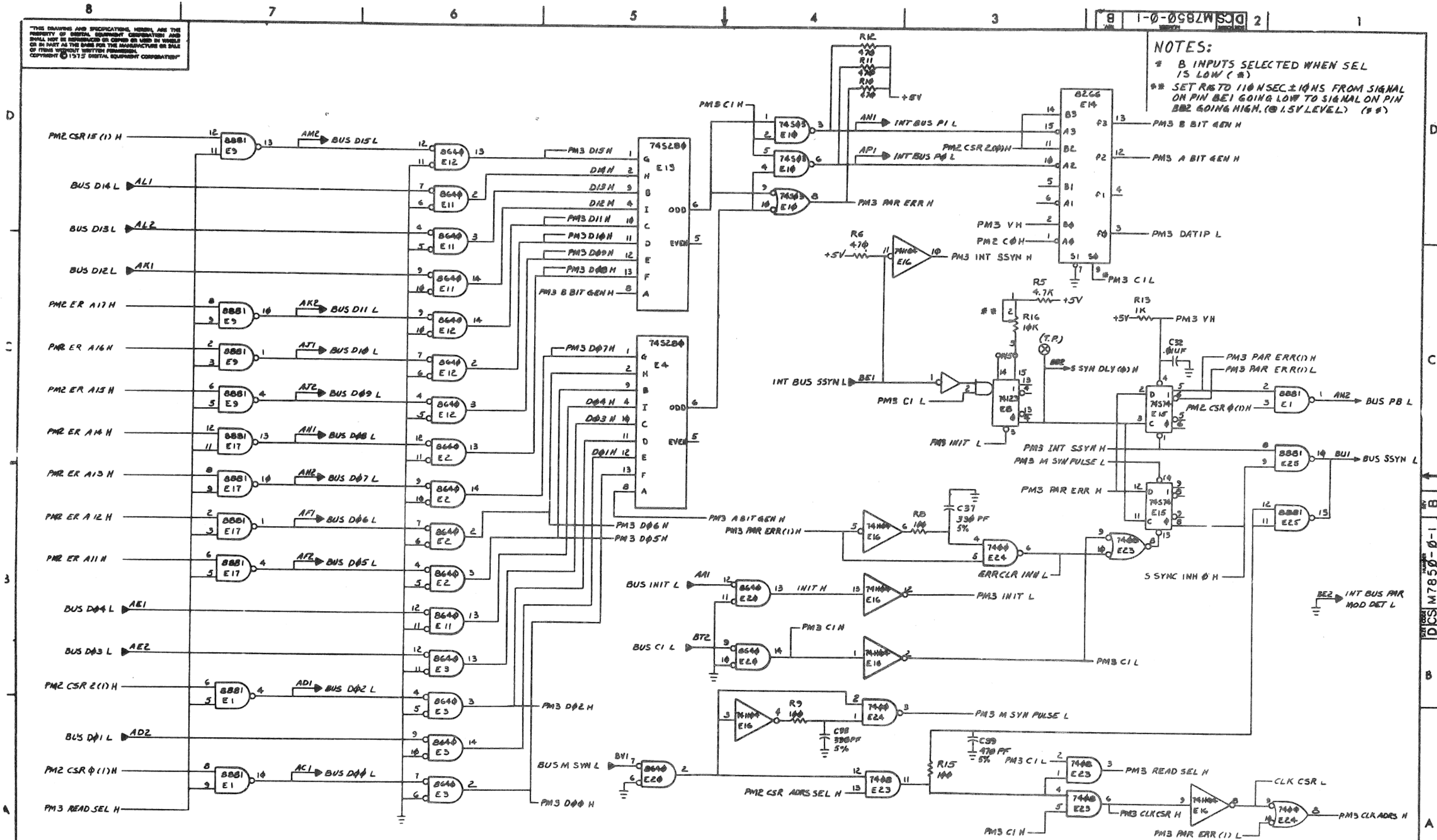


ETCH CUT, SIGNAL NOT USED  
 BAI → DATIP CLR PAUSE L

REV	CHG	NO	REV

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**NOTES:**  
 \* B INPUTS SELECTED WHEN SEL IS LOW (\*)  
 \*\* SET R45 TO 110 NSEC ± 10% FROM SIGNAL ON PIN BE1 GOING LOW TO SIGNAL ON PIN BE2 GOING HIGH. (@ 1.5V LEVEL) (\*\*)



REVISIONS		
CHK	CHANGE NO	REV.

TITLE: **PARITY MODULE (PM3)**  
 SIZE: 000  
 NUMBER: **DCS M7850-0-1**  
 SCALE: 1:1  
 SHEET: 3 OF 3  
 DIST.:





LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1	D-CS-G657-0-1		CIRCUIT SCHEMATIC		REF
2	2	B-MH-G657-0-6		MODULE ECO HISTORY		REF
3	3	D-UA-G657-0-0		UNIT ASSEMBLY		REF
4	4		5012147-00	G657	1	
5	5		1005820-00	22.0 MMF 100V 5%200PPM DM158	(10-00) 1	C26
6	6		1000011-00	47.0 MMF 100V 5%200PPM DM158	(10-00) 1	C8
7	7		1000015-00	82.0 MMF 100V 5%200PPM DM158	(10-00) 3	C1-C3
8	8		1000023-00	330.0 MMF 100V 5%200PPM DM158	(10-00) 10	C30,C34,C38,C42,C46,C50,C54, CONT C58,C62,C66,C70,C74,C82,C86, CONT C90,C94,C98,C78
9	9		1011683-00	.022 MFD 50V 10% 2C067 CER.	4	C5,C12,C17,C22
10	10		1010274-00	.22 MFD 50V X% 7C023 CER.	28	C16,C28,C136,C102-C124,C137, CONT C193
11	11		1010279-00	.47 MFD 25V 20% 2C023 CER.	22	C6,C13,C18,C23,C31,C35,C39, CONT C43,C47,C51,C55,C59,C63,C67, CONT C71,C75,C79,C83,C87,C91,C95, CONT C99
12	12		1012004-01	8 MFD 25V G% 30D AL EL	(10-12) 4	C11,C19,C20,C133
13	13		1012219-00	47.0 MFD 30V G% 600D AL EL	3	C195-C197
14	14		1000076-00	39 MFD 10V 10% 150D S.TA	(10-00) 1	C14
15	15		1105648-00	1N 4744 VZ= 15.0 10% 1W Y	4	D117,D119,D121,D123
16	16		1105275-00	D 672 TR= 15NS PIV= 60V SP	112	D1-D53,D55-D57,D59-D114
17	17		1110994-00	1N 751A VZ= 5.1 5% .40W P	2	D124,D125
18	18		1102421-00	1N 753A VZ= 6.2 5% .40W P	1	D115
19	19		1100125-00	1N 758A VZ= 10.0 5% .40W PPER S.A.V.EC	1	D116
20	20		1212104-00	CONN .100 7POS RT ANGLE	1	J89
21	21		1211720-00	SOCKET 1POS STRIP FORM S	78	J1-J4,J12-J85
22	22		1205747-00	FUSE, SUR-MINI, 5.000A, 125V, AXIAL LEAD	1	F1
23	23		1211164-01	SW,DIP 1P 1A SPOS	1	S1
24	24		1210929-03	FUSE, SUR-MINI .750A, 125V, AXIAL LEAD	19	F2-F20

REVISION HISTORY			VARIATIONS FOR THIS ASSY.		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHK	ECO NO	REV	FIRST USED ON: MM11-YP		TITLE			
E.R	00001	C	MADE BY: D CARUSO		DATE: 09-MAR-78		PARTS LIST	
			CHECKED: R MANION		DATE: 09-MAR-78		32K SPC ELECTRONICS	
			DSN.ENG.: W COATES		DATE: 09-MAR-78		SIZE CODE  DOCUMENT NUMBER   REV	
			PROD.: R HILL		DATE: 09-MAR-78		K   PL   G657-0-DBP   C	
			RESP.ENG.: W COATES		DATE: 09-MAR-78		ASSY.NO.: B-PL-G657-0-0   EDIT#   7	
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LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
25	25		1305114-00	3.48 K 1/4W 1% RN55D-F 100PPM	(13-00) 1	R63
26	26		1302091-00	330 K 1/4W 5% CC	(13-00) 1	R154
27	27		1312466-06	75 1W 1% WW	(13-00) 1	R155
28	28		1312466-04	.5 1W 1% WW	(13-00) 1	R29
29	29		1301317-00	10 1/4W 5% CC	(13-00) 1	R37
30	30		1312466-00	10 1W 1% WW	(13-00) 4	R21,R32,R43,R51
31	31		1301425-00	300 1/4W 5% CC	(13-00) 10	R74,R78,R82,R86,R90,R94,R98, CONT R102,R106,R110,R114,R118,R122, CONT R126,R130,R134,R139,R144 59 R13,R30,R40,R48,R73,R75-R77, CONT R79-R81,R83-R85,R87-R89, CONT R91-R93,R95-R97,R99-R101, CONT R103-R105,R107-R109,R111-R113, CONT R115-R117,R119-R121,R123-R125, CONT R127-R129,R131-R133,R135,R136, CONT R138,R140,R141,R143,R145,R153, CONT R44
32	32		1301969-00	22 1/4W 5% CC	(13-00) 59	R1,R5,R20 R4,R8,R9,R11 R150 R41,R52 R19 R146,R148 R56,R151 R12,R10 R3,R7,R35,R38,R72,R137,R142, CONT R152 R53,R14 R57 R36 R54 R17,R26 R55,R59,R60,R64-R68 R69,R70 R50 R61 R25,R62 R71 R23 R27,R28 R22 R15 R2,R6 Q8 Q9 Q10 Q4-Q7
33	33		1302602-00	56 1/4W 5% CC	(13-00) 3	R1,R5,R20
34	34		1300229-00	100 1/4W 5% CC	(13-00) 4	R4,R8,R9,R11
35	35		1304856-00	4.64 K 1/4W 1% RN55D-F 100PPM	(13-00) 1	R150
36	36		1300250-00	150 1/4W 5% CC	(13-00) 2	R41,R52
37	37		1305124-00	207 1/4W 1% RN55D-F 100PPM	(13-00) 1	R19
38	38		1300274-00	220 1/2W 5% CC	(13-00) 2	R146,R148
39	39		1312123-00	220 3W 1% WW	(13-00) 2	R56,R151
40	40		1301972-00	270 1/4W 5% CC	(13-00) 2	R12,R10
41	41		1303067-00	422 1/4W 1% RN55D-F 100PPM	(13-00) 1	R10
42	42		1300365-00	1 K 1/4W 5% CC	(13-00) 0	R3,R7,R35,R38,R72,R137,R142, CONT R152
43	43		1303045-00	3.16 K 1/4W 1% RN55D-F 100PPM	(13-00) 2	R53,R14
44	44		1304855-00	9.09 K 1/4W 1% RN55D-F 100PPM	(13-00) 1	R57
45	45		1300447-00	4.7 K 1/4W 5% CC	(13-00) 1	R36
46	46		1305324-00	4.99 K 1/4W 1% RN55D-F 100PPM	(13-00) 1	R54
47	47		1303312-00	10.0 K 1/4W 1% RN55D-F 100PPM	(13-00) 2	R17,R26
48	48		1300479-00	10 K 1/4W 5% CC	(13-00) 0	R55,R59,R60,R64-R68
49	49		1302941-00	14.7 K 1/4W 1% RN55D-F 100PPM	(13-00) 2	R69,R70
50	50		1309419-00	19.6 K 1/4W 1% RN55D-F 100PPM	(13-00) 1	R50
51	51		1303156-00	34.8 K 1/4W 1% RN55D-F 100PPM	(13-00) 1	R61
52	52		1305252-00	68.1 K 1/4W 1% RN55D-F 100PPM	(13-00) 2	R25,R62
53	53		1303219-00	82 K 1/4W 5% CC	(13-00) 1	R71
54	54		1305255-00	121 K 1/4W 1% RN55D-F 100PPM	(13-00) 1	R23
55	55		1309595-00	1 M 1/4W 5% CC	(13-00) 2	R27,R28
56	56		1304843-00	243 K 1/4W 1% RN55D-F 100PPM	(13-00) 1	R22
57	57		1309785-00	300 2% THERMISTOR	(13-00) 1	R15
58	58		1300202-00	47 1/4W 5% CC	(13-00) 2	R2,R6
59	59		1503409-01	DEC6534B PNP 310MW SI 40 90 P	1	Q8
60	60		1509605-00	2N 4920 PNP 30WC SI 80 20 S	1	Q9
61	61		1505321-00	DEC4258 PNP 200MW SI 12 30 M	1	Q10
62	62		1510959-00	2N 3725 NPN 3.5WC SI 50 60 P	4	Q4-Q7

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE PARTS LIST 32K SPC ELECTRONICS	SIZE CODE K PL	DOCUMENT NUMBER G657-0-DBP	REV IC
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LINE ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
63	63	1513265-00	3725 QUAD CORE DRIVER	9	E32,E50,E71,E76,E93,E97,E54,
				CONT	E114,E118
64	64	1503100-00	DEC3009B NPI: 200MW 51 20 25 P	3	Q1-Q3
65	65	1610962-00	XFMR,SATURATING(Y,7)	2	E39,E103
66	66	1609996-00	PULSE XFMR BH001-01R7 DEC5 22	10	E31,E49,E53,E70,E72,E75,E92,
				CONT	E96,E113,E117
67	67	1611243-00	DELAY=25-250NS,10TAPS RCL0L=103 E PE09029	3	E5,E11,E18
68	68	1610662-00	100.0 UH 10% 165MA 8DDJ 09	3	L7-L9
69	69	1610963-00	400 UH 900MA, .30HMS	6	L1-L6
70	70	1613020-00	XFMR,SATURATING(INHIBIT)	9	E30,E43,E61,E66,E81,E86,E102,
				CONT	E108,E126
71	71	1910878-00	7427 NOR GATE-TRIPLE 3IN	1	E25
72	72	1905578-00	7430 NAND GATE-SINGLE 8INPUT	2	E21,E22
73	73	1910541-00	74840 NAND GATE-DUAL 4IN,BUFFER 16	1	E112
74	74	1910046-00	7442 DECODER-1 OF 10,PCD SELECTED	7	E6,E44,E55,E87,E90,E109,E127
75	75	1909050-00	7475 LATCH 4BIT	5	E2,E8,E50,E63,E123
76	76	1910230-00	74121 ONE SHOT	1	E70
77	77	1912068-00	74128 DRIVER,LINE,QUAD,50/75 OHM	13	F3,E4,E9,E37,E42,E60,E65,E80,
				CONT	E82,E85,E101,E107,E125
78	78	1909932-01	7483A ADDER-4BIT W/LOOK AND CARRY	1	E15
79	79	1909050-00	74H21 AND GATE-DUAL 4INPUT	2	E04,E01
80	80	1909060-00	DEC 74H50 A=0-I XPNDBLF GATE-DUAL 2X2	1	E24
81	81	1910532-00	74800 NAND GATE-QUAD 2IN8	5	E17,E23,E28,E100,E122
82	82	1912309-00	74808 AND GATE-QUAD 2IN,POS	14	E16
83	83	1910534-00	74804 INVERTER GATE-HEX 1IN	3	E10,E14,E29
84	84	1910544-00	74874 FF-D DUAL,EDGE TRIGGER	10	E27,E30,E41,E52,E67,E74,E89,
				CONT	E95,E106,E116
85	85	1911469-00	DEC 8640 RECEIVER,BUS,QUAD,UNIBUS,0-BU	5	E36,E46,E48,E69,E111
86	86	1911579-00	8641 TRANSCEIVER,BUS,QUAD,UNIBUS	7	E1,E7,E13,E20,E34,E57,E62
87	87	1910298-00	741 OP AMP GEN PURP, COMPENSAIED D	1	E119
88	88	1910960-00	DEC 75325 DRIVER,CORE MEMORY,DUAL	20	E12,E19,E26,E33,E35,E40,E45,
				CONT	E47,E51,E56,E59,E64,E68,E73,
				CONT	E77,E79,E83,E88,E90,E94,E99,
				CONT	E104,E105,E110,E115,E120,E121,
				CONT	E124
89	89	7010910-05	DIODE PKG COMMON CATHODTE	36	D126,D127-D161
90	90	7415338-00	LEFT HANDLE ASSY	1	
91	91	7415337-00	RIGHT HANDLE ASSY	1	
92	92	1214237-00	RAP,STIFFENER W/10 INSERTS 8	1	
93	93	1213567-00	HANDLE,MODULE(SEGMENT)	2	
94	94	9006557-00	NUT,KEP , 4-40X 1/4 AF	C8	
95	95	9006010-01	SCREW,PAN ,PHIL, 4-40X 5/16 SS/PA6	1	
96	96	9000000-01	SCREW, NYLON, SLID PAN HD, 2-56 X .187	9	
97	97	9006735-00	FYELET, FUNNEL FLANGE, .059 OD X .187 LG	77	
98	98	9000024-01	EYELEFT, ROLLED FLANGE, .121 OD X .196 LG	10	
99	99	9009185-00	JUMPER, WIRE, INSULATED, BLACK BAND	17	W1-W17
100	100	9007201-00	TRANSIPADS 810253	4	
101	101	9107771-00	TUBING,STRD WALL,.040ID UL8	72	

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE PARTS LIST 32K SPC ELECTRONICS	SIZE CODE  K   PL	DOCUMENT NUMBER G657-0-DBP	REV IC
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LINE ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
102	102	1305120-00	5.62 K 1/4W 1% RN55D-F 100PPM	(13-00) 1	R33
103	103	1300249-00	150 1/2W 5%	(13-00) 2	R147,R149
104	104	1300247-00	120 1/4W 5%	(13-00) 1	R39
105	105	1303170-00	620 1/4W 5%	(13-00) 1	R46
106	106	1110036-00	1N 759A VZ= 12.0 5% .40W P	1	D120
107	107	1001610-00	.01 MFD 50V 25U 309CER/8000PF MIN	110	C4,C7,C9,C10,C15,C21,C24,C25, CONT C27,C29,C32,C33,C36,C37,C40, CONT C41,C44,C45,C48,C49,C56,C57, CONT C60,C61,C64,C65,C68,C69,C72, CONT C73,C76,C77,C80,C81,C84,C85, CONT C88,C89,C92,C93,C96,C97,C100, CONT C52,C53,C126,C128,C130=C132, CONT C134,C135,C138=C166,C168=C192, CONT C194,C210,C127,C129
108	108	9105740-55	WIRE(WRAP)30AWG UL1423	(91-00) A/R	

109 NOTE: 10-01610-01 CAN BE USED IN PLACE OF 10-01610-00

TITLE	PARTS LIST	SIZE	CODE	DOCUMENT NUMBER	REV
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	32K SPC ELECTRONICS	K	PL	G657-0-DBP	IC