

TITLE	SHEET	SIZE	CODE	NUMBER	REV
OMNIBUS INTERFACE	2 OF 6	B	DD	DW8E-Ø	F

ELECTRICAL					ELECTRICAL							
PRINT SET	FIG. NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	FIG. NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
	1	D-UA-DW8E-0-0		6	UNIT ASSY DW8E		5	D-CS-M7102-0-1		2	POSITIVE I/O BUS CONVERTER	
		C-PL-DW8E-0-0		2	UNIT ASSY DW8E (PL)			K-CO-M7102-0-4		1	X-Y COORDINATE HOLE LOCATION	
		D-MU-DW8E-0-1		1	MODULE UTILIZATION			D-AH-M7102-0-5		1	ASSY DRILLING HOLE LOCATION	
		A-PL-DW8E-0-1		1	MODULE UTILIZATION (PL)			B-MH-M7102-0-6		1	MODULE ECO HISTORY	
		D-BS-DW8E-0-3		1	DW8E CONTROL							
		D-BS-DW8E-0-4		2	I/O BUS CONVERTER		6	D-CS-M7103-0-1		1	NEGATIVE I/O BUS CONVERTER	
		D-IC-DW8E-0-5		1	I/O BUS CONVERTER SIGNALS			K-CO-M7103-0-4		1	X-Y COORDINATE HOLE LOCATION	
		D-BS-DW8E-0-6		1	DW8E EXPANDER CONTROL			D-AH-M7103-0-5		1	ASSY DRILLING HOLE LOCATION	
		D-BS-DW8E-0-7		2	I/O BUS EXPANDER			B-MH-M7103-0-6		1	MODULE ECO HISTORY	
		D-IC-DW8E-0-8		1	I/O BUS EXPANDER SIGNALS							
		D-IA-7009155-0-0		2	HARNESS AC							
		D-IA-7009288-0-0		1	HARNESS DC							
		A-SP-DW8E-0-12		19	DW8E ENG. SPEC.		7	B-CS-M8320-0-1		2	BUS LOADS	
		A-SP-DW8E-0-13		1	DW8E ACCEPTANCE PROCEDURE			K-CO-M8320-0-4		1	X-Y COORDINATE HOLE LOCATION	
		A-AL-DW8E-0-10		1	DW8E ACCESSORY LIST			D-AH-M8320-0-5		1	ASSY DRILLING HOLE LOCATION	
		D-IC-DW8E-0-2		2	I/O CONNECTORS			B-MH-M8320-0-6		1	MODULE ECO HISTORY	
		A-SP-DW8E-0-9		4	FIELD INSTALLATION & ACCEPTANCE							
		C-IA-7005820-0-0		1	CABLE CONN TYPE W011 TO W021		8	D-AD-7009287-0-0		1	POWER SUPPLY	
		B-AD-7010108-0-0		1	CONNECTOR J1			D-IA-7409376-0-0		2	CHASSIS (P.S.)	
		K-WL-DW8E-0-11		1	WIRE LIST							
		A-PL-DW8E-0-15		1	SHIPPING LIST							
	2	D-AD-7009154-0-0		1	WIRED ASSY		9	E-IA-5409728-0-0		1	REGULATOR BD ASSY	
		A-PL-7009154-0-0		2	WIRED ASSY (PL)			D-CS-5409728-0-1		1	REGULATOR BD	
		K-WL-DW8E-0-11		1	WIRE LIST			K-CO-5409728-0-4		1	X-Y COORDINATE HOLE LOCATION	
		C-MD-7409056-0-0		1	OMNICASTING (RMS-L)			D-AH-5409728-0-5		1	ASSY DRILLING HOLE LOCATION	
		E-SC-1205348-0-0		1	288 PIN CONNECTOR BLOCK (H803)			B-MH-5409728-0-6		1	MODULE ECO HISTORY	
							10	C-UA-BC05H-0-0		1	LINE SET 115V AC 7 AMP	
	3	D-IA-5409396-0-0		1	8/E POWER BUS BOARD		11	D-UA-H400-0-0		1	AC INPUT BOX ASSY (H400-A)	
		B-CS-5409396-0-1		1	CIRCUIT SCHEMATIC			A-PL-H400-0-0		1	AC INPUT BOX ASSY (H400-A) (PL)	
		K-CO-5409396-0-4		1	X-Y COORDINATE HOLE LOCATION			C-IA-5409824-0-0		1	POWER CTRL BOARD 115V	
		D-AH-5409396-0-5		1	ASSY DRILLING HOLE LOCATION			D-AH-5409824-0-5		1	ASSY DRILLING HOLE LOCATION	
		B-MH-5409396-0-6		1	MODULE ECO HISTORY			B-MH-5409824-0-6		1	MODULE ECO HISTORY	
		D-IA-5009395-0-0		1	ENCH BORD 8/E							
	4	D-CS-M7101-0-1		2	CONTROL							
		K-CO-M7101-0-4		1	X-Y COORDINATE HOLE LOCATION							
		D-AH-M7101-0-5		1	ASSY DRILLING HOLE LOCATION							
		B-MH-M7101-0-6		1	MODULE ECO HISTORY							
CUSTOMER PRINT SET CODES	X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED					TITLE	OMNIBUS INTERFACE		SIZE	CODE	NUMBER	REV
							SHEET 3 OF 6		B	DD	DW8E-0	F

CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET								
	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE		MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		12	C-UA-BC05J-0-0		1	LINE SET 230V AC 4 AMP									
		13	D/AD-7012022-0-0		1	DW8E WIRED ASSY									
			A-PL-7012022-0-0		1	DW8E WIRED ASSY (PL)									
			A-WT-7012022-0-0		1	DW8E AWT REV STATUS									
			C-MD-7409056-0-0		1	OMNIGASTING (DW8E-L)									
			E-SC-1210258-0-0		1	288 PIN CONNECTOR BLOCK(H863)									
			D-IA-7011926-0-0		1	HARNESS DC									
		14	D-IA-7009282-0-0		1	POWER SUPPLY ASSY									
			E-IA-7007279-0-0		1	TRANSFORMER ASSY									
			D-IA-7009280-0-0		1	HARNESS, D.C.									
			C-IA-7009452-0-0		1	THERMOSTAT ASSY									
		15	E-IA-5409728-0-0		1	REGULATOR BOARD									
			D-CS-5409728-0-1		1	REGULATOR BOARD FOR H740									
			K-CO-5409728-0-4		1	X-Y COORDINATE HOLE LOCATION									
			D-AH-5409728-0-5		1	ASSY/DRILLING HOLE LAYOUT									
			B-MH-5409728-0-6		1	MODULE ECO HISTORY									
			5009727		1	ETCHED CIRCUIT BOARD									
			A-SP-5409728-0-3		13	MANUFACTURING TEST PROCEDURE									
			A-SP-5409728-0-8		25	MANUFACTURING SPECIFICATION									
			A-SP-5409728-0-9		4	ASSEMBLY PROCEDURE									
			B-IP-5409728-0-10		3	INSPECTION PROCEDURE									
			A-PI-3700065-0-0		2	5409728 INTERPLANT/CUST. PKG.									
		16	D-UA-BC20A-0-0		1	LINE SET 115V									
		17	D-UA-BC20B-0-0		1	LINE SET 230V									
CUSTOMER PRINT SET CODES	X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED						TITLE	OMNIBUS INTERFACE	SHEET 4 OF 6	SIZE CODE	B DD	NUMBER	DW8E-0	REV	F

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ACCESSORY LIST

LEGEND

D DOCUMENT
DN DOCUMENT CHANGE NOTICE
PA PAPER TAPE ASCII
PB PAPER TAPE BINARY
PM PAPER TAPE READ-IN-MODE

QUANTITY / VARIATION

MADE BY *Ed Reed* CHECKED K.Quinn SECTION
DATE 3-27-73 DATE 3-27-73
ENG Ed Reed PROD R.Pooler ISSUED SECT.
DATE 3-27-73 DATE 3-27-73

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	DW8E-NA	DW8E-NB	DW8E-NX	DW8E-PA	DW8E-PB	DW8E-PX	KIT CHECK	INSTALLATION CHECK	
										BY	DATE
1	D-UA-DW8-E-0	DW8-E Assembly	1	1		1	1				
2	C-UA-BC05H-0-0	H400A lineset, 115VAC, 7 amp	1			1					
3	C-UA-BC05J-0-0	H400B lineset, 230VAC, 4 amp		1			1				
4	B-DD-DW8-E	DW8-E print set	1	1		1	1				
5	D-CS-M7101-0-1	M7101 control card	1	1	1	1	1	1			
6	D-CS-M7102-0-1	M7102 pos. I/O bus converter				4	4	4			
7	D-CS-M7103-0-1	M7103 neg. I/O bus converter	4	4	4						
8	D-CS-M8320-0-1	M8320 bus loads card	1	1	1	1	1	1			
9	D-MD-7409100-1-0	slides, chassis, rotating set	1	1		1	1				
10	BC08B-7	cable, flat black coax				*	*				
11	BC08D-7	Y-cable, flat black coax	*	*							
12	ECO#8M-00007	ECO to PDP-8. send only FOR PDP-8 INSTALLATION	1	1							
13	ECO#LINC8M-00008	ECO TO LINC-8 SEND ONLY FOR LINC-8 INSTALLATION	1	1							
NOTE: BC08B-7 cables are used with positive bus systems - DM04, PDP8, PDP12.											
BC08D-7 cables are used with negative bus systems - DM01, PDP8, PDP8I, LINC8.											
(CAUTION: A PDP8I can be positive or negative bus but requires BC08D cables.											
When a DM04 is installed on a Positive bus PDP8, BC08B cables are required.)											

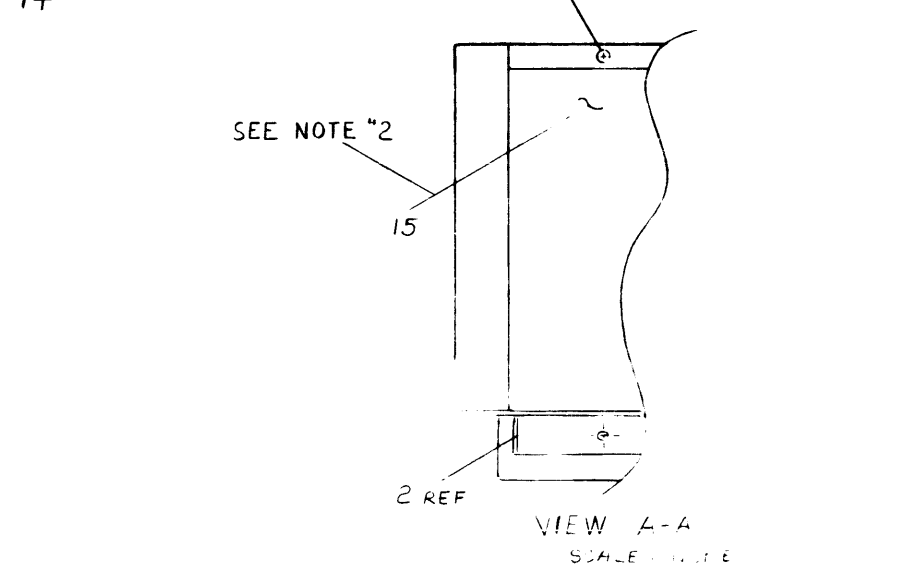
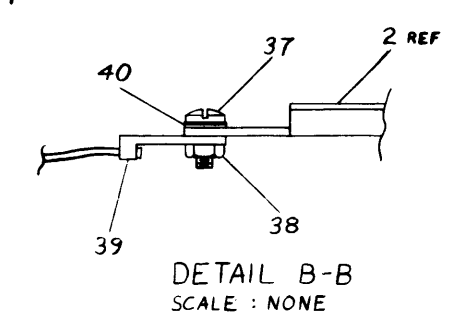
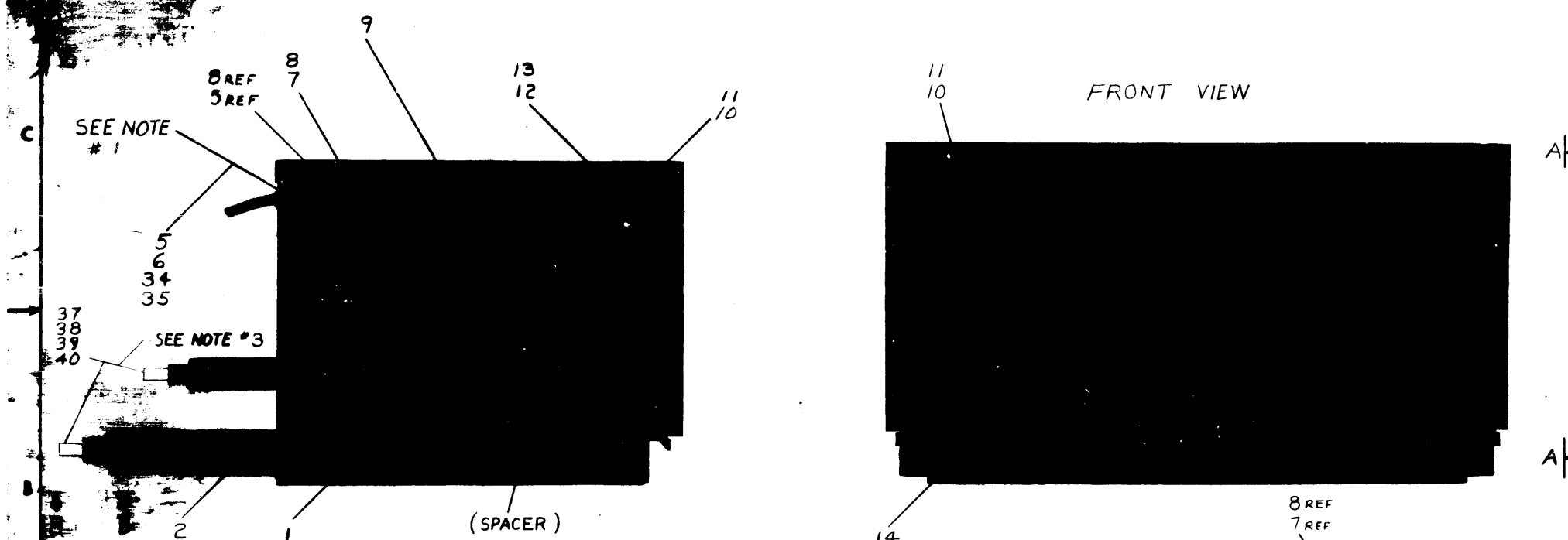
TITLE ACCESSORY LIST	ASSY. NO. D-UA-DW8-E-0	SIZE CODE A AL	NUMBER DW8E-0-10	REV =	ECO NO DW8E-00008
	SHEET 1 OF 1	DIST			

LEGEND	
NUMBER	VARIATION
DWB-E-NA	NEGATIVE BUS, 115 VAC
DWB-E-NB	NEGATIVE BUS, 230 VAC
DWB-E-NX	NEGATIVE BUS, EXPANDER; M7101, 1-M7103'S, M8320 ADDED TO NA OR NB
DWB-E-PA	POSITIVE BUS, 115 VAC
DWB-E-PB	POSITIVE BUS, 230 VAC
DWB-E-PX	POSITIVE BUS, EXPANDER; M7101, 4-M7102'S, M8320 ADDED TO PA OR PB

NOTES:
 1. MOUNTING HARDWARE VARIATION FOR ITEM 16 (FAN) ARE AS FOLLOWS

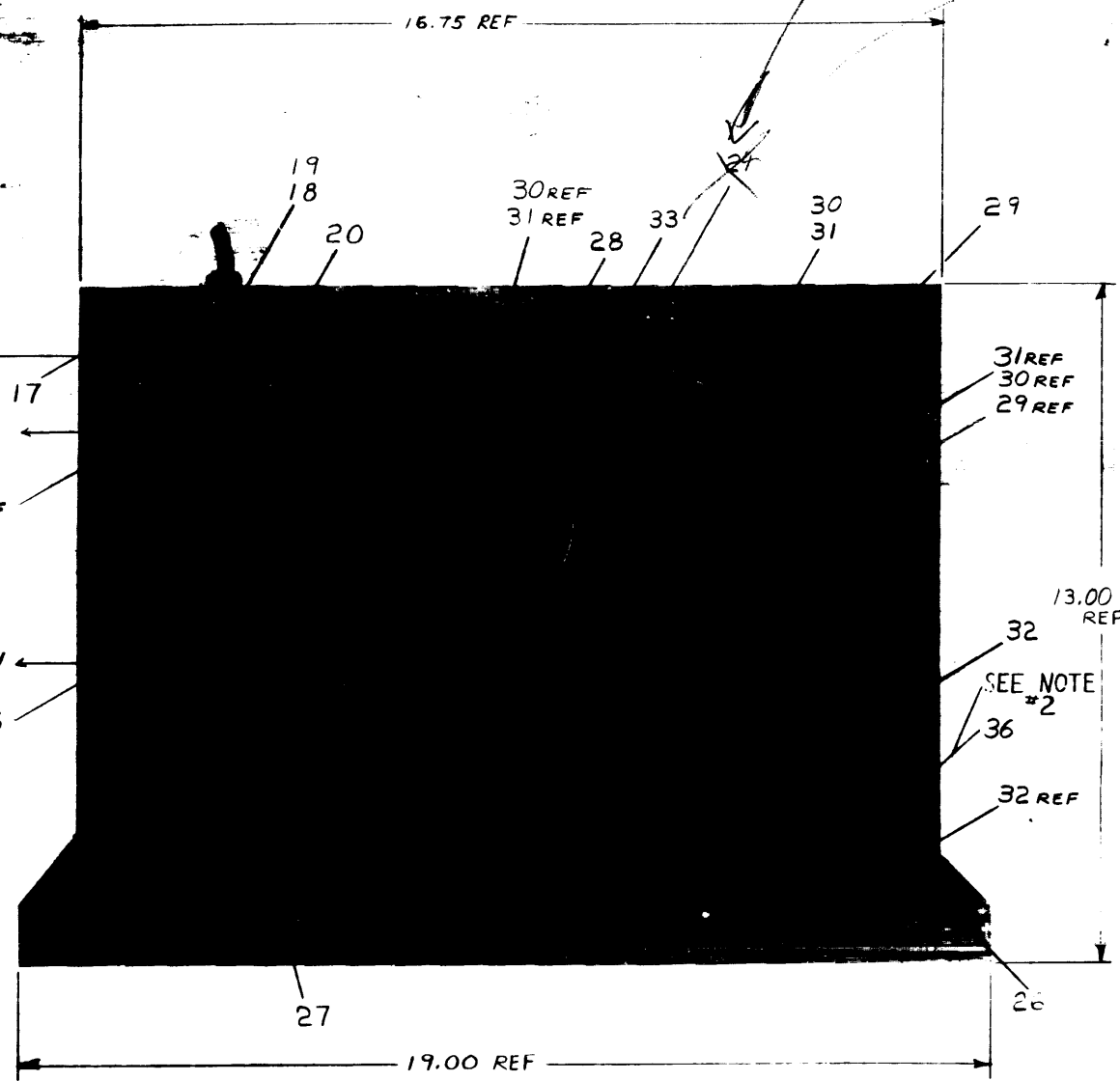
ITEM #16 (FAN)		MOUNTING HARDWARE	
ITEM NO	DESCRIPTION	ITEM NO	DESCRIPTION
1205033-1	ROTRON	34	MOUNTING CLIP
		35	#6-32X.36 SCREW
1205033-2	I MC	35	#8-32 X.38 SELF TAPPING SCR.

2. ITEM 15 & 36, SIDE FILTER, IS TO BE MOUNTED INSIDE BOX.
 3. ASSEMBLE AS SHOWN TO PROVIDE SHIPPING TIE-DOWN AND SLIDE-LOCK RELEASE.



FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
DWBE			
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN <i>Wilson</i>	DATE <i>2/15/75</i>	EQUIPMENT CORPORATION
DECIMALS .005	CHK'D <i>Wilson</i>	DATE <i>3/1/75</i>	
ANGLES 10° 30'	ENG <i>Wilson</i>	DATE <i>3/1/75</i>	TITLE
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ. ENG <i>Wilson</i>	DATE <i>3/1/75</i>	UNIT ASSY DWBE
MATERIAL	PROD. <i>Wilson</i>	DATE <i>3/1/75</i>	
FINISH	NEXT HIGHER ASSY.		
	B-DD-DWBE-0	SIZE CODE	
	SCALE	DUA DWBE-0-0	
	SHEET 1 OF 3	DIST.	

REVISIONS
 1. J. L. LEARSON 15 Dec 75
 2. J. L. LEARSON 15 Dec 75
 3. J. L. LEARSON 15 Dec 75
 4. J. L. LEARSON 15 Dec 75
 5. J. L. LEARSON 15 Dec 75
 6. J. L. LEARSON 15 Dec 75
 7. J. L. LEARSON 15 Dec 75



SEE NOTE BELOW

AIRFLOW

16 REF

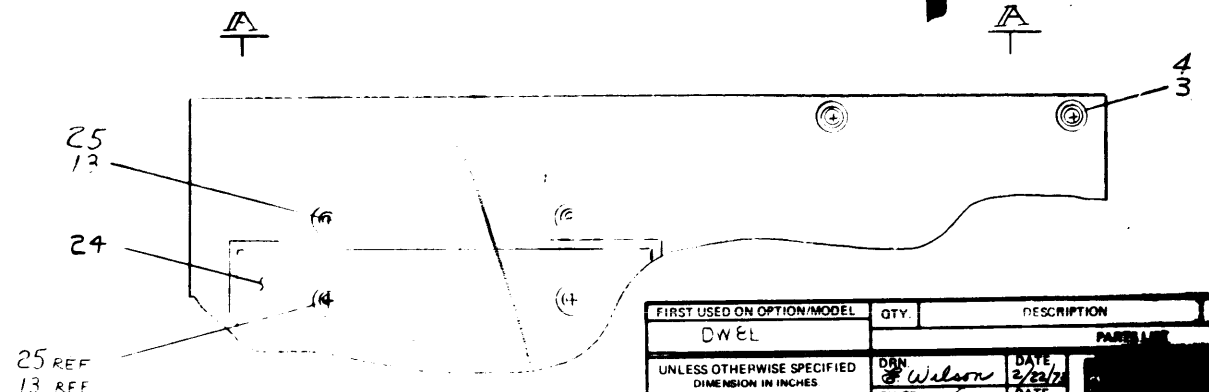
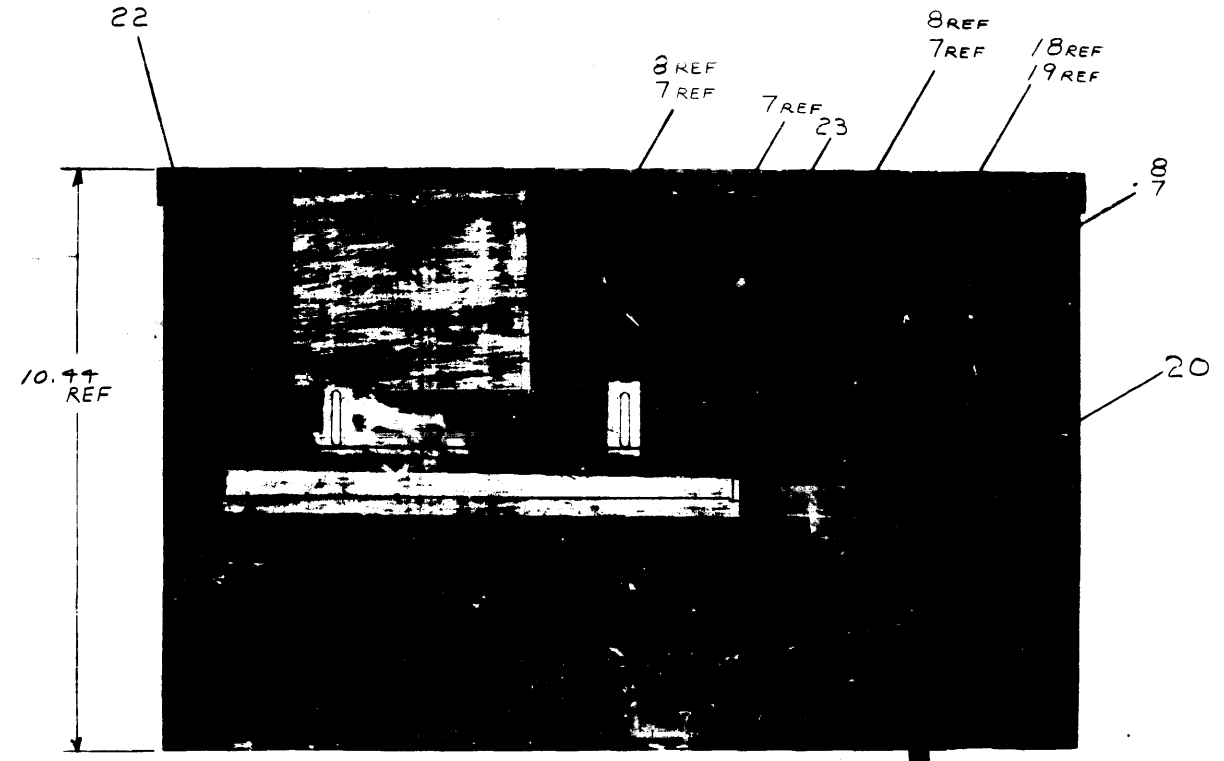
AIRFLOW

16

TOP VIEW WITH COVER (ITEM#9) & CABLE TROUGH (ITEM#17) REMOVED.

dim = 46 on New Box

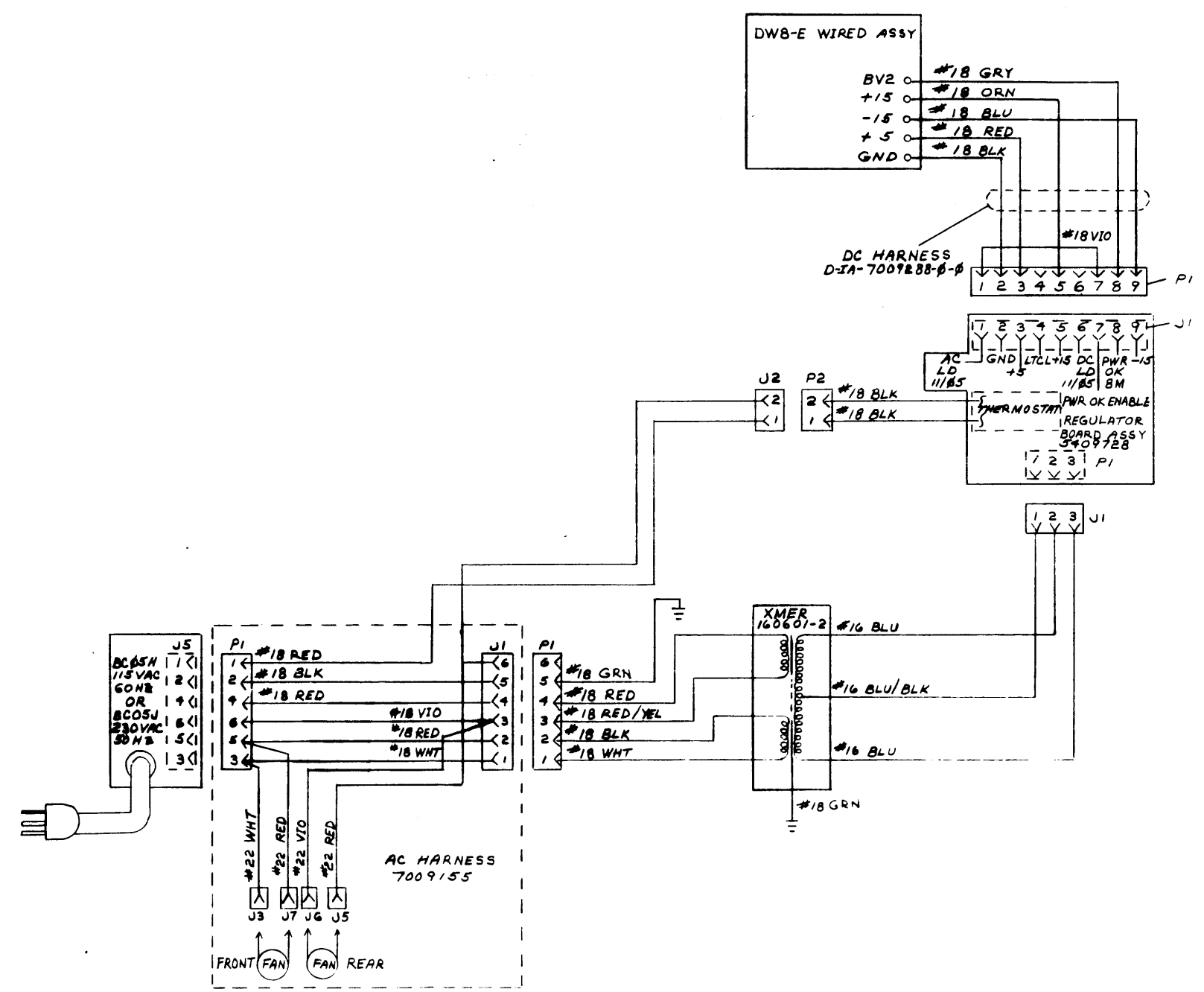
REAR VIEW



VIEW A-A (BOTTOM)
SCALE: NONE

old box

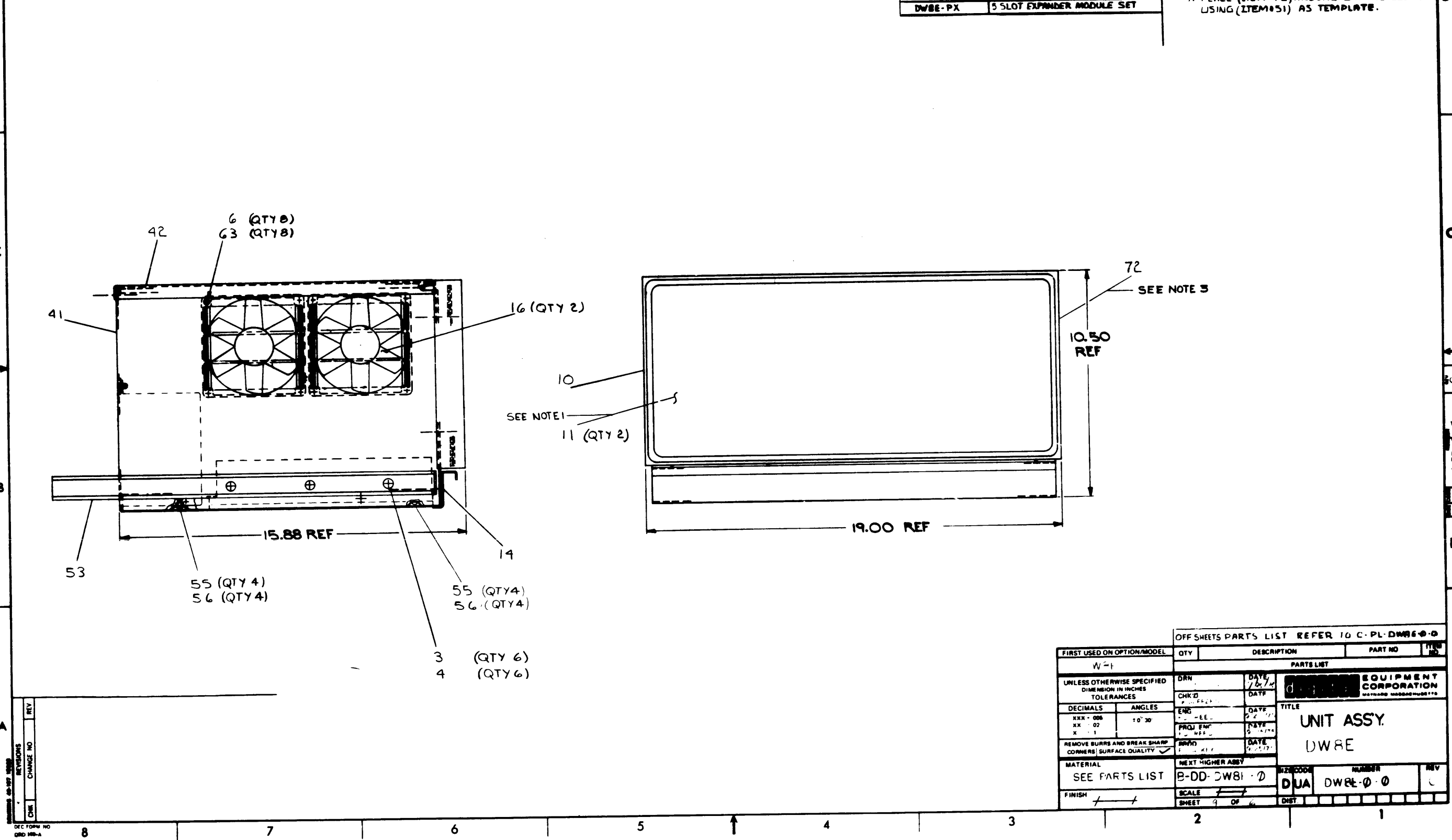
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
DWEL			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN <i>Wilson</i> DATE <i>2/22/72</i> CHD <i>Wilson</i> DATE <i>3/1/72</i> ENG. <i>Wilson</i> DATE <i>3-2-72</i> PROD. ENG. <i>Wilson</i> DATE <i>3-2-72</i> PROD. <i>Wilson</i> DATE <i>4/1/72</i>	
DECIMALS	ANGLES	EQUIPMENT CORPORATION TITLE UNIT ASSY DWSE	
XXX - 006	± 0° 30'	MATERIAL NEXT HIGHER ASSY. B-DD-DWSE-0	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		SCALE	SIZE CODE
		SHEET 2 OF 6	DUA DWSE-0-0 C



REVISIONS		
CHK	DATE	BY

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EQUIPMENT CORPORATION



LEGEND	
NUMBER	VARIATION
DWBE-NC	8 NEG. BUS TO OMNIBUS INTER. 115V
DWBE-ND	8 NEG. BUS TO OMNIBUS INTER. 220V
DWBE-NX	5 SLOT EXPANDER MODULE SET
DWBE-PC	8 POS. BUS TO OMNIBUS INTER. 115V
DWBE-PD	8 POS. BUS TO OMNIBUS INTER. 220V
DWBE-PX	5 SLOT EXPANDER MODULE SET

- NOTES:**
- ADHERE TWO PANELS (ITEM #1) TOGETHER USING ADHESIVE (ITEM #0)
 - FOR LOCATION OF MODULES (ITEM #0'S 29, 30, 31, 32) AND CABLE CONNECTOR (ITEM #70) SEE DRAWING D-MU-DWBE-0-1 (ITEM #68)
 - PLACE (ITEM #72) AROUND INTAKE SLOTS USING (ITEM #51) AS TEMPLATE.

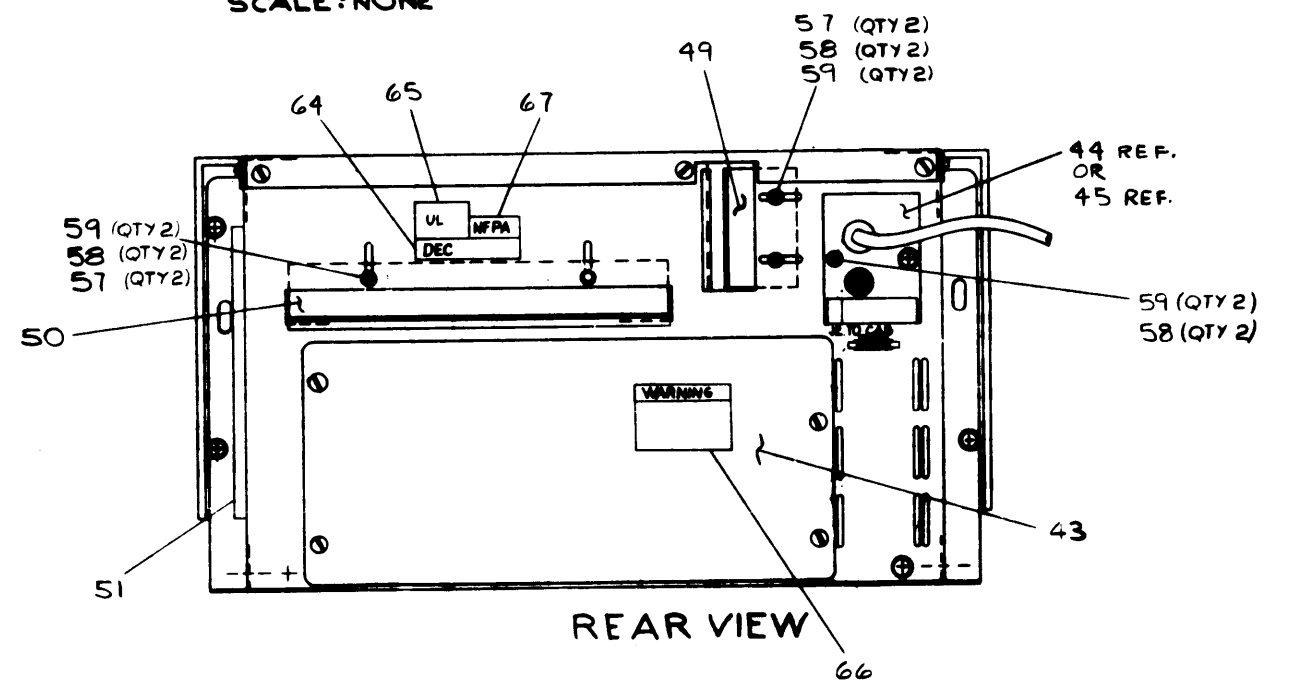
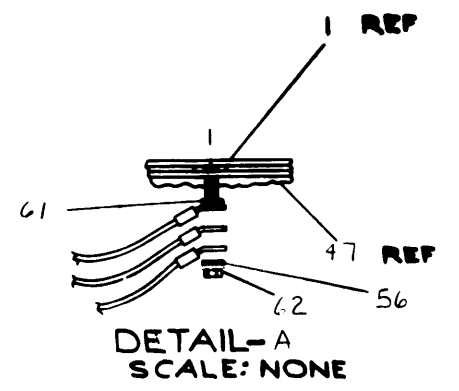
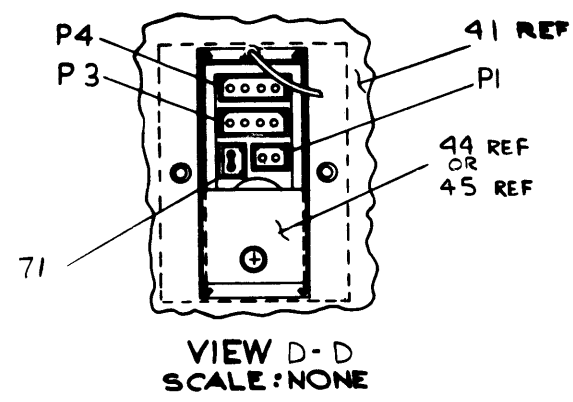
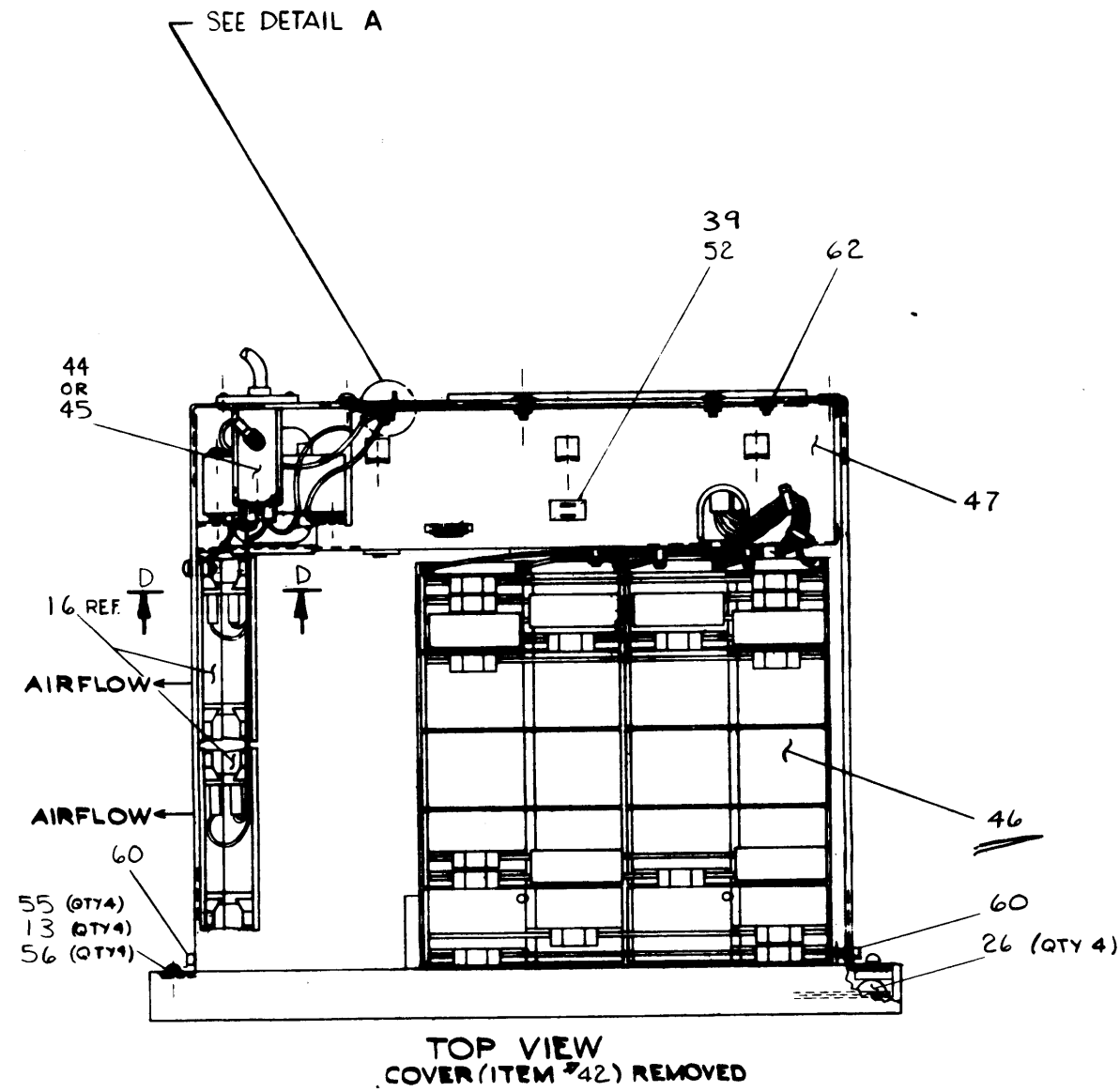
REV	
CHG	
CHK	
REV	
CHG	
CHK	

FIRST USED ON OPTION/MODEL				OFF SHEETS PARTS LIST REFER TO C-PL-DWBE-0-0			
W-1		QTY	DESCRIPTION	PART NO	ITEM NO	PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN	DATE	EQUIPMENT CORPORATION		TITLE	
DECIMALS	ANGLES	CHK'D	DATE	UNIT ASSY.		DWBE	
XXX - 006	10' 30"	ENG	DATE	DWBE-0-0		REV	
XX - 02		PROJ ENG	DATE	DUA		DWBE-0-0	
X - 1		DRN	DATE	DWBE-0-0		REV	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				NEXT HIGHER ASSY		SCALE	
SEE PARTS LIST		B-DD-DWBE-0-0		DWBE-0-0		SHEET 9 OF 6	
FINISH				DIST		1	

DEC FORM NO 500 10-64

Check and verify all parts and quantities are correct before assembly. If any discrepancy is found, stop work and report to the supervisor. Do not assemble until corrected. Do not assemble until corrected. Do not assemble until corrected.

D
C
B
A

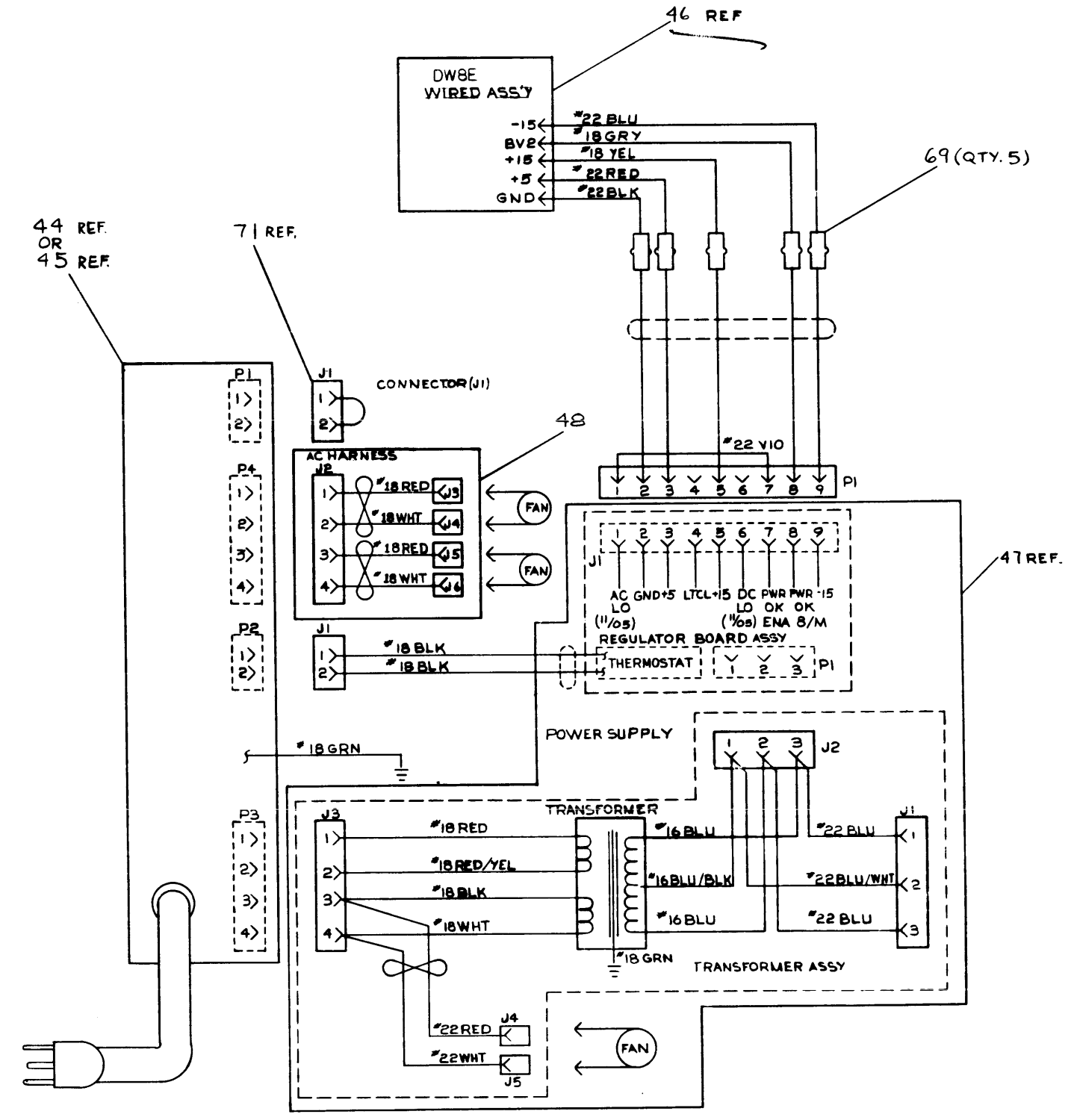


D
C
B
A

REVISIONS		
CHK	CHANGE NO	REV

TITLE	UNIT ASSY DW8E	SIZE CODE	D UJA	NUMBER	DW8E-0-0	REV	C
SCALE	1:1	SHEET	5 OF 6	DIST			

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REVISIONS		
CHK	CHANGE NO	REV

TITLE	UNIT ASSY DWBE	SIZE CODE	DJA	NUMBER	DWBE-C-2	REV	C
SCALE	1:1	SHEET	6	OF	6	DIST.	

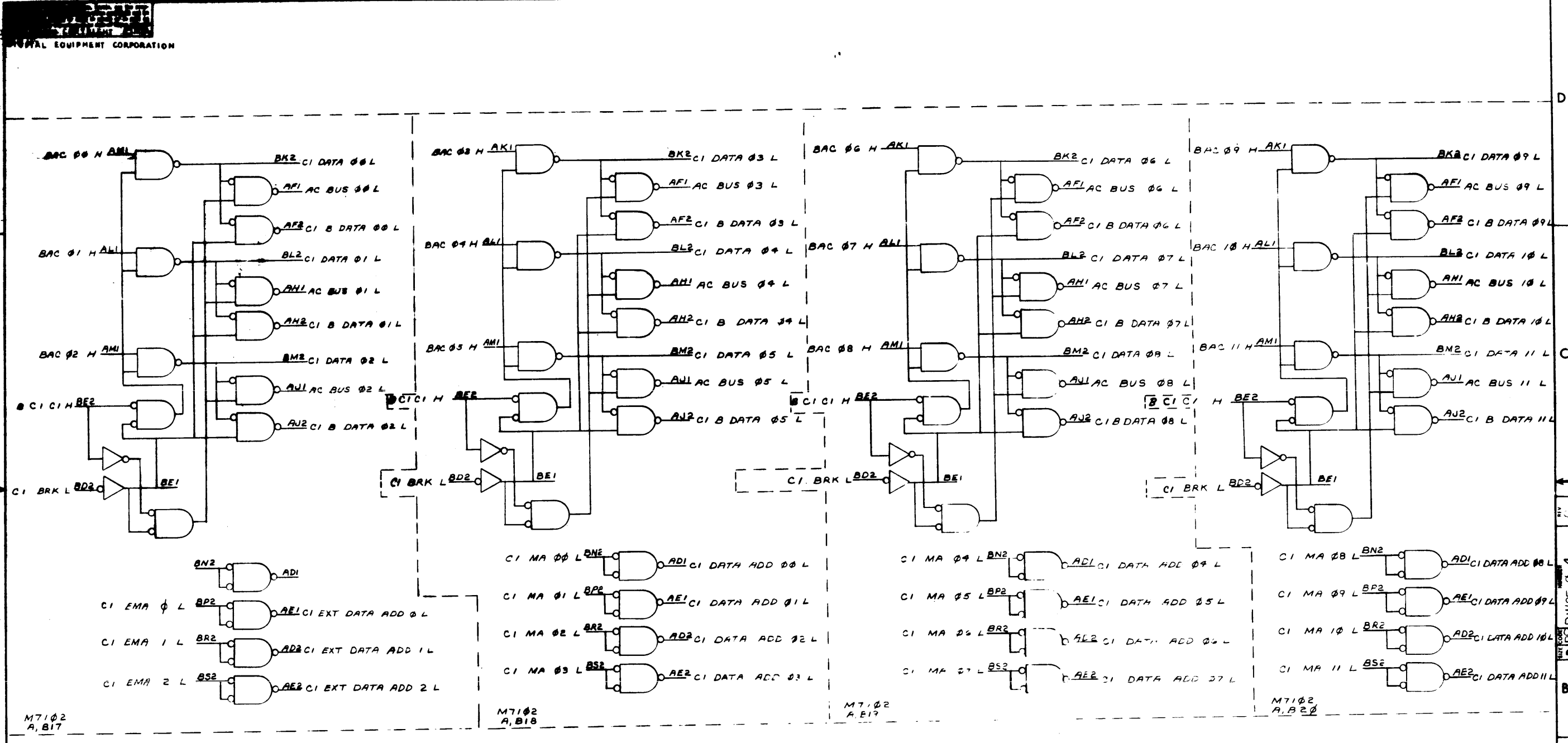
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ITEM NO.	PART NO.	DESCRIPTION	DWBE-NA	DWBE-NB	DWBE-NX	DWBE-PA	DWBE-PB	DWBE-PX	DWBE-NC	DWBE-ND	DWBE-PC	DWBE-PD
44	D-UA-BC20A-06-0	LINE SET 115V	-	-	-	-	-	-	1	-	1	-
45	D-UA-BC20B-06-0	LINE SET 230V	-	-	-	-	-	-	-	1	-	1
46	D-AD-7012022-0-0	WIRED ASSY (DWBE)	1	1	1	1	1	1	1	1	1	1
47	D-AD-7009282-0-0	POWER SUPPLY ASSY	-	-	-	-	-	-	1	1	1	1
48	D-IA-7010107-0-0	HARNES, AC	-	-	-	-	-	-	1	1	1	1
49	C-IA-7410749-0-0	STRAIN RELIEF, CABLE	-	-	-	-	-	-	1	1	1	1
50	C-IA-7410752-0-0	STRAIN RELIEF, EXPANDER	-	-	-	-	-	-	1	1	1	1
51	C-IA-7410768-0-0	FILTER, SIDE	-	-	-	-	-	-	1	1	1	1
52	9008264-00	CABLE TIE, MOUNT	-	-	-	-	-	-	4	4	4	4
53	D-MD-7408861-0-0	SLIDE, CHASSIS	-	-	-	-	-	-	1	1	1	1
54	9007594-00	ADHESIVE	-	-	-	-	-	-	R	A	RA	RA
55	9006037-01	SCR, PHL PAN HD #8-32 X .38 LG	-	-	-	-	-	-	12	12	12	12
56	9006666-00	WASHER, FLAT .500 OD X .187 ID X .032THK	-	-	-	-	-	-	13	13	13	13
57	9006653-00	WASHER, FLAT .375 OD X .156 ID X .032THK	-	-	-	-	-	-	4	4	4	4
58	9006633-00	WASHER, INT. TOOTH LOCK #6	-	-	-	-	-	-	6	6	6	6
59	9006022-01	SCR, PHL PAN HD #6-32 X .38 LG	-	-	-	-	-	-	6	6	6	6
60	9007882-08	SCR, SOC HD CAP. #6-32 X .38 LG	-	-	-	-	-	-	2	2	2	2
61	9008072-00	WASHER, EXT TOOTH LOCK #8	-	-	-	-	-	-	1	1	1	1
62	9006563-00	NUT, KEPS #8-32	-	-	-	-	-	-	2	2	2	2
63	9007794-01	SCR, PHL PAN HD #6-32 X .69 LG	-	-	-	-	-	-	8	8	8	8
64	9008141-01	SERIAL TAG	-	-	-	-	-	-	1	1	1	1
65	A-DC-5309414-0-0	DECAL, UL APPROVAL	-	-	-	-	-	-	1	1	1	1
66	A-DC-7410910-0-0	CHASSIS DECAL	-	-	-	-	-	-	1	1	1	1
67	A-DC-5309413-0-0	DECAL, NFPA, TYPE II	-	-	-	-	-	-	1	1	1	1
68	D-MU-DWBE-0-1	MODULE UTILIZATION	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
69	9009110-00	MALE CONNECTOR	-	-	-	-	-	-	5	5	5	5
70	C-IA-7005820-3-0	CABLE CONN TYPE W011 TO W021	-	-	-	-	-	-	5	5	5	5
71	B-AD-7010108-0-0	CONNECTOR J1	-	-	-	-	-	-	1	1	1	1
72	9009547-01	FASTENER, TAPE (LOOP)	-	-	-	-	-	-	A	RA	RA	RA
73	A-PL-DWBE-0-15	SHIPPING LIST	1	1	1	1	1	1	1	1	1	1

REV.	
CHANGE NO.	
CHK	

DRN: JILSON	10/17/75	FIRST USED ON	DWBE	
CHK'D: GLEEZEN	10/17/75	TITLE	UNIT ASSY DWBE	
ENG. ED: REED	10/17/75	SIZE	C	CODE
PROJ. ENG. ED: REED	10/17/75	PL	DWBE-0-0	NUMBER
PROD. F: LASKEY	10/17/75	DIST.		REV. C
NEXT HIGHER ASSY.		SHEET	2	OF 2

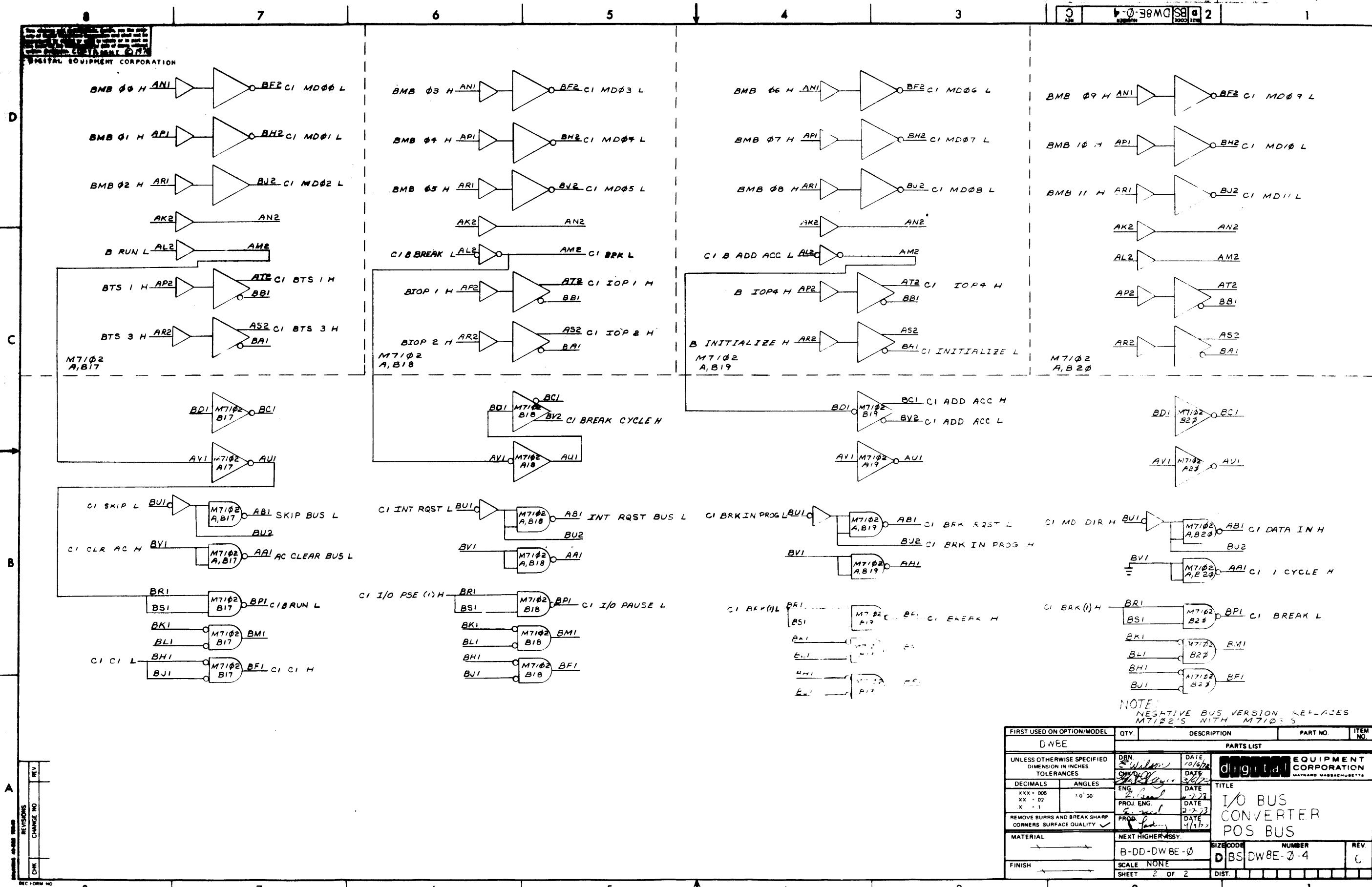
D
C
B
A



NOTE:
NEGATIVE BUS VERSION REPLACES
M7102'S WITH M7103'S

REV	DATE	BY	CHKD
1	5-1-73	J. D. LEARSON	
2	5-1-73	J. D. LEARSON	
3	5-1-73	J. D. LEARSON	
4	5-1-73	J. D. LEARSON	
5	5-1-73	J. D. LEARSON	
6	5-1-73	J. D. LEARSON	
7	5-1-73	J. D. LEARSON	
8	5-1-73	J. D. LEARSON	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DW8E				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN S. Wilson	DATE 10/1/72	EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
DECIMALS ANGLES		CHKD S. Wilson	DATE 3/7/73	
XXX - 005 ±0°30'		ENG S. Wilson	DATE 8-2-73	
XX - 02		PROJ. ENG. S. Wilson	DATE 2-2-73	
X - 1		PROD. S. Wilson	DATE 4/6/73	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER BUSY.		SIZE CODE	NUMBER
FINISH	B-DD-DW8E-0		DBSDW8E-0-4	REV. C
SCALE NONE		SHEET OF 2		DIST.



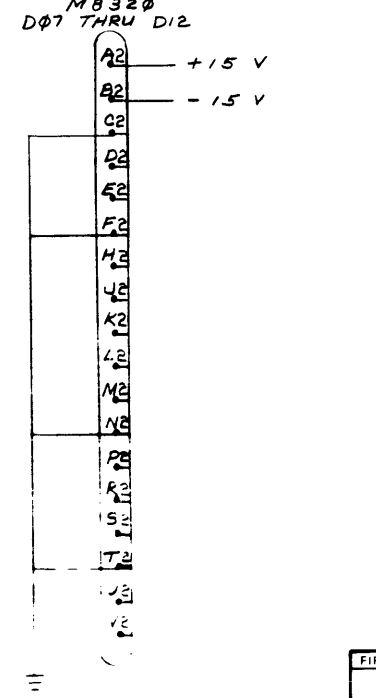
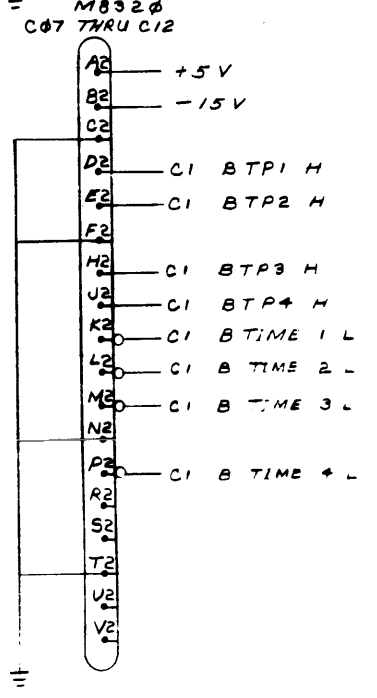
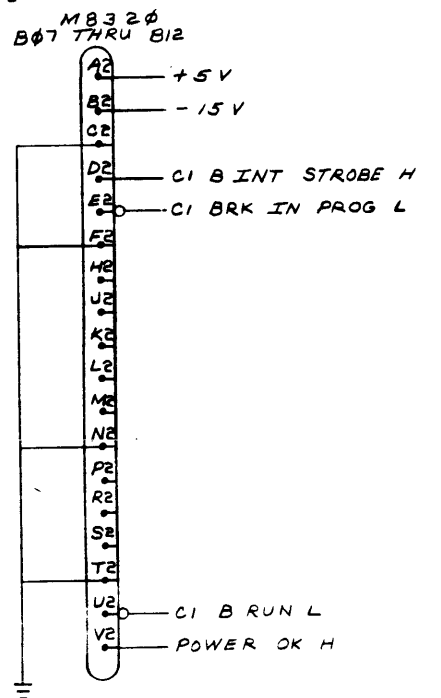
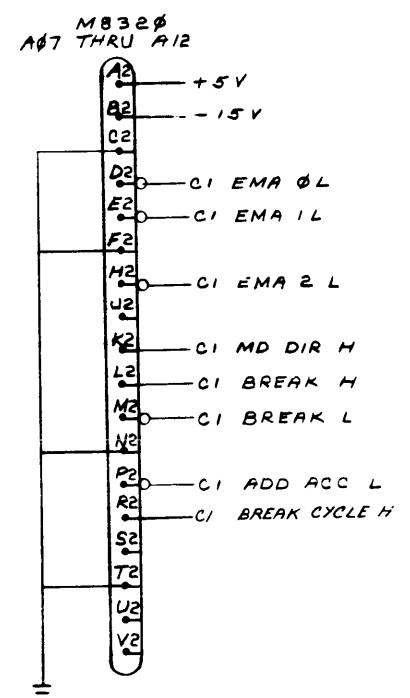
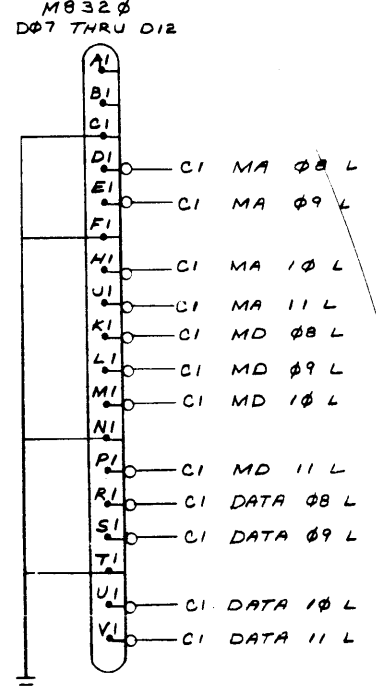
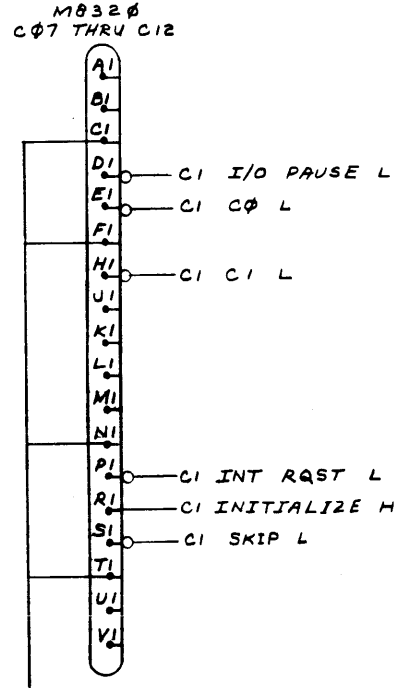
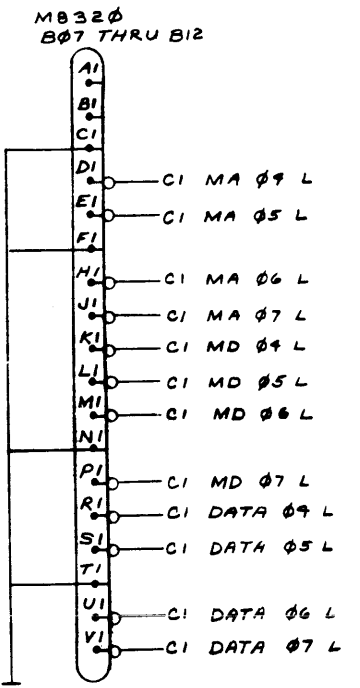
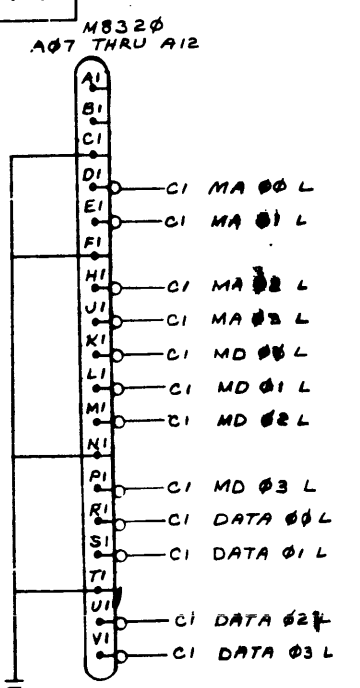
REV	NO
CHG	NO
CHK	NO
DES	NO

NOTE:
NEGATIVE BUS VERSION REFLECTS
M7102'S WITH M7103'S

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DW8E				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
XXX - 005	10' 30	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
XX - 02		TITLE		
X - 1		I/O BUS CONVERTER POS BUS		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL				
NEXT HIGHER ASSY.				
FINISH				
SCALE NONE				
SHEET 2 OF 2				
SIZE CODE		NUMBER		REV.
B-DD-DW8E-0		D BS DW8E-0-4		C

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NOTES:
1. THE SIGNAL NAMES OF AN OPTION WHICH ARE PLUGGED INTO THE CONVERTER SECTION WILL ASSUME THE PREFIX "CI"

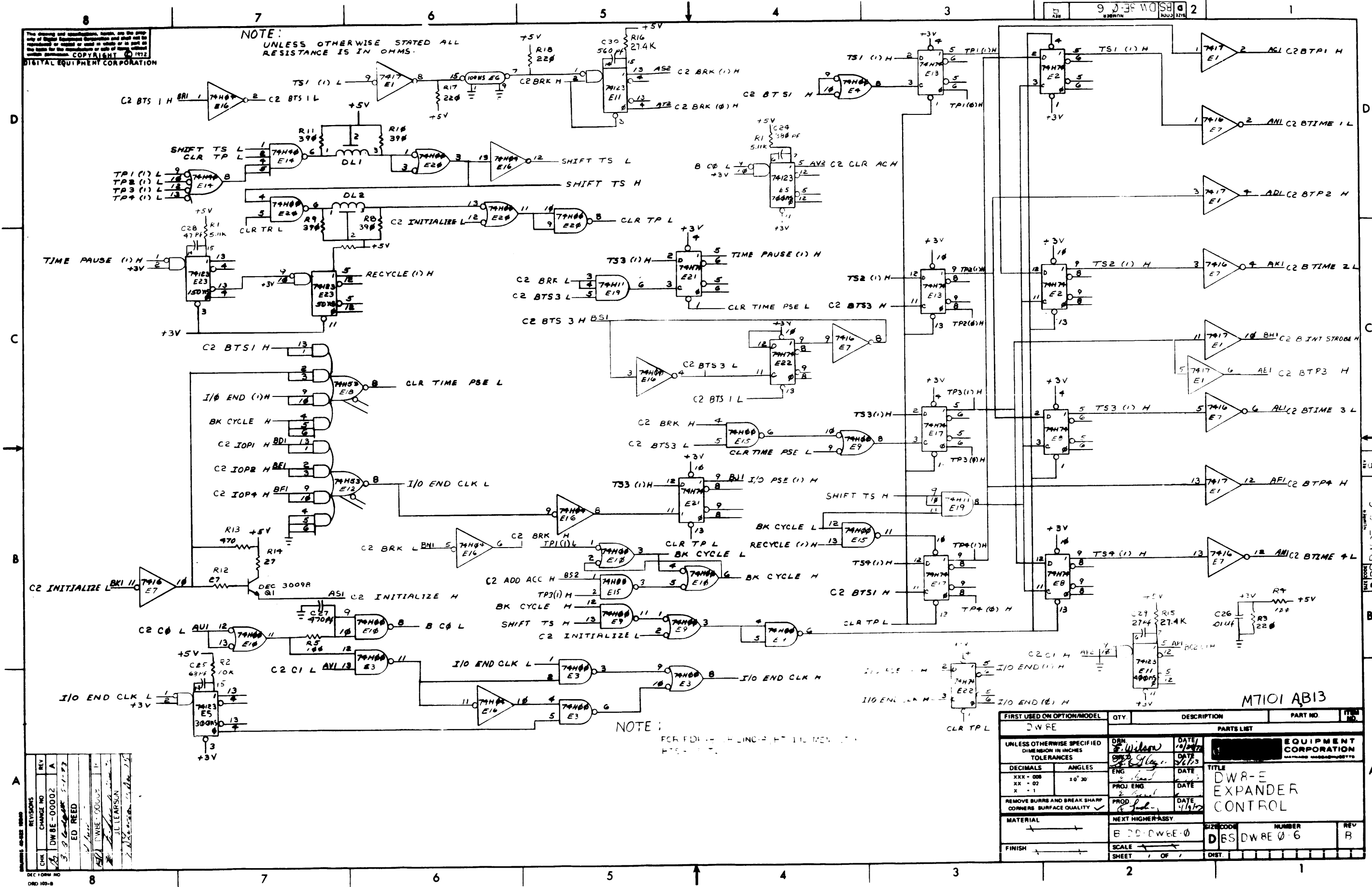


REV	DATE	BY	CHK'D	DATE
1	5-1-73	J. D. LEARSON		
2	5-1-73	J. D. LEARSON		
3	5-1-73	J. D. LEARSON		
4	5-1-73	J. D. LEARSON		
5	5-1-73	J. D. LEARSON		
6	5-1-73	J. D. LEARSON		
7	5-1-73	J. D. LEARSON		
8	5-1-73	J. D. LEARSON		

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.								
DW8E												
PARTS LIST												
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES:												
DECIMALS	ANGLES	TITLE										
.xxx ± .005	° 0' 30"	I/O BUS CONVERTER SIGNALS										
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1		<table border="1"> <tr> <td>DA</td> <td>2/1/73</td> </tr> <tr> <td>DATE</td> <td>3/16/73</td> </tr> <tr> <td>DATE</td> <td>2/2/73</td> </tr> <tr> <td>DATE</td> <td>4/19/73</td> </tr> </table>			DA	2/1/73	DATE	3/16/73	DATE	2/2/73	DATE	4/19/73
DA	2/1/73											
DATE	3/16/73											
DATE	2/2/73											
DATE	4/19/73											
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV								
	B-CI-DW8E-0	DIC	DW8E-0-5	C								
FINISH	SCALE	SHEET	OF	DIST.								
		1	1									

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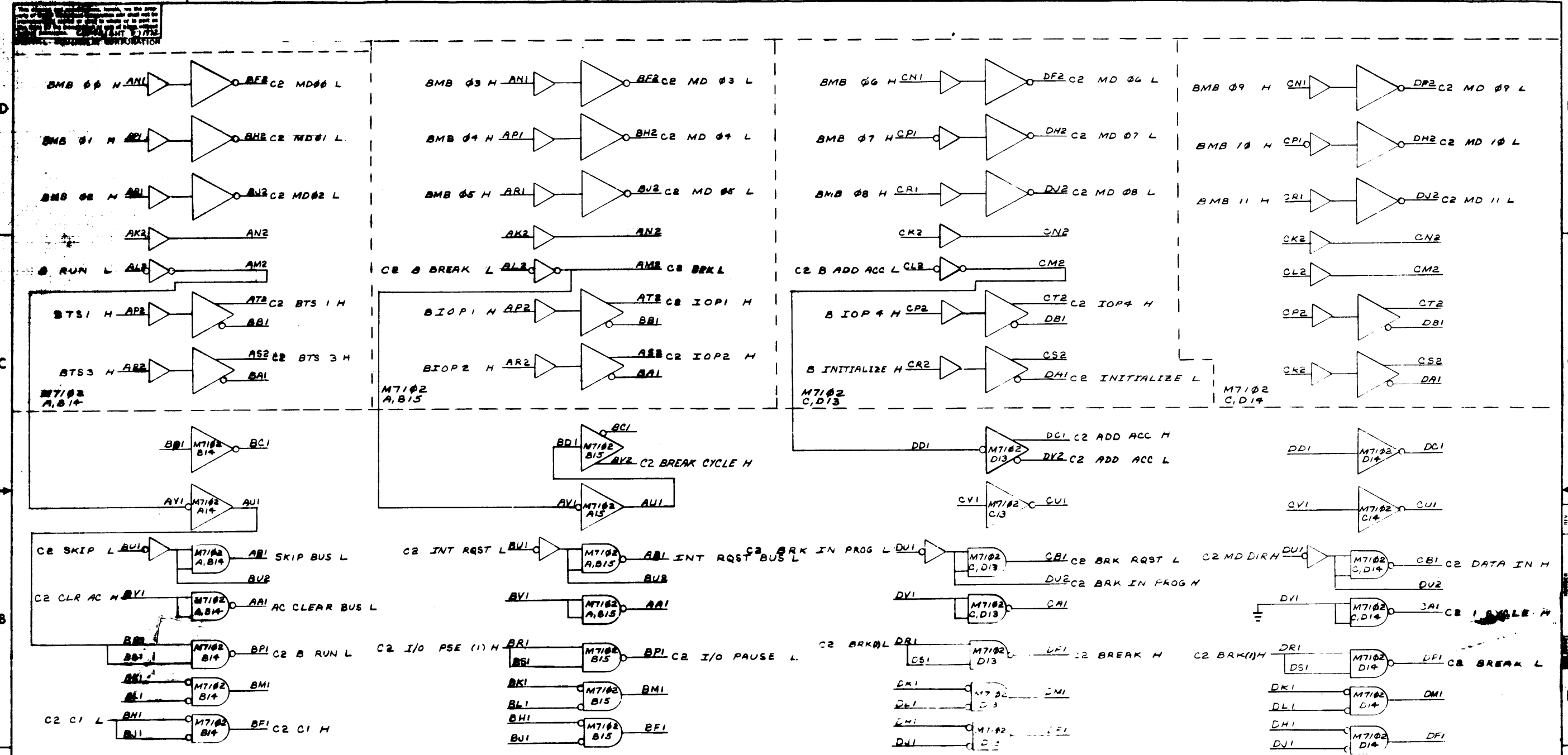
NOTE:
UNLESS OTHERWISE STATED ALL
RESISTANCE IS IN OHMS.



NOTE:
FOR EXPANDER CONTROL UNIT M7101 AB13
FIG. 1-1

REV	CHG	DESCRIPTION	DATE
1		DWBE-00002	
2		3. B. GARDNER 5-1-73	
3		ED REED	
4		DWBE-00002	
5		J. L. LEARSON	
6		2. B. GARDNER 11-16-73	

FIRST USED ON OPTION/MODEL		QTY	DESCRIPTION	PART NO.	ITEM NO.
DWBE					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DATE: 10/2/72		EQUIPMENT CORPORATION	
TOLERANCES		DATE: 5/1/73		MAYFIELD MASSACHUSETTS	
DECIMALS	ANGLES	ENG	DATE	TITLE	
XXX - 008	10° 30'	PROJ	DATE	DWBE-00002	
XX - 02		PROD	DATE	EXPANDER CONTROL	
X - 1		PROD	DATE: 4/1/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY					
MATERIAL		NEXT HIGHER ASSY		SIZE CODE	NUMBER
		B 00-DWBE-0		D	BSDWBE-06
FINISH		SCALE		SHEET	REV
		1 OF 1		DIST	R



NOTE:
NEGATIVE BUS VERSION REPLACES
M7102'S WITH M7103'S.

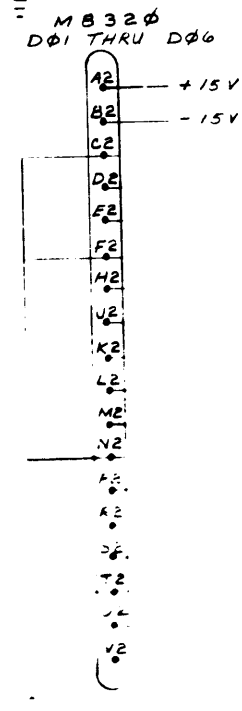
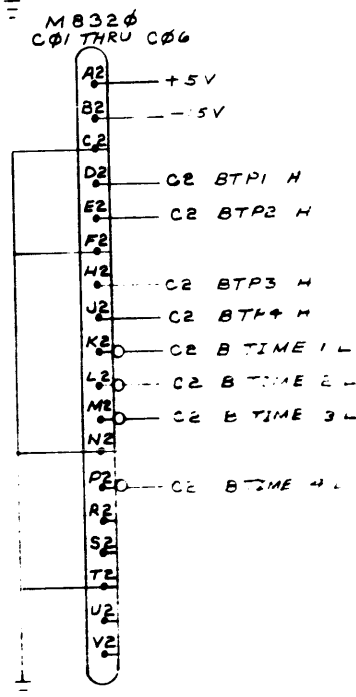
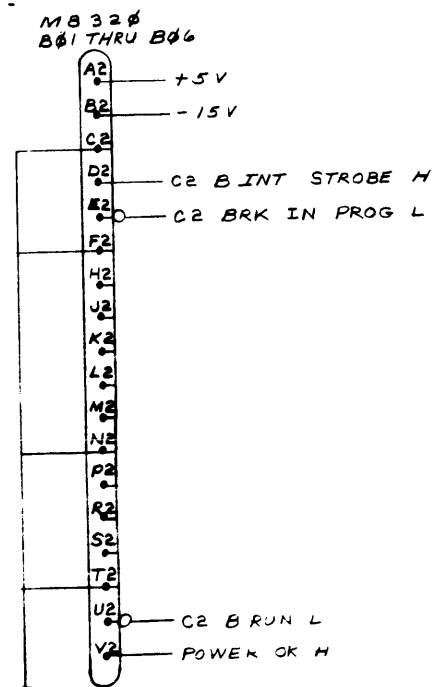
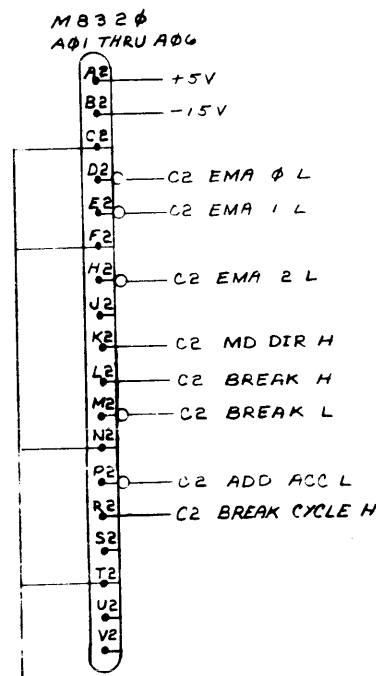
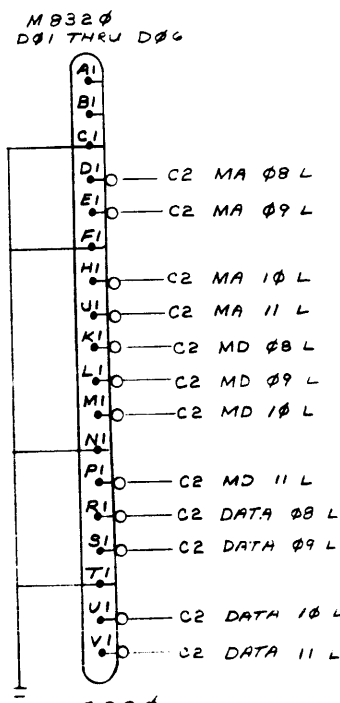
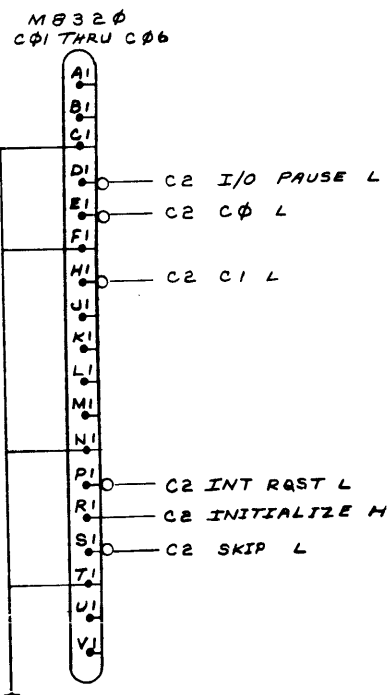
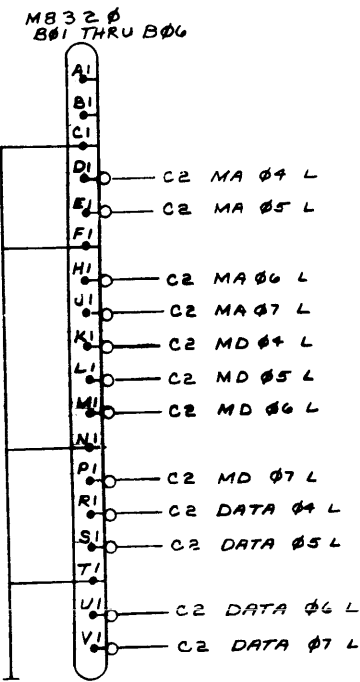
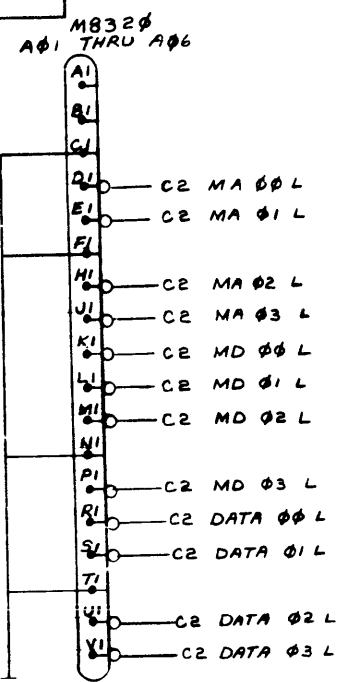
REV	CHG	NO

DEC 1 1968 NO
DBS DW8E-0

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DW8E				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DBN B. Wilson	DATE 10/3/72	 EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS ANGLES	ENG B. Wilson	DATE 10/3/72		
XXX - 008 XX - 02 X - 1	PROJ ENG B. Wilson	DATE 10/3/72	TITLE I/O BUS EXPANDER POS BUS	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD B. Wilson	DATE 10/3/72		
MATERIAL	NEXT HIGHER LAST	SIZE CODE	NUMBER	REV.
FINISH	B-DD-DW8E-0	D	DBS DW8E-0-7	C
	SCALE NONE			
	SHEET 2 OF 2	DIST.		

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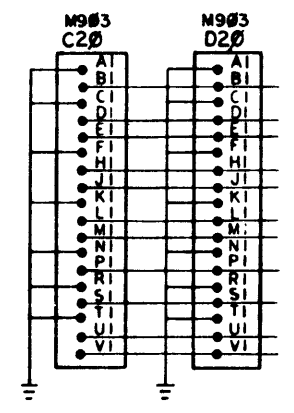
NOTES:
 1. THE SIGNAL NAMES OF AN OPTION WHICH IS PLUGGED INTO THE EXPANDER SECTION WILL ASSUME THE PREFIX "C2"



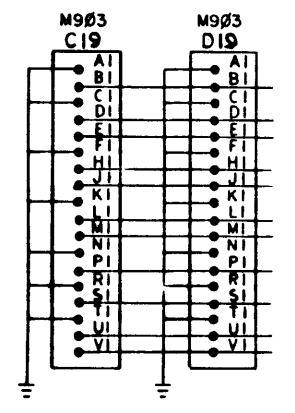
REV	DATE	BY	CHKD
1	5-1-73	J.D. LEARSON	
2	5-16-73	J.D. LEARSON	
3	5-16-73	J.D. LEARSON	
4	5-16-73	J.D. LEARSON	
5	5-16-73	J.D. LEARSON	
6	5-16-73	J.D. LEARSON	
7	5-16-73	J.D. LEARSON	
8	5-16-73	J.D. LEARSON	

FIRST USED OR OPT. MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
[WFE]				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IS IN INCHES	DRN	DATE	digital EQUIPMENT CORPORATION	
TOLERANCES	CHKD	DATE	MAINE, MASSACHUSETTS	
DECIMALS ANGLES	ENG.	DATE	TITLE	
.xx .005 .030	PROJ. ENG.	DATE	I/O BUS EXPANDER SIGNALS	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1	PROD.	DATE	REV	
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH			DIC DW8E-φ-8	C
	SCALE		DIST.	
	SHEET	OF		

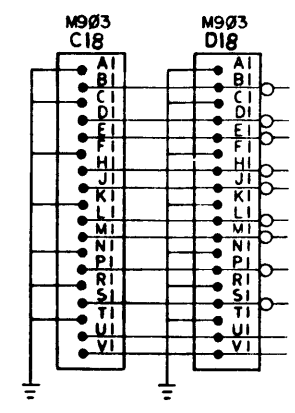
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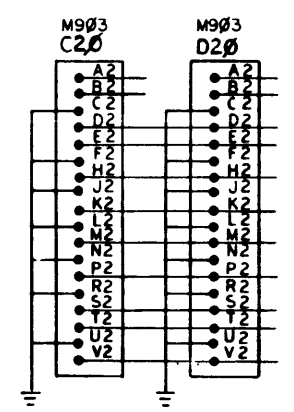
- BAC 00 (1) H
- BAC 01 (1) H
- BAC 02 (1) H
- BAC 03 (1) H
- BAC 04 (1) H
- BAC 05 (1) H
- BAC 06 (1) H
- BAC 07 (1) H
- BAC 08 (1) H



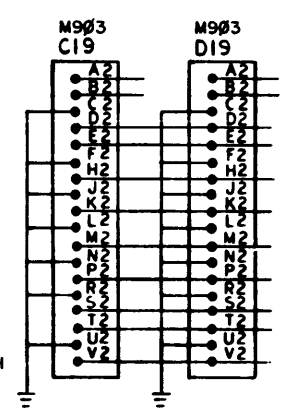
- BMB 00 (1) H
- BMB 01 (1) H
- BMB 02 (1) H
- BMB 03 (0) H
- BMB 03 (1) H
- BMB 04 (0) H
- BMB 04 (1) H
- BMB 05 (0) H
- BMB 05 (1) H



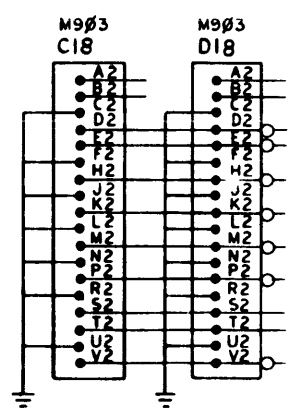
- AC 00 BUS L
- AC 01 BUS L
- AC 02 BUS L
- AC 03 BUS L
- AC 04 BUS L
- AC 05 BUS L
- AC 06 BUS L
- AC 07 BUS L
- AC 08 BUS L



- BAC 09 (1) H
- BAC 10 (1) H
- BAC 11 (1) H
- BIOP1 H
- BIOP2 H
- BIOP4 H
- BTS 3 (1) H
- BTS 1 (1) H
- B INITIALIZE H



- BMB 06 (0) H
- BMB 06 (1) H
- BMB 07 (0) H
- BMB 07 (1) H
- BMB 08 (0) H
- BMB 08 (1) H
- BMB 09 (1) H
- BMB 10 (1) H
- BMB 11 (1) H



- AC 09 BUS L
- AC 10 BUS L
- AC 11 BUS L
- SKIP BUS L
- INT RQST BUS L
- AC CLEAR BUS L
- B RUN L
- B TT INST H *
- LINE MUX L *

NOTES:
 1. SIGNALS MARKED WITH AN ANTERISK ARE NOT USED IN PDP 8/L BUT RESERVED FOR SPECIFIC USE IN PDP 8/I.
 2. ~~BC08A IN C15 USED ONLY ON A PDP 8 OR LINC 8 AND ADD IC02 FROM C15T2 TO GND.~~

REV. NO.	REV.
1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H

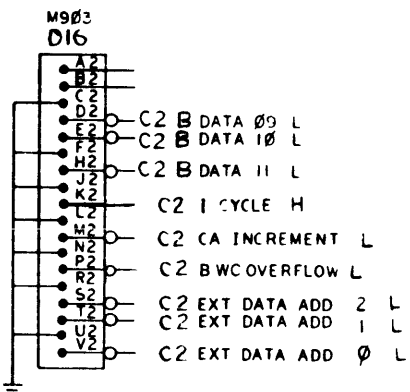
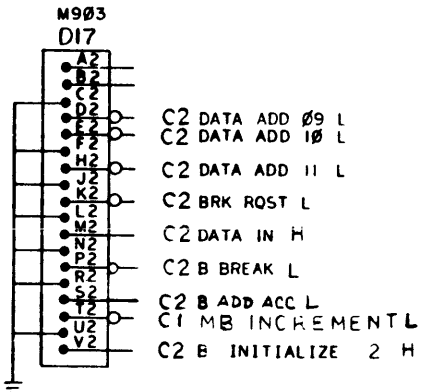
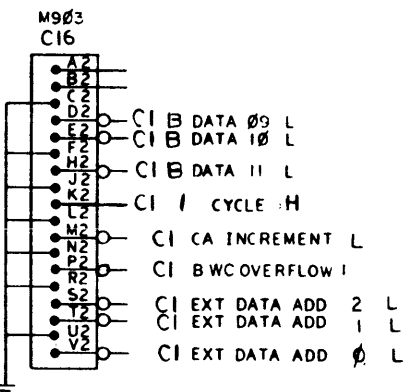
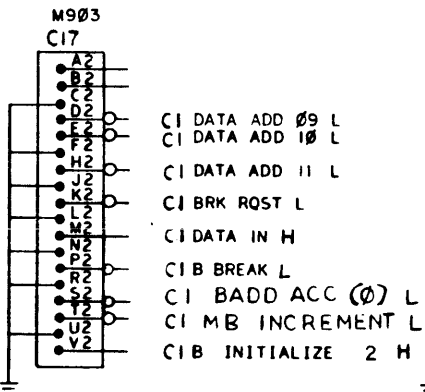
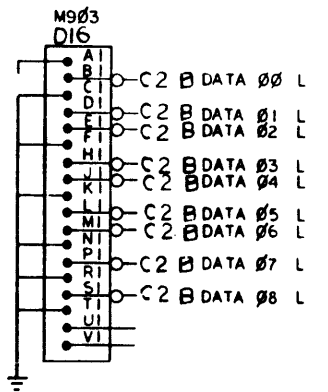
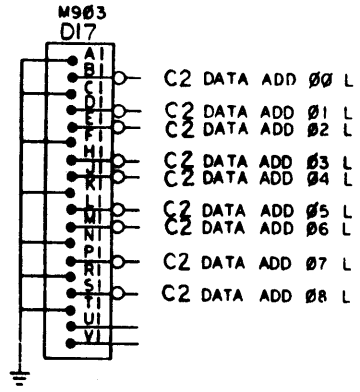
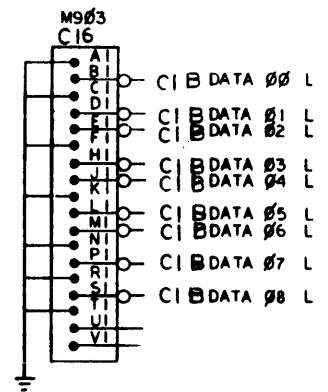
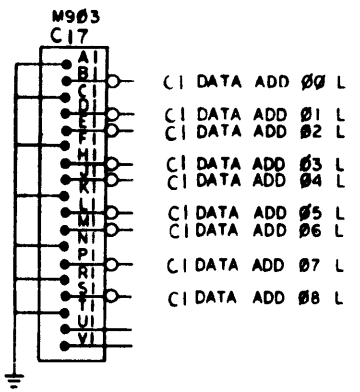
ED REED
 J.D. LEARSON

FIRST USED ON OPTION/MODEL
 DW8E

DO NOT SCALE DRAWING
 UNLESS OTHERWISE SPECIFIED
 DIMENSION IN INCHES
 TOLERANCES
 DECIMALS FRACTIONS ANGLES
 ± .005 ± .0005 ± 0'30"
 FINAL SURFACE FINISH
 REMOVE BURRS AND BREAK SHARP CORNERS
 MATERIAL
 FINISH

QTY	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DIGITAL EQUIPMENT CORPORATION			
TITLE: 1/0 CONNECTORS			
NEXT-HIGHER ASSY: B-DD-DW8E-0			
SCALE: 1 OF 2			
SITE CODE: DW8E-0-2			
REV. B			

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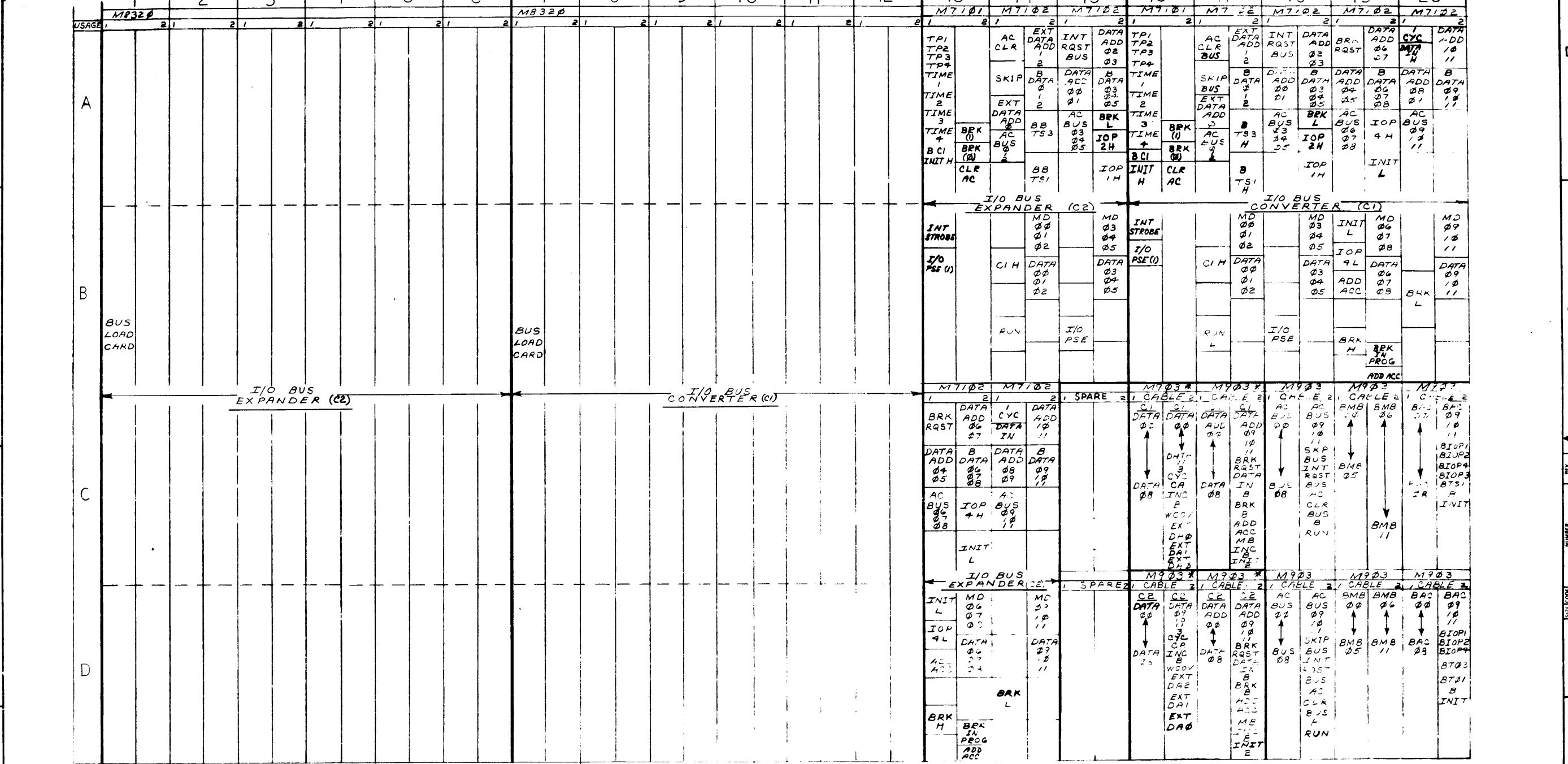
REV	
CHANGE NO	
CHK	

FIRST USED ON OPTION/MODEL
DW 8E

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
± .005 ± .004 ± .020
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP EDGES
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO	ITEM NO
PARTS LIST			
DIGITAL EQUIPMENT CORPORATION			
TITLE			
I/O CONNECTORS			
NEXT HIGHER ASSY			
F-11-DW 8E-0			
SCALE	SHEET	DIST	REV
1	1		B

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- NOTE:
1. IN NEGATIVE BUS VERSION THE M7102'S ARE REPLACED BY M7103'S
 2. * DATA CABLES IN C16 AND C17 ARE FOR I/O BUS CONVERTER (C1) DATA CABLES IN D16 & D17 ARE FOR I/O BUS EXPANDER
 3. ~~SC08-A CABLE IN C15~~ FOR RDP-8 OR ~~SC08-B ONLY~~
 4. QUAD-SLOTS 07-12 AND SLOTS A,B16-A,B20 ARE THE BASIC CONVERTER SECTION. (SIGNAL NAMES PREFIXED BY "C")
 5. QUAD-SLOTS 01-06 AND SLOTS A,B13-A,B15 & C,D13-C,D14 ARE THE EXPANDER SECTION. (SIGNAL NAMES PREFIXED BY "E")

REV	CHANGE NO	DATE	BY	CHKD
A	00002	5-2-72	J.D. LEARSON	
B	00008	5-1-73	J.D. LEARSON	
C	00010	5-1-73	J.D. LEARSON	

QTY	DESCRIPTION	PART NO.	ITEM NO.
	PARTS LIST		
	FIRST USED ON OPTION/ MODEL: DWE		
	DO NOT SCALE DRAWING		
	UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		
	TOLERANCES: DECIMALS FRACTIONS ANGLES		
	±.005 ±.124 ±.030		
	FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		
	MATERIAL		
	FINISH		
	DATE: 4/23/72		
	DATE: 3/1/73		
	DATE: 2-7-73		
	DATE: 2-7-73		
	DATE: 4/4/72		
	NEXT HIGHER ASSY: B-DD-DW8E-0		
	SCALE: NONE		
	SHEET: OF		

digital EQUIPMENT CORPORATION
MAYFELD MASSACHUSETTS


MODULE UTILIZATION

REV. B

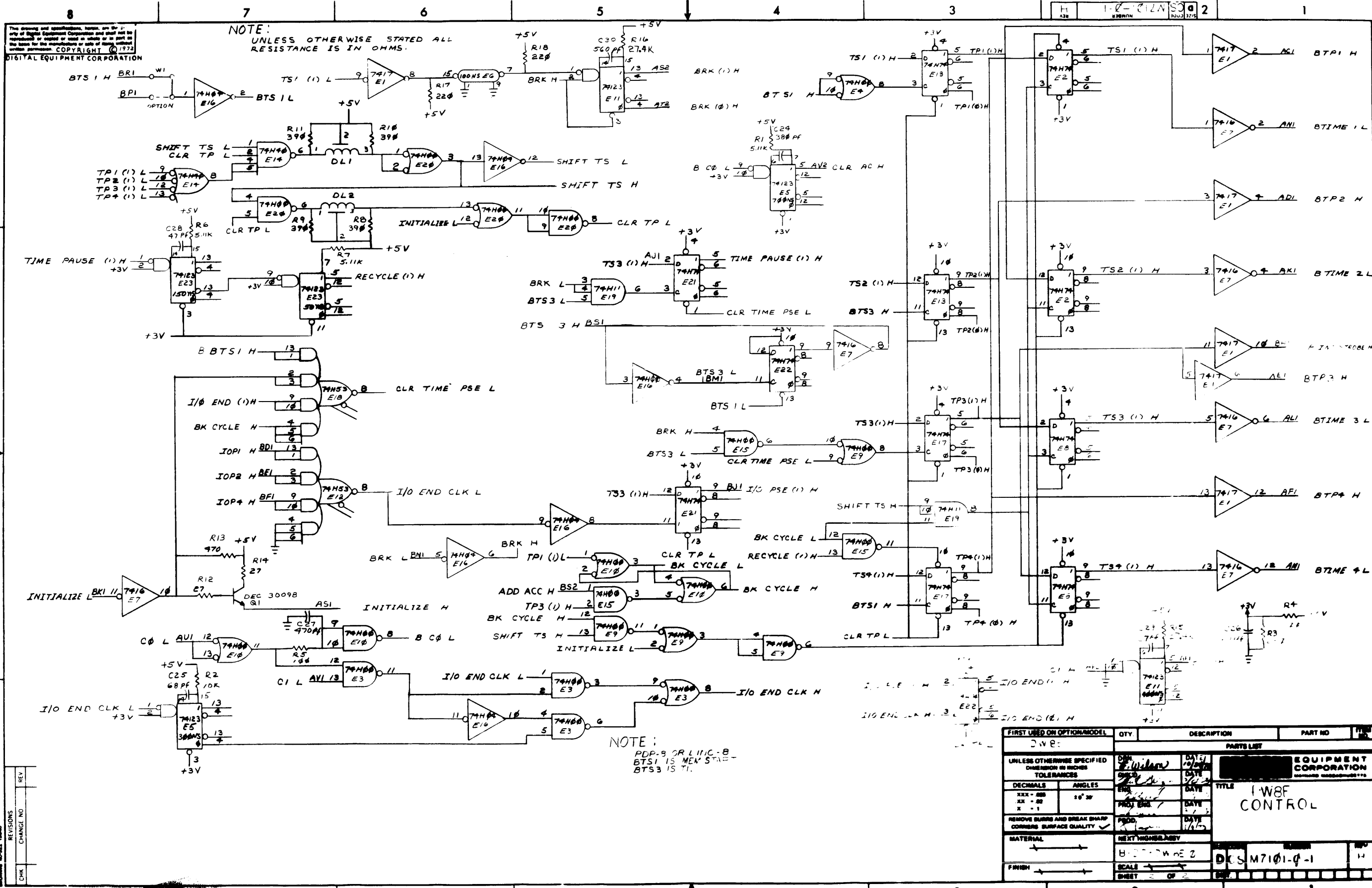
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DIGITAL EQUIPMENT CORPORATION

REV. C NUMBER DW8E-0-11 SIZE CODE K WL 2 1

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DW8E				
PARTS LIST				
DRN <i>[Signature]</i>	DATE 3/2/73	<div style="text-align: center;">  <p>digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS</p> </div>		
CHK'D. <i>[Signature]</i>	DATE 3/27/73			
ENG. <i>[Signature]</i>	DATE 4/1/73			
PROJ. ENG. <i>[Signature]</i>	DATE 4/1/73			
PROD. <i>[Signature]</i>	DATE 4/1/73			
NEXT HIGHER ASSEMBLY B-DD-DW8E-0		TITLE DW8 WIRE LIST		
SCALE + + +	SHEET 1 OF 1	SIZE CODE K WL	NUMBER DW8E-0-11	REV. C
		DIST.		

REVISIONS	CHANGE NO.	REV.
<i>[Signature]</i>	DW8E-00002	A
B. S. Lodge 5-1-73		
ED REED		
<i>[Signature]</i> 5-8-73		
<i>[Signature]</i>	DW8E-00007	B
J. Chardon 7-16-73		
EL REEL		
<i>[Signature]</i> 8-6-73		
<i>[Signature]</i>	DW8E-00008	C
<i>[Signature]</i>		
J.D. LEARSON		
<i>[Signature]</i> Dec 15, 1975		



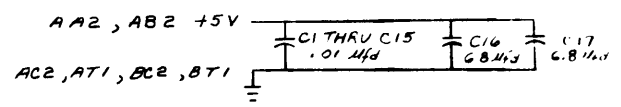
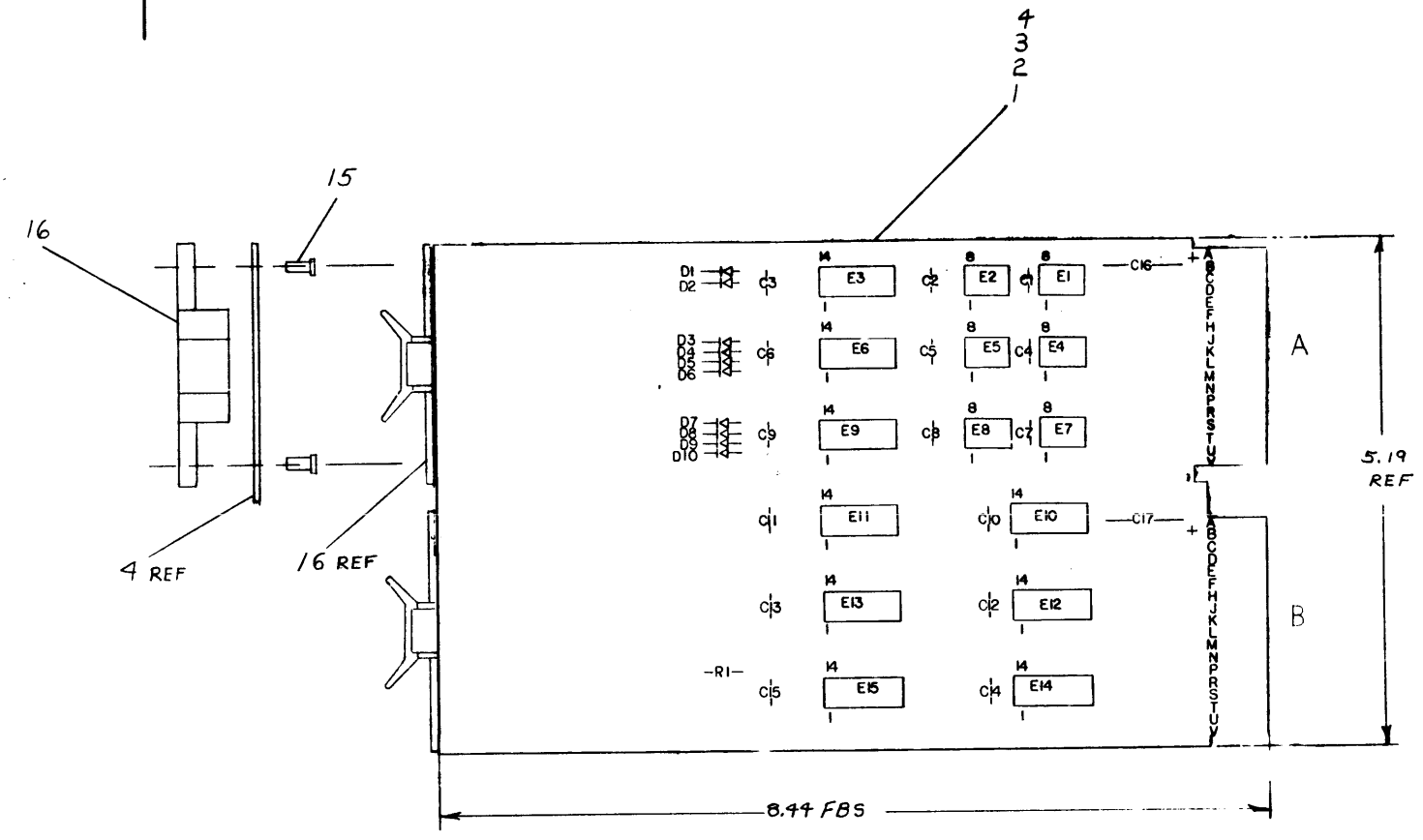
REV	
CHANGE NO	
CHK	

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	REV
DVE:				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
XXX - .005	10° 30'	EQUIPMENT CORPORATION		
.XX - .002		TITLE		
.X - .001		I-WBF CONTROL		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL		NEXT WORKS/LABY		
FINISH		SCALE		
		SHEET		

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NOTES:
1. UNLESS OTHERWISE STATED ALL RESISTANCE IS IN OHMS.

REF	X-Y COORDINATE HOLE LOCATION	R-CO-M7102-0-1	ITEM NO.
REF	ASSY/DRILLING HOLE LAYOUT	E-AH-M7102-0-5	2
REF	MODULE ECO HISTORY	B-MH-17102-0-3	3
1	ETCHED CIRCUIT BOARD	8009866	4
2	C16, C17	CAP 6.8UF 35/ 10% S.TANT	1005306
15	C1 THRU C15	CAP .01UF 100V 20% DISC	1001610
10	D1 THRU D10	DIODE D664	1100114
1	R1	RES. 3.3K 1/4, 5%	1300439
3	E3, E6, E9	I.C. DEC 384	1909486
1	E11	I.C. DEC 74H04	1909931
1	E15	I.C. DEC 8881	1909705
1	E13	I.C. DEC 7416	1909928
3	E10, E12, E14	I.C. DEC 380A	1909485
6	E1, E2, E4, E5, E7, E8	I.C. DEC 75452	1910645
4	EYELET	9006732	15
2	HANDLE, FLIP CHIP MAGENTA	9008337-06	16

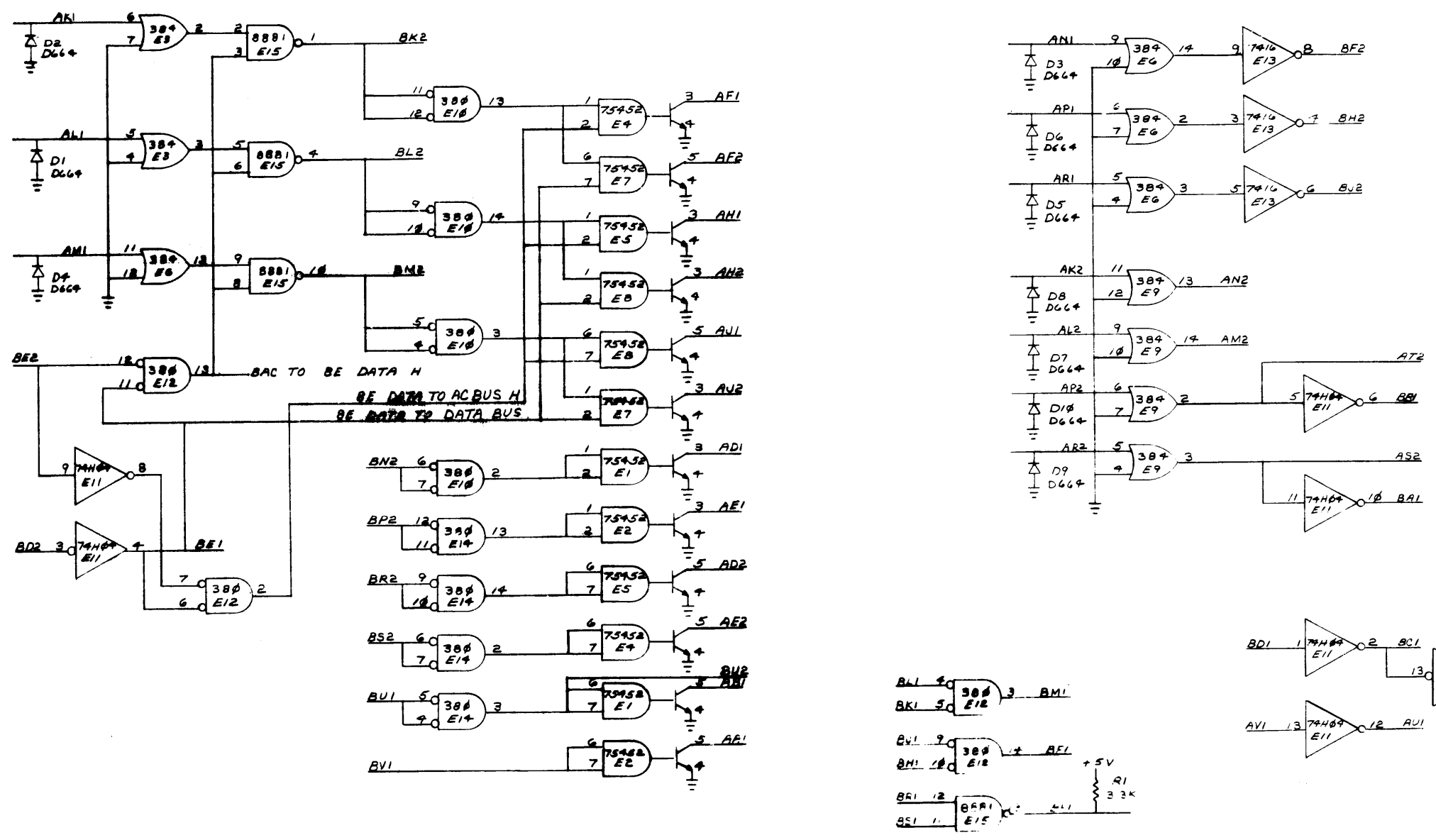


IC TYPE	QTY	LOC
I.C. DEC 75452	1	8
I.C. DEC 384	1	8
I.C. DEC 380	1	8
IC TYPE	GND	+5V

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

IC PIN LOCATIONS

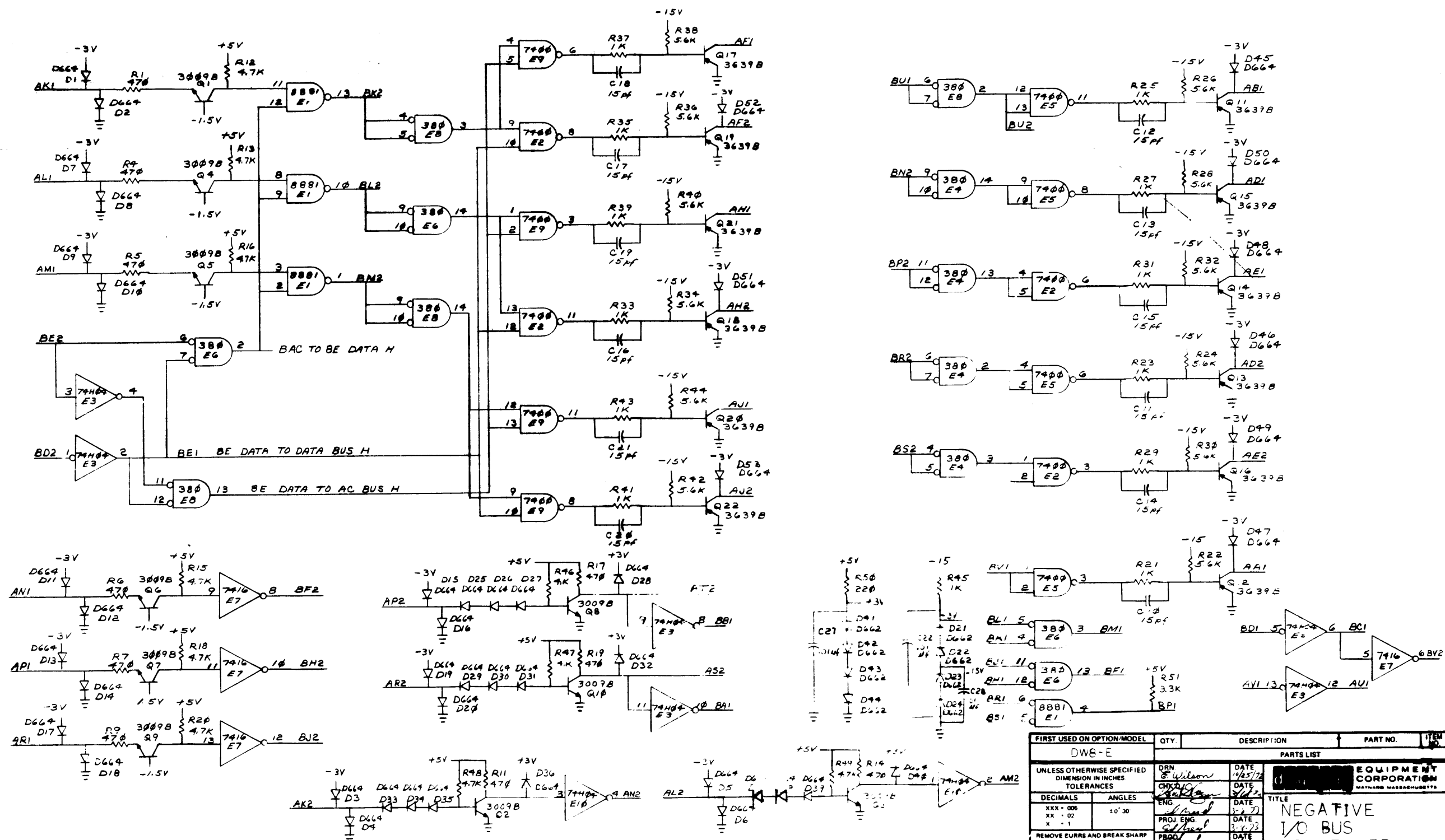
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
FIRST USED ON OPTION MODEL				
ETCH BOARD REV D				
EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS				
TITLE POSITIVE I/O BUS CONVERTER				
NEXT HIGHER ASSY F-DD-CW-P-E				
DEC NO. EIA NO. DEC NO. EIA NO.				
SCALE NONE				
SEMICONDUCTOR CONVERSION CHART				
SHEET 1 OF 2				



FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DW8-E		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN <i>Wilson</i>	DATE 10/17/72	EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	ANGLES	ENG <i>Wilson</i>	DATE 3/16/72	TITLE
XXX - 005 XX - 02 X - 1	±0°30	PROJ. ENG <i>Wilson</i>	DATE 5-2-72	POSITIVE I/O BUS CONVERTER
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	✓	PRD <i>Wilson</i>	DATE 4/19/72	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE NUMBER REV		
	B-DC-DW8-E	DICS M7102-0-1 C		
FINISH	SCALE NONE	SHEET 2 OF 2		
		DIST.		

REV.	CHANGE NO.	DATE

DIGITAL EQUIPMENT CORPORATION



REV	CHG	NO	DATE

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DWB-E				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE 10/25/72		
XX - .006	10' 30"	DATE 11/2/72		
XX - .02		DATE 11/23/72		
X - .1		DATE 4/19/73		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY	TITLE		
		NEGATIVE I/O BUS CONVERTER		
FINISH		SIZE CODE	NUMBER	REV.
		B-DD-DWB-E	DCSM7103-0-1	F
		SHEET 2 OF 2	DIST.	

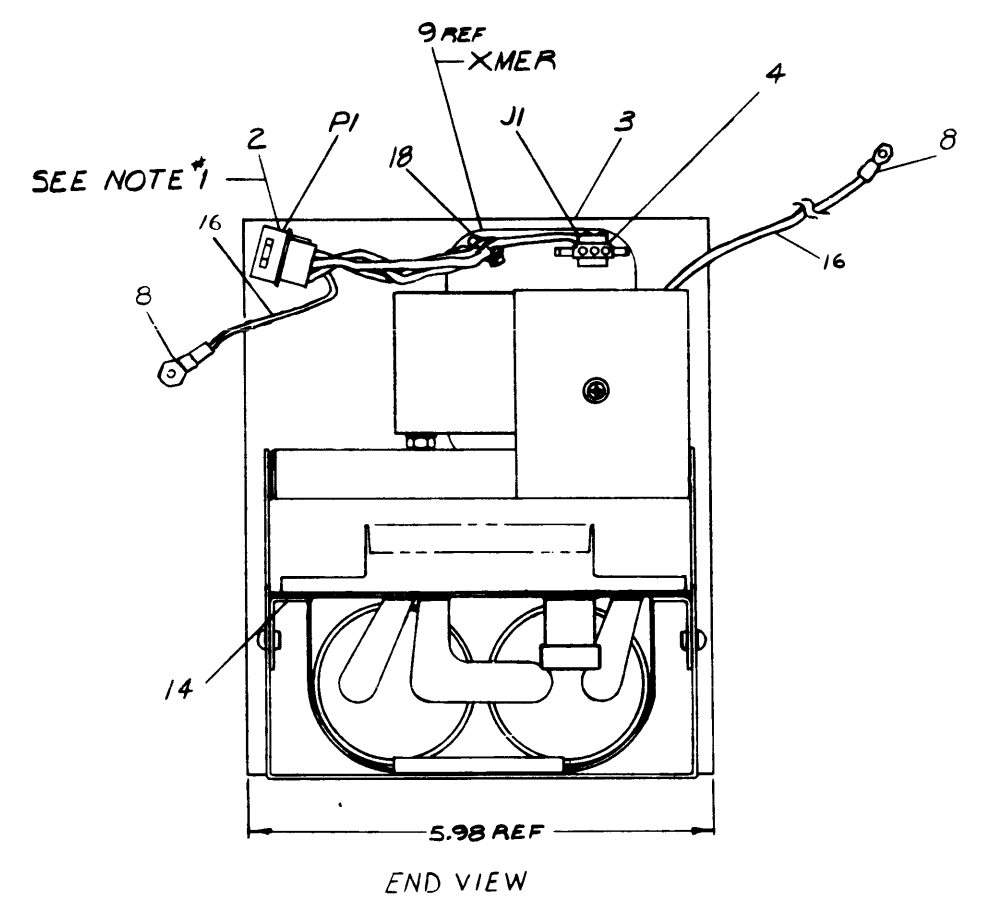
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WIRE TABLE						
ITEM NO.	AWG	COLOR	FROM:		TO:	
			CONNECTION	WITH	CONNECTION	WITH
9		BLU	XMER	-	J1-3	12
		BLU		-	J1-2	12
		BLU		-	J1-1	12
		BLK		-	P1-3	13
		RED		-	P1-4	13
		WHT		-	P1-1	13
9		BLK	XMER	-	P1-2	13
22	18	GRN	XMER	SOLDER	-	21
22	18	GRN	P1-5	13	-	21

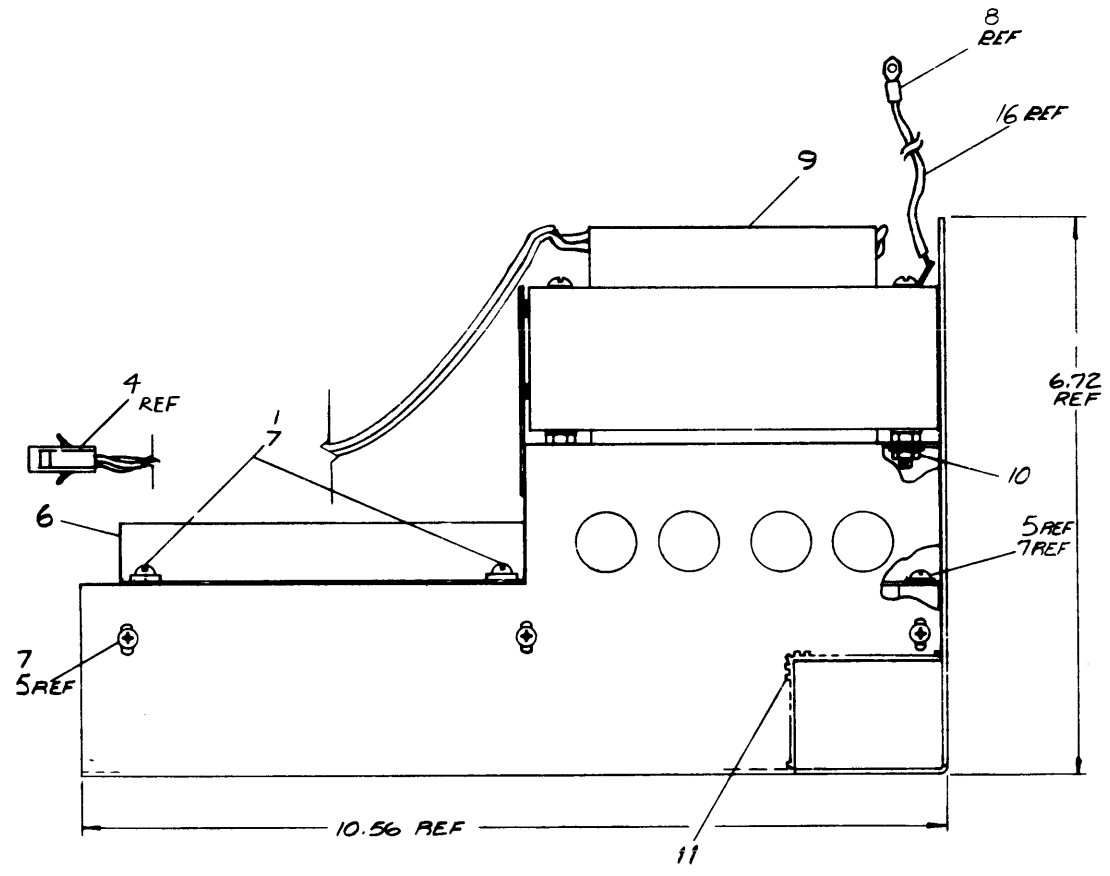
LENGTH OF WIRE TO BE 1 1/2 IN. ± 1/2 IN. (REF. ONLY)

LENGTH OF WIRES TO BE 6 IN. ± 1/2 IN. (REF. ONLY)

NOTES:
 1. LENGTH OF WIRES TERMINATING TO P1 (ITEM 2) ARE TO BE 3 INCHES ± 1/2 INCH.
 2. COMPONENTS J1 & P1, TO BE LABELED WITH COMPONENT IDENTIFIERS, USING BRADY MARKERS.



END VIEW



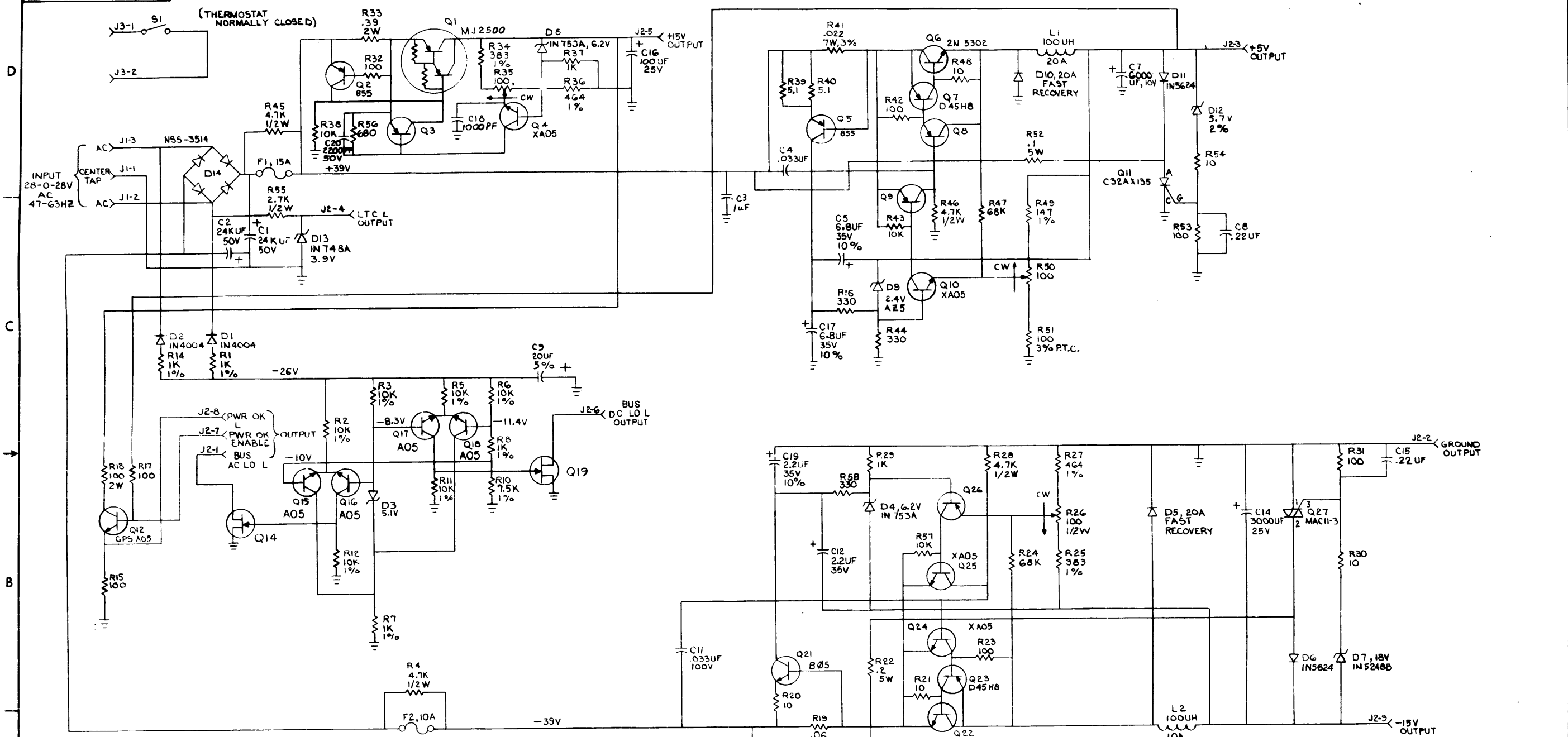
QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	TIE WRAP RADUIT SST-18	9007031	18
A/R	WIRE 18 AWG BLK	9107360-00	17
7/R	WIRE 18 AWG GREEN	9107360-55	16
1	STRAIN, RELIEF	9008442	15
6	BRKT, SUPPORT ECH BD	900832000	14
5	CONTACT, MATE-N-LOK (M/L)	1209370-01	13
3	CONTACT, MATE-N-LOK (M/L)	1209370-01	12
A/R	GROMMET	9007621	11
4	NUT, KEP # 8-32	9006563	10
1	XMER (TRANSFORMER)	1610601-02	9
2	TERMINAL SOLDERLESS	9007929	8
12	WASHER, INT TOOTH LOCK	9006693	7
1	REGULATOR BD ASSY	91A-3407200-0	6
8	SCR, PHIL PAN HD # 6-32 X .25	9006020-1	5
1	CONN, MATE-N-LOK 3 CKT	1209350-08	4
1	CHASSIS, P.S.	1209350-08	3
1	CONN, MATE-N-LOK 6 CKT	1209351-06	2
4	SCR, PHIL PAN HD # 6-32 X .50	9006024-1	1

CAUTION
 CHANGE COULD AFFECT U.L. LISTING

FIRST USED ON OPTION/MODEL DWR-E		QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES					
DECIMALS	ANGLES	DATE 2/15/73			
.XXX - .005	± 0° 30'	DATE 2/16/73			
.XX - .00		DATE 2-17-73			
.X - .1		DATE 2-17-73			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY					
MATERIAL		NEXT HIGHER ASSY.			
FINISH		D-U-DWR-E-0			
SCALE		DAD 7009287-0-0			
SHEET		REV.			

REVISIONS
 CHK CHANGE NO. REV.

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UNLESS OTHERWISE INDICATED:
 1% RESISTORS ARE 1/8W
 VOLTAGES ARE TAKEN AT NO LOAD WITH 115 VAC LINE
 VOLTAGES ARE ± 10% TAKEN BY A ≥ 10MΩ METER
 TRANSISTORS = XA55

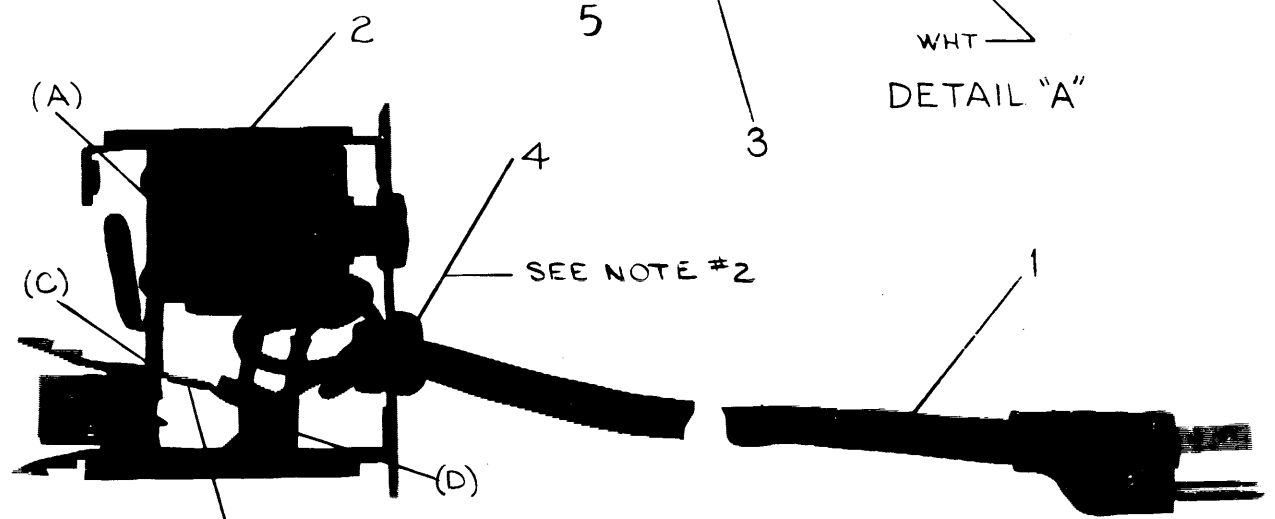
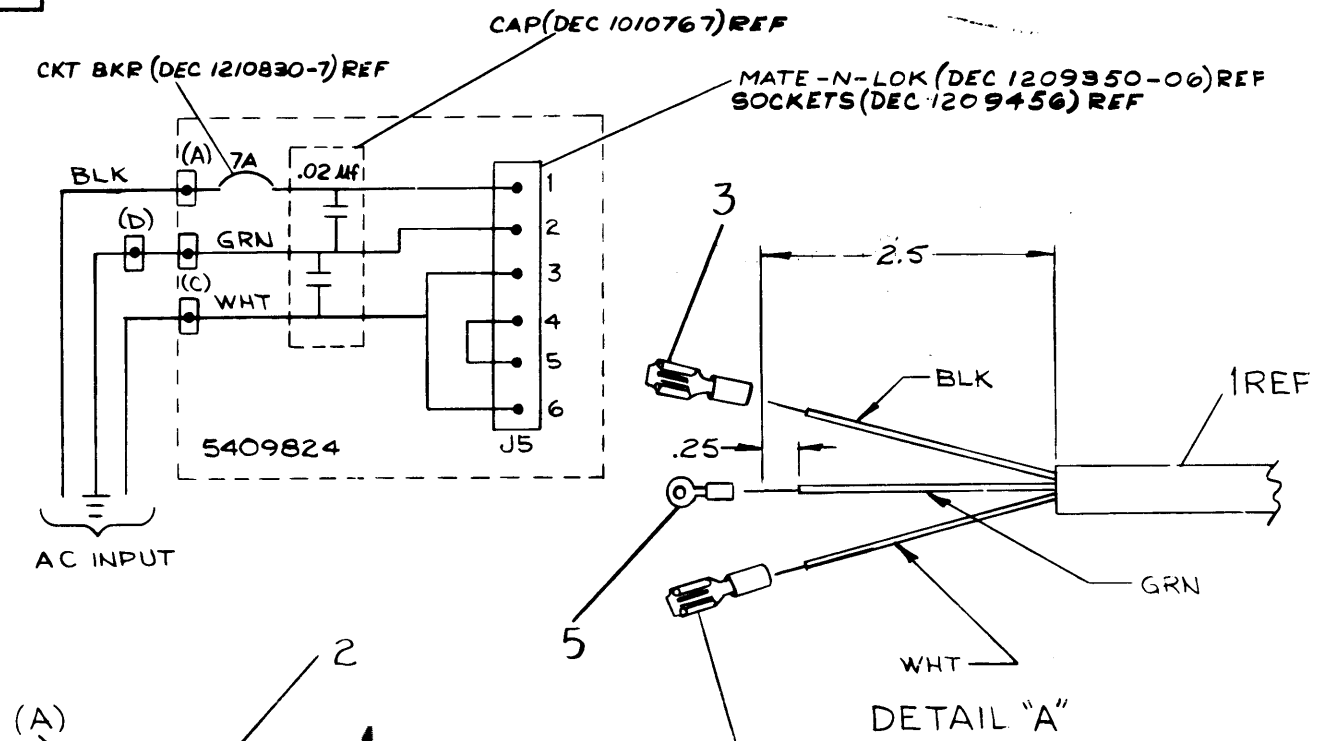
REV	DATE	BY	CHKD	DESCRIPTION
1	12-20-71	R. WOLFF	R. WOLFF	REVISED
2	1-1-72	R. BURTON	R. BURTON	REVISED
3	1-1-72	R. BURTON	R. BURTON	REVISED
4	1-1-72	R. BURTON	R. BURTON	REVISED
5	1-1-72	R. BURTON	R. BURTON	REVISED
6	1-1-72	R. BURTON	R. BURTON	REVISED
7	1-1-72	R. BURTON	R. BURTON	REVISED
8	1-1-72	R. BURTON	R. BURTON	REVISED

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.												
PARTS LIST																
ETCH BOARD REV E																
<table border="1"> <tr> <td>DRN. FIGURA</td> <td>DATE 12-20-71</td> </tr> <tr> <td>CHK'D. ANACRY MOORE</td> <td>DATE 1-21-72</td> </tr> <tr> <td>ENG. R. WOLFF</td> <td>DATE 12-25-71</td> </tr> <tr> <td>PROJ. ENG. R. WOLFF</td> <td>DATE 12-25-71</td> </tr> <tr> <td>PROD. R. WOLFF</td> <td>DATE 12-25-71</td> </tr> <tr> <td colspan="2">NEXT HIGHER ASSY</td> </tr> </table>					DRN. FIGURA	DATE 12-20-71	CHK'D. ANACRY MOORE	DATE 1-21-72	ENG. R. WOLFF	DATE 12-25-71	PROJ. ENG. R. WOLFF	DATE 12-25-71	PROD. R. WOLFF	DATE 12-25-71	NEXT HIGHER ASSY	
DRN. FIGURA	DATE 12-20-71															
CHK'D. ANACRY MOORE	DATE 1-21-72															
ENG. R. WOLFF	DATE 12-25-71															
PROJ. ENG. R. WOLFF	DATE 12-25-71															
PROD. R. WOLFF	DATE 12-25-71															
NEXT HIGHER ASSY																
TITLE REGULATOR BOARD FOR H740				EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS												
SEMICONDUCTOR CONVERSION CHART				SCALE SHEET 1 OF 2												
DCS 5409728-0-1 Y				REV. NO.												

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NOTES:

- CONNECT ITEM #1 (POWER CORD) AND ITEM #2 (AC INPUT BOX) PER CIRCUIT SCHEMATIC.
- FOR INSTALLATION USE HEYCO #29 STRAIN RELIEF PLIERS



SEE NOTE #2
SEE DETAIL "A"
3 REF
SHOWN WITHOUT COVER

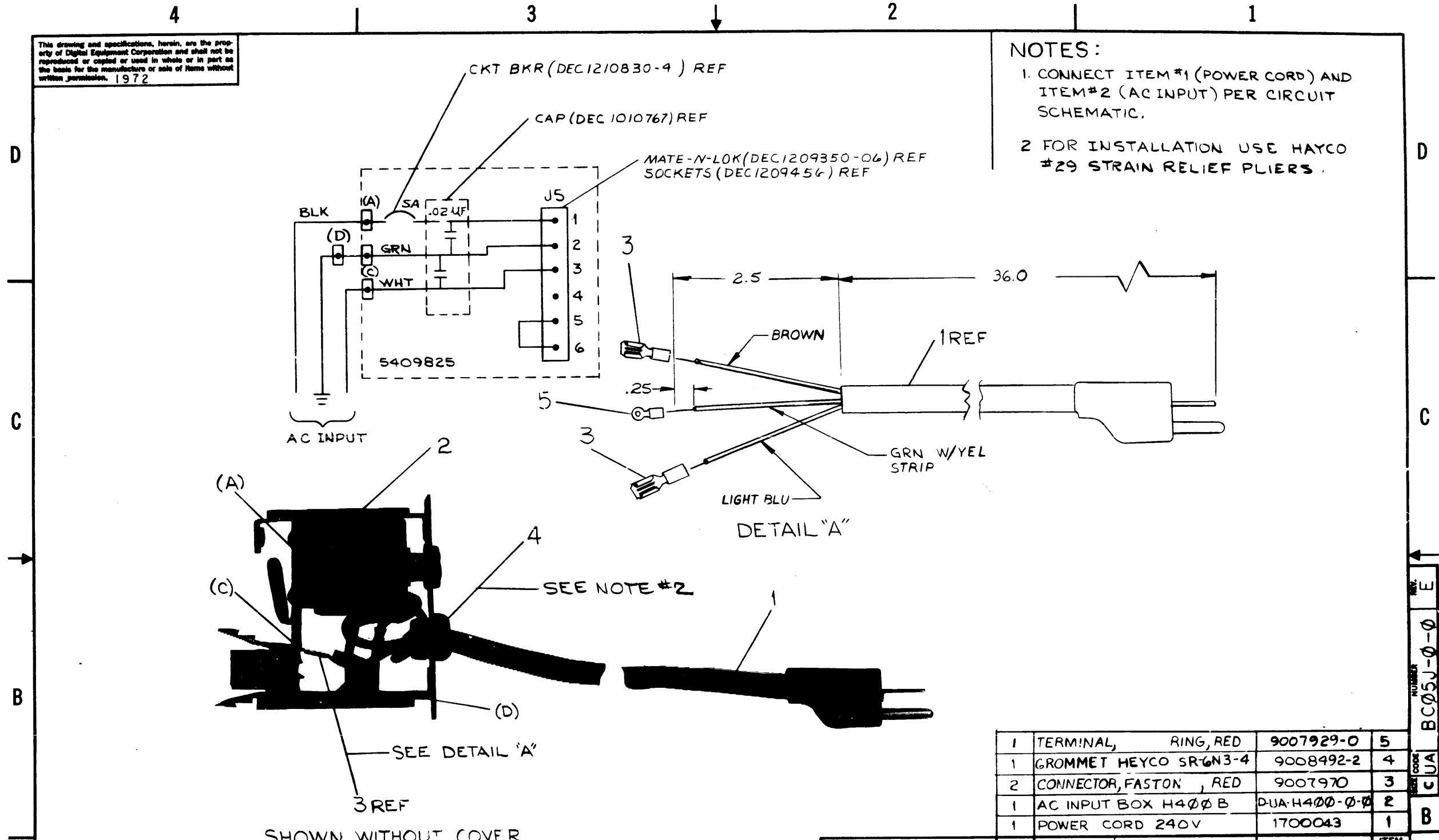
1	TERMINAL, RING, RED	9007929-0	5
1	STRAIN RELIEF SR-6N3-4	9008492-2	4
2	CONNECTOR, FASTON, RED	9007970	3
1	AC INPUT BOX H400A	D-UA-H400-0-0	2
1	POWER CORD 120V	1700015-6	1

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
11/05			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN <i>T. Guillin</i> DATE 12-27-71 CHK'D <i>H. Hartman</i> DATE 1-8-72 ENG. <i>David DeMionello</i> DATE 1-9-72 PROJ. ENG. <i>Russell H. Hays</i> DATE 1-7-72 PROD. <i>R.K. Petersen</i> DATE 1/7/72	
DECIMALS	ANGLES	TITLE	
XXX - .005		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS LINE SET 115V AC 7 AMP	
XX - .02	± 0' 30		
X - .1			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		SIZE CODE	
MATERIAL		NUMBER	
NEXT HIGHER ASSY.		REV.	
FINISH		C UA	BC05H-0-0
SCALE		DIST.	
SHEET OF			

REV.	CHANGE NO.	REV.
A	00001	A
B	00002	B
C	00003	C
D	00004	D
E	00005	E

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NOTES:
 1. CONNECT ITEM #1 (POWER CORD) AND ITEM #2 (AC INPUT) PER CIRCUIT SCHEMATIC.
 2. FOR INSTALLATION USE HAYCO #29 STRAIN RELIEF PLIERS.



REV.	CHANGE NO.	REV.
A	BC05J-00001	A
B	H400-00002	B
C	BC05J-00002	C
D	BC05J-00003	D
E	BC05J-00005	E

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	TERMINAL, RING, RED	9007929-0	5
1	GROMMET HEYCO SR-6N3-4	9008492-2	4
2	CONNECTOR, FASTON, RED	9007970	3
1	AC INPUT BOX H400 B	DUA-H400-0-0	2
1	POWER CORD 240V	1700043	1

FIRST USED ON OPTION/MODEL 11/05	PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN <i>T. Guilin</i> DATE 12-27-71	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS TITLE LINE SET 230V AC 4 AMP
DECIMALS .XXX = .005 .XX = .02 .X = .1	ENG. <i>David DeWitt</i> DATE 1-7-72	
ANGLES ± 0° 30'	PROJ. ENG. <i>Ronald H. Harty</i> DATE 1-7-72	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	PROD. <i>R.K. Peterson</i> DATE 1/7/72	
MATERIAL + + +	NEXT HIGHER ASSY. + + +	SIZE CODE C UA
FINISH + + +	SCALE 1 OF 1	NUMBER BC05J-0-0
		REV. E

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION				DATE 3/9/73		
TITLE DW8E ENGINEERING SPECIFICATION						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	CHANGE PER ECO	DW8E-00003	REED	4/73	<i>Ed Reed</i>	5/73
B	CHANGE PER ECO	00008	LEARSON	DEC-73	<i>John Learson</i>	12/73

ENG	ED REED	APPD	STEVE GROSS	SIZE	CODE	NUMBER	REV
				A	SP	DW8E-0-12	B

DEC FORM NO 16-(381)-1022-N370
DRA 107

ENGINEERING SPECIFICATION				CONTINUATION SHEET			
TITLE DW8E ENGINEERING SPECIFICATION							
1. General Description							
1.1 The DW8E I/O Bus Converter accepts the I/O bus and Data Break Bus of both negative and positive PDP-8 family machines (LINC8, PDP8, PDP8/L, PDP8I and PDP12) and SIMULATES THE PDP-8E OMNIBUS FORMAT. The unit mounts on CHASSIS slides in a standard nineteen-inch relay rack or DEC option cabinet.							
1.2 The DW8E primarily provides an interface between a Family-of-8 Bus and an RK8F Disk System (see section 7) enabling the bi-directional transfer of: Programmed IOT's via the PDP8 accumulator; and Data Break information via the single cycle data break facility.							
2. Physical Specification							
2.1 The DW8E Bus Converter is provided with chassis slides for mounting in DEC standard 19-inch cabinetry.							
Operating Temperature: 32°- 130°F (0°- 55°C) @ 0% to 90% humidity, non-condensing							
Power Requirements: DW8E-PC and NC 95 to 130 volts self-contained 47 to 63 Hz 4 Amps maximum DW8E-PD and ND 185 to 250 volts self-contained 47 to 63Hz 2½ Amps maximum							
Power Dissipation: 500WATTS							
Power Supply: H740 +15V@1 Amp +5V @ 17 Amps -15V @ 5 Amps							
				SIZE	CODE	NUMBER	REV
				A	SP	DW8E-0-12	B

DEC FORM NO 16-(381)-1022-N370
DRA 108

SHEET 2 OF 19

ENGINEERING SPECIFICATION				CONTINUATION SHEET			
TITLE DW8E ENGINEERING SPECIFICATION							
Module Types: M7101, M7102, M7103, M8320							
Capacity: Five quad bus slots expandable to ten quad bus slots with DW8E-PX or DW8E-NX expander unit.							
Altitude: See operating specification of the peripherals installed on the DW8E.							
Variations: DW8E-PC 115VAC, positive bus DW8E-PD 230VAC, positive bus DW8E-NC 115VAC, negative bus DW8E-ND 230VAC, negative bus DW8E-PX expander unit for either DW8E-PA or PB DW8E-NX expander unit for either DW8E-NA or NB							
Type of cables: BC08B for DM04, PDP-8/L, and PDP12 BC08D for DM01, PDP-8, Linc-8 and PDP-8/I							
NOTE: Seven foot cables are supplied. A positive bus PDP-8I equipped with a DM04 will require BC08B cables.							
3. Interface							
3.1 The DW8E provides space for five quad modules. Programmed I/O (accumulator transfers) as well as data break transfers are handled by the basic unit. As many options and/or peripherals may be controlled via the DW8E as module slots permit. However, only one high-speed (data break) device can be used in the basic unit. The basic unit consists of: 1-M7101, 1-M8320 and 4-M7102's (or 4-M7103's).							
3.2 The unit can be expanded as follows: If only one high-speed (data break) device is to be mounted inside the DW8E there are 5 quad bus slots available in the basic unit (DW8E-NC/PC or ND/PD).							
If two high-speed (data break) devices are to be mounted, or if additional slots are required, the expander section (DW8E-NX/PX) is required to be added to the unit. This puts, additionally, 1-M7101, 1-M8320 and 4-M7102's (or 4-M7103's) into the basic unit.							
				SIZE	CODE	NUMBER	REV
				A	SP	DW8E-0-12	B

DEC FORM NO 16-(381)-1022-N370
DRA 104

SHEET 3 OF 19

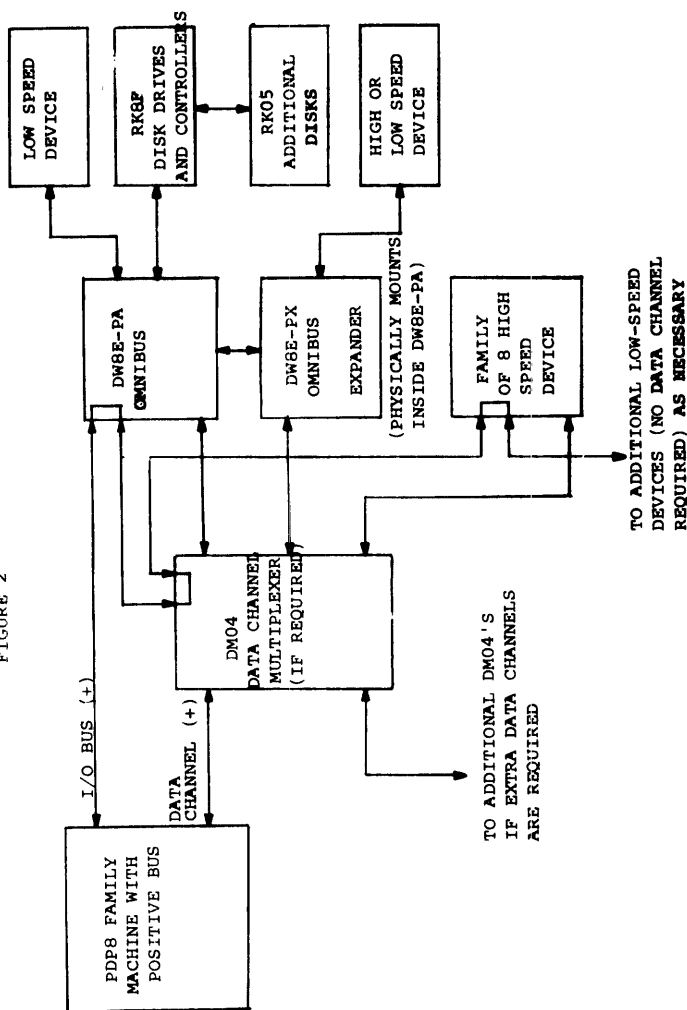
ENGINEERING SPECIFICATION				CONTINUATION SHEET			
TITLE DW8E ENGINEERING SPECIFICATION							
				SIZE	CODE	NUMBER	REV
				A	SP	DW8E-0-12	B

DEC FORM NO 16-(381)-1022-N370
DRA 108

SHEET 4 OF 19

TITLE DWBE ENGINEERING SPECIFICATION

DWBE CONFIGURATION CHART (POSITIVE BUS)
FIGURE 2



SIZE	CODE	NUMBER	REV
A	SP	DWBE-0-12	B

TITLE DWBE ENGINEERING SPECIFICATION

3.3 Figures 1 + 2 show how the unit configures. Note that the DWBE does not perform the data channel multiplexing. Should two or more high-speed devices (data break) be used on a PDP system (either inside the DWBE or via the normal positive or negative I/O bus), a DM01 or DM04 data channel multiplexer is still necessary.

3.4 The DWBE must be the first device on the I/O bus and must have the highest priority slot when used with either a DM01 or DM04.

3.5 A DW08-A or DW08-B I/O bus converter must not be used to drive a DWBE.

3.6 PDP-8 Installation & LINC-8

3.6.1 PDP-8 ECO #8M-00007 must be installed in the PDP-8. This replaces timing signal B72A with B MEM START on the I/O Bus cable. (ECO #LINC8M-00008 IN THE LINC-8)

3.6.2 All system diagnostics should be run prior to, and after, installation of the ECO to assure no latency problems.

3.6.3 Margins should be run on the PDP-8 while running the RK8E Drive and Control Test, "MAINDEC-08-DHRKB-B-PB".

3.6.4 M7101 revision F, or modified version D or E boards, should be used in the DWBE, or later.

4. Programming

No specific IOT's are associated with the DWBE bus converter. The function of the converter is to translate the PDP-8 family external bus format into the OMNIBUS format.

4.1 The execution of a 6XX0 on the DWBE bus converter would be considered a NOP by the processor since no input or output would be executed.

4.2 I/O cycles will occur in 4.25 micro sec.

4.3 The skip bus may only be used to increment the PC by one location.

SIZE	CODE	NUMBER	REV
A	SP	DWBE-0-12	B

TITLE DWBE ENGINEERING SPECIFICATION

4.4 The time to complete non I/O cycles will be: 1.5 micro sec. for 8, 81. 1.6 micro sec. for 8L.

4.5 Only single cycle data break is allowed. A data break cycle will precede a fetch cycle only, and will be followed by at least one machine cycle.

4.6 The peripheral will halt with time state 3 asserted.

SIZE	CODE	NUMBER	REV
A	SP	DWBE-0-12	B

TITLE DWBE ENGINEERING SPECIFICATION

5. Omnibus Signals

The following signals are available.

Signal Function

Data Bus	Data 0-11
Memory Add	MA 0-11, EMA0-2
Memory Data	MD 0-11
Time States	TS1, TS2, TS3, TS4
Time Pulses	TP1, TP2, TP3, TP4, Int Strobe
I/O Cables	C0, C1, SKIP, Int RQST, I/O PAUSE
Memory	MD DIR
DATA BREAK	BRK IN PROG
MISC	Run, Power OK, Initialize, +5, +15, -15, GND

5.1 Timing Diagrams

- 5.1.1 OPR Cycle
see fig. 3
- 5.1.2 I/O Cycle
see figs. 4, 5, 6
- 5.1.3 Data Break Cycle
see fig. 7

6. Limitations

The following signals are NOT available.

Signal Function

Memory Control	ALL SIGNALS
Processor States	ALL SIGNALS
Programmer console	ALL SIGNALS
Programmed I/O	C2, Buss strobe NOT LAST XFER
Data Break	INT IN PROG CPMA Disable Over Flow Break Data Control MS IR Disable MA MS Load Control

SIZE	CODE	NUMBER	REV
A	SP	DWBE-0-12	B

TITLE DW8E ENGINEERING SPECIFICATION

7. Equipment Requirements

7.1 The following peripherals may be used with the DW8E

- 7.1.1 RK8F ✓
- 7.1.2 DB8E ✓
- 7.1.3 KL8E ✓
- 7.1.4 KL8J ✓
- 7.1.5 RK8E ✓

7.2 RK8F Requirements

7.2.1 All Family of 8 machines must have a data break facility.

7.2.2 The M7105 Major Registers module of the RK8E must be modified to M7105-YB, and M7104 to M7104-YA.

7.3 DB8E Requirements

7.3.1 NONE

7.4 KL8E Requirements

7.4.1 IOT code 0 must not be used.

7.5 KL8F Requirements

7.5.1 IOT code 0 must not be used.

SIZE	CODE	NUMBER	REV
A	SP	DW8E-0-12	B

TITLE DW8E ENGINEERING SPECIFICATION

8. DW8-E Theory of Operation

The configuration of the DW8-E I/O bus converter is to use PDP-8 I/O bus timing to generate Time States 1, 2, 3, & 4 (TS1, TS2, TS3, TS4); Time Pulses TP1, TP2, TP3, TP4; and signals necessary to transfer information in or out of approved 8/E omnibus options via AC transfers (IOT's) or Data Break Transfers (single-cycle).

Figures 3, 4, 5, 6 & 7 illustrate the OPR, IOT, & BREAK cycle timing which is generated by the control card M7101.

OPR CYCLE - Figure 3 shows the timing sequence of a basic Operate or memory reference instruction. Referring to a control module print (C-CS-M7101-0-1, D-BS-DW8-E-3 or D-BS-DW8-E-5) the control is initially set to Time State 1 by **INITIALIZE L**.

Timing is sequenced by the level changes of **BTS 1** and **BTS 3** from the PDP8 computer. These level changes generate the TP pulses, which in turn generate **SHIFT TS H**. This shifts the control to the next time state. **CLR TP L** then clears the TP pulse floos after the shift.

When the control is in Time State 1, **BTS 1** going away sets **TP1**. **SHIFT TS H** shifts the control to Time State 2 and **CLR TP L** clears **TP1**. In Time State 2, **BTS 3** going high causes the shift to Time State 3. If the machine is halted the control will stop in Time State 3. **TP3**, Time State 4 and **TP4** occur during **BTS 1** Time of the following cycle.

In Time State 3, **BTS 3** going away sets **TIME PAUSE**. **BTS 1** of the next cycle generates **CLR TIME PSE L** which clears **TIME PAUSE** and issues **TP3**, shifting to Time State 4. 150 NS after **TIME PAUSE** is cleared, **RECYCLE** issues **TP4** which shifts it again to Time State 1.

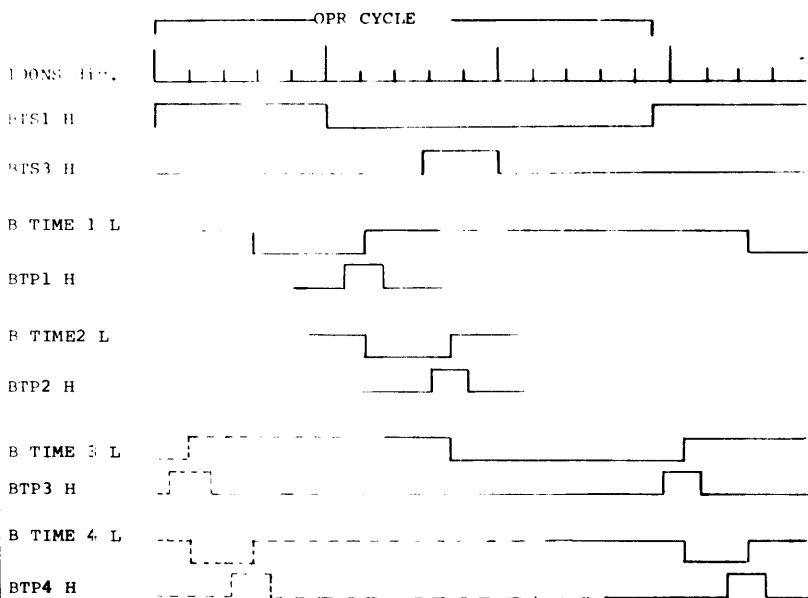
Note in the delay circuitry for **SHIFT TS L** and **CLR TP L** that these signals are fed back to their own inputs, to limit their pulse widths to 50NS. **CLR TP L** also disables the input to the delay for **SHIFT TS H**. This prevents recirculating pulses before the TP input goes away.

IOT CYCLE - Figures 4 & 5 show the elongated IOT cycle.

SIZE	CODE	NUMBER	REV
A	SP	DW8E-0-12	B

TITLE DW8E ENGINEERING SPECIFICATION

FIGURE 3.



NOTE: TP3, TIME STATE 4 and TP4 are issued during **BTS1** of the following cycle.

The Times shown here for **BTS1** and **BTS3** are typical for a PDP-8I. For a PDP-8L they are 650 NS and 250 NS. For a PDP-8 they are both 400 NS.

SIZE	CODE	NUMBER	REV
A	SP	DW8E-0-12	B

TITLE DW8E ENGINEERING SPECIFICATION

The function is to issue **I/O PAUSE L** and **TP3 H** to the option and also to receive and interpret **C0L** and **C1L** from the option. The timing of these events to each other remain the same although they occur on the first of the IOP pulses which are issued.

C0L causes the accumulator to be cleared by **CLR AC H** which enables the AC CLEAR BUS for 700 NS. **C1L** causes the AC to be loaded with the contents of a buffer register in the option via the AC INPUT BUS which is enabled for 400 NS by **B C1 H**.

The **C0** and **C1** combinations are:

- $\overline{C0} . \overline{C1}$ = Load buffer register with contents of AC, don't clear AC.
- $\overline{C0} . C1$ = Don't clear AC, "OR" contents of buffer register to AC.
- $C0 . C1$ = Clear AC, then load contents of buffer register to AC.
- $C0 . \overline{C1}$ = Load buffer register with contents of AC, then clear AC.

When any combination of **IOP1**, **IOP2**, **IOP4** is issued, **I/O END CLK L** follows the IOP levels inversely. For any combination of **C0** and **C1** (except $C0 . C1$) **I/O END CLK H** will follow **I/O END CLK L**.

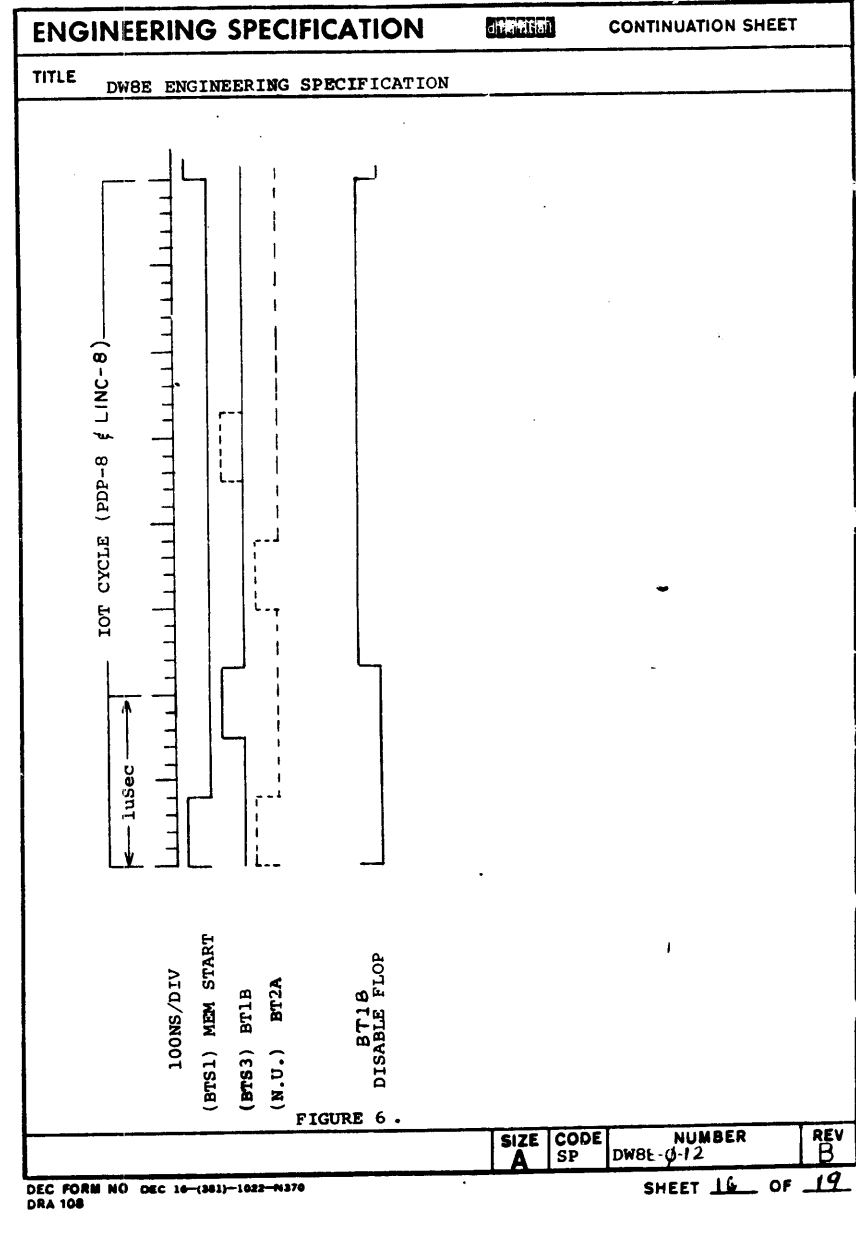
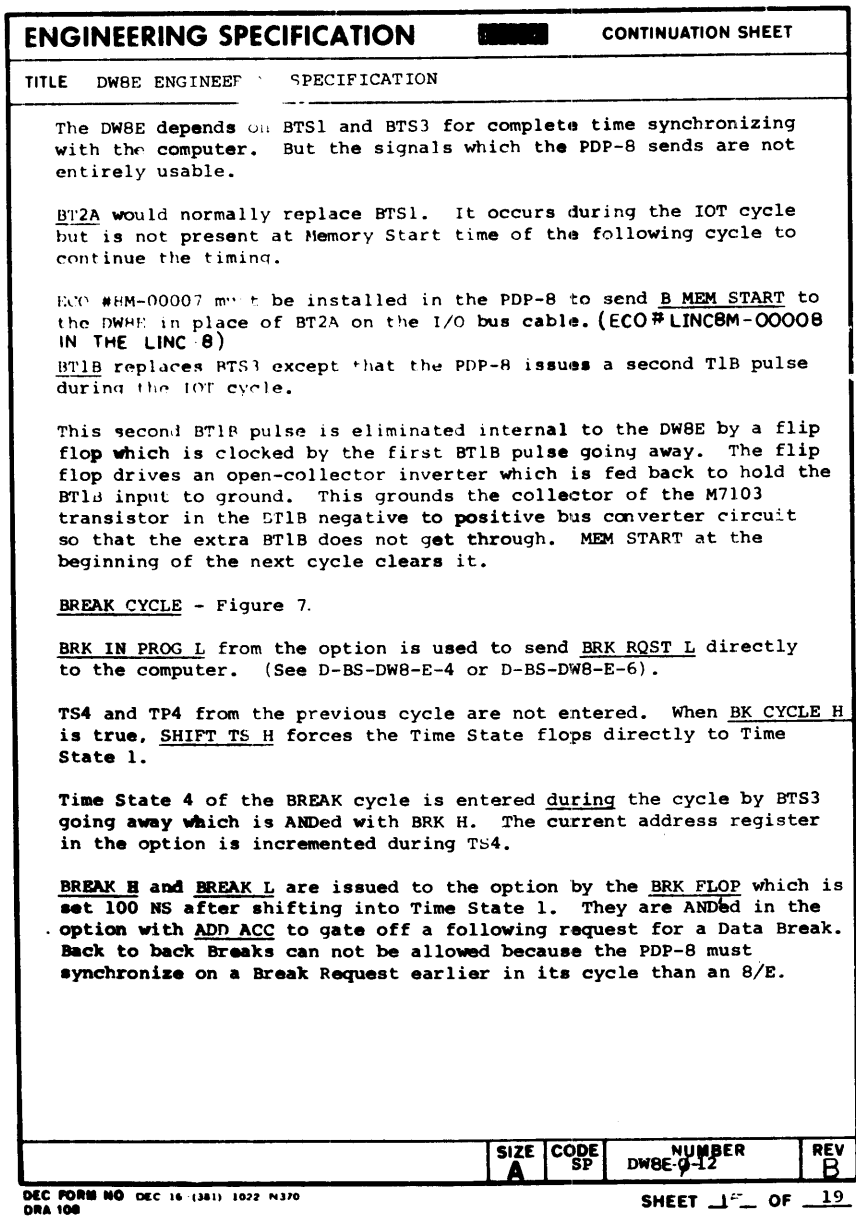
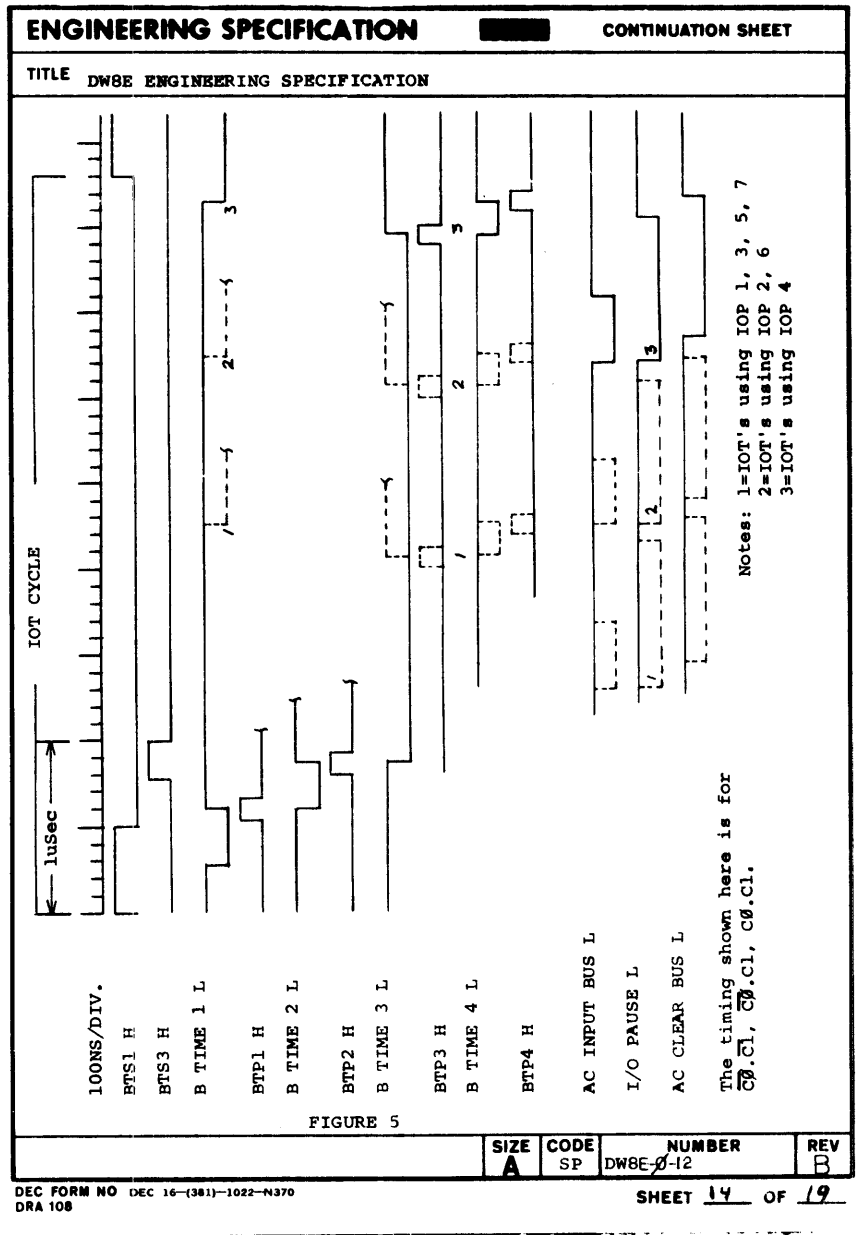
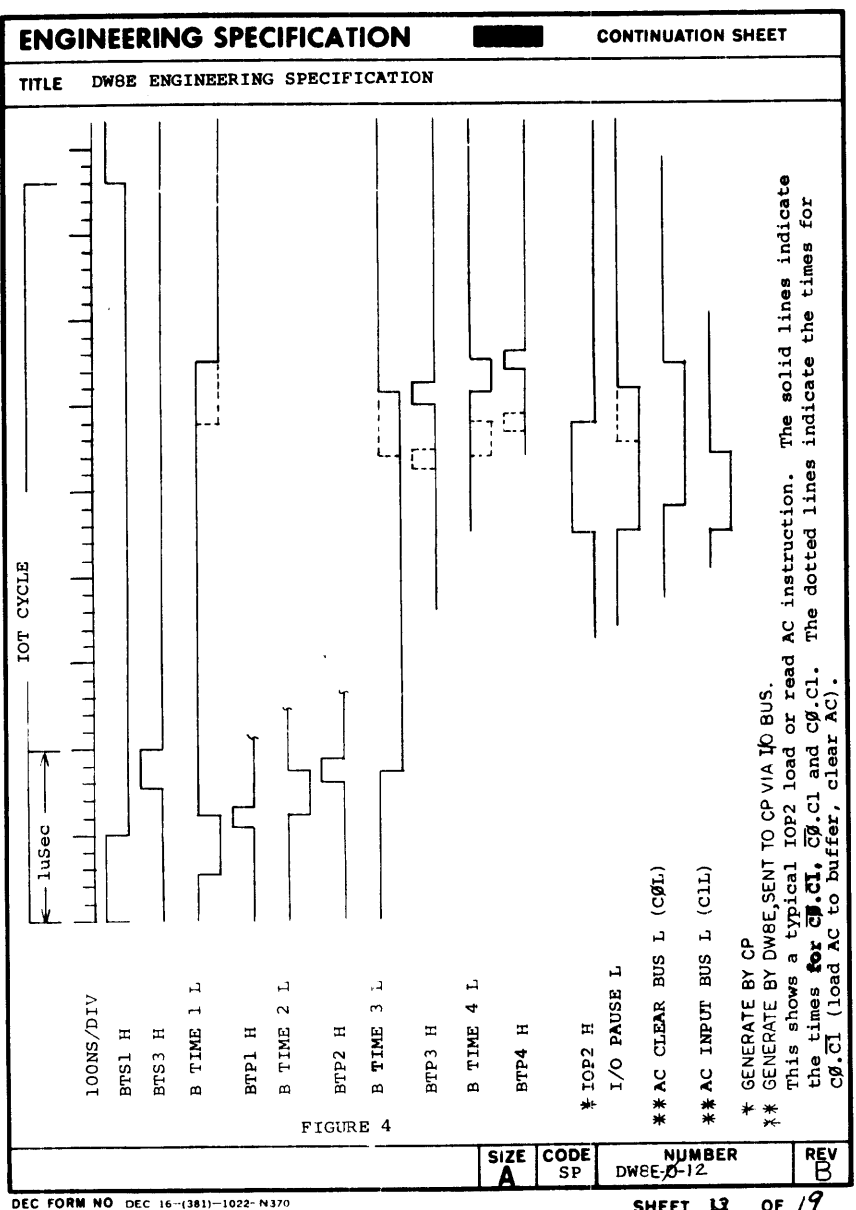
I/O PSE (1) H is set by the leading edge of the first IOP pulse and **I/O END CLK H** goes low. When the IOP pulse goes away **I/O END CLK H** goes high setting **I/O END**. This issues **CLR TIME PSE L** which clears **TIME PAUSE**, issues **TP3**, and shifts to Time State 4. **CLR TP L** then clears **TP 3**, **I/O END**, and **I/O PAUSE**.

The following IOP pulses do not set **I/O PAUSE** again because the control is out of Time State 3. 150 NS after **TIME PAUSE** is cleared, recycle issues **TP4** and shifts into Time State 1 for the rest of the I/O cycle.

* $C0 . \overline{C1}$ is the case where the contents of the AC must be loaded to the buffer register before the AC is cleared. The gate of the delay which was strobed by **I/O END CLK L** is enabled so that **I/O END CLK H** is only 300 NS long. **I/O PAUSE** is shortened and **TP3** and the other events occur as before except that they are now earlier in the cycle.

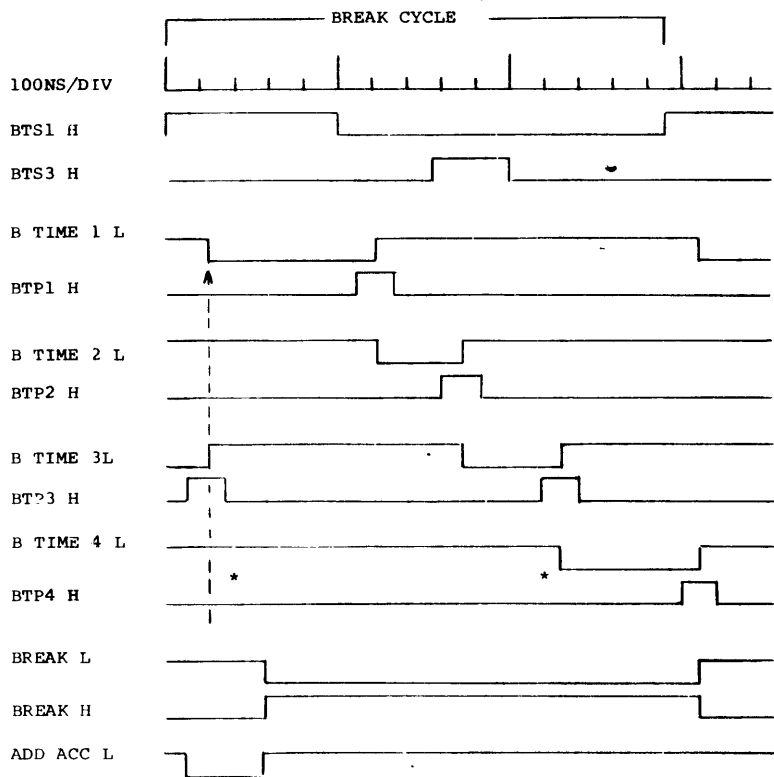
PDP-8 IOT CYCLE - Figure 6.

SIZE	CODE	NUMBER	REV
A	SP	DW8E-0-12	B



TITLE DW8E ENGINEERING SPECIFICATION

FIGURE 7



*NOTE: 1) Time State 4 and TP4 from the previous cycle are not allowed when entering the Break Cycle. The control goes directly to Time State 1.
 2) Time State 4 for the Break Cycle is entered during the Break Cycle.

SIZE	CODE	NUMBER	REV
A	SP	DW8E-0-12	B

TITLE DW8E ENGINEERING SPECIFICATION

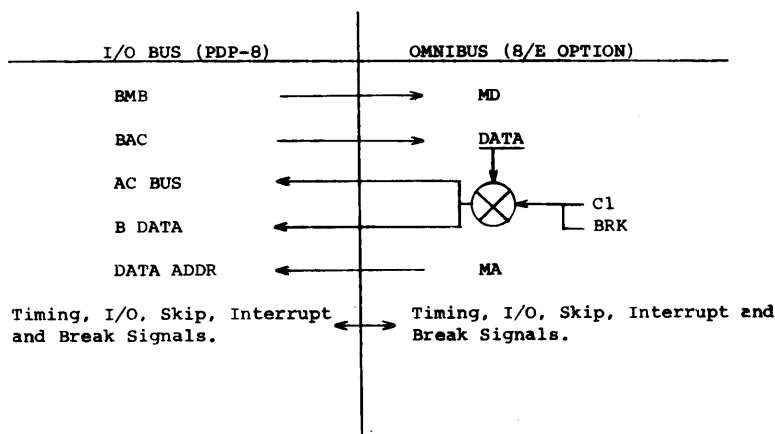
There are two further constraints to the option. The Break Address must be on the Bus before the Break Cycle. Also, the Data to be transferred into the computer must be on the Bus before Time State 2. Data to be read from the computer is loaded by the peripheral with the leading edge of TP3.

Information Multiplexing - (DWG. D-BS-DW8-E-4 or D-BS-DW8-E-6). Four M7102's are used to interface to a PDP-8 positive I/O bus. Operation of the M7103's are identical except that the M7103 has negative to positive receivers, and positive to negative drivers, to interface to a PDP-8 negative I/O bus. The M7102 and M7103 are pin-compatible.

Each M7102 or M7103 handles 3 information lines and 4 address lines and has sufficient circuitry to utilize the control and timing signals. The circuitry from input pins AP2 and AR2 allows for the fact that on the positive I/O Bus these signals are positive pulses but are negative pulses on the negative I/O bus. These signals are: BTS1, BTS3, BIOP1, BIOP2, BIOP4 and B INITIALIZE.

Figure 8 is a representative of the interfacing of the signals between the PDP-8 I/O bus and the derived OMNIBUS I/O signals.

FIGURE 8.



SIZE	CODE	NUMBER	REV
A	SP	DW8E-0-12	B

TITLE DW8E ENGINEERING SPECIFICATION

The BMB bits are used to drive the MD (Memory Data) lines directly without any gating. The BAC bits are normally gated onto the bi-directional DATA lines. If an IOT instruction is given to read an option buffer to the AC, the C1 line comes true. This turns off the BAC and gates the contents of the DATA lines onto the AC input Bus lines so that they can be strobed into the AC by the computer.

BRK comes true at the beginning of a Break Cycle. This also gates off the BAC but gates the DATA lines onto the B DATA lines which are strobed into the Memory Buffer of the computer.

The Memory Address (MA) and Extended Memory Address (EMA) bits are used to drive the DATA Address and Extended Data Address lines directly to the computer. Other signals which are used to drive lines directly to the computer are: SKIP, INT RQST, BRK IN PROG (BRK RQST), ADD ACC, and MD DIR (DATA IN). The cycle selection input is grounded to request only Single-cycle Data Breaks (1 cycle).

BREAK H and BREAK L inputs are driven by the (1) H and (1) L sides of the BRK flop from the M7101 control card.

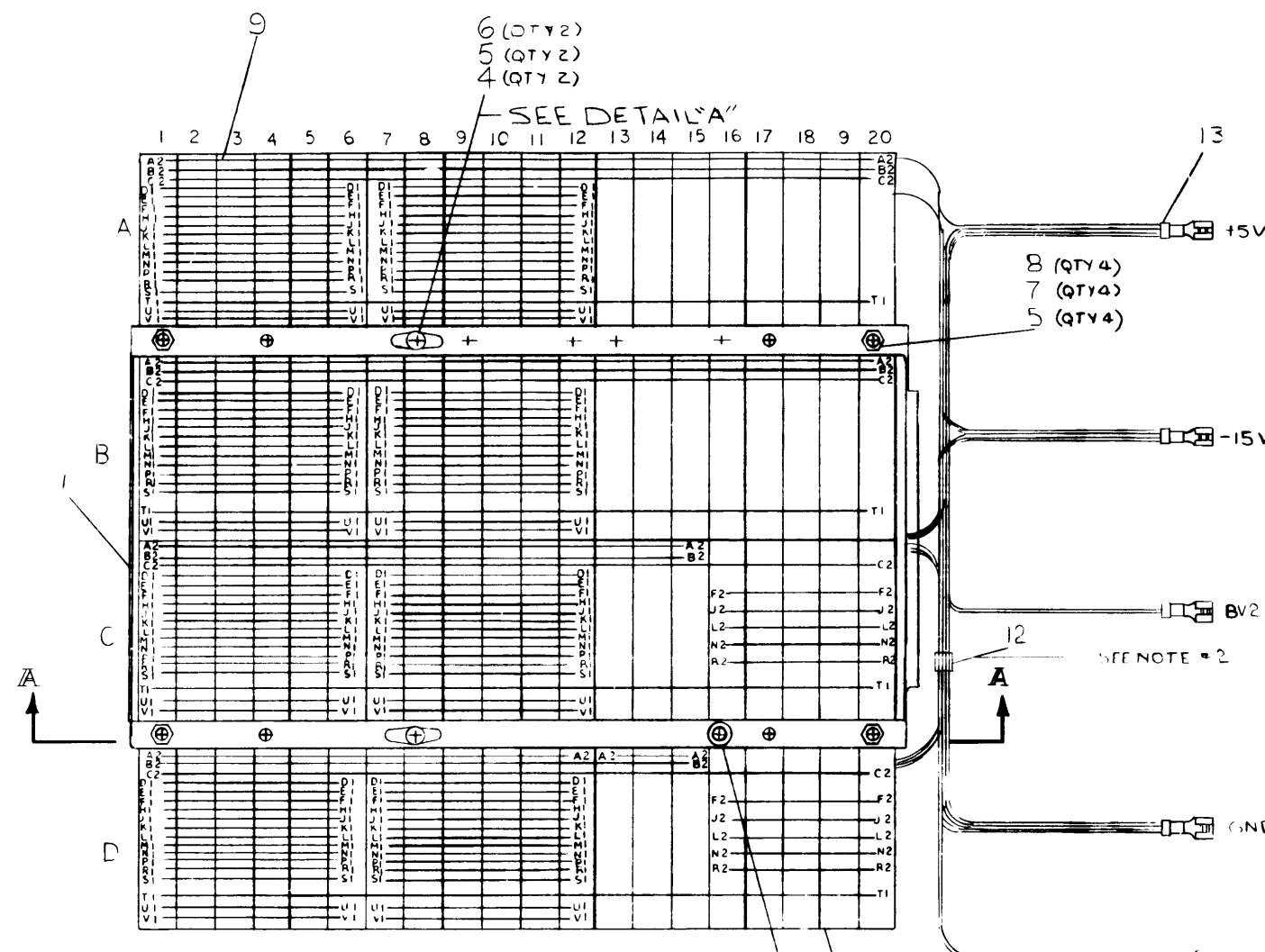
The AC CLEAR BUS is driven by the 700 NS delay CLR AC from the M7101 and I/O PAUSE to the OMNIBUS is driven from the M7101 by the flop I/O PSE.

SIZE	CODE	NUMBER	REV
A	SP	DW8E-0-12	B

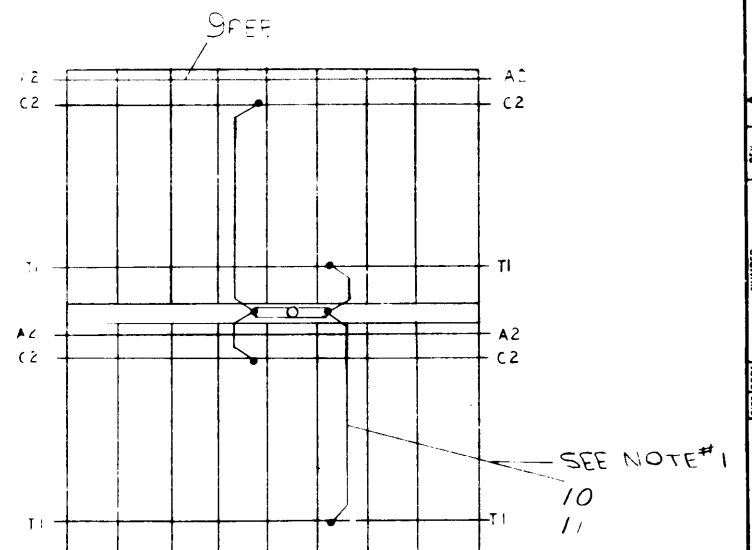
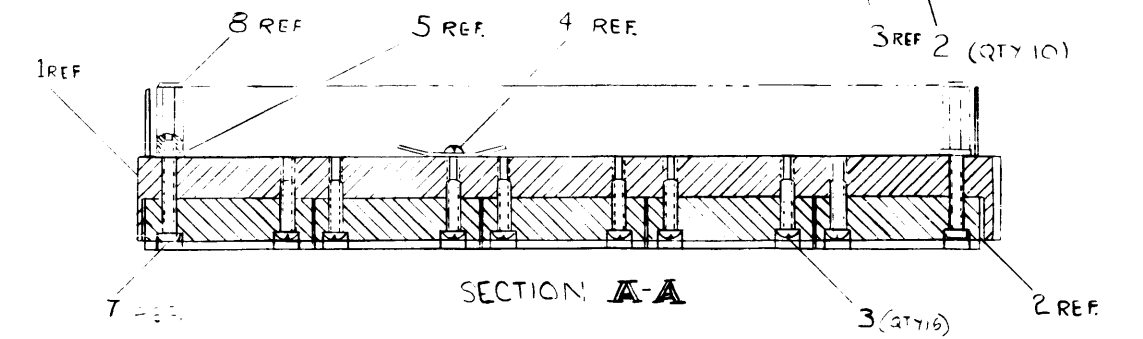
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				QUANTITY / VARIATION																
PARTS LIST																				
MADE BY K. GLEZEN		CHECKED S. <i>Roberts</i>		SECTION 1																
DATE 10/7/75		DATE 11-7-75																		
ENG <i>J.D. Leo, zom</i> 11-26-75		PROD <i>Ron R. R.</i> 11-26-75		ISSUED SECT. 1																
DATE		DATE																		
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																		
1	C-MD-7409056-0-0	OMNICASTING		1																
2	E-BC-1210258-0-0	288 PIN CONN BLOCK		10																
3	9006120-06	SCR PHL HD. POSTDRIVE #8-32 x .62		16																
4	9006035-01	SCR PHL HD PAN #8-32 X .25		2																
5	9006634-00	WASH INT TOOTH #8		6																
6	9007597-00	TERM SOLDER		2																
7	9007988-08	SCR SOCKET HD. CAP #8-32 X 1.00		4																
8	9008334-00	SPACER .25 AF X .69 LG #8-32 HOLE		4																
9	1205541-0-0	BUSS STRIP		A/R																
10	9107256-1	TUBING THIN WALL		A/R																
11	9107560-1	#22 AWG BUSS WIRE		A/R																
12	9008845-00	TAPE INSULATING.		A/R																
13	D-1A-7011926-0-0	HARNESS DW8E		1																
14	9105740-44	WIRE #30 AWG SOLID		YEL	A/R															
15	9105740-66	WIRE 30 AWG SOLID		BLU	A/R															
16	K-WL-DW8E-0-11	WIRE LIST			1															
17	A-DC-7411881-0-0	DECAL LOGIC ASSY REVISION			1															
18	A-WT-7012022-0	DW8E AWT REV STATUS			REF															
TITLE		ASSY NO.		SIZE	CODE	NUMBER				REV	ECO NO.									
WIRED ASSY (DW8E)		D-AD-7012022-0-0		A	PL	7012022-0-0					DW8E-00000									
		SHEET 1 OF 1		DIST																

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NOTES:
 1. CONNECTIONS ON ITEM 9 & 1 TO BE LOCATED & SOLDERED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS.
 2. ADHERE TAPE TO SURFACE DOWN (ITEM #14)
 3. WIRE (ITEM #14) FOR MACHINE WRAPPED WIRING AND BLUE WIRE (ITEM #15) FOR HAND WRAPPED WIRING



ITEM NO	DESCRIPTION	WIRE TABLE	
		FROM	TO
22	RED	+5V	A2 @ A2
	RED	+5V	B2 @ A2
	RED	+5V	C15 A2
	RED	+5V	D15 A2
	BLK	GND	A2 @ C2
	BLK	GND	B2 @ C2
	BLK	GND	C2 @ C2
22	BLK	GND	D2 @ C2
15	GRY	BV2	B12 V2
22	BLU	-15V	A2 @ B2
	BLU	-15V	B2 @ B2
	BLU	-15V	C15 B2
22	BLU	-15V	D15 B2
15	VFL	+7.5V	D12 A2



FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
N/E				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN DATE 11/30/75	PARTS LIST	
DECIMALS	ANGLES	CHK'D DATE 11/25/75	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS TITLE DW8E WIRED ASSY	
XXX .005		ENG DATE 11/25/75		
XX .02	+0.30	PROJ ENG DATE 11/25/75		
X .1		PROD DATE 11/26/75		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		NEXT HIGHER ASSY		
MATERIAL		DATE 11/26/75		SIZE CODE NUMBER
FINISH		SCALE NONE	DAD 7012022-0-0	
		SHEET OF 1	DIST	

REV	CHANGE NO	DATE	INITIALS

ORIGINATED

REF FROM NO DRA 100-A

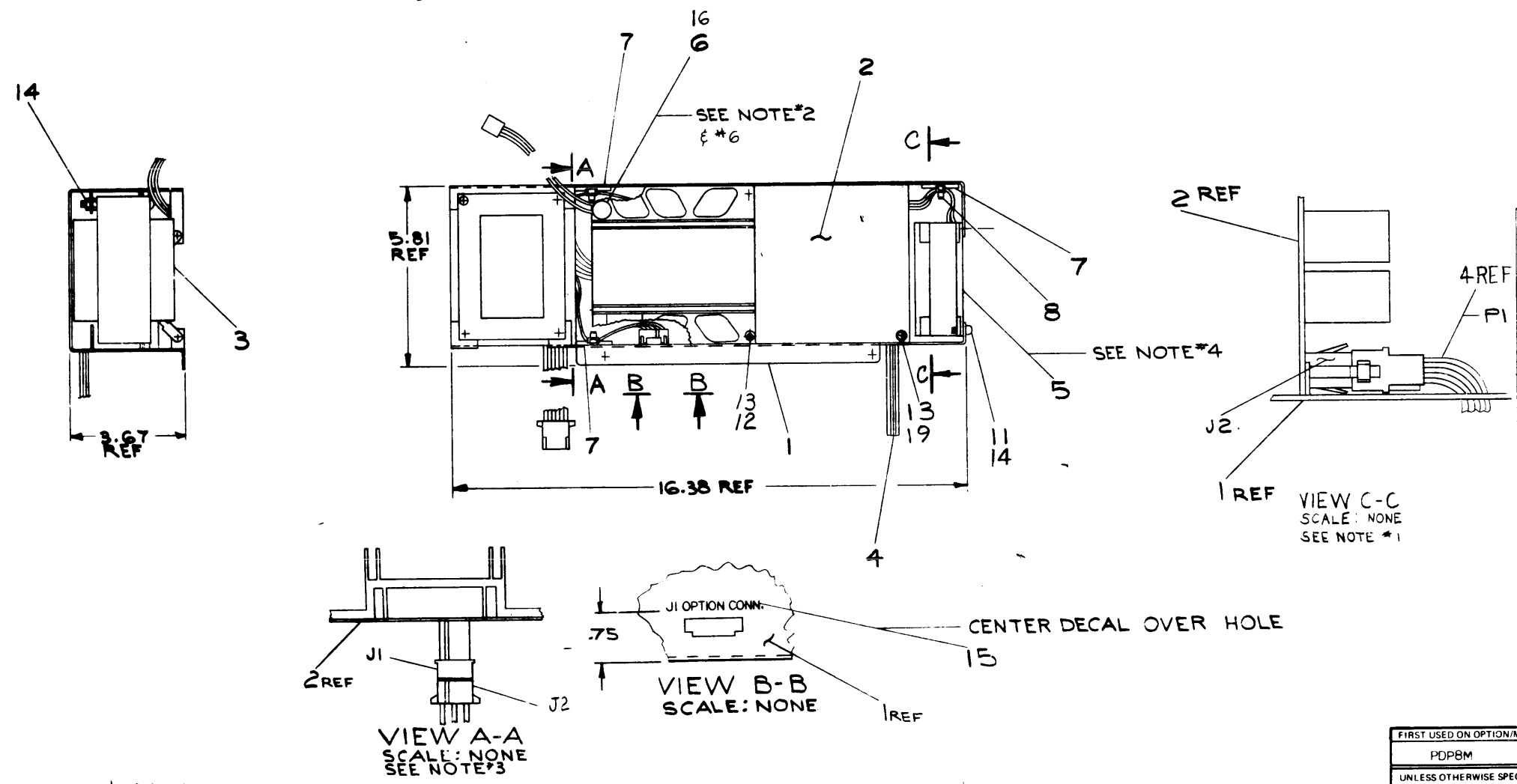
SIZE CODE: D AD 7012022-0-0
 NUMBER: 0-0
 REV:

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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 DWG. NO E-IA-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 #6-32X.25	9006020-1	19
N/A	PACKAGING INSTRUCTIONS	A-SP-370007-0-0	18
REF	PS ASSY PROCEDURE	A-SP-PDP8M-0-8	17
A/R	COMPOUND THERMAL JOINT	9008268	16
1	DECAL (PDP8/M)	A-DE-7410790-0-0	15
8	NUT, KEPS # 8-32	9006663	14
6	WASHER, INT TOOTH LOCK	9006663	13
4	SCR, PHL HD PAN #6-32X.44	9006023-0	12
4	SCR, PHL HD PAN #8-32X.44	9006038-0	11
1	PIN, MATE-N-LOK (MALE)	180828-01-10	10
1	CONN, MATE-N-LOK	180828-02-09	9
3	CABLE, TIE	9007031	8
3	CABLE, TIE MOUNT	9008264	7
1	THERMOSTAT ASSY	C-IA-7009452-4-6	6
1	FAN,	1210719	5
0	HARNESS, D.C.	D-IA-7009282-0-0	4
1	TRANSFORMER ASSY.	E-IA-7009277-0-0	3
1	REGULATOR BD ASSY	E-IA-5409728-0-0	2
1	CHASSIS, POWER SUPPLY	E-IA-7410746-0-0	1

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

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN	DATE	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	CHK'D	DATE	TITLE POWER SUPPLY ASSY.	
XXX 006	10' 30'	ENG	DATE		
XX 02		PROJ ENG	DATE		
X 1		PROD	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				SIZE CODE D-IA-PDP8M-0-0	
MATERIAL		NEXT HIGHER ASSY		NUMBER DAD 7009282-0-0	
FINISH		SCALE NONE		REV C	
		SHEET 1 OF 1		DIST	

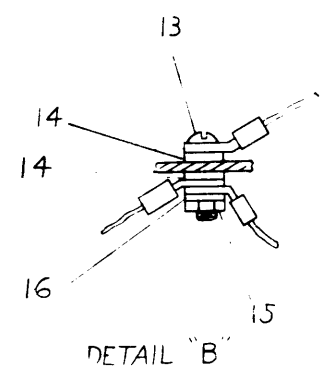
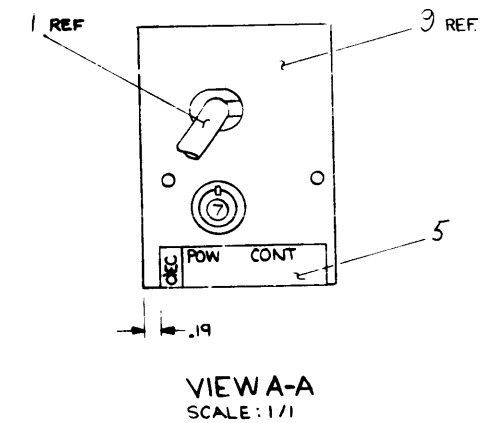
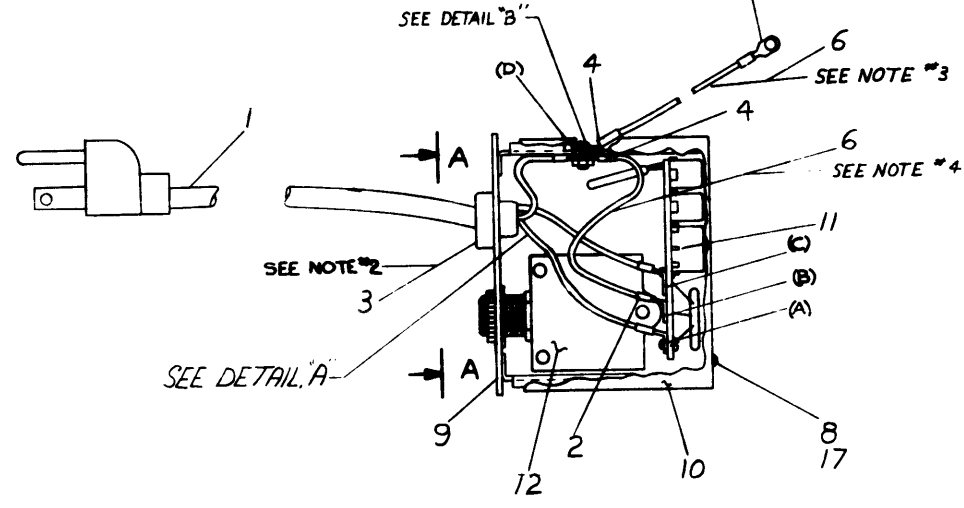
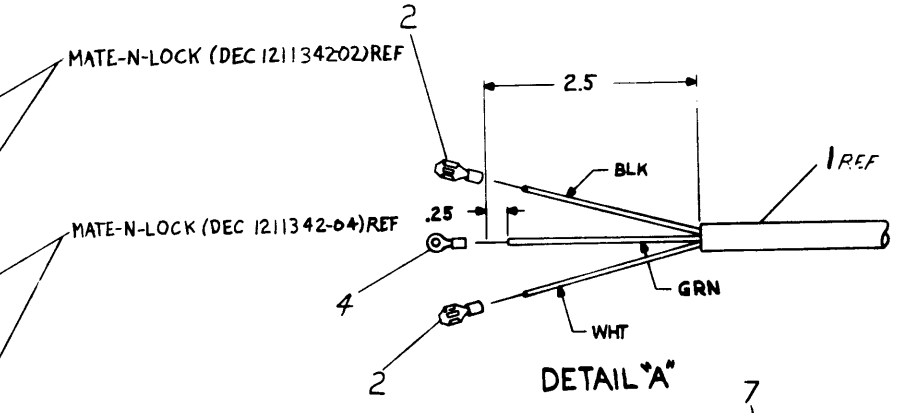
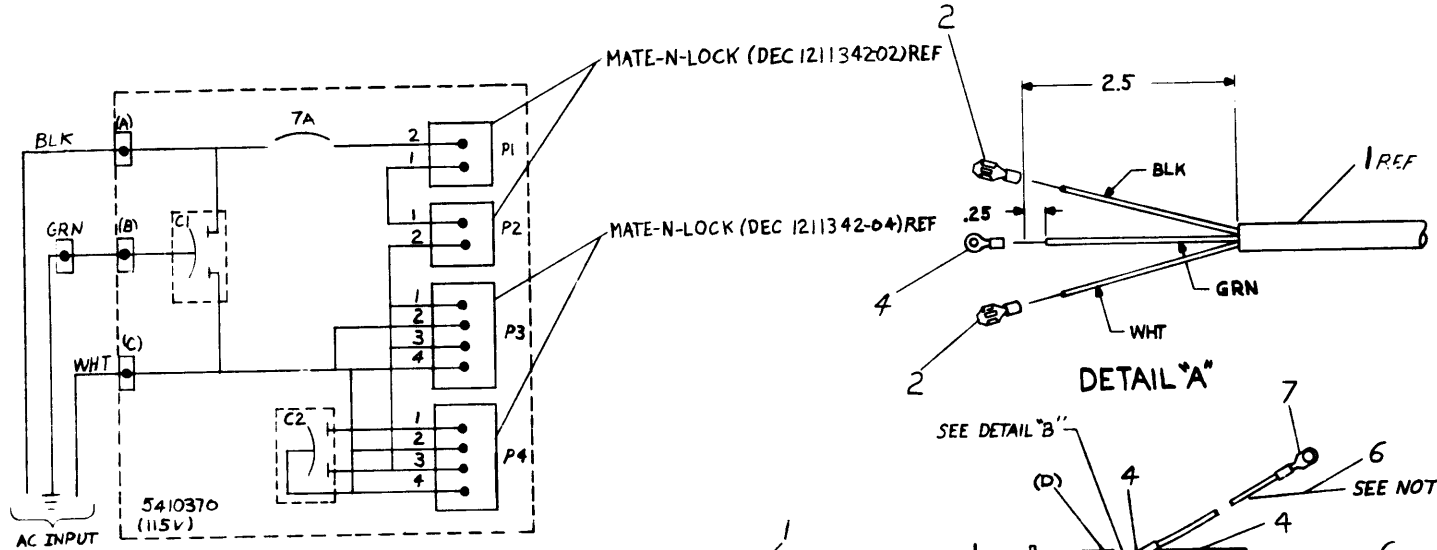
REV	DATE	BY	CHK'D
1	5-17-73	P. GARDNER	
2	5-18-73	J. GARDNER	
3	5-18-73	J. GARDNER	
4	5-18-73	B. PATTON	
5	12-21-73	P. GARDNER	

DEC FORM NO DED 100-A

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LEGEND		
PART NO.	ITEM #1	VARIATION
BC20A-06	V700015-06	6 FT
BC20A-09	V700015-09	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	7006633	
1	WASHER, FLAT 3/25x.027	7006655	16
1	KEPNUT #4-40	9006557	15
2	WASHER #4 INTERNAL TOOTH	9006632	14
1	SCR. PHL. PAN HD #4x.38	9006011-1	13
1	CIRCUIT BREAKER (7AMP)	1210830-7	12
1	POWER CONTROL BQ (115 V)	CTA-5410370-0-0	11
1	COVER, AC. INPUT	C-MD-570773-0-0	10
1	BOX, AC. INPUT	03ALE-0015-0-0	9
1	SCR. PHL. HD. PAN #6-32x.25	7006620-1	8
1	SOLDERLESS, CONN #50360	7007930	7
AIR	#18 AWG. STRD GRN	9107360-55	6
1	PWR CONTROL DECAL (115V)	A-DC-5310438-0-0	5
3	SOLDERLESS, CONN.	9077929-0	4
1	STRAIN RELIEF S.R.6N3-4	9008492-2	3
3	SOLDERLESS CONN	9007917	2
1	POWER CORD 120 V	SEE LEGEND	1

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

DRN	DATE	CHK'D	DATE	ENG	DATE	PROD	DATE
<i>D. Sullivan</i>	2-21-73	<i>X. Sullivan</i>	2-21-73	<i>J. Sullivan</i>	2-27-73	<i>J. Sullivan</i>	2-27-73

MATERIAL	FINISH	NEXT HIGHER ASSY.	SCALE	SHEET	OF	SIZE CODE	NUMBER	REV
						DUA	BC20A-0-0	C

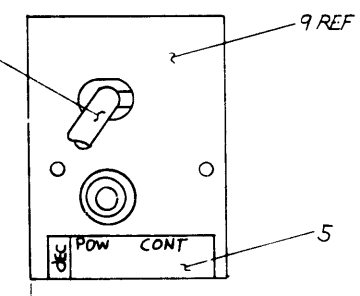
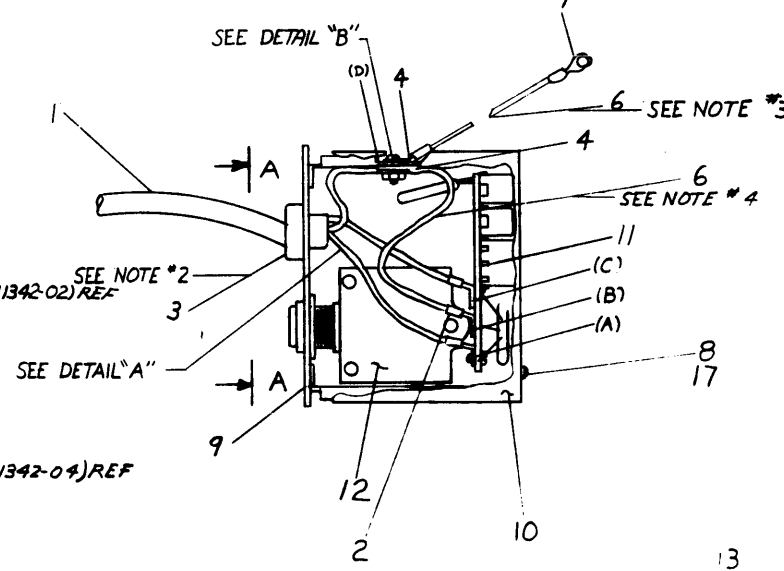
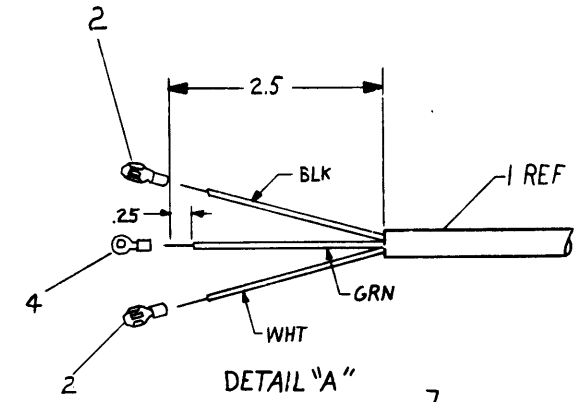
REV	CHANGE NO.	DATE	BY	DESCRIPTION
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2	0002	1-21-73	P. GARDNER	REVISED
3	0003	1-21-73	P. GARDNER	REVISED

DRAWING NO WAS
D-UA-BC20-0-0
P. GARDNER
1-21-73

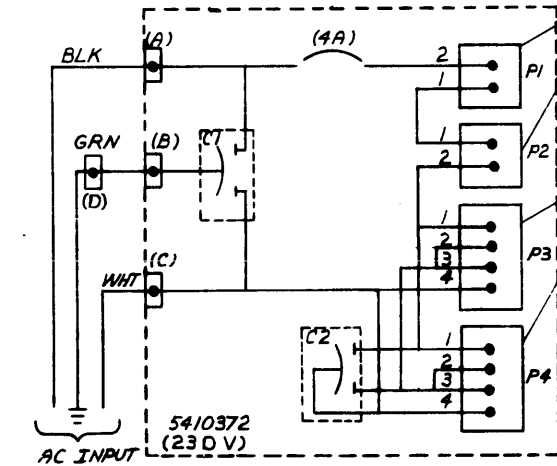
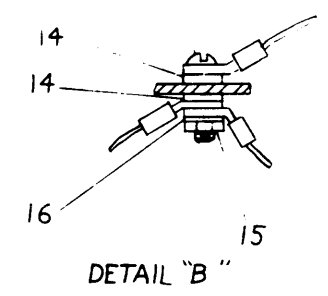
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LEGEND		
PART NO.	ITEM #1	VARIATION
BC20B-06	1700016-06	6 FT
BC20B-09	1700016-09	9 FT

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



VIEW A-A
SCALE: 1/1



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	WASHER, #6 INTERNAL TOOTH	9006633	17
1	WASHER, FLAT, .312x.125 .027	9006655	16
1	KEP NUT #4-40	9006557	15
2	WASHER, #4 INTERNAL TOOTH	9006632	14
1	SCR. PHL. PAN HD. #4-40 x .38	9006011-1	13
1	CIRCUIT BREAKER (4 AMP)	1210830-4	12
1	POWER CONTROL BD (230V)	C-2A-5410372-0	11
1	COVER, AC INPUT	C-MD-5310372-0	10
1	BOX, AC INPUT	D-3A-5309045-0	9
1	SCR. PHL. PAN HD. #6-32 x .25	9006020-1	8
1	SOLDERLESS CONN #50360	9007930	7
NR	#18 AWG STRD, GRN	9107360-55	6
1	PWR CONTROL DECAL (230V)	4-DG5310439-0-0	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	PDP 8M	DATE	9-18-78
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DATE	9-18-78
TOLERANCES		DATE	9-18-78
DECIMALS	.005	DATE	9-18-78
ANGLES	0 30'	DATE	9-18-78
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	9-18-78
MATERIAL		DATE	9-18-78
FINISH		DATE	9-18-78

DRN	DATE	DATE	DATE
CHK'D	DATE	DATE	DATE
ENGR	DATE	DATE	DATE
PROJ. ENG.	DATE	DATE	DATE
PROJ. MGR.	DATE	DATE	DATE
PROJ. LDR.	DATE	DATE	DATE

TITLE	LINE SET 230V
SIZE CODE	D UA
NUMBER	BC20B-0-0
REV.	A
SCALE	1 OF 1
SHEET	1 OF 1

REVISIONS	CHANGE NO.	REV.
BC20-00003		
ORIGINATED		
BC20B-00001		
BY		
DATE		
BY		
DATE		

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DRAWING NUMBER	INIT REL		AUTOMATIC WIRE TESTER (AWT) REVISION STATUS																REV					
	T5	C																						
K-WL-DW8E-Ø-11	-	C																						
A-PL-7012022-0-0	-	*																						
D-AD-7012022-0-0	-	*																						

SIZE CODE A
 AWT 7012022-0
 NUMBER
 REV

REVISIONS	CHANGE NO.	REV.
	DW8E-00008	C
ORIGINATED		
CHK		

DRAWN <i>[Signature]</i>	DATE 11/6/75	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS TITLE DW8E AWT REVISION STATUS SIZE CODE NUMBER REV AWT 7012022-0
CHK'D <i>[Signature]</i>	DATE 11-7-75	
ENG. <i>[Signature]</i>	DATE 1-26-75	
PROJ. ENG. <i>[Signature]</i>	DATE	
PROD. <i>[Signature]</i>	DATE 11-26-75	
FIRST USED ON LW8E		
SCALE		
SHEET 1 OF 1		

DRA 123

