

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

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SEQUENCE

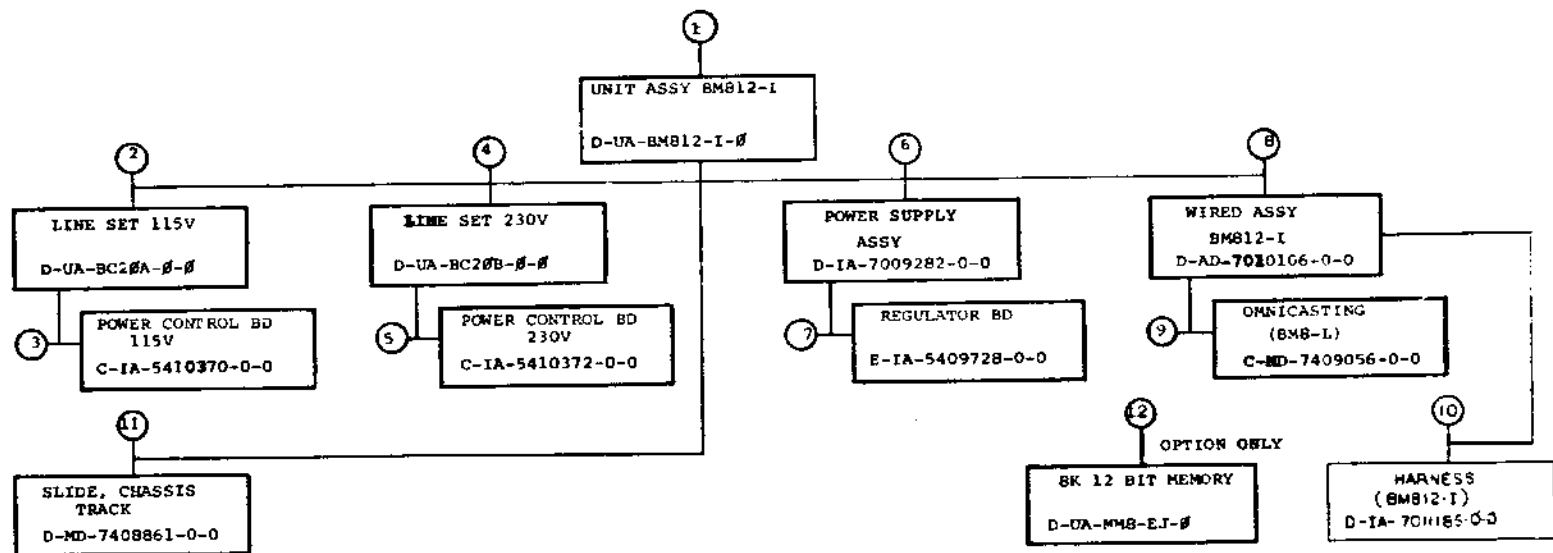
SEQUENCE

BM812-I ASSY	B-DD-BM812-I
MODULE UTILIZATION	D-MU-BM812-I-2
CONTROL TIMING BM812-I	D-BS-BM812-I-4
MD BUFFER BM812-I	D-BS-BM812-I-3
MEMORY BUS CABLES & BUFFERS	D-CS-BM812-I-1
EXPANDED OMNI BUS RE MEMORY	D-IC-BM812-I-5
BM812-I ENGINEERING SPEC	A-SP-BM812-I-7
BM812-I ACCEP. & INSTAL. PROC.	A-SP-BM812-I-9
WIRED ASSY (BM812-I)	D-AD-7010106-0-0
WIRED ASSY (BM812-I)	A-PL-7010106-0-0
WIRE LIST BM812-I	K-WL-BM812-I-8
UNIT ASSY BM812-I	D-UA-BM812-I-0
LINE SET, 115V	D-UA-BC20A-0-0
POWER CONTROL BOARD (115V)	C-IA-5410370-0-0
LINE SET 230V	D-UA-BC20B-0-0
POWER CONTROL BOARD (230V)	C-IA-5410372-0-0
POWER SUPPLY ASSY	D-IA-7009282-0-0
HARNESS (EM812-I)	D-IA-701195-C-C

UNIT VARIATIONS		PRINT SET			
VAR	TITLE				
BM812-IA	UNIT ASSY BM812-I	X			
BM812-IB	UNIT ASSY BM812-I	X			

REVISIONS	CHG. NO	REV	DATE	USED ON OPTION/MODEL		CHK'D.	DATE	TITLE		NUMBER	REV
	DATE	CHG. NO	REV	DESCRIPTION	DESCRIPTION	DESCRIPTION	DATE	SIZE/CODE	DESCRIPTION		
	161251	A	6/74						UNIT ASSY		
	161251	B	6/75								

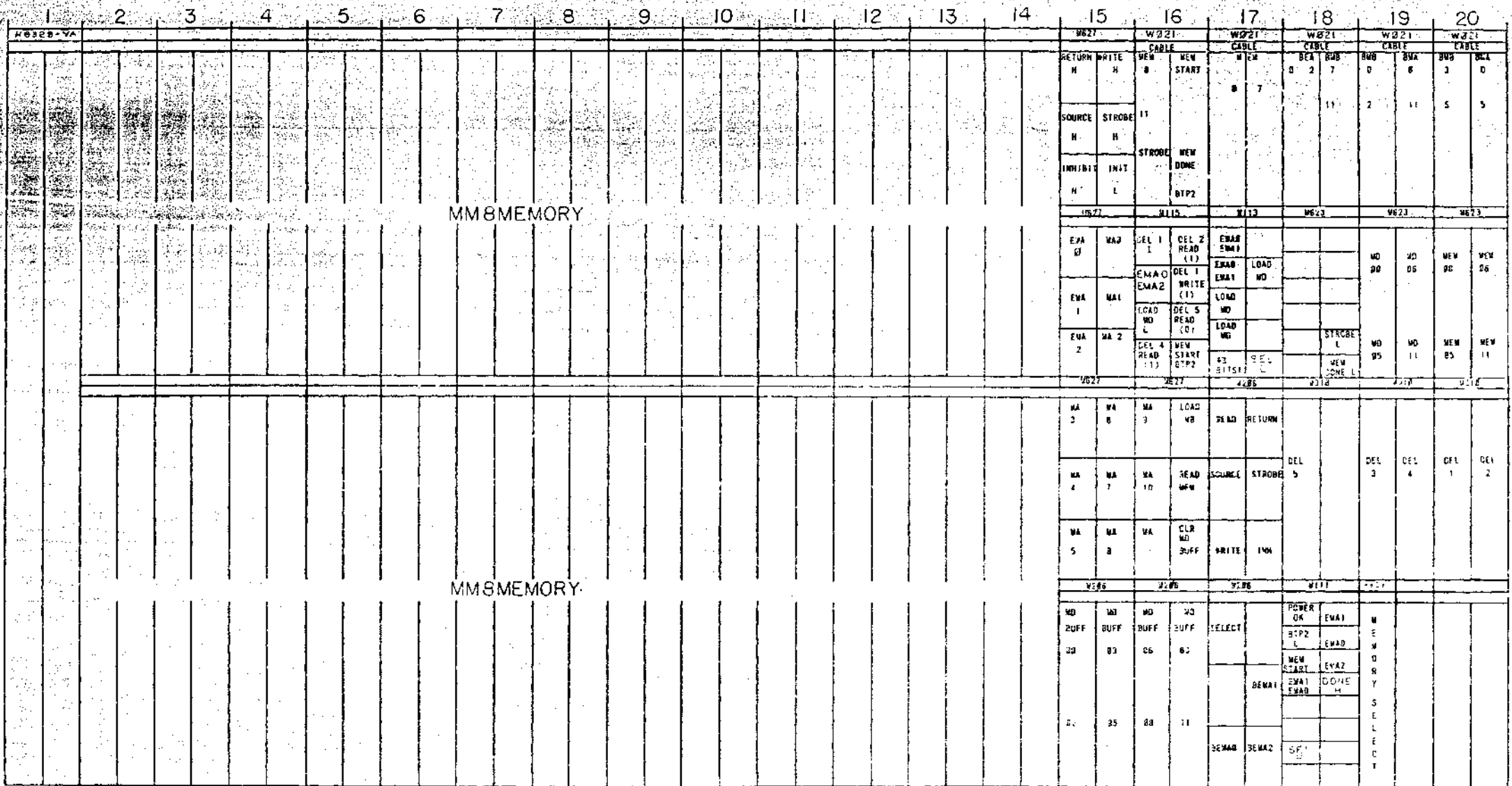
DRB 161251-001-001 (161251-001-001)



TITLE	SHEET	OF	SIZE	CODE	NUMBER	REV
BM812-I ASSY	2	4	B	DD	BM812-I	B

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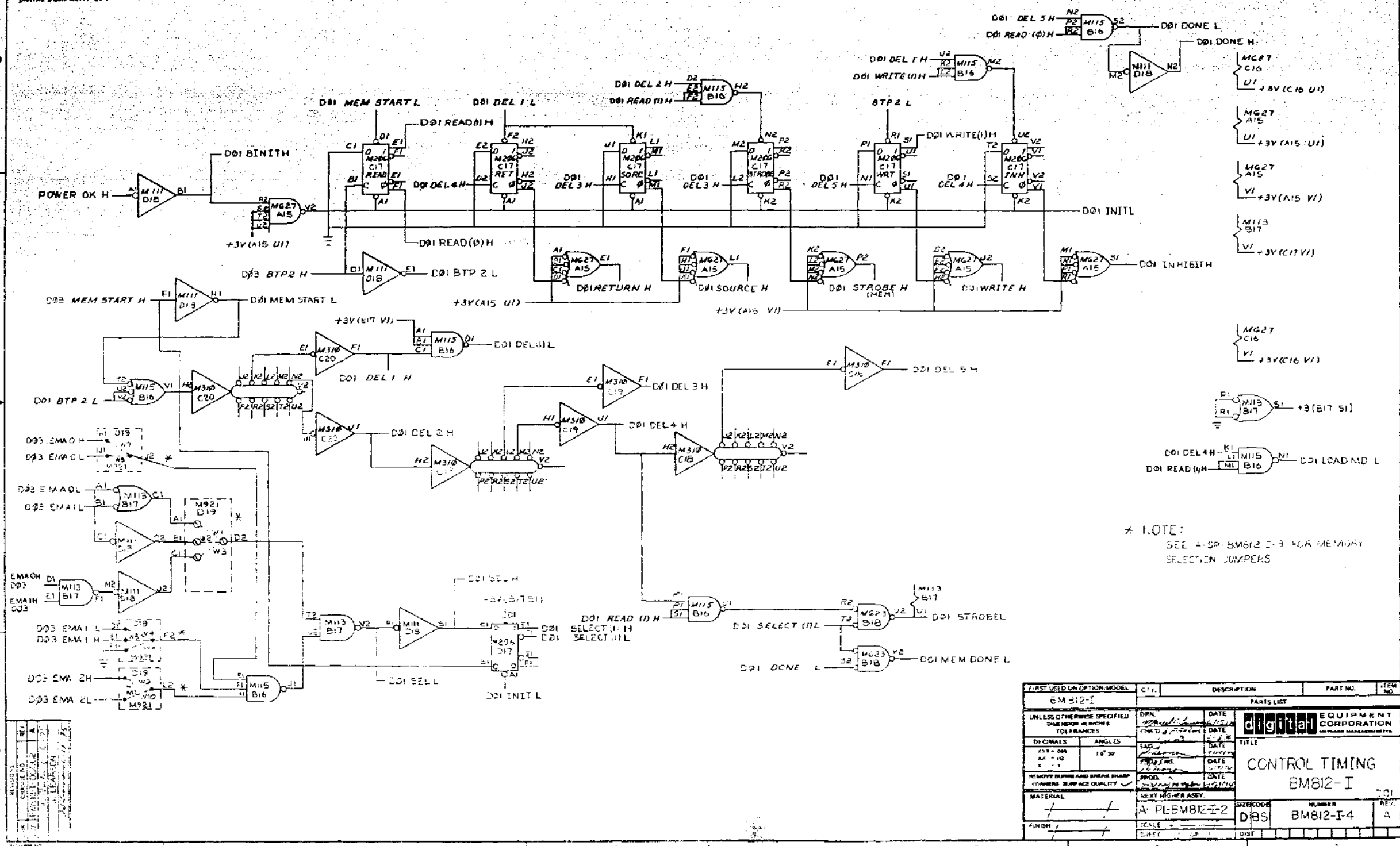
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REV. 98
REV. 99
REV. 100



FIRST USED ON ITEM MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
5M812-1					
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED		DRN. Silvia	DATE 4-28-74		
		CHKD. J. P. P.	DATE 4-28-74		
MILLIMETERS	INCHES	APPROX.	DATE 4-28-74	TITLE MODULE UTILIZATION	
XXX +0.0	XXX +0.05	0.01	DATE 4-28-74		
XX -0.5	XX +0.02	0.01	DATE 4-28-74	DRAWN BY: J. P. P.	
X +0.2	X +0.1	0.01	DATE 4-28-74		
THIRD ANGLE PROJECTION	RIGHT HANDS AND BREAK SHOWN UNLESS OTHERWISE SPECIFIED		CHECKED BY: J. P. P.		

REV.	DATE	BY	DESCRIPTION
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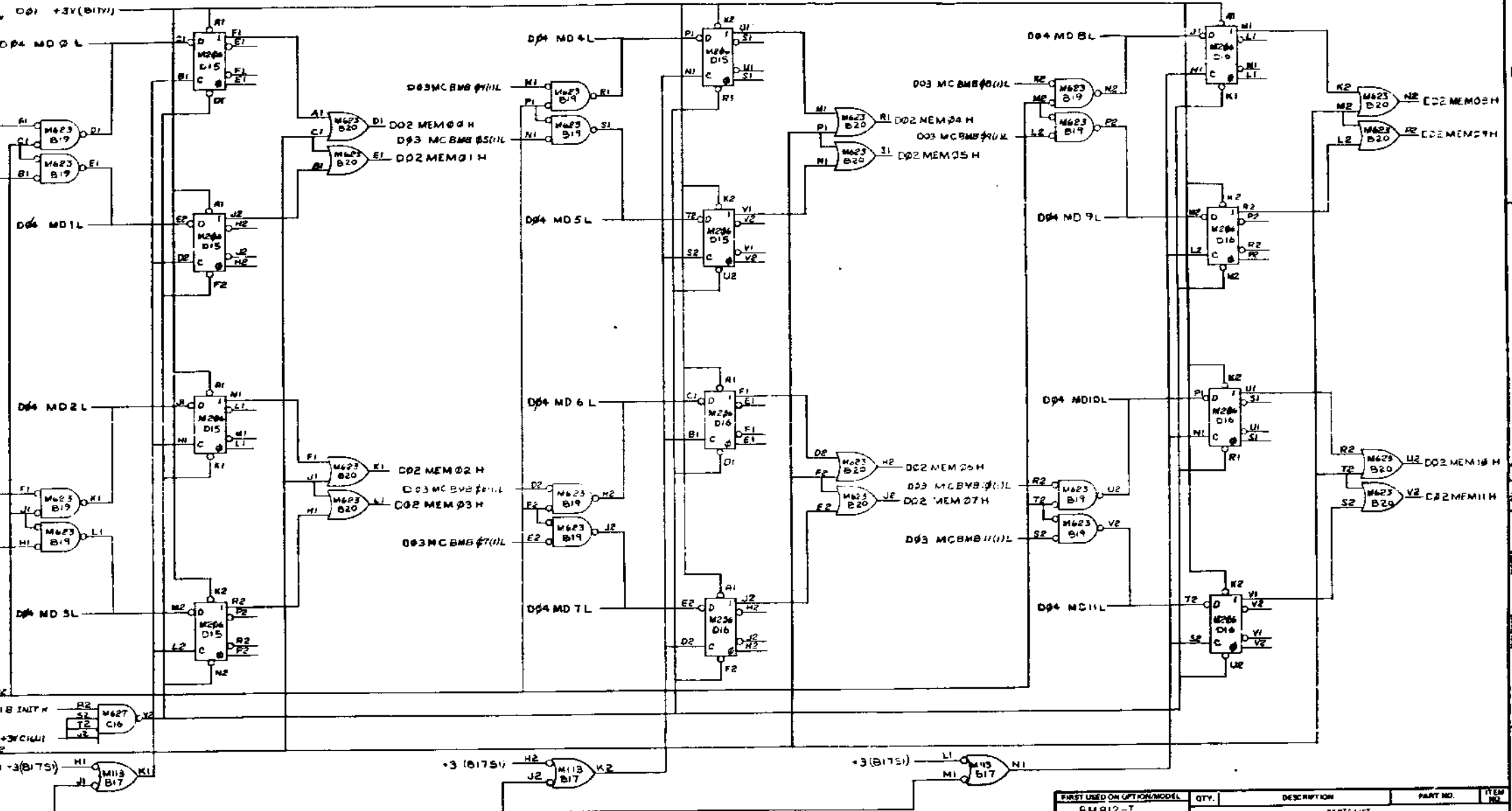


* NOTE:
SEE A-SP-BM812-I-3 FOR MEMORY SELECTION JUMPERS

REV.	DATE	BY	CHKD.
1	11-27-70	W. L. GARDNER	W. L. GARDNER
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FIRST USED ON OPTION/MODEL	CTL.	DESCRIPTION	PART NO.	ITEM NO.
BM812-I				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES	DRN. DATE	 EQUIPMENT CORPORATION DIGITAL MANAGEMENT SYSTEMS		
DIMINALS	ANGLES			
33° ± 0.01	10° 30'			
REMOVE BURRS AND BREAK SHARP CORNERS. BLANK AND QUALITY	PROG. NO. DATE			
MATERIAL	FINISH			
		TITLE		
		CONTROL TIMING		
		BM812-I		
		NEXT HIGHER ASSY.		
		A-PLB812-I-2		
		SCALE	NUMBER	REV.
		1:1	BM812-I-4	A

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REV
CHG
CHK

FIRST USED ON OPT FOR MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
BM912-I				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		DATE	PARTS LIST	
DECIMALS	ANGLES	DATE	TITLE	
XXX - .001	45° ±	DATE	MD BUFFER	
XX - .002		DATE	BM912-I	
X - .005		DATE	D02	
REMOVES BURRS AND BREAKS SHARP EDGES. SURFACE QUALITY		DATE	REV.	
MATERIAL		DATE	REV.	
NEXT HIGHER ASSEMBLY		DATE	REV.	
A-P-EV912-T-2		DATE	REV.	
SCALE		DATE	REV.	
SHEET		DATE	REV.	
SHEET		DATE	REV.	

REV 1-3
BM912-I-3

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DIGITAL EQUIPMENT CORPORATION

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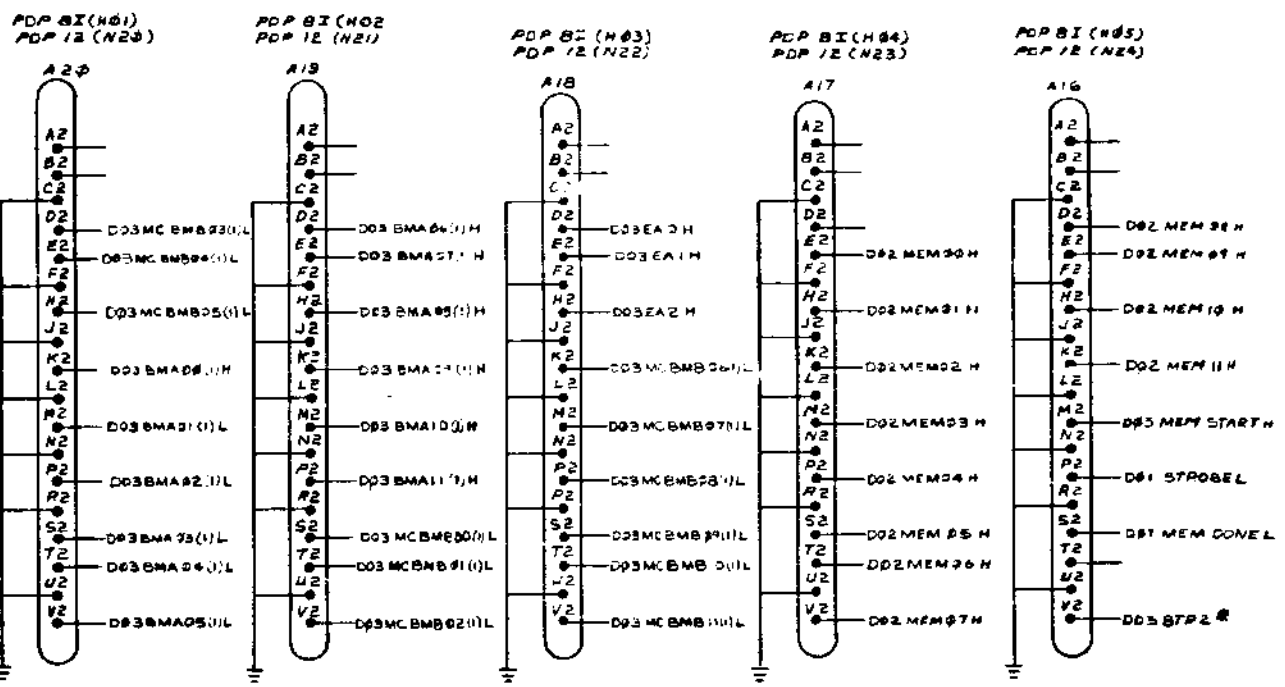
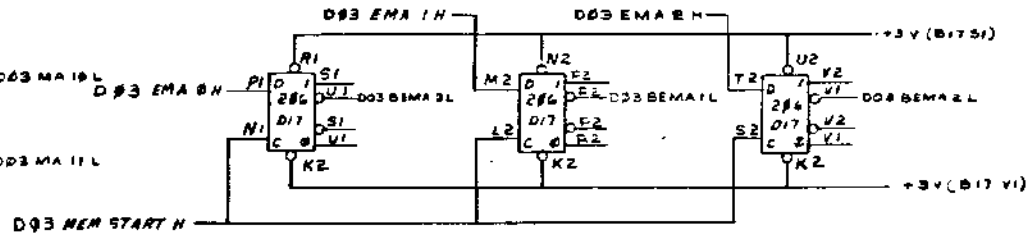
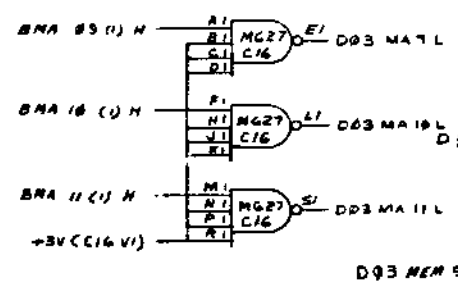
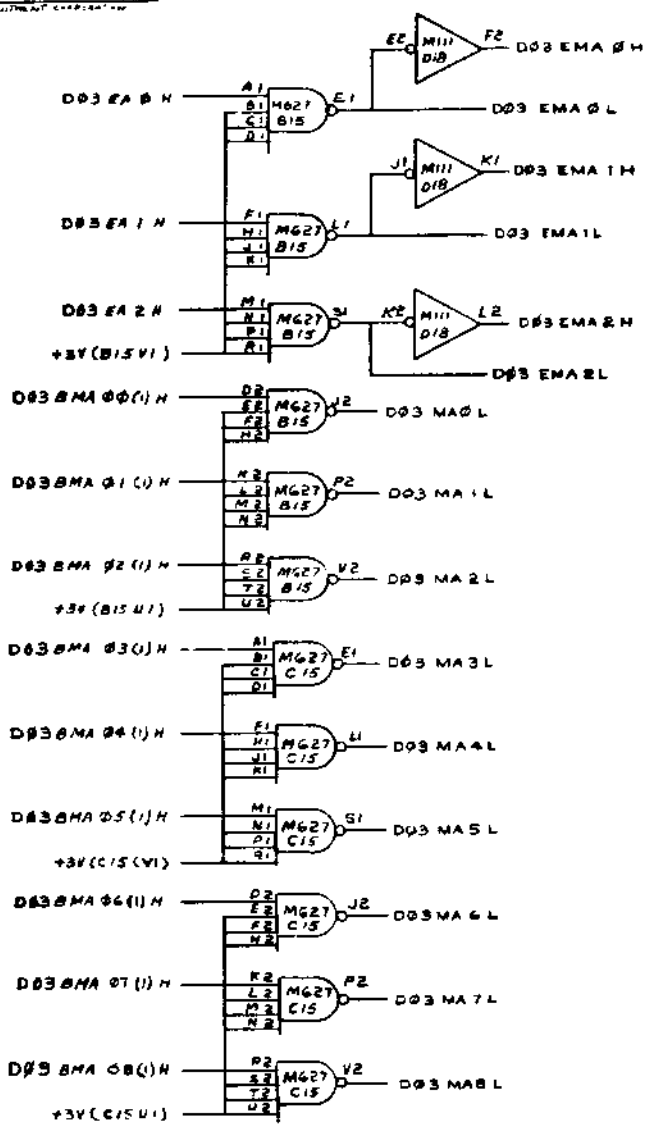
A

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NOTE:
* FOR PDP 12 THIS SIGNAL IS MEM TP 3 H

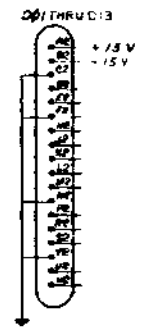
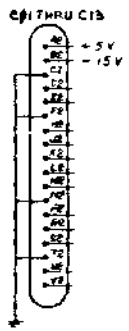
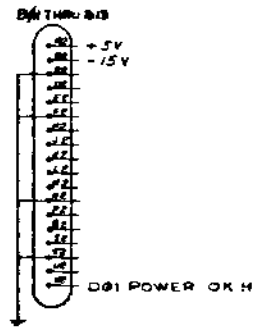
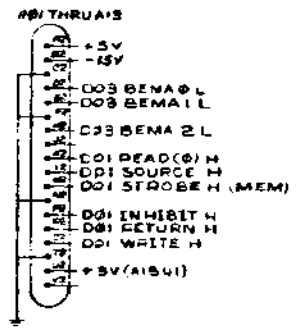
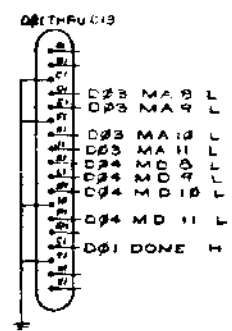
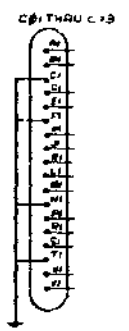
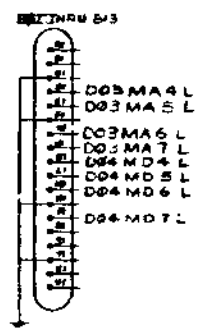
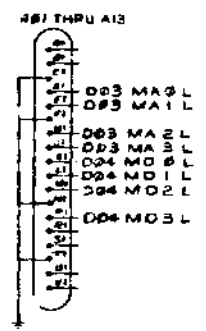
REV.	
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DATE	

FIRST USED ON OR OFF	QTY	DESCRIPTION	PART NO.	ITEM NO.
BM812-I				
UNLESS OTHERWISE SPECIFIED		DATE	PARTS LIST	
UNLESS OTHERWISE SPECIFIED		DATE	DIGITAL EQUIPMENT CORPORATION	
TOLERANCES		DATE	TITLE	
DIMENSIONS		DATE	MEMORY BUS	
MATERIAL		DATE	CABLES AND	
FINISH		DATE	BUFFERS	
SCALE		DATE	D03	
SHEET		DATE	REV.	

BM812-I-1

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REV	DESCRIPTION

FIRST USED ON OPTION/MODEL BMB12-I	QTY	DESCRIPTION	PART NO	ITEM NO
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
DECIMALS	ANGLES	GRN	DATE	
FRAC		CHK'D	DATE	
		ENG	DATE	
		PRD	DATE	
REMOVES BURRS AND BREAK SHARP CORNERS TO SURFACE QUALITY		FINISH	DATE	TITLE
MATERIAL		NEAT HIGHEN ASSY	DATE	EXPANDED OMN. BUS
FINISH		A-PLMB12I-2	DATE	SE MEMORY
SCALE		SIZE CODE	NUMBER	D04
SHEET		D11	BMB12-I-5	REV.

BMB12-I-5

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 7/25/74

TITLE BMB12-I ENGINEERING SPECIFICATION

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	ECO CHANGE	BMB12-I-00002	LEARSON	6-75	WJZ	6-75

••

ENG	APPD	SIZE	CODE	NUMBER	REV
<i>Jack Learson</i>	<i>Harry Meyer</i>	A	SP	BMB12-I-7	A

DEC FORM NO DEC 16-(1081)-1070-N070
DRA 107A

SHEET 1 OF 3

ENGINEERING SPECIFICATION

108108

CONTINUATION SHEET

TITLE

BMB12-I

GENERAL DESCRIPTION

The BMB12-I is a memory expansion box that is capable of expanding either a PDP8I or PDP12 from 8K to 32K. This is accomplished by plugging in MM8E type stacks, to a wired assembly. The BMB12-I is capable of handling a mixture of 8K (MM8EJ) or 4K (MM8EH) memories upto a total of three stacks. The Basic PDP8I or PDP12 must contain the extended memory control and one extra field (1K of memory). The BMB12-I is rack mounted on slides and interfaces, via 5 RC08 cables, to the computer memory bus.

PHYSICAL DESCRIPTION

The BMB12-I is housed in a standard PDP8M chassis, which contains a power supply (either 115V 60Hz, or 230V 50Hz), a wire assembly, and the logic necessary to control the MM8E memories. It is provided with chassis slides for rack mounting in the standard DEC 19-inch cabinetry.

BMB12-I SELECTION:

The MM8EJ can be decoded for even number fields only. i.e., Field 0, 2, 4 or 6. If the BMB12-I is to be added to a machine that already has a 4K stack, as the last on the memory bus, it must be shifted (re-decoded) so as to remain the last field on the bus. Below is a table of jumpers showing how this is achieved. When expanding with both 4K and 8K stacks, see A-SP-BMB12-I-9. For Memory Selection BMB12-I Jumpers:

BASIC MACHINE	MS21 JUMPERS	COMMENTS
8K	W1, W6	
12K	W1, W4, W7, W10	Existing field 2 re-decoded to field 4 if BMB12-I contains 8K or field 6 if contains 16K.
16K	W2, W6	
20K	W2, W5, W7, W10	existing field 4 re-decoded to field 6.
24K	W3, W6	

PROGRAMMING

The BMB12-I is program compatible with existing system programs.

DEC FORM NO DEC 16-(1081)-1020-N070
DRA 108

SHEET 2 OF 3

ENGINEERING SPECIFICATION

108108

CONTINUATION SHEET

TITLE

SPECIFICATIONS:

Power Requirements: BMB12-I Self Contained
95-130 VAC
47-63 Hz
6A Maximum

185-250 VAC
47-63 Hz
3A Maximum

Power Supply: +5V at 20A
+15V at 1A
-15V at 5A

Module Type: M Series

Capacity: MM8/EJ Maximum Number 3
MM8/EH Maximum Number 3

Temperature: 0°- 50°Centigrade

Cables: 7005820-3

NOTE: Six foot cables are supplied unless otherwise specified.
Maximum cable on memory bus 15 feet.

SIZE	CODE	NUMBER	REV
A	SP	BMB12-I-7	A

DEC FORM NO DEC 16-(1081)-1020-N070
DRA 108

SHEET 3 OF 3

ENGINEERING SPECIFICATION

DATE 8/1/74

TITLE BM812-1 ACCEPTANCE AND INSTALLATION PROCEDURE

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	ECO CHANGE	BM812-1-00001	LEARSON	12/74	<i>[Signature]</i>	12/19/74
B	ECO CHANGE	BM812-1-00002	LEARSON	6/75	<i>[Signature]</i>	6-75

TITLE

1.0 ACCEPTANCE

1.1 EQUIPMENT

- 1 BM812-1
- 1 set of BM812-1 Software
- 1 PDP-8I or PDP-12 with at least 8K.

1.2 TEST SOFTWARE

TIME	PROGRAM
20/MIN	Extended Memory Control Test PDP8I MD-08-DCMCA-B PDP12 MD-12-DAMCA-A
10 MIN/FIELD	MD-08-DIHA-PB Extended Memory Address
10 MIN/FIELD	MD-08-DDDMA-A Extended Memory Data and Checkerboard Test

1.3 VIBRATION OF BM812-1

All modules will be vibrated, excluding the MM8E, while the checkerboard diagnostic is being run.

2.0 BM812-1 SHIPPING LIST

- 1 BM812-1 Software Package
- 1 Extender Card
- 5 700SR20-J Cables
- 1 BM812-1 Print Set
- 1 set of MM8E H or J Prints if applicable
- 1 MM2 MODULE IF THE BM812-1 is to be an add-on to an existing machine with either 12K or 20K

ENG <i>[Signature]</i>	APPD <i>[Signature]</i>	SIZE A	CODE SP	NUMBER BM812-I-9	REV B
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DEC FORM NO DEC 16-10811-1022-N370
ORA 107A

SHEET 1 OF 6

DEC FORM NO DEC 16-10811-1022-N370
ORA 108

SHEET 2 OF 6

ENGINEERING SPECIFICATION

TITLE

- 3.0 BM812-1A 115VAC 47-63HZ
- BM812-1B 230VAC 47-63HZ

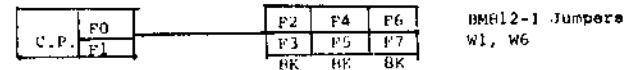
3.1 the BM812-1 must be plugged in to the switched A.C. line.

ENGINEERING SPECIFICATION

TITLE

4.0 BM812-1 CONFIGURATIONS FOR PDP-12 OR PDP-8I

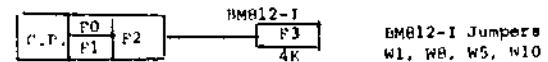
4.1.0 BASIC MACHINE BK



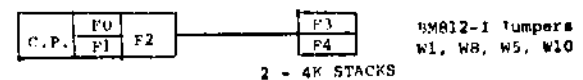
4.2.0 BASIC MACHINE 12K (See Section 5.0)

NOTE: When the BM812-1 is added to a machine that already has an external MM8I, the terminator card in the MM8I must be removed.

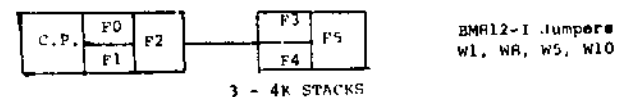
4.2.1 BM812-1 add on with 4K (MM8EII)



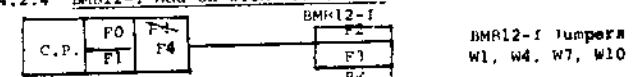
4.2.2 BM812-1 Add on with BK (2-MM8EII)



4.2.3 BM812-1 Add on with 12K (3-MM8EII) MAX Configuration



4.2.4 BM812-1 Add on with BK (MM8EII)



SIZE A	CODE SP	NUMBER BM812-I-9	REV B
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DEC FORM NO DEC 16-10811-1022-N370
ORA 108

SHEET 3 OF 6

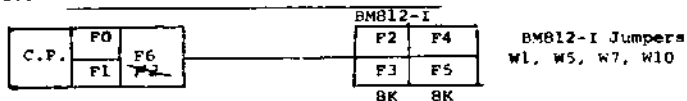
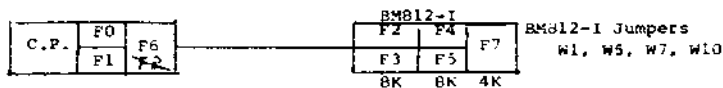
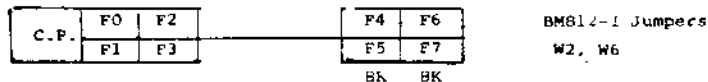
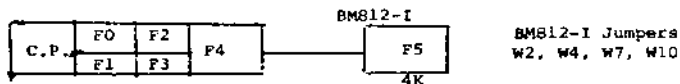
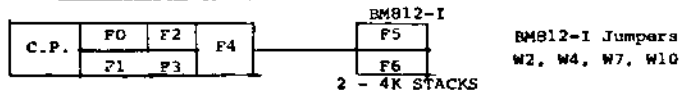
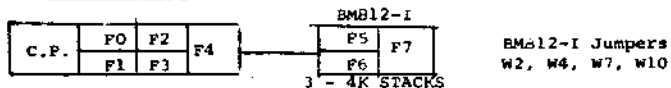
SIZE A	CODE SP	NUMBER BM812-I-9	REV B
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DEC FORM NO DEC 16-10811-1022-N370
ORA 108

SHEET 4 OF 6

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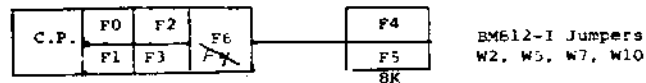
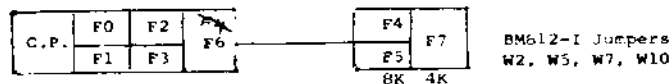
TITLE

4.2.5 BM812-I Add on with 16K (2-MM8E7)4.2.6 MAX Configuration 32K (2-MM8EJ & MM8EH)4.3.0 BASIC MACHINE 16K4.4.0 BASIC MACHINE 20K (See Section 5.0)4.4.1 BM812-I Add-on with 4K (MM8EH)4.4.2 BM812-I Add on with 8K (2-MM8EH)4.4.3 BM812-I Addon with 12K (3 - MM8EH) MAX Configuration

SIZE	CODE	NUMBER	REV
A	SP	BM812-I-9	B

SHEET 5 OF 6

TITLE

4.4.4 BM812-I Add on with 8K (MM8EJ) (See Section 5.0)4.4.5 BM812-I Add on with MAX Configuration (MM8EJ and MM8EH)
(See Section 5.0)4.5.0 BASIC MACHINE 24K

5.0 This change must be installed in the existing MM81-A, when the BM812 is added to a machine already having either 12K or 20K of core.

1. Add the M112 module to slot B05 of the MM81-A.
2. Use normal decoding procedure as stated on D-BS-MM8-I-A-1. to redecode the new field number if necessary.
3. Delete these wires in MM81-A:

B06P2	B08C1
	B08C1
	B07D1
4. Add these wires to MM81-A:

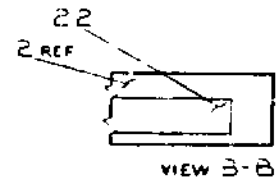
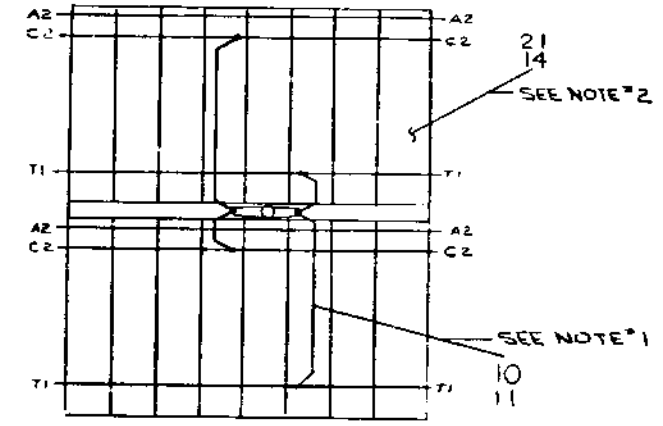
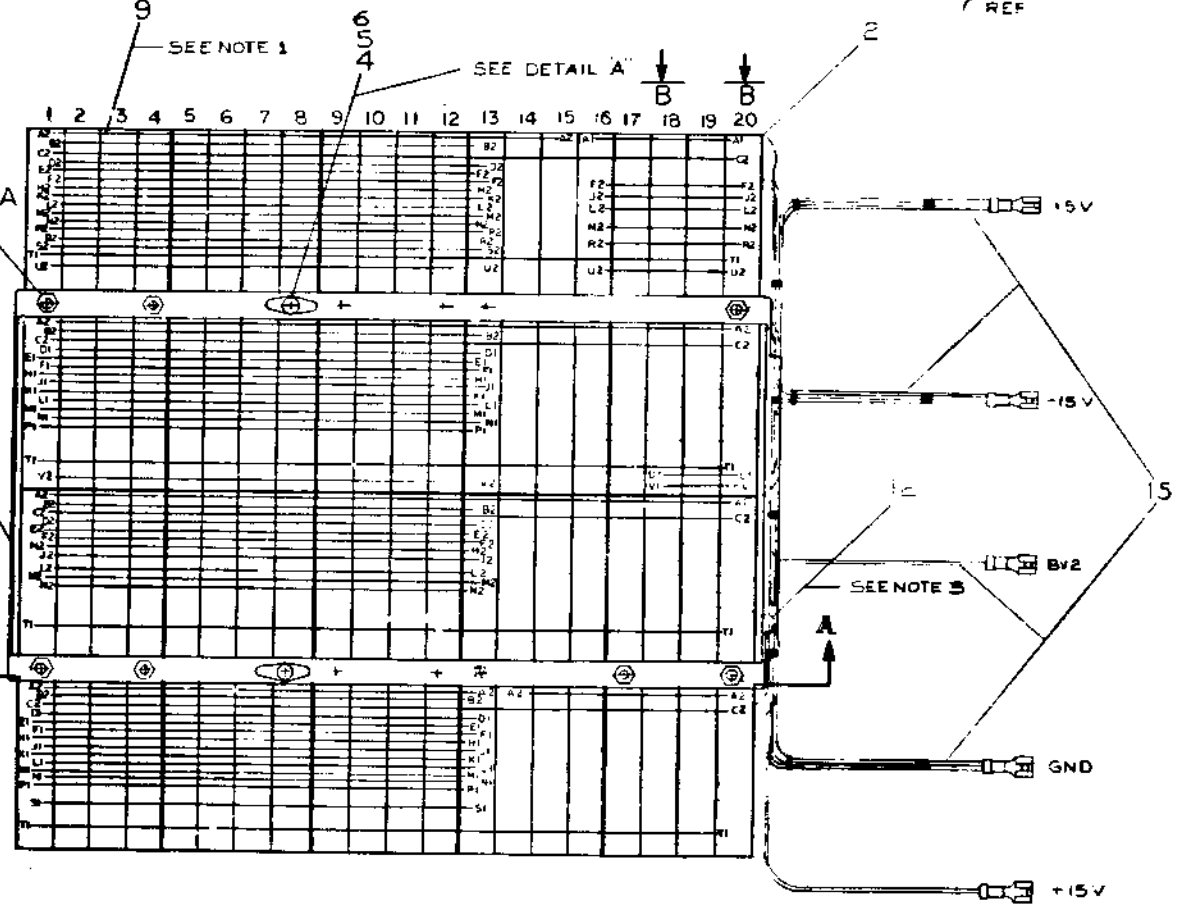
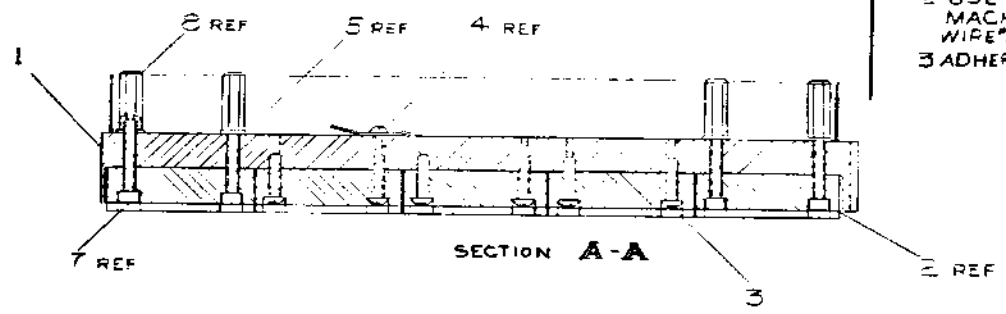
B07N1	B05A1
B08E2	B05B1
B08C1	B08C1
B08C1	B07D1

SIZE	CODE	NUMBER	REV
A	SP	BM812-I-9	B

SHEET 6 OF 6

WIRE TABLE							
ITEM NO	DESCRIPTION	FROM		TO		WIRE LENGTH	
		CONNECTION	WITH	CONNECTION	WITH		
22	BLK	A20-C2	SOLDER	GND		14"	
22	BLK	B20-C2		GND		11 1/2"	
22	BLK	C20-C2		GND		9 1/2"	
22	BLK	D20-C2		GND		8 1/2"	
22	RED	A15-A2		+5V		12 1/2"	
22	RED	B20-A3		+5V		9 1/2"	
22	RED	C20-A3		+5V		12 1/2"	
22	RED	C20-A2		+5V		15"	
22	BLU	A13-B2		-15V		14"	
22	BLU	B13-B2		-15V		12"	
22	BLU	C13-B2		-15V		14 1/2"	
22	BLU	D13-B2		-15V		11 1/2"	
18	VEL	D13-A2		+15V		10 1/2"	
18	GRY	B13-V2	SOLDER	BV2		11"	

NOTES:
 1. CONNECTIONS ON ITEMS 9 & 11 TO BE LOCATED & SOLDERED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS.
 2. USE YELLOW WIRE #14 FOR MACHINE WRAPPED & BLUE WIRE #21 FOR HAND WRAPPED.
 3. ADHERE TAPE TO SURFACE SHOWN



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REV	DATE	BY	CHKD
1	12/15/70	J. LEARSON	
2	1/15/71		

UNLESS OTHERWISE SPECIFIED	DRN	DATE	
UNLESS OTHERWISE SPECIFIED	CHKD	DATE	
TOLERANCES	ENG	DATE	TITLE WIRED ASSY (BM812-I)
FINISHES	PROJ ENG	DATE	
FINISHES	PROJ MGR	DATE	
FINISHES	PROJ	DATE	
FINISHES	PROJ	DATE	
SEE PARTS LIST	D-UA-BM812-I-2	REV	PART CODE D-UA-7010106-0-0
SCALE	1 OF 1	REV	NUMBER 7010106-0-0
DRY		REV	DIST 2

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

QUANTITY/VARIATION

ITEM NO	DWG NO. / PART NO	DESCRIPTION	QTY	VAR			
1	C-MD-7409056-0-0	OMNICASTING (BMB-1)	1				
2	E-SC-1205348-0-0	200 PIN CON. BLOCK TYPE HB03	10				
3	9006120-06	SCR PHL HD POSITIVE #8-12 X .62	12				
4	9006015-1	SCR PHL HD PAN #8-12 X .25	2				
5	9008072	WASH EXT TOOTH #8	12				
6	9007597	TERM SHAKEPROOF	2				
7	9007988-B	SCR SOCKET HD #8-32 / 1.00	8				
8	9008334	SPACER .25AFX.69TG #8-32 HOLE	8				
9	1205541	BUSS STRIP	AR				
10	9107265-09	#22 AWG TUBING TYP (WHT)	AR				
11	9107560-01	#22 AWG BUS WIRE	AR				
12	9008845	TAPE INSULATING	AR				
13	9007989	CONN BOLDERINES	1				
14	9005740-44	#30 AWG SOLID KYNAR WIRE (YEL)	AR				
15	D-1A-7011185 0-0	DC HARNESS	1				
16	9107350-00	#22 AWG STRD TYP (BLU)	44				
17	9107350-33	#22 AWG STRD TYP (RED)	50				
18	9107350-44	#18 AWG STRD TYP (YEL)	11				
19	9107265-09	#18 AWG STRD TYP (GRN)	11				
20	9007033	TIE WRAPS	11				
21	9105740-00	#30 AWG SOLID KYNAR WIRE (BLU)	AR				
22	A-DC-7411881-0 0	DECAL LOGIC ASSY REVISION	1				
TITLE WIRED ASSY (BMB12-1)		ASSY NO D-AD-7010106 0-0	SIZE A	CODE PL	NUMBER 7010106-0-0	REV A	ICL NO BMB12 I 00002
DEC FORM DEC 66 (25) 103) AN70 DRA 110		SHEET 1 OF 2	DIST				

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST


QUANTITY/VARIATION

ITEM NO	DWG NO. / PART NO	DESCRIPTION	QTY	VAR			
23	A-DC-7411881-0-0	LOGIC FRAME DETAILS	AR				
24	K-WI-BMB12 1-M	WIRE LIST (BMB12-1)	1				
TITLE WIRE ASSY (BMB12-1)		ASSY NO D-AD-7010106 0-0	SIZE A	CODE PL	NUMBER 7010106-0-0	REV A	ICL NO
DEC FORM DEC 66 (25) 103) AN70 DRA 110		SHEET 2 OF 2	DIST				

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DIGITAL EQUIPMENT CORPORATION

REV. A
 NUMBER BM812-I-8
 SIZE CODE K WL

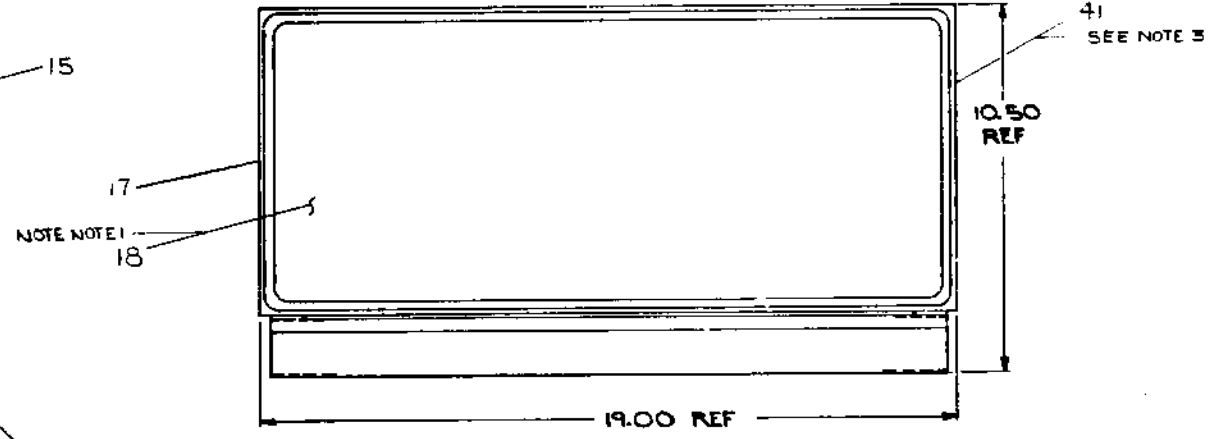
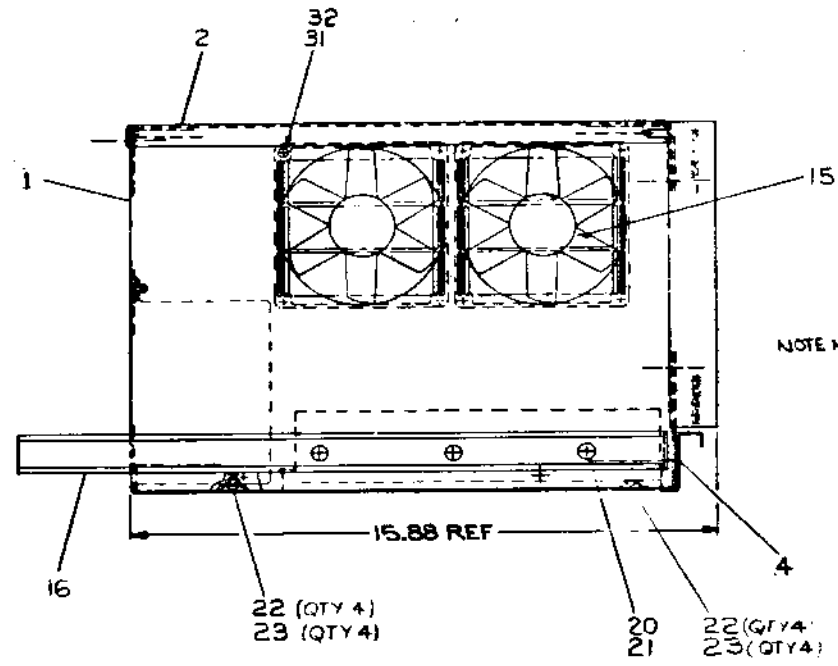
FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
BM 812-I					
PARTS LIST					
DRN. <i>IMP</i>	DATE <i>2/1/78</i>	 digital EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>			
CHK'D <i>...</i>	DATE <i>...</i>				
ENG. <i>...</i>	DATE <i>...</i>				
PROJ. ENG. <i>...</i>	DATE <i>...</i>				
PROD. <i>...</i>	DATE <i>...</i>				
NEXT HIGHER ASSEMBLY					
D-AD-7010106-0-0		WIRE LIST			
SCALE					
SHEET 1 OF 1					
		SIZE CODE	NUMBER	REV.	
		K WL	BM812-I-8	A	
		DIST.			

REVISIONS	CHANGE NO.	REV.
2/1	BM812-I-00002	A
<i>6-3-78 J. LEARSON</i>		
<i>1/18/78-6-14-78</i>		

This drawing and specifications, when used in conjunction with the drawings and specifications of the equipment, shall constitute the contract for the purchase of the equipment. It is the responsibility of the purchaser to verify the accuracy of the drawings and specifications before purchase. The manufacturer shall not be responsible for errors or omissions in this drawing or specifications.

LEGEND	
NUMBER	VARIATION
BM812-IA	115V
BM812-IB	230V

- NOTES:**
- ADHERE TWO PANELS (ITEM #18) TOGETHER USING ADHESIVE (ITEM #17) FOR LOCATION OF MODULES (ITEM #37) AND CABLE CONN (ITEM #38) SEE DWG D-MU-BM812-I-2
 - PLACE ITEM #41 AROUND INTAKE SLOTS USING (ITEM #2 AS TEMPLATE)



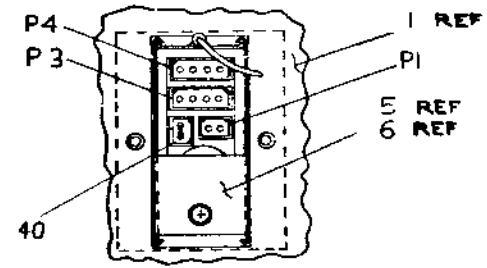
REV	DATE	BY	CHK	CHANGE NO
A	6/11/75	J. LEANSON		BM812-I-00002

FIRST USED OR OPTION MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
BM 212-I				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
XXX - .00	10 30	digital EQUIPMENT CORPORATION		
XX - .02				
X - .05		UNIT ASSY. BM812-I		
REMOVE BURRS AND SPEAK SHARP TO EXPOSE SURFACE QUALITY				
MATERIAL	SEE PARTS LIST	NEXT HIGHER ASSY	SIZE CODE	NUMBER
FINISH		B-00-BM812-I	DUA	BM812-I-0
		SCALE	DIST	REV
		SHEET 1 OF 3		A

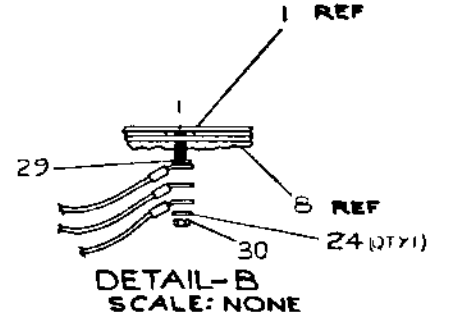
BM812-I-0 A

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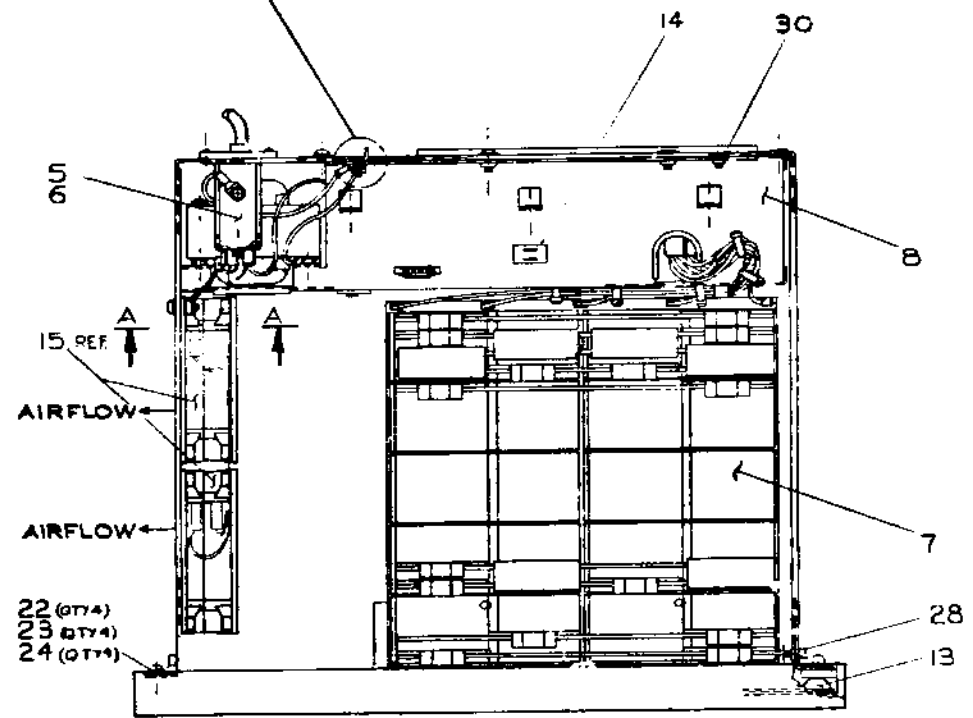
SEE DETAIL-B



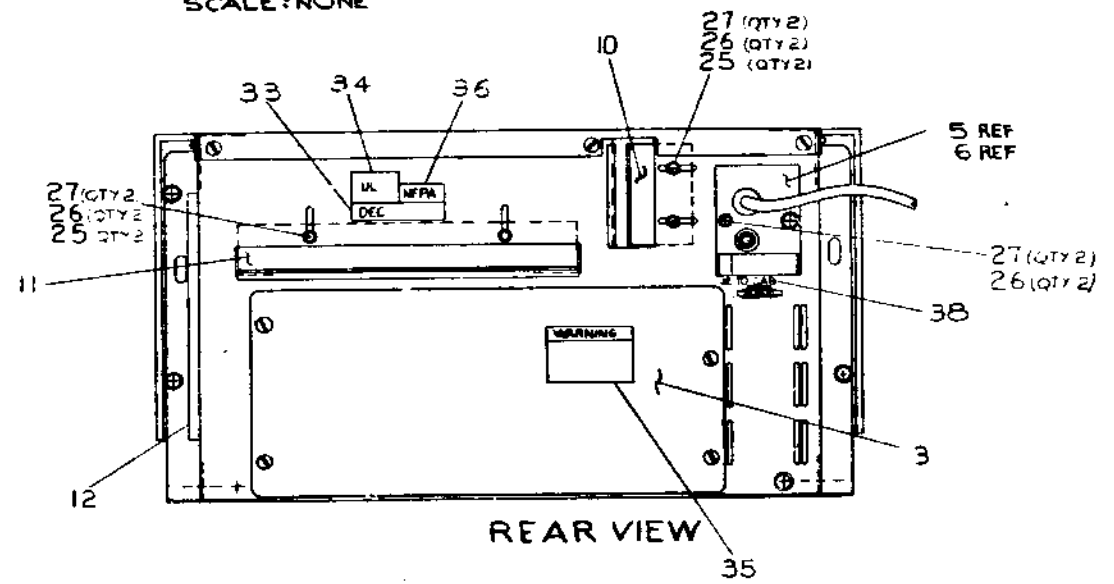
VIEW A
SCALE: NONE



DETAIL-B
SCALE: NONE



TOP VIEW
COVER (ITEM #2) REMOVED



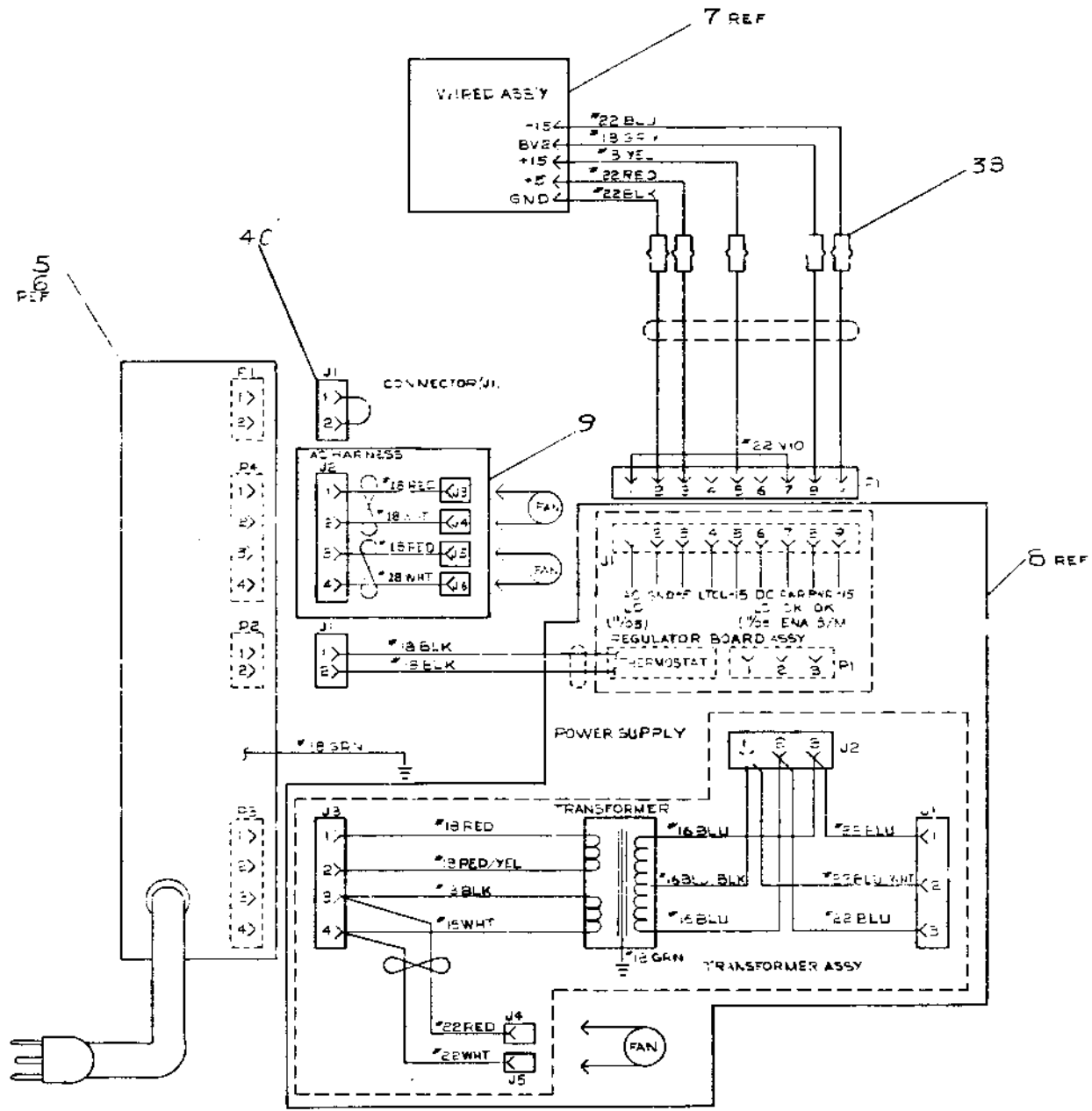
REAR VIEW

REVISIONS		
CHK	CHANGE NO	REV

TITLE	UNIT ASSY	BM812-I	DUA	NUMBER	BM812-I-0	REV	A
SCALE	SHEET 2 OF 2		LIST				

BM812-I-0

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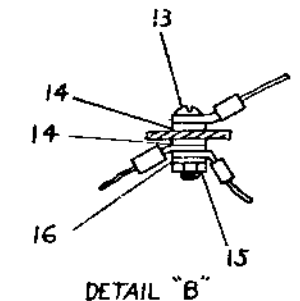
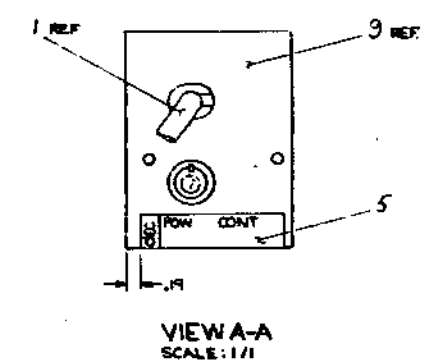
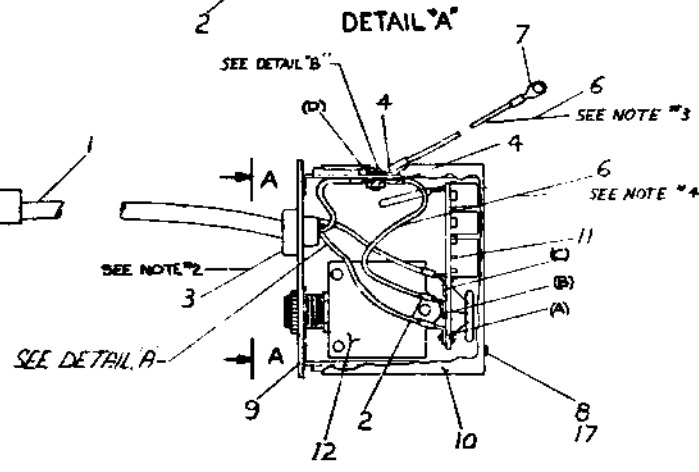
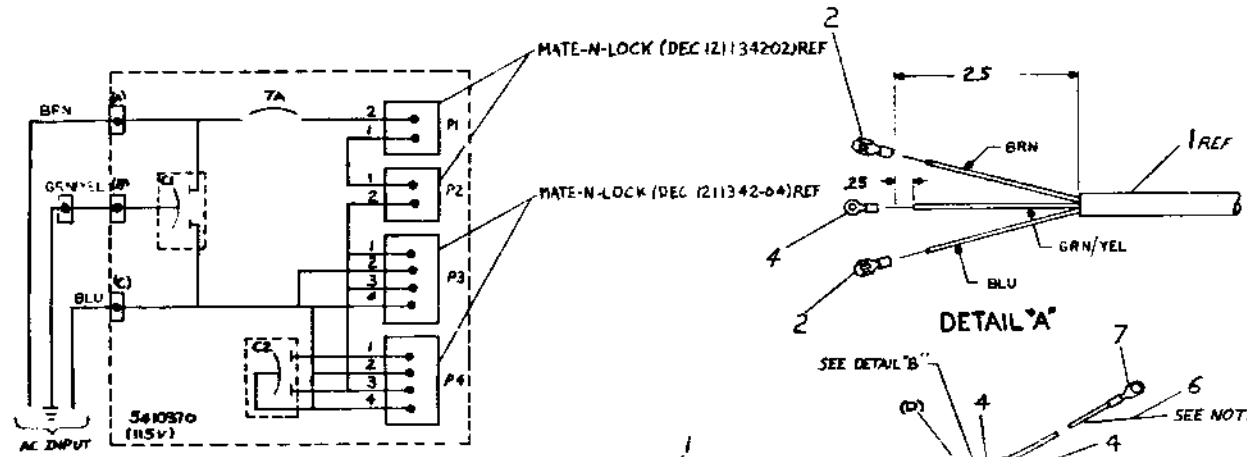
REVISIONS		
CHK	CHANGE NO	REV

TITLE	UNIT ASSY	8M812-I	SIZE CODE	DJA	NUMBER	598 2-I-1	REV.	A
SCALE	SHEET 5 OF 3		DIST					

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LEGEND		
PART NO.	ITEM #	QUANTITY
BC20A-88	170005-06	6 FT
BC20A-88	170005-07	9 FT

- NOTES:**
- CONNECT ITEM #1 (POWER CORD) PER CIRCUIT SCHEMATIC.
 - FOR INSTALLATION USE HEYCO #29 STRAIN RELIEF PLIERS.
 - LENGTH OF THIS WIRE (ITEM#6) IS 9.75" ±.5
 - LENGTH OF THIS WIRE (ITEM#6) IS 3.0" ±.5



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	WASHER, 6 INTERNAL TOOTH	9006633	17
1	WASHER, FLAT 3/24x25x.027	9006635	16
1	KEPNUT #4-40	9006357	15
2	WASHER, 4 INTERNAL TOOTH	9006632	14
1	SCR. PHIL PAN #40 x .38	9006011	13
1	CIRCUIT BREAKER (7A) P	120830-7	12
1	POWER BREAKER BC(115 V)	82A510370-0-0	11
1	COVER, AC INPUT	C-AD-520373-0-0	10
1	BOX, AC INPUT	DJA520985-0-0	9
1	SCR. PHL HD. PAN #6-32 x 2.5	9006020-1	8
1	SOLDERLESS, CONN #3360	9007930	7
1/4	#18 AWG STRD GRN	9107360-55	6
1	PWR CONTROL DEC(115V)	7-DC-510438-0-0	5
3	SOLDERLESS, CONN	9027929-0	4
1	STRAIN RELIEF SR6N3-4	9008492-2	3
3	SOLDERLESS CONN	9007917	2
1	POWER CORD (120 V)	SEE LEGEND	1

FIRST USED ON OPTION/MODEL: PDP8M

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES: DECIMALS ANGLES: 10° 30'

MATERIAL: NEXT HIGHER ASSY:

SCALE: SHEET: OF: DIST:

DATE: 2-7-73

PROJ. ENG. DATE: 2-7-73

PROD. DATE: 2-7-73

REMOVE BURRS AND BREAK SHARP EDGES TO SURFACE QUALITY

STANDARD EQUIPMENT CORPORATION

TITLE: LINE SET, 115 V

REV: D

NUMBER: BC20A-2-D

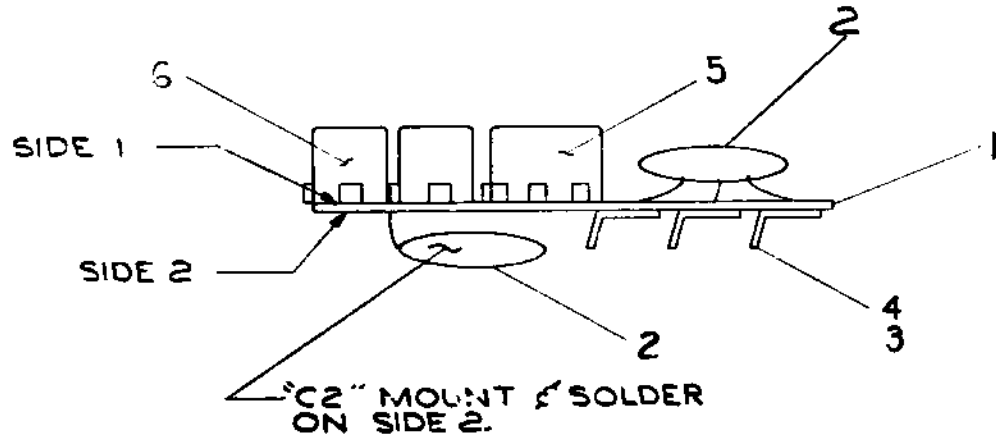
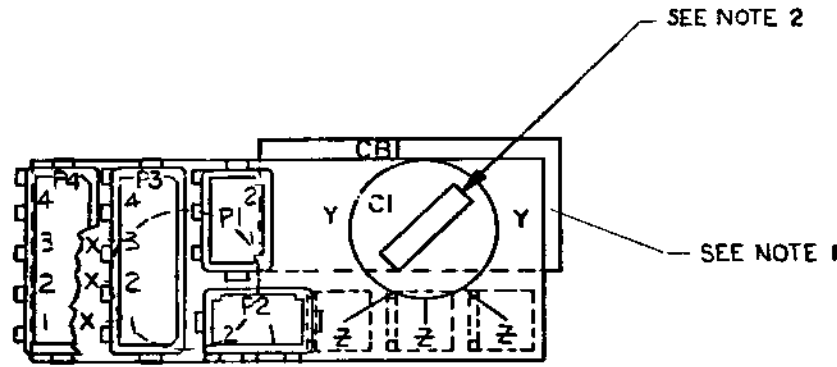
REV.	CHANGE NO.	DATE	BY	CHKD.
1	PC-20-00001	1-11-73	P. GARDNER	
2	PC-20-00002	1-11-73	P. GARDNER	
3	PC-20-00003	1-11-73	P. GARDNER	
4	PC-20-00004	1-11-73	P. GARDNER	
5	PC-20-00005	1-11-73	P. GARDNER	

DESIGNED BY: P. GARDNER
 DRAWN BY: P. GARDNER
 CHECKED BY: P. GARDNER
 APPROVED BY: P. GARDNER

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NOTES:

1. CBI (CIRCUIT BREAKER) TO BE INSTALLED ON NEXT HIGHEST ASSEMBLY.
2. ETCHED BOARD (ITEM #1) MUST BE ULL APPROVED LOCATION FOR MANUFACTURERS U.L. NUMBER SHALL BE ON SIDE 1 IN POSITION SHOWN. SIZE 1/8" X 1/2" FULL SCALE MAX.



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
2	P3, P4	4 CIRCUIT PC. B'D MATE-N-LOCK	1211342-04	6
2	P1, P2	2 CIRCUIT PC. B'D MATE-N-LOCK	1211342-02	5
3		EYELET #654-5	9009000	4
3		FASTON TABS	9008219	3
2	C1, C2	CAP. DUAL-SECTION DISC .02uf	1010767	2
1		ETCHED CIRCUIT BOARD	5010369	1
		MODULE ECO HISTORY	B-MH-5410370-0-6	REF
		ASSY/DRILLING HOLE LAYOUT	D-AH-5410370-0-5	REF
		X-Y COORDINATE HOLE LOCATION	X-CO-5410370-0-4	REF

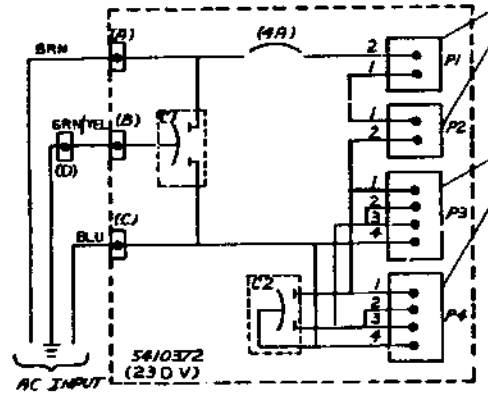
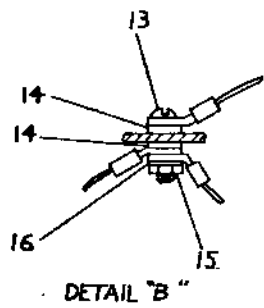
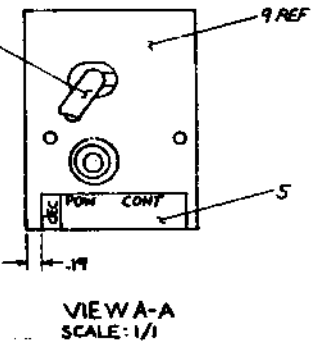
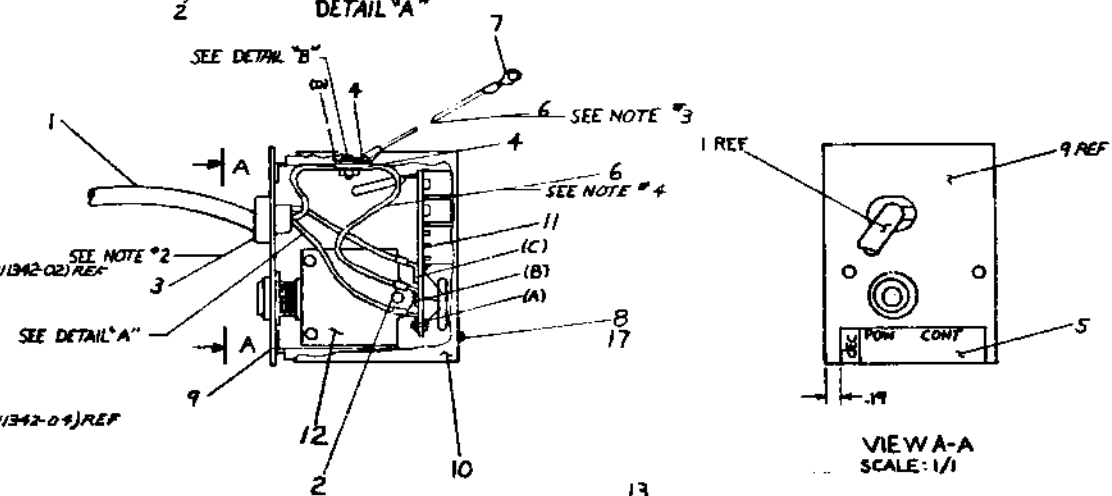
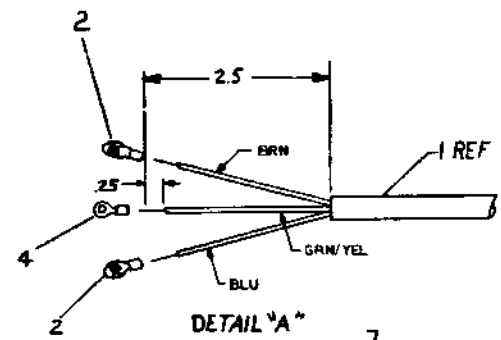
FIRST USED ON OPTION MODEL		PARTS LIST	
H402		digital EQUIPMENT CORPORATION WILMINGTON, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRY: <i>D Sullivan</i> DATE: 2/13/73	TITLE POWER CONTROL BOARD (115V)	
TOLERANCES	CHK'D: <i>...</i> DATE: 2-2-73		
DECIMALS ANGLES	ENG: <i>...</i> DATE: 2-2-73		
.xxx ± .005 .0 30	PROJ. ENG: <i>...</i> DATE: 2-2-73		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY #	PROD. <i>...</i> DATE: 2-2-73	NEXT HIGHER ASSY.	
MATERIAL		D-UA-H402-0-0	SIZE CODE
FINISH		SCALE	NUMBER
		SHEET 1 OF 1	CIA 5410370-0-0
		DIST	REV. A

REV	CHANGE NO.	REV

D
 C
 A
 B
 A
 5410370-0-0-1A

LEGEND		
PART NO.	TYPE #	VARIATION
BC2PB-06	1700015-06	6 FT
BC2PB-03	1700016-03	9 FT

- NOTES:**
- CONNECT ITEM #1 (POWER CORD) PER CIRCUIT SCHEMATIC.
 - FOR INSTALLATION USE MEYCO #29 STRAIN RELIEF PLIERS.
 - LENGTH OF THIS WIRE (ITEM #6) IS $9.75" \pm .5$
 - LENGTH OF THIS WIRE (ITEM #6) IS $30" \pm .5$



1	WASHER, #6 INTERNAL TOOTH	9006633	17
1	WASHER, FLAT, 3/12x.027	9006655	16
1	KEP NUT #4-40	9006557	15
2	WASHER, #4 INTERNAL TOOTH	9006632	14
1	SCR. PHL PAN. #4-40 x .38	9006011-1	13
1	CIRCUIT BREAKER (4/10A)	1210830-4	12
1	POWER CONTROL BD (230V)	6-29-5810372-01	11
1	COVER, AC INPUT	6MD-580372-01	10
1	BOX, AC INPUT	6-29-5809949-01	9
1	SCR. PHL PAN. #6-32 x .25	9006020-1	8
1	SOLDERLESS CONN #50360	9007930	7
NA	#18 AWG STRD, GRN	9107360-55	6
1	PWR CONTROL DECAL (230V)	4-06-53-2437-01	5
3	SOLDERLESS CONN	9007929-0	4
1	STRAIN RELIEF SR-6N3-4	9008492-2	3
3	SOLDERLESS CONN	9007917	2
1	POWER CORD 240V	SEE LEGEND	1

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP8M				

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES		DATE	
TOLERANCES		DATE	
DECIMALS	ANGLES	DATE	
MAX + .008	0 30'	DATE	
MIN - .008		DATE	
± .01		DATE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	

PARTS LIST			
REV	DESCRIPTION	DATE	BY
1			

digital EQUIPMENT CORPORATION

TITLE: **LINE SET, 230V**

MATERIAL: _____ NEXT HIGHER ASSY: _____

FINISH: _____ SCALE: _____ SHEET _____ OF _____

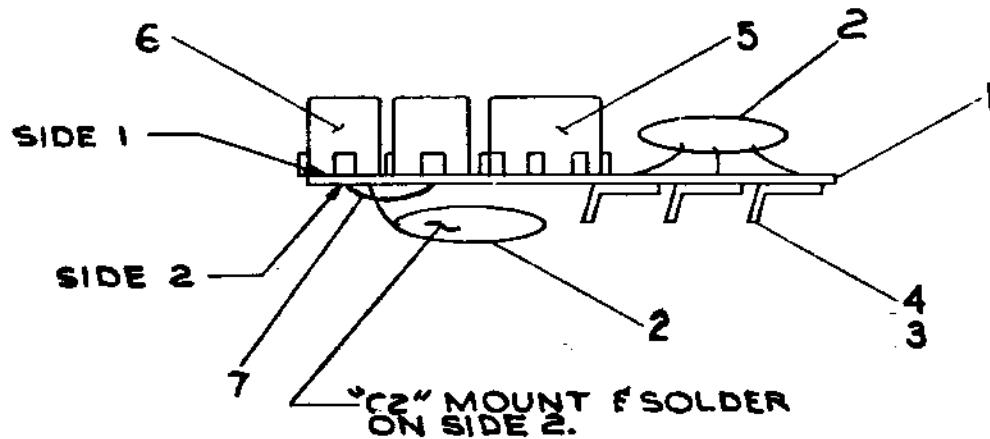
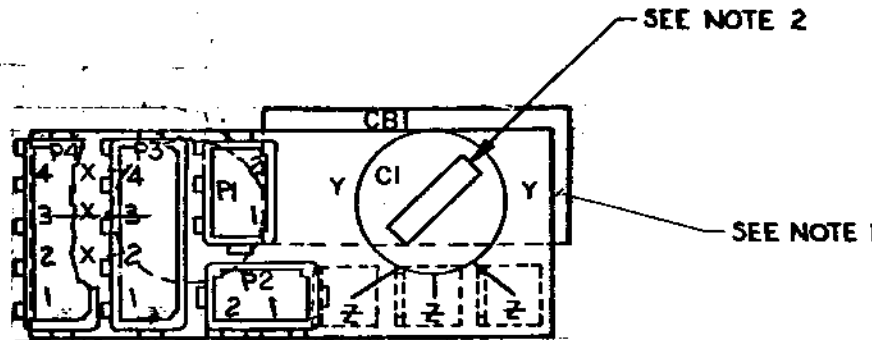
REV: _____ NUMBER: _____ REV: _____

REV. 001
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NOTES:

- 1 CBI CIRCUIT BREAKER TO BE INSTALLED ON NEXT HIGHEST ASSEMBLY.
- 2 ETCHED BOARD (ITEM 7) MUST BE UL APPROVED LOCATION FOR MANUFACTURERS U.L. NUMBER SHALL BE ON SIDE 1 IN POSITION SHOWN. SIZE 1/8" X 1/2" FULL SCALE MAX.
- 3 FOR CIRCUIT SCHEMATIC SEE D-UA-BC20B-0-0.



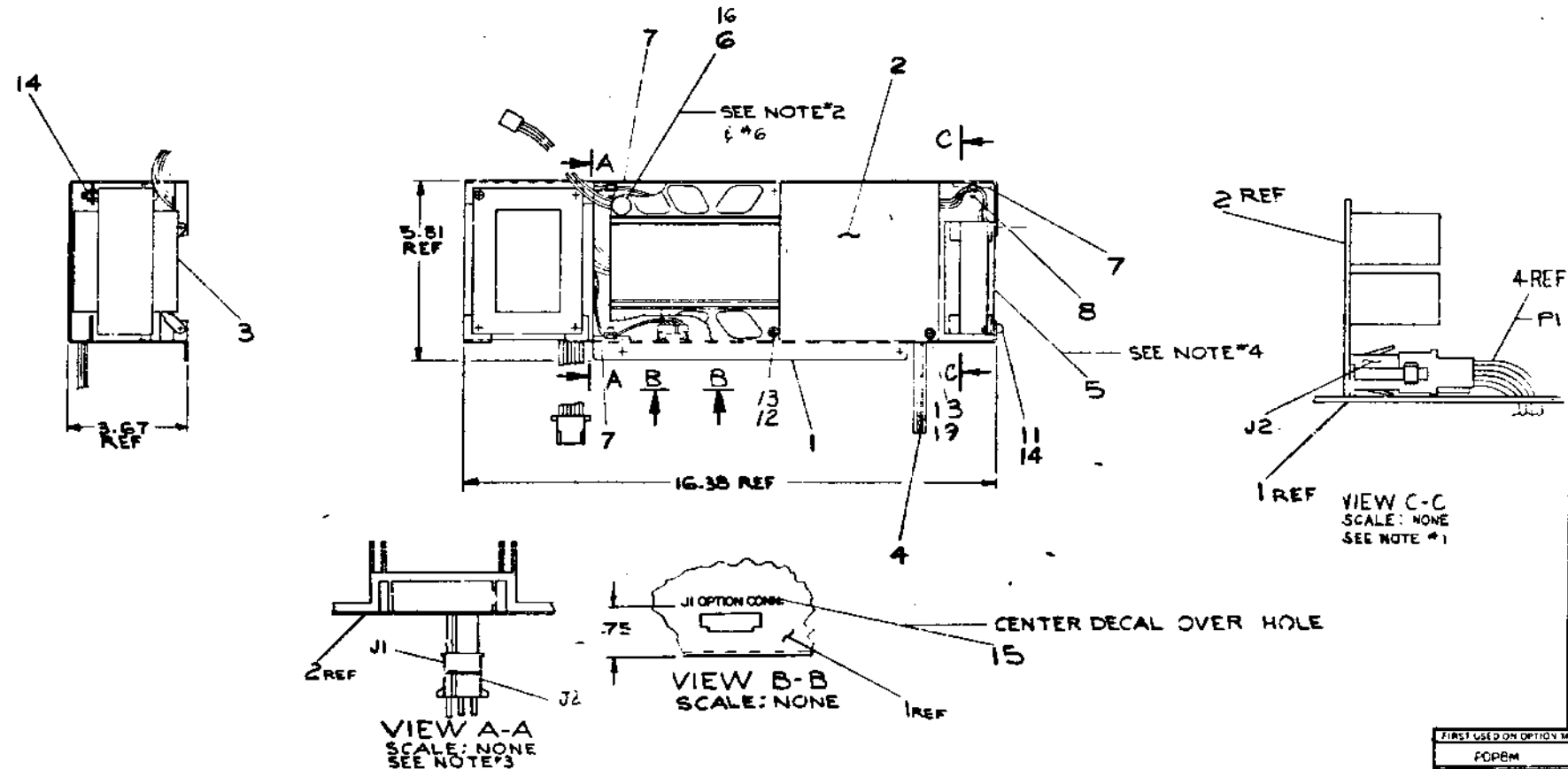
A/R	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
		WIRE, #18AWG, STRD, RED	9107360-22	7
2	P3,P4	4CIRCUIT P.C. B'D MATE-N-LOCK	211342-04	6
2	P1,P2	2CIRCUIT P.C. B'D MATE-N-LOCK	1211342-02	5
3		EYELET #GS4-5	9009000	4
3		FASTON TABS	9008219	3
2	C1,C2	CAP DUAL-SECTION DISC .0047UF	1014912	2
1		ETCHED CIRCUIT BOARD	5010371	1
		MODULE ECO HISTORY	B-MH-5410372-00	REF
		ASSY/DRILLING HOLE LAYOUT	D-AH-5410372-05	REF
		X-Y COORDINATE HOLE LOC.	K-CO-5410372-04	REF

QTY		REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
FIRST USED ON OPTION/MODEL					
H402					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
TOLERANCES		CHKD	DATE	TITLE	
DECIMALS	ANGLES	ENG	DATE	POWER CONTROL BOARD (230V)	
.XXX = .005	±0° 30'	PROJ ENG	DATE	SIZE CODE	NUMBER
.XX = .02		PROJ	DATE	C IA	5410372-0-0
.X = .1		PROJ	DATE	DIST.	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y		NEXT HIGHER ASSY.		REV.	
MATERIAL		D-UA-H402-0-0		C	
FINISH		SCALE			
		SHEET	OF		

REV.	CHANGE NO.	DATE	BY	CHK
B	5410372-00001	3-10-73	P. GARDNER	
C		11/21/73		

LEGEND	
7009282-0	DC HARNESS
7009282-1	NO DC HARNESS

- NOTES:**
- CONNECT J2 OF ITEM#2 (REGULATOR BOARD ASSY) TO P1 OF ITEM#4 (D.C. HARNESS).
 - REPLACE THERMOSTAT ON ITEM#2. ITEM#76 ON DIV. NO E-1A-5409728-0-0 WITH ITEM#6 (THERMOSTAT). LEAVE LEADS AT FULL LENGTH AND ADD ITEM#10 (PIN) AND ITEM#11 (CONN.) TO END OF LEADS RETURN OLD THERMOSTAT WITH 5 INCH LEADS TO STOCKROOM.
 - CONNECT J1 OF ITEM#2 (REGULATOR BOARD ASSY) TO J2 OF ITEM#3 (TRANSFORMER ASSY).
 - CONNECT J4 AND J5 OF ITEM#3 (TRANSFORMER ASSY) TO ITEM#5 (FAN).
 - FOR POWER SUPPLY ASSEMBLY PROCEDURE SEE DWG A-SP-PDP8M-0-8
 - REMOVE THERMOSTAT (ITEM#6) FROM THE BOARD AND LEAVE WITH THE MACHINE WHEN RETURNING THE REGULATOR BD ASSY (ITEM#2) FOR REPAIR.



QTY	DESCRIPTION	PART NO	ITEM NO
2	SCR. PHL. PAN. HD. #6-32x28	9006020	11
N/A	PACKAGING INSTRUCTIONS	A-SP-30000	13
REF	PS ASSY PROCEDURE	A-SP-PDP8M-08	17
A/R	COMPOUND THERM. JONT	7008268	16
1	DECAL (PDP8/M)	A00M10730-00	15
3	NUT, KEPS # 8-32	9006533	14
6	WASHER, INT TOOTHLOCK	9006633	13
4	SCR. PHL. HD. PAN #8-32x44	9006023	12
4	SCR. PHL. HD. PAN #8-32x44	9006038	11
1	PIN, MATE IN LOCK	1209378-01	10
3	CONN. MATE IN LOCK	1209378-02	9
3	CABLE, TIE	9007031	8
3	CABLE, TIE MOUNT	9008264	7
1	THERMOSTAT ASSY	E-1A-7009282-0-0	6
1	FAN,	1210719	5
0	HARNESS, D.C.	D-1A-7009282-0-0	4
1	TRANSFORMER ASSY	E-1A-7009282-0-0	3
1	REGULATOR BD ASSY	E-1A-5409728-0-0	2
1	CHASSIS, POWER SUPPLY	E-1A-7410742-0-0	1

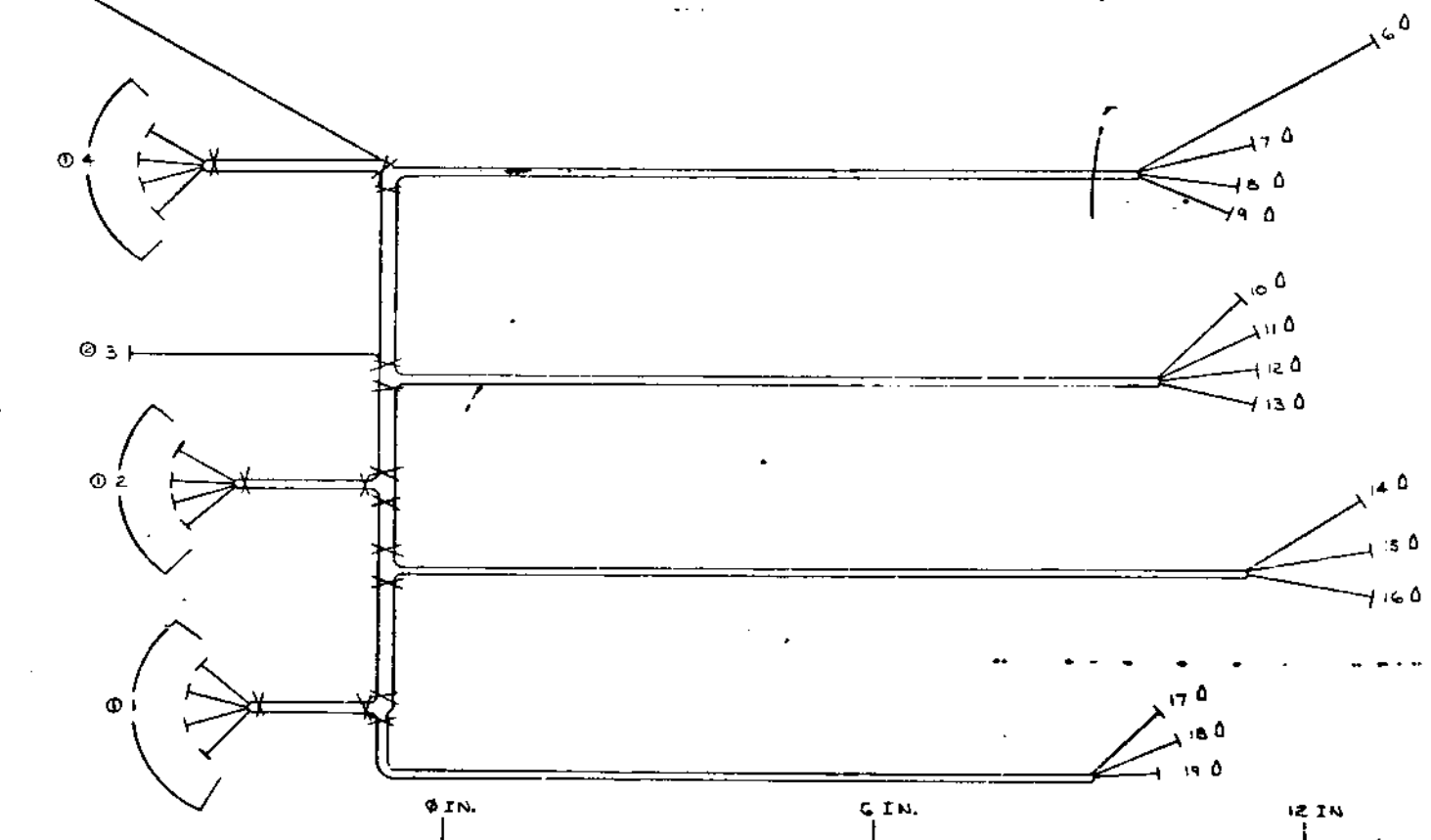
FIRST USED ON OPTION MODEL		QTY	DESCRIPTION	PART NO	ITEM NO
PDP8M PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES	DPM	DATE	DIGITAL CORPORATION		
DECIMALS	ANGLES	CHKD.	DATE	EQUIPMENT	
3/4 - 0.004	1/2 - 0.004	ENG.	DATE	CORPORATION	
1/8 - 0.004	1/16 - 0.004	PROT. ENG.	DATE	TITLE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	✓	PROD.	DATE	POWER SUPPLY ASSY	
MATERIAL	NEXT HIGHER ASSY		DWG NO.	NUMBER	REV
FINISH	D-1A-PDP8M-0-8	D-1A-7009282-0-0	D-1A-7009282-0-0	1	1
SCALE NONE	SHEET 1 OF 1	DIST			

REVISION	DATE	BY	CHKD.
1	11/17/73	P. GARDNER	
2	11/17/73	B. PATTON	
3	11/17/73	C. SALOMER	
4	11/17/73		
5	11/17/73		
6	11/17/73		
7	11/17/73		
8	11/17/73		

WIRE TABLE

WIRE NO.	GAGE	COLOR	FROM		TO		LENGTH
			POINT	TERM.	POINT	TERM.	
1	22	RED	1	1	8	---	23.0 IN
2	22	RED	1	1	13	---	30.0 IN
3	22	RED	1	1	14	---	17.0 IN
4	22	RED	1	1	17	---	16.0 IN
5	22	RED	1	1	6	---	23.0 IN
6	22	BLU	2	1	12	---	7.0 IN
7	22	GRY	2	1	18	---	8.0 IN
8	22	GRY	3	2	10	---	8.0 IN
9	22	GRY	3	2	7	---	9.0 IN
10	22	GRY	3	2	11	---	10.0 IN
11	22	GRY	3	2	16	---	23.0 IN
12	22	GRY	3	2	19	---	24.0 IN
13	22	GRY	4	1	11	---	10.0 IN
14	22	GRY	4	1	16	---	23.0 IN
15	22	GRY	4	1	19	---	24.0 IN
16	22	GRY	5	2	9	---	17.0 IN

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DO NOT REDUCE
(FOR MFG PURPOSES ONLY)

QTY	DESCRIPTION	PART NO	ITEM NO
X 15	TIE, CABLE	9007031-00	8
17	WIRE #18 AWG STRD (YEL)	907360-44	7
15	WIRE #18 AWG STRD (GRY)	907360-88	6
82	WIRE #22 AWG STRD (BLU)	907350-00	5
76	WIRE #22 AWG STRD (BLU)	907350-66	4
76	WIRE #22 AWG STRD (RED)	907350-22	3
2	TERMINAL, QUICK CONNECT	900707-00	2
3	TERMINAL, QUICK CONNECT	900709-00	1

QUANTITY & VARIATION <input type="checkbox"/> SYM. <input type="checkbox"/> QTY	UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES	
	DIMENSIONS DIM. TOL. SURF. FINISH SURFACE QUALITY IN MICRONS	DIM. TOL. SURF. FINISH DIM. TOL. SURF. FINISH DIM. TOL. SURF. FINISH
	DIM. TOL. SURF. FINISH DIM. TOL. SURF. FINISH DIM. TOL. SURF. FINISH	DIM. TOL. SURF. FINISH DIM. TOL. SURF. FINISH DIM. TOL. SURF. FINISH
THREE ANGLE PROJECTION 	REMOVE BURRS AND BREAK SHARP CORNERS DO NOT SCALE UNG	TITLE HARNESS (BM812-I)
MATERIAL SEE PARTS LIST FINISH	SCALE SHEET 1 OF 1	NUMBER 90701185-0-0

DIGITAL 901185-0-0