

PDP-11/05
engineering drawings

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

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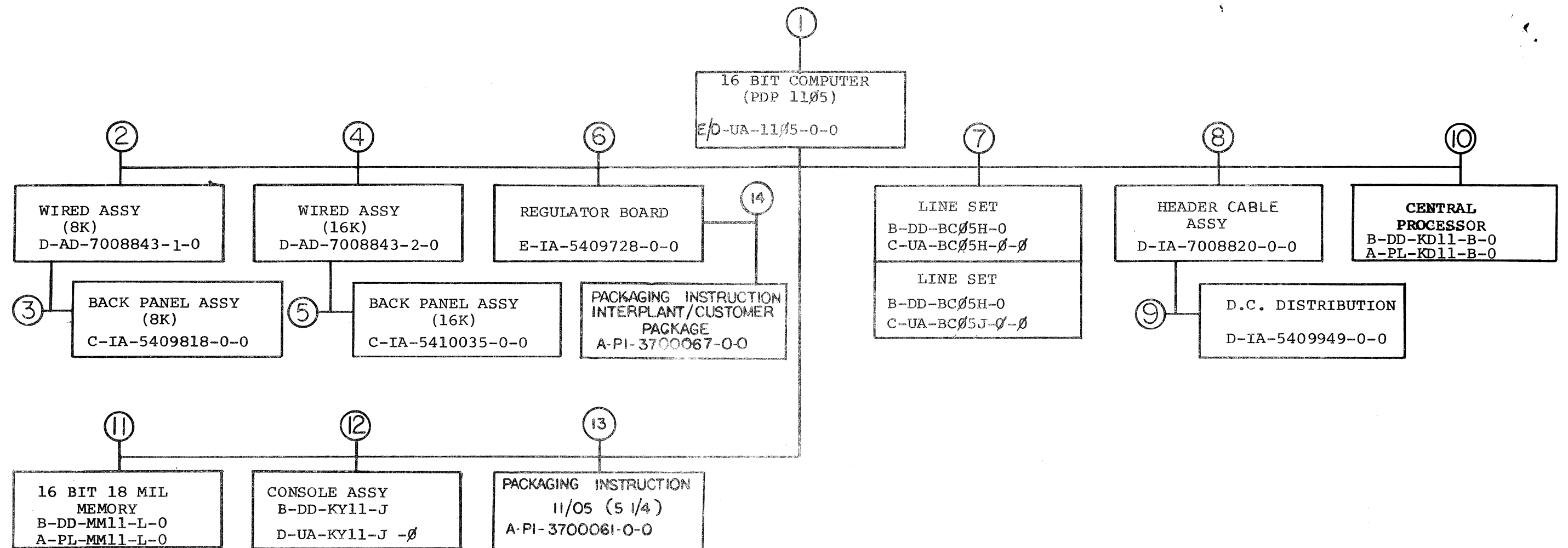
SEQUENCE		SEQUENCE	
16 BIT COMPUTER (11/05)	B-DD-11/05-0		
16 BIT COMPUTER (11/05)	D-UA-11/05-0-0		
16 BIT COMPUTER (11/05)	C-PL-11/05-0-0		
MODULE UTILIZATION (16K)	D-MU-11/05-0-02		
MODULE UTILIZATION (8K)	D-MU-11/05-0-01		
MODULE UTILIZATION (10½)	D-MU-11/05-0-07		
CENTRAL PROCESSOR	B-DD-KD11-B		
16 BIT 18MIL MEMORY	B-DD-MM11-L		
BUS TERMINATOR	D-CS-M930-0-1		
CONSOLE ASSY	B-DD-KY11-J		
H750 POWER SUPPLY	B-DD-H750-0		
LINE SET BC05-H	B-DD-BC05H-0		
LINE SET BC05-T	B-DD-BC05T-0		
LINE SET BC05-U	B-DD-BC05U-0		
INPUT HARNESS (A.C.)	E-IA-7008713-0-0		
HARNESS (D.C.)	D-IA-7008856-0-0		
BA11-D POWER TO			
DISTRIBUTION BOARD	E-IA-7009208-0-0		
HEADER CABLE ASSY	D-IA-7008820-0-0		
CIRCUIT SCHEMATIC	C-CS-5409949-0-1		
BERG TO BACKPLANE	C-CS-M9970-0-1		
CABLE ASSY (KL8E)	D-IA-7008360-0-0		
MAINTENANCE BOARD	D-BS-KM11-0-MB		
MAINT. MODULE OVERLAY (11/05-KM1)	A-SS-5509081-0-9		
MAIN. MODULE OVERLAY (11/05-KM2)	A-SS-5509081-0-10		
CIRCUIT SCHEMATIC (8K)	C-CS-5409818-0-1		
*ETCH/WIRE LIST (8K)	K-WL-7008843-1-1		
CIRCUIT SCHEMATIC (16K)	C-CS-5410035-0-1		
*ETCH/WIRE LIST (16K)	K-WL-7008843-2-1		
CIRCUIT SCHEMATIC (10½)	D-CS-5410329-0-1		
*ETCH/WIRE LIST (10½)	K-WL-1105-0-8		
1105 ACCESSORY LIST	A-AL-1105-0-04		
1105 SOFTWARE LIST	A-SL-1105-0-05		
* 1105 ACCEPTANCE PROC.	A-SP-1105-0-6		
*DECAL (10.5"box)	A-DC-7411305-0-0		
*PACKAGING INSTRUCTIONS	A-PI-3700061-0-0		

* ONLY INCLUDED IN MANUFACTURING PRINT SET.

UNIT VARIATIONS		PRINT SET			
VAR	TITLE	1105-0			
	CONFIGURATION #1				
1105-HA	KD11-B, MM11-K, 115V/60HZ	X			
1105-HB	KD11-B, MM11-K, 230V/50HZ	X			
1105-JA	KD11-B, MM11-L, 115V/60HZ	X			
1105-JB	KD11-B, MM11-L, 230V/50HZ	X			
	CONFIGURATION #2				
1105-KA	KD11-B, MM11-K, 115V/60HZ	X			
1105-KB	KD11-B, MM11-K, 230V/50HZ	X			
1105-LA	KD11-B, MM11-L, 115V/60HZ	X			
1105-LB	KD11-B, MM11-L, 230V/50HZ	X			
	CONFIGURATION #3				
1105-MA	KD11-B, MM11-K, 115V/60HZ	X			
1105-MB	KD11-B, MM11-K, 230V/50HZ	X			
1105-PA	KD11-B, MM11-L, 115V/60HZ	X			
1105-PB	KD11-B, MM11-L, 230V/50HZ	X			
	CONFIGURATION #4				
1105-NC	KD11-B, MM11-L 115V/60HZ	X			
1105-ND	KD11-B, MM11-L, 230V/50HZ	X			

REVISIONS			CHG. NO.		REV													
DATE		REVISED																
8-73		REDRAWN	P															
9-73		11/05-47	R															
10-73		11/05-48	S															
11-73		11/05-49	T															
11-73		11/05-50	U															
12-73		11/05-51	V															
1-74		11/05-52	W															
2-74		11/05-53	Y															
3-74		11/05-54	Z															
3-74		11/05-55	AA															
4-74		11/05-56	AB															
						USED ON OPTION/MODEL		DRN.	DATE	TITLE 16 BIT COMPUTER (PDP 1105)								
						CHK'D.	DATE											
						C. TESCHNER	4/19/2											
						PROJ ENG.	DATE											
								B. WEEKS	5/25/2	SIZE	CODE	NUMBER				REV		
								PROD.	DATE	B	DD	1105-0				AB		
								R. PETERSON	5/25/2									
								FIELD SERV.	DATE									
								D. DICKHUT	5/25/2									
						SHEET 1 OF 7			DIST									

DEC 16 1973 1062-1A-N072



NOTE: This sheet for 5¼" only. See sheets 6 & 7 for 10½" chassis

TITLE	SHEET 2 OF 7	SIZE CODE	NUMBER	REV
16 BIT COMPUTER (PDP 1105)	B DD	1105-0	AB	

CUSTOMER PRINT SET				MECHANICAL					CUSTOMER PRINT SET				MECHANICAL								
1105-0				MFG.	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	1105-0				MFG.	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
					8	D-IA-7008820-0-0	#	1	HEADER CABLE ASSY					X	14	A-PI-3700065-0-0	#	2	REGULATOR BOARD PKG. INST.		
																A-PS-9905201-0-0		1	REGULAR SLOTTED CARTON		
																A-PS-9905202-0-0		1	TAPED TUBE		
																A-PS-9905203-0-0		2	RAT TRAP		
																A-PS-9905374-0-0		3	TAPE TUBE		
																A-PS-9905375-0-0		3	DIECUT CARTON		
					9	D-IA-5409949-0-0	#	1	D.C. DISTRIBUTION												
						K-CO-5409949-0-4	#	1	X-Y CO-ORDINATE HOLE LOCATION												
						D-AH-5409949-0-5	#	1	ASSY/DRILLING HOLE LAYOUT												
					10	B-DD-KD11-B	#	1	CENTRAL PROCESSOR												
						A-PL-KD11-B-0-0	#	1	CENTRAL PROCESSOR (PL)												
					11	B-DD-MM11-L	#	3	16 BIT 18 MIL MEMORY												
						A-PL-MM11-L-0-0	#	1	16 BIT 18 MIL MEMORY (PL)												
C			C	12	B-DD-KY11-J			3	DRAWING DIRECTORY (KY11-J)												
						D-UA-KY11-J-0		1	CONSOLE ASSY (PDP 1105)												
						A-PL-KY11-J-0		1	CONSOLE ASSY (PDP 1105) P.L.												
			X	13	A-PI-3700061-0-0	#	2	11/05 PACKAGING INSTRUCTION 5 1/4													
						A-PS-9905185-0-0		9	SHIPPING CARTON SET UP												
						A-PS-9905184-0-0		2	BEZEL PROTECTOR												
						A-PS-9905129-0-7		4	POLYETHYLENE BAG												

CUSTOMER PRINT SET CODES
X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

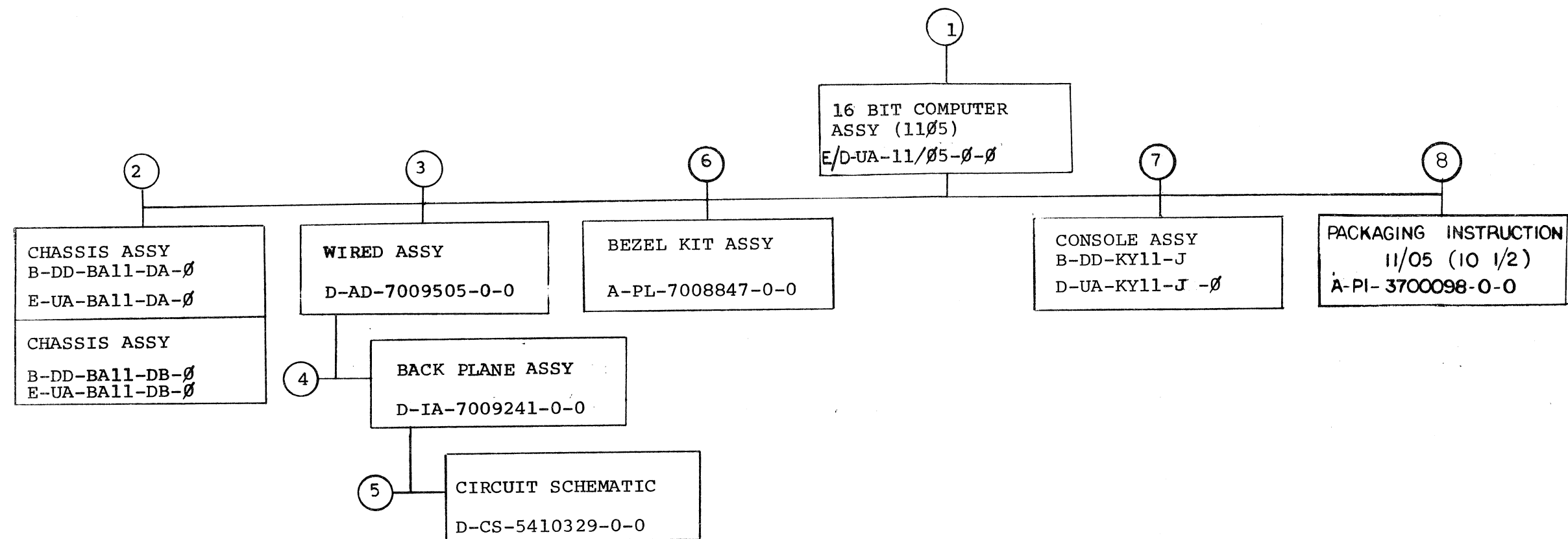
TITLE
16 BIT COMPUTER

SHEET 5 OF 7

SIZE CODE
B DD

NUMBER
1105-0

REV
AB



NOTE: SHEETS 6 & 7 ARE FOR 10.5 BOX ONLY.

TITLE	SHEET	OF	SIZE	CODE	NUMBER	REV
16 BIT COMPUTER (PDP11Ø5)	6	7	B	DD	11Ø5-Ø	AB

CUSTOMER PRINT SET				ELECTRICAL					CUSTOMER PRINT SET				MECHANICAL								
1105-0				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	1105-0				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
					1	E/D-UA-11/05-0-0	U	6	16 BIT COMPUTER ASSY (1105)						1	E/D-UA-11/05-0-0	U	6	16 BIT COMPUTER ASSY (1105)		
X				X		D-IA-7009360-0-0		1	CPU POWER HARNESS							D-IA-7009360-0-0		1	CPU POWER HARNESS		
X				X		D-MU-1105-0-07		1	MODULE UTILIZATION (10.5)									1	CONSOLE MTG BRKT (10.5)		
																D-MD-7410664-0-0		1			
X				X		C-CS-M9970-0-1	#	1	BERG TO BACK PLANE							B-IA-7409729-0-0		1	JUMPER POWER		
					2	B-DD-BA11-D		2	DRAWING DIRECTORY (BA11-D)		C		C			B-DD-H750-0	#		H750 POWER SUPPLY		
						E-UA-BA11-D-0		2	CHASSIS ASSY		C		C			B-DD-BC05T-0	#		LINE SET BC05-T		
											C		C			B-DD-BC05U-0	#		LINE SET BC05-U		
											X		X			E-IA-7009208-0-0	#	1	DISTRIBUTION BOARD HARNESS (BA11-D)		
					3	D-AD-7009505-0-0		1	WIRED ASSY				X			A-DC-7411305-0-0	#		DECAL (10.5" MODULE UTILIZATION)		
						C-PS-1210698-0-0		1	CARD GUIDE							A-DC-7409478-0-0		1	DECAL, PATENT		
				X		K-WL-1105-0-8	B	1	ETCH/WIRE LIST (10 1/2)												
					4	D-IA-7009241-0-0		1	BACK PLANE ASSY												
						5010328		1	ETCH CIRCUIT BOARD							2	B-DD-BA11-D		2	DRAWING DIRECTORY (BA11-D)	
						E-PS-1211425-0-0		1	72 PIN CONN BLOCK							E-UA-BA11-D-0		2	CHASSIS ASSY		
						E-PS-1211439-0-0		1	11/05 LOGIC FRAME												
						E-PS-1210258-0-0		1	288 PIN CONN BLOCK												
X				X	5	D-CS-5410329-0-1	#	1	CIRCUIT SCHEMATIC (1105 10.5)							4	D-IA-7009241-0-0		1	BACK PLANE ASSY	
						K-CO-5410329-0-4		1	X-Y COORDINATE HOLE LOCATION							5010328		1	ETCH CIRCUIT BOARD		
						E-AH-5410329-0-5		1	ASSY/DRILLING HOLE LAYOUT												
						B-MH-5410329-0-6		1	MODULE ECO HISTORY							5	D-CS-5410329-0-1		1	CIRCUIT SCHEMATIC (1105 10.5)	
						5010328		1	ETCH CIRCUIT BOARD												
																6	A-PL-7008847-0-0		1	BEZEL KIT ASSY	
																		1	BEZEL		
																A-PS-1211221-0-0		1	STRIP MTG		
																7	B-DD-KY11-J		3	DRAWING DIRECTORY (KY11-J)	
																		1	CONSOLE ASSY (PDP1105)		
																A-PL-KY11-J-0		1	CONSOLE ASSY (PDP1105) PL		
																X 8	A-PI-3700098-0-0	#	2	11/05 PACKAGING INSTRUCTION (10 1/2)	
																		8	SHIPPING CARTON SET UP		
																		2	SIDE PROTECTOR		
																		2	REAR PROTECTOR		
																		2	BEZEL PROTECTOR		
																		4	POLYETHYLENE BAG		

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

16 BIT COMPUTER (PDP1105)

SHEET 7 OF 7

SIZE CODE

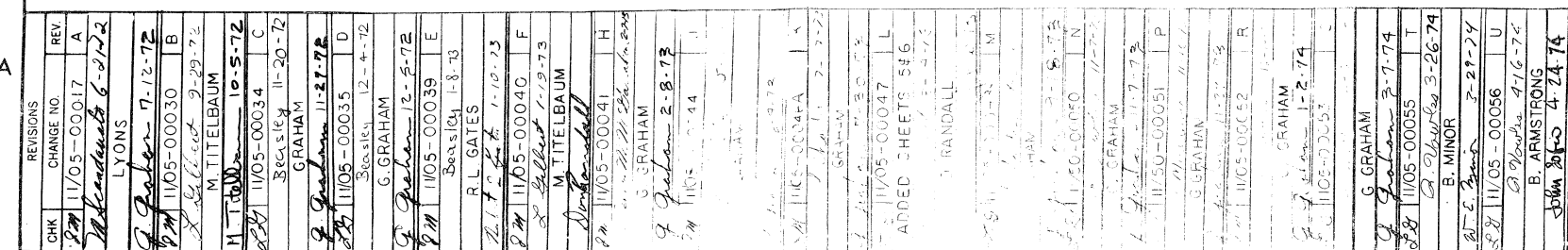
B DD

NUMBER

1105-0

REV.

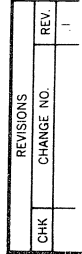
AB



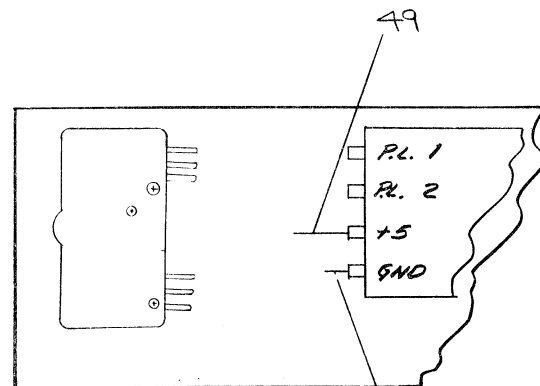
-THIS CONNECTION IS SHOWN 90° OUT OF POSITION FOR CLARITY

- | | | |
|-----------|---------|------|
| SIZE CODE | NUMBER | REV. |
| D 1A | 105-0-0 | |

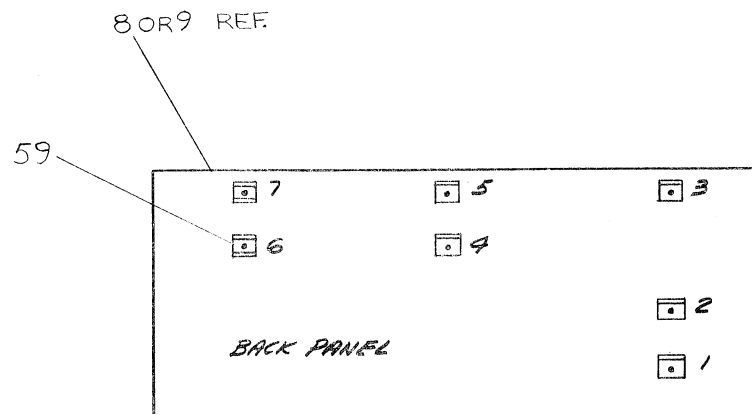
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 1105			PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRM <i>Handwritten signature</i>	DATE 2-2-72	 DIGITAL EQUIPMENT CORPORATION NAYARD, MASSACHUSETTS	
		CHK'D. <i>C. Lechner</i>	DATE 4-14-72		
DIGITAL	ANGLES	ENG. <i>Alan Lyons</i>	DATE 5-15-72	TITLE 16 BIT COMPUTER ASSY (PDP 1105)	
.XXX = .005 .XX = .02 .X = .1	±0° 30'	PROJ. ENG. <i>Ed Weeks</i>	DATE 5-16-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROD. <i>R. K. Peterson</i>	DATE 5/14/72		
MATERIAL 		NEXT HIGHER ASSY.			
		B-DD-1105-0		SIZE CODE	NUMBER
FINISH 		SCALE NONE		DUA	1105-0-0
		SHEET OF 6		DIST.	



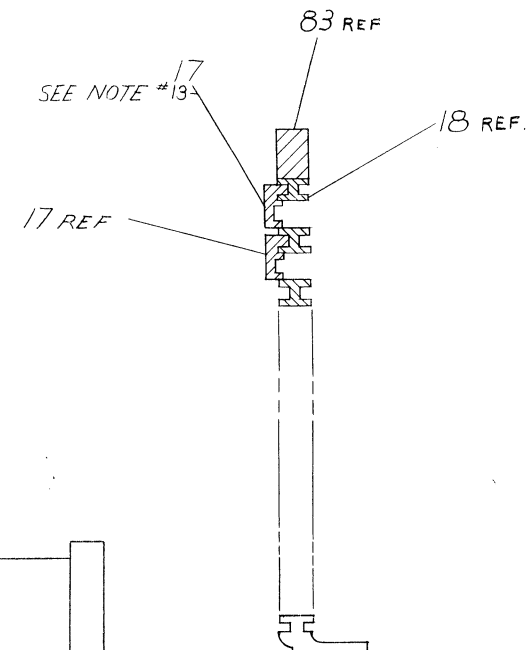
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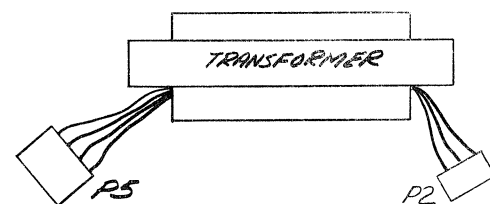
VIEW D-D
SCALE: NONE



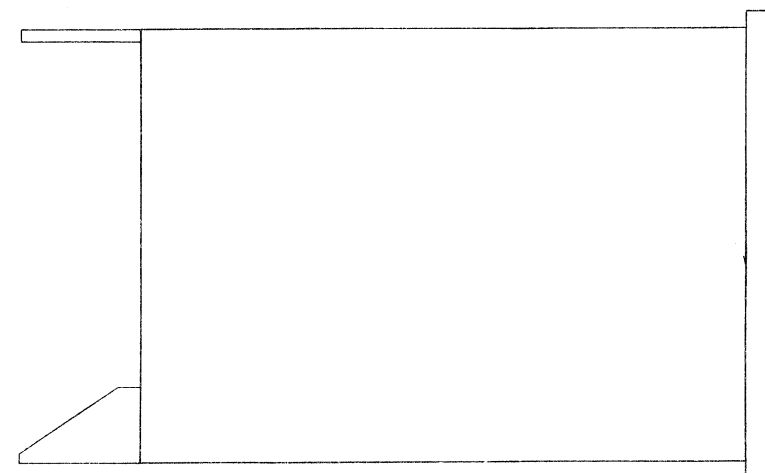
VIEW F-F
SCALE: NONE



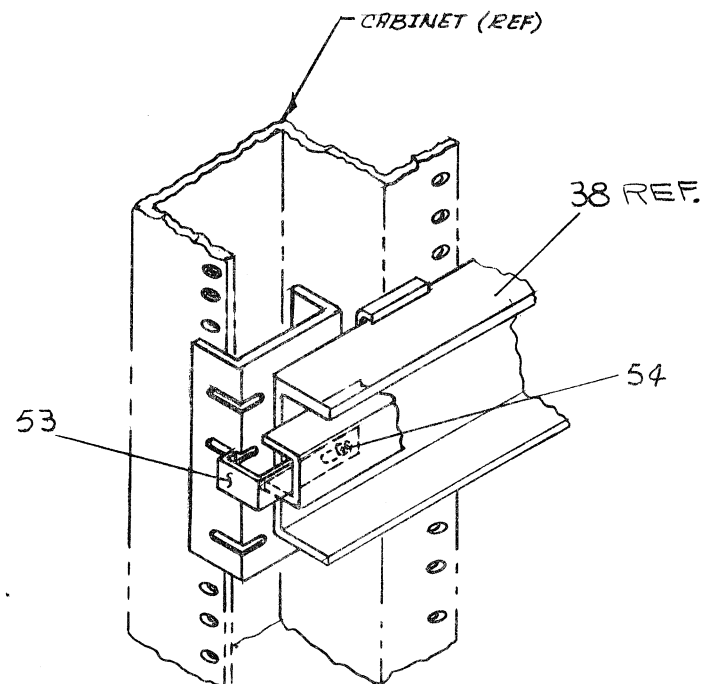
SECTION R-R



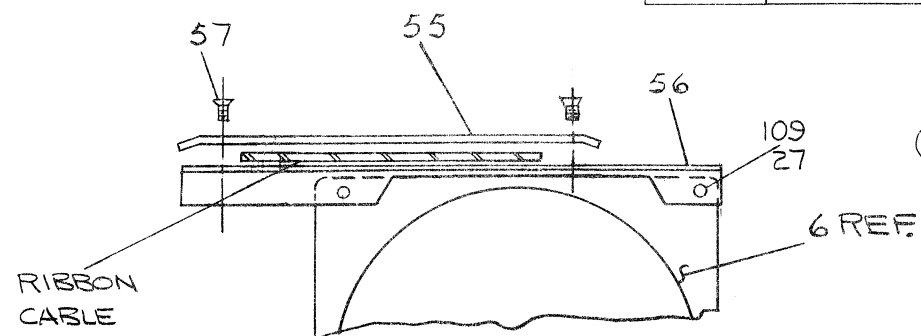
VIEW H-H
SCALE: NONE



TOP VIEW
(WITH TOP COVER)



LOCATION OF SHIPPING
BRACKETS WHEN UNIT IS
SUPPLIED IN CAB. (BOTH SIDES)

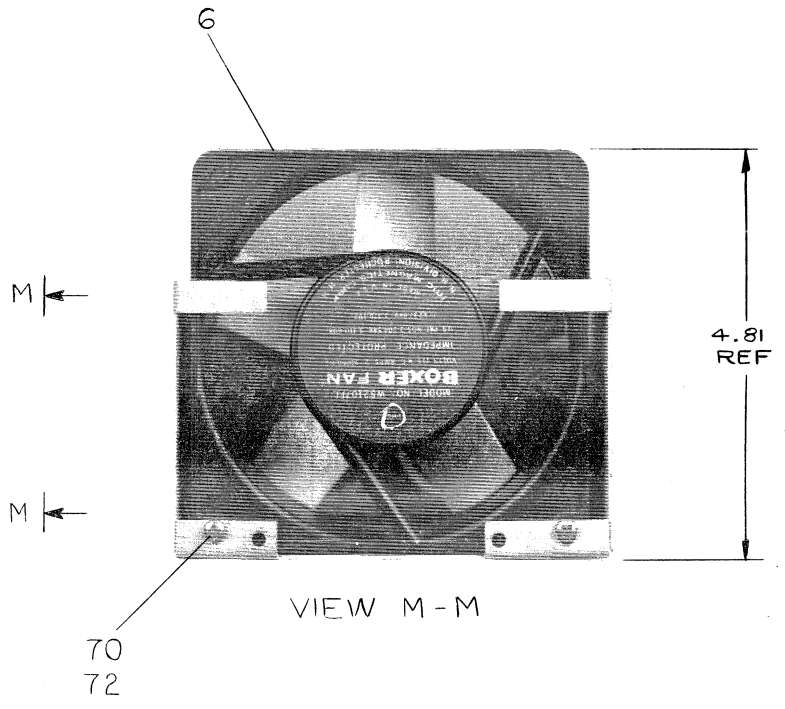
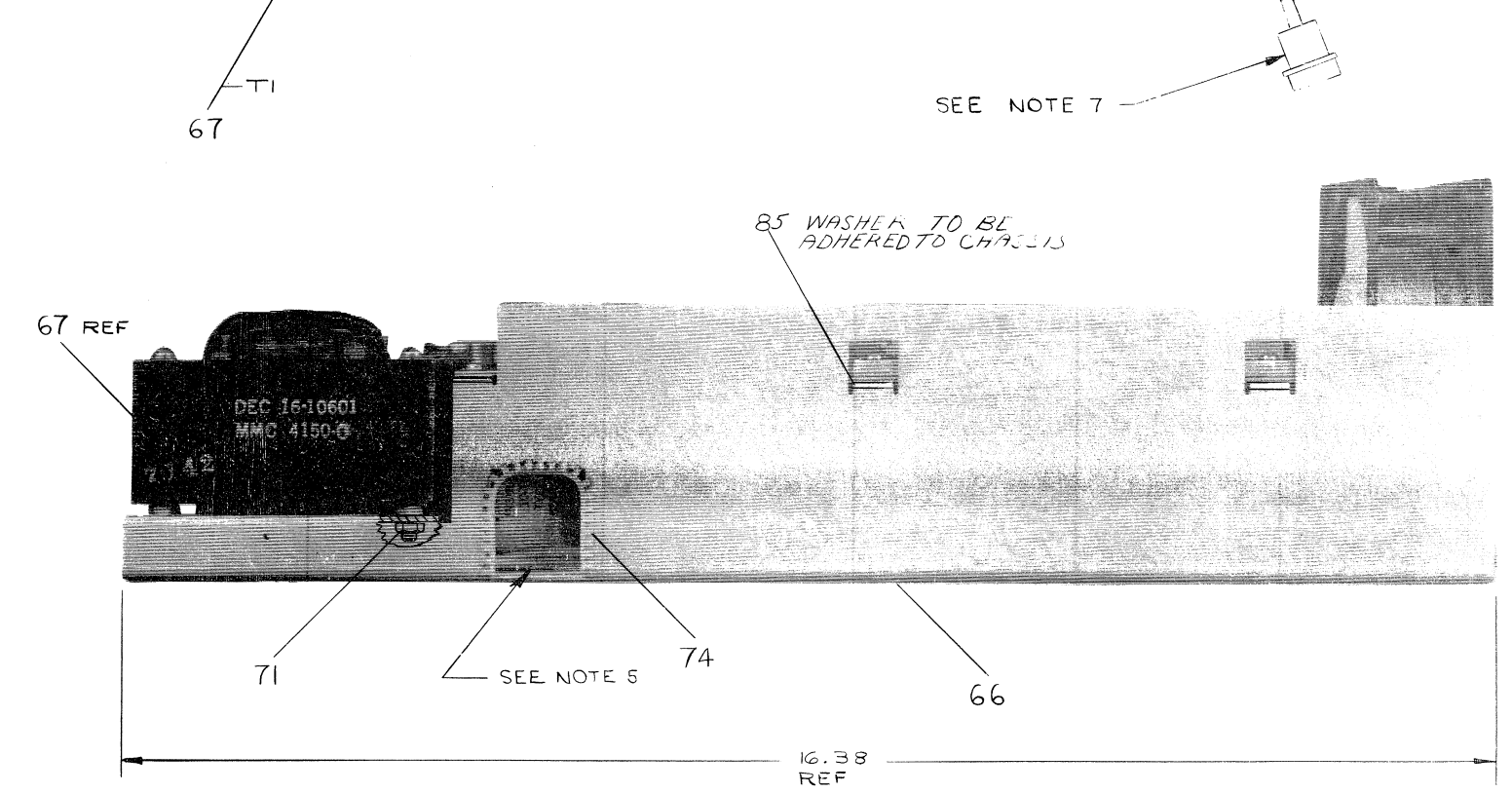
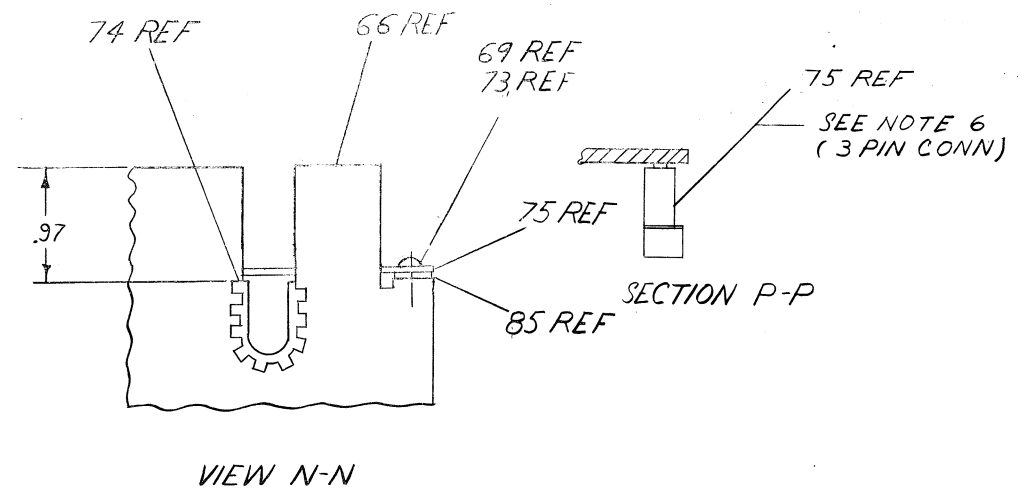
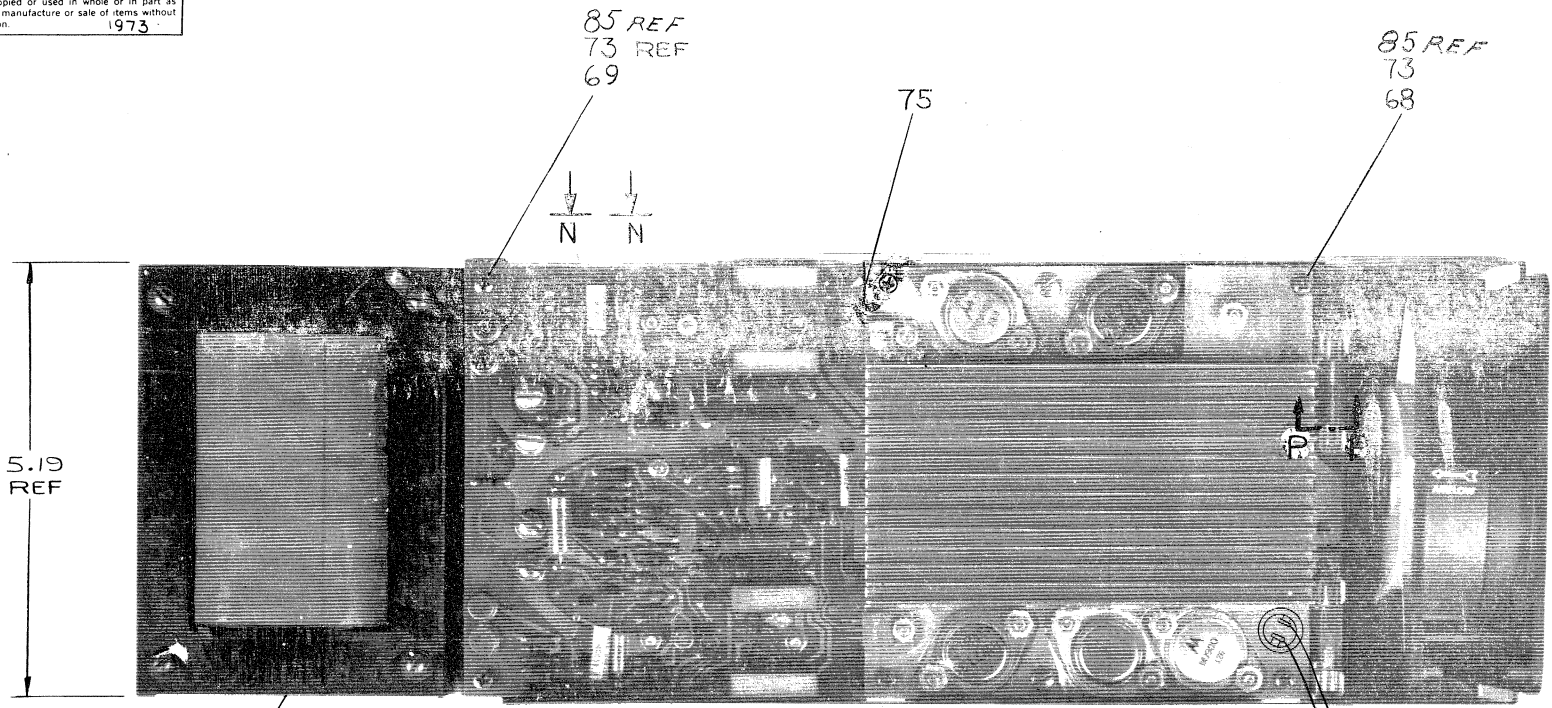


VIEW L-L
SCALE: NONE

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 1105					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		PARTS LIST			
DECIMALS	ANGLES	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
.XXX = .005	±0° 30'	DATE	TITLE		
.XX = .02		DATE	16 BIT COMPUTER		
.X = .1		DATE	ASSY (PDP 1105)		
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY		DATE	DATE		
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH		8-00-1105-0		DUA	1105-0-0
		SCALE: NONE		DIST.	
		SHEET 3 OF 6			

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1973

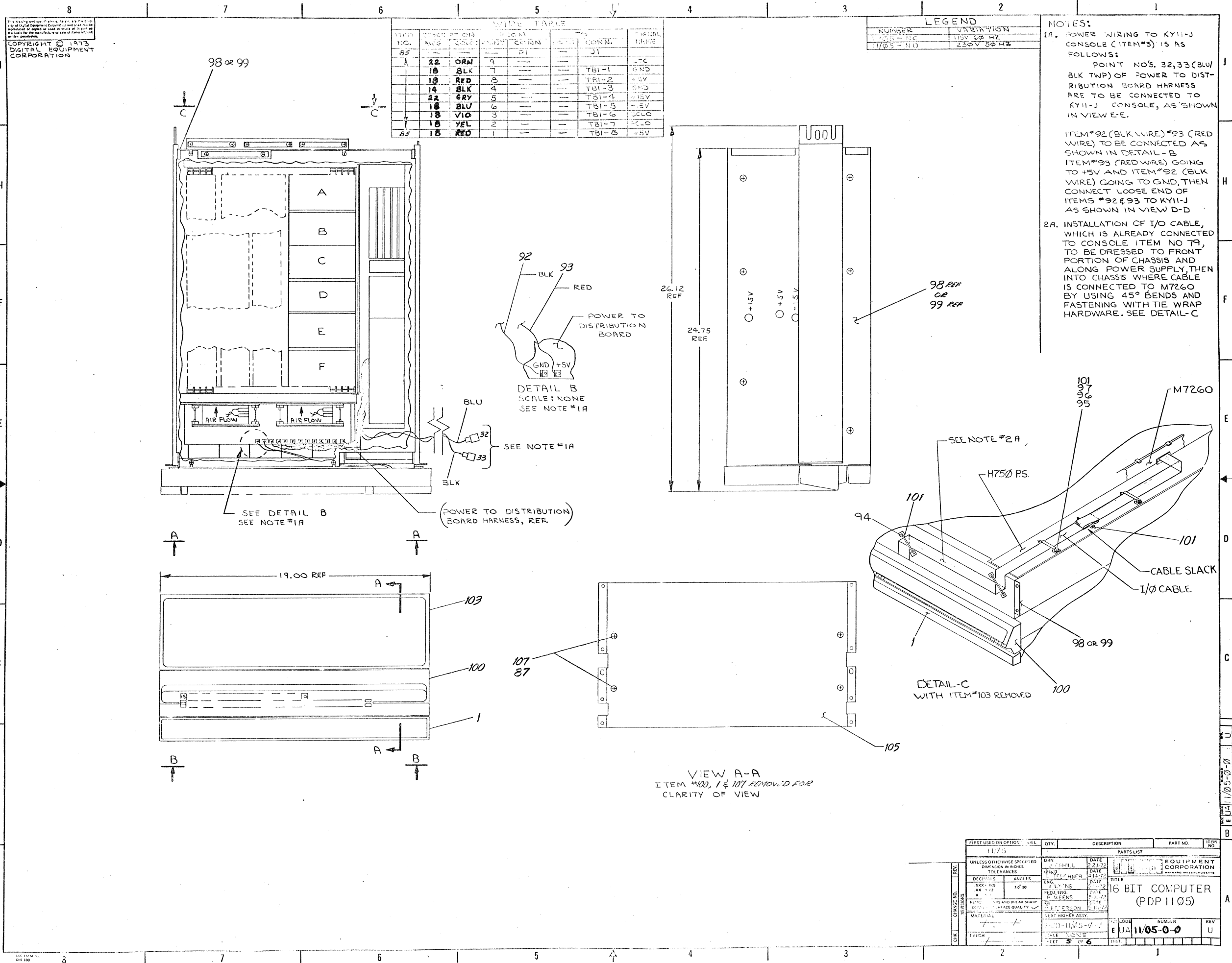
0-0-9011 2 3000 3/15



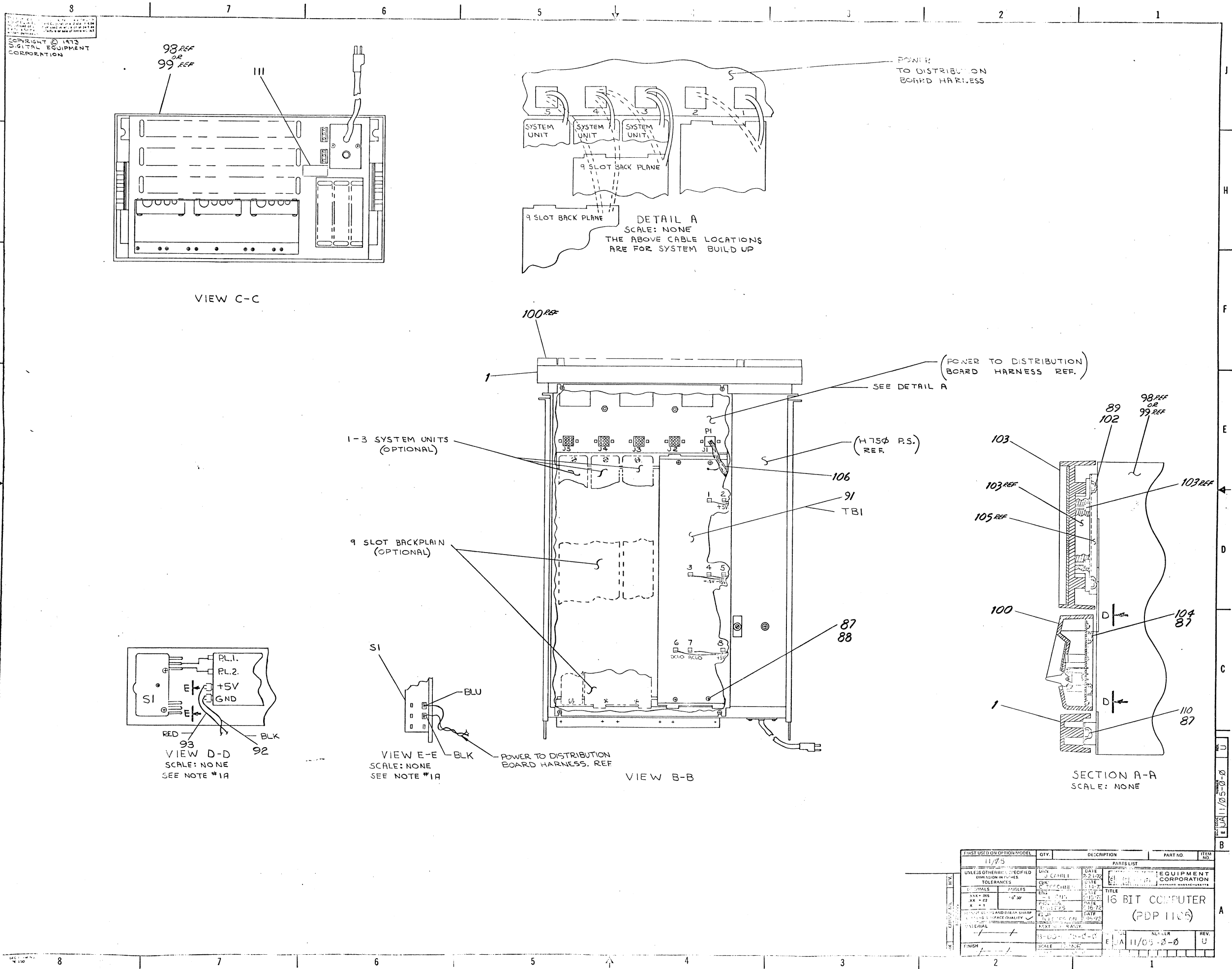
REV	CHG	NO
1	1	1

DEC FORM NO DRD 100-A

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
1105					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN J. CAHILL	DATE 2-24-72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS ANGLES		CHK. C. TESCHNER	DATE 4-14-72		
XXX .005	10' 30'	ENG. A. LYONS	DATE 5-15-72		
XX .02		PROJ. ENG. B. WEEKS	DATE 5-16-72		
X .1		PROD. R. PETERSON	DATE 5-16-72	TITLE 16 BIT COMPUTER ASSY (PDP 1105)	
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY		NEXT HIGHER ASSY.		SIZE CODE DUA	
MATERIAL		B-DD-1105-0		NUMBER 1105-0-0	
SEE PART LIST		SCALE		REV. U	
FINISH		SHEET 4 OF 6		DIST.	



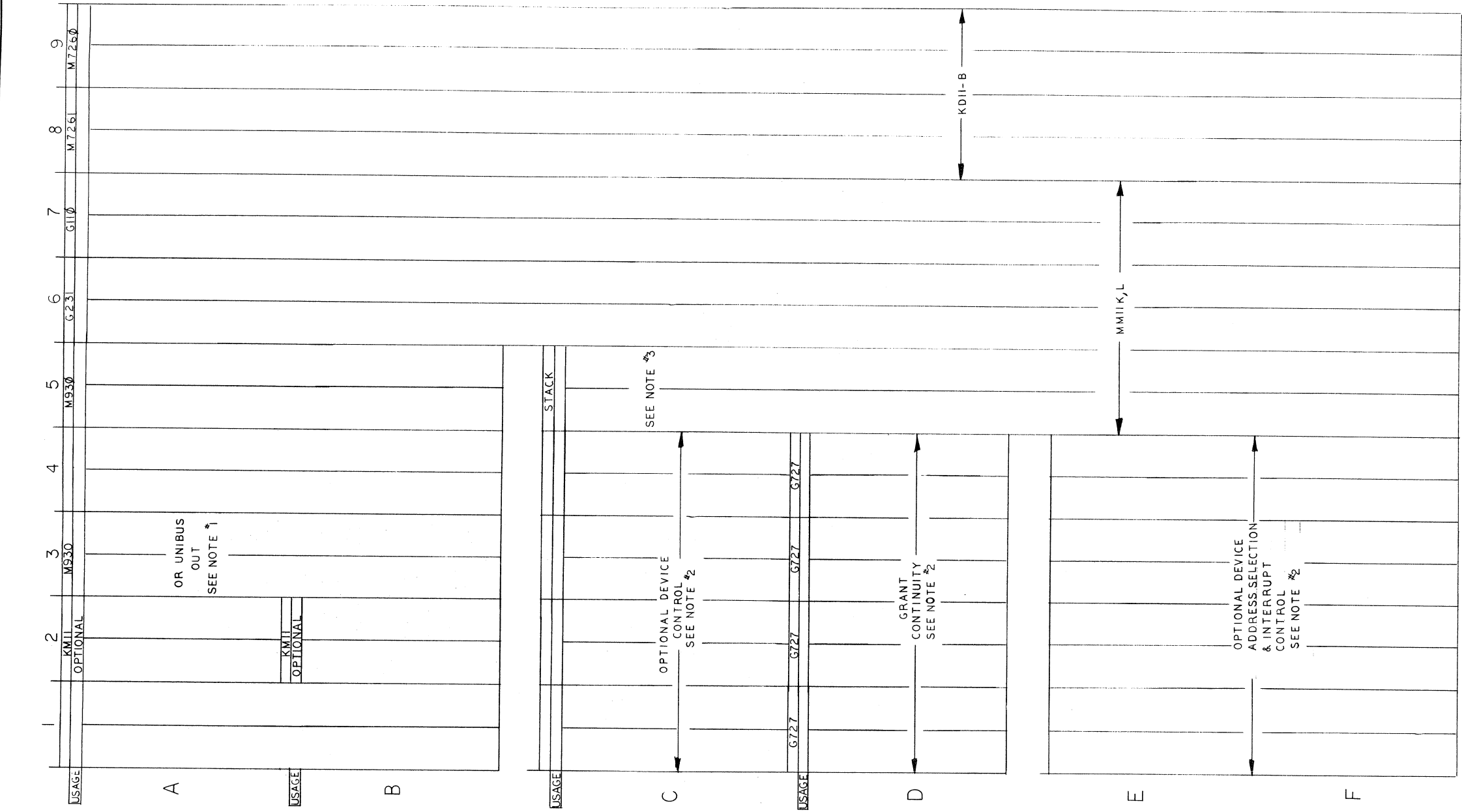
FIRST USED ON OPTION		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/75					
UNLESS OTHERWISE SPECIFIED, DIMENSION IN INCHES, TOLERANCES:					
DECIMALS	ANGLES				
XXX - .005	10° 30'				
XX - .010					
X - .015					
MATERIAL					
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FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/75					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
XX.XX	XX.XX				
X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
XX.XX	XX.XX				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
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UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
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UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
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X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
XX.XX	XX.XX				
X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
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DIMENSION IN INCHES					
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FRACTIONS	DIMENSIONS				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
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FRACTIONS	DIMENSIONS				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
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FRACTIONS	DIMENSIONS				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
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UNLESS OTHERWISE SPECIFIED					
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
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TOLERANCES					
FRACTIONS	DIMENSIONS				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
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FRACTIONS	DIMENSIONS				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
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FRACTIONS	DIMENSIONS				
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UNLESS OTHERWISE SPECIFIED					
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
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DIMENSION IN INCHES					
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FRACTIONS	DIMENSIONS				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
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UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
XX.XX	XX.XX				
X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
XX.XX	XX.XX				
X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
XX.XX	XX.XX				
X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
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XX.XX	XX.XX				
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HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
XX.XX	XX.XX				
X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
XX.XX	XX.XX				
X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
XX.XX	XX.XX				
X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
XX.XX	XX.XX				
X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
XX.XX	XX.XX				
X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
XX.XX	XX.XX				
X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
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XX.XX	XX.XX				
X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
XX.XX	XX.XX				
X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
FRACTIONS	DIMENSIONS				
XXX.XXX	XXX.XXX				
XX.XX	XX.XX				
X.X	X.X				
HOLE LOCATIONS AND DIA. SHARP CORNERS: SURFACE QUALITY					
MATERIAL					
FINISH					

[illegible]

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- NOTES:
1. BEFORE THE 1105 IS CONNECTED TO OTHER SYSTEM OPTIONS, THE M930 BUS TERMINATOR IS IN LOCATION A, B03. THIS TERMINATOR IS MOVED TO THE END SYSTEM OPTION UPON INTERCONNECTION
 2. PREWIRED MODULE SLOTS FOR SMALL PERIPHERAL OPTIONS. WITH NO OPTIONS INSTALLED, BUS GRANT CONTINUITY IS PROVIDED BY G727 MODULE IN LOCATION D01, D02, D03, D04. THE G727 IS REMOVED WHEN A SMALL PERIPHERAL OPTION IS INSTALLED
 3. IF MM11-K, STACK IS H213
IF MM11-L, STACK IS H214

REV.	CHANGE NO.	REVISIONS

CONFIGURATION #2
(8 K)

1	CENTRAL PROCESSOR	B-DD-KD11-B-0	5
4	GRANT CONTINUITY	A-PL-G727-0-0	4
1	16BIT 18 MIL MEMORY	B-DD-MM11-L-0	3
2	BUS TERMINATOR	A-PL-M930-0-0	2
*	MAINTENANCE BOARDS	A-PL-KM11-0-0	1

FIRST USED ON OPTION/MODEL PDP-1105		QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		PARTS LIST			
DECIMALS	ANGLES	DRN C. Teschner	DATE 4-24-72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
.XXX = .005	± 0° 30'	CHKD R. K. White	DATE 5-4-72	TITLE MODULE UTILIZATION (8K)	
.XX = .02		ENG. R. K. White	DATE 5-4-72	SIZE CODE D MU	
.X = .1		PROD. R. K. White	DATE 5-4-72	NUMBER 1105-0-02	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		REV.			
MATERIAL		NEXT HIGHER ASSY.			
FINISH		SCALE			
SHEET 1 OF 1		DIST.			

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NOTES:

1. BEFORE THE 1105 IS CONNECTED TO OTHER SYSTEM OPTIONS, THE M930 BUS TERMINATOR IS IN LOCATION A, B02. THIS TERMINATOR IS MOVED TO THE END SYSTEM OPTION UPON INTERCONNECTION
2. PREWIRED MODULE SLOTS FOR SMALL PERIPHERAL OPTIONS. WITH NO OPTIONS INSTALLED, BUS GRANT CONTINUITY IS PROVIDED BY G727 MODULE IN LOCATION D01. THE G727 IS REMOVED WHEN A SMALL PERIPHERAL OPTION IS INSTALLED
3. IF MM11K, STACK IS H213
IF MM11L, STACK IS H214

CONFIGURATION *
(16K)

1	CENTRAL PROCESSOR	B-DD-KD11-B-0	5
1	GRANT CONTINUITY	A-PL-G727-0-0	4
1	16BIT 18 MIL MEMORY	B-DD-MM11-L-0	3
2	BUS TERMINATOR	A-PL-M930-0-0	2
*	MAINTENANCE BOARDS	A-PL-KM11-0-0	1

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	CENTRAL PROCESSOR	B-DD-KD11-B-0	5
1	GRANT CONTINUITY	A-PL-G727-0-0	4
1	16BIT 18 MIL MEMORY	B-DD-MM11-L-0	3
2	BUS TERMINATOR	A-PL-M930-0-0	2
*	MAINTENANCE BOARDS	A-PL-KM11-0-0	1

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP-1105				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN. C. Teschner	DATE 4-24-72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	CHKD. J. A. L. L.	DATE 5-4-72		
ANGLES	ENG. J. A. L. L.	DATE 5-4-72		
.XXX = .005 .XX = .02 .X = .1	PROV. ENG. J. A. L. L.	DATE 5-4-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. J. A. L. L.	DATE 5-4-72	MODULE UTILIZATION (16K)	
MATERIAL	NEXT HIGHER ASSY.			
FINISH	D-UA-1105-0-0	SCALE		
	UA-1105-0-0			

SIZE CODE	NUMBER	REV.
DMU	1105-0-01	

SHEET	OF	DIST.
1	1	

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NOTES:

1. BEFORE THE 11Ø5 IS CONNECTED TO OTHER SYSTEM OPTIONS, THE M93Ø BUS TERMINATOR IS IN LOCATION A, BØ9. THIS TERMINATOR IS MOVED TO THE END SYSTEM OPTION UPON INTERCONNECTION.
2. IF MM11-K, STACK IS H213; IF MM11-L, STACK IS H214.

FIRST USED ON OPTION/MODEL		QTY.		DESCRIPTION		PART NO.		ITEM NO.	
PDP-11Ø5									
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN. <i>K. Davis</i>		DATE 12-11-72		digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS			
DECIMALS .XXX = .005 .XX = .02 .X = .1		CHK'D <i>[Signature]</i>		DATE 1-17-73		TITLE			
ANGLES ±0° 30'		ENG. <i>[Signature]</i>		DATE 1-17-73		MODULE UTILIZATION (16K)			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROJ. ENG. <i>[Signature]</i>		DATE 1-17-73		REV.			
MATERIAL		NEXT HIGHER ASSY.		PROD. <i>[Signature]</i>		DATE 1-23-73		REV.	
FINISH		SCALE		SHEET		OF		DIST.	
		D-ØA-11Ø5-Ø-Ø		SIZE CODE		NUMBER		REV.	
				DMU		11Ø5-Ø-Ø7			

1	M997Ø	D-CS-M997Ø-Ø-1	5
1	CENTRAL PROCESSOR	B-DD-KD11-B-Ø	4
1	16 BIT 18 MIL MEMORY	B-DD-MM11-L-Ø	3
2	BUS TERMINATOR	A-PL-M93Ø-Ø-Ø	2
*	MAINTENANCE BOARDS	A-PL-KM11-Ø-Ø	1

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

X					
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SEQUENCE

SEQUENCE

16 BIT PROCESSOR KD11-B	B-DD-KD11-B
MICROPROGRAM FLOW	K-MP-KD11-B-1
MICROPROGRAM SYMBOLIC LISTING	K-MP-KD11-B-2
MICROPROGRAM BINARY LISTING	K-MP-KD11-B-3
MICROPROGRAM CROSS REF. LISTING	K-MP-KD11-B-4
DATA PATHS	E-CS-M726 0 - 0 -1
DATA PATH ROM PATTERNS	K-RL-M726 0 - 0 -8
CONTROL LOGIC & MICROPROGRAMS	E-CS-M7261- 0 -1
CONTROL LOGIC ROM PATTERNS	K-RL-M7261- 0 -8

B-DD-KD11-B
K-MP-KD11-B-1
K-MP-KD11-B-2
K-MP-KD11-B-3
K-MP-KD11-B-4
E-CS-M7261-0-1
K-RL-M7261-0-8
E-CS-M7261-0-1
K-RL-M7261-0-8

UNIT VARIATIONS

PRINT SET TYPE

VARIATION

T I T L E

KD11-B

16 BIT PROCESSOR

1

REV	REV
A	B
C	D

USED ON OPTION/MODEL

DRN.
J. CAHILL

DATE
4/21/72

TITLE

16 BIT PROCESSOR

KD 11-B

CHK'D.
C. Teschner

DATE
5-15-72

PROJ ENG.
A. Tachar

DATE	5-16-72
------	---------

PROD.

DATE

FIELD SERV.

DATE _____

SHEET

07

SIZE CODE

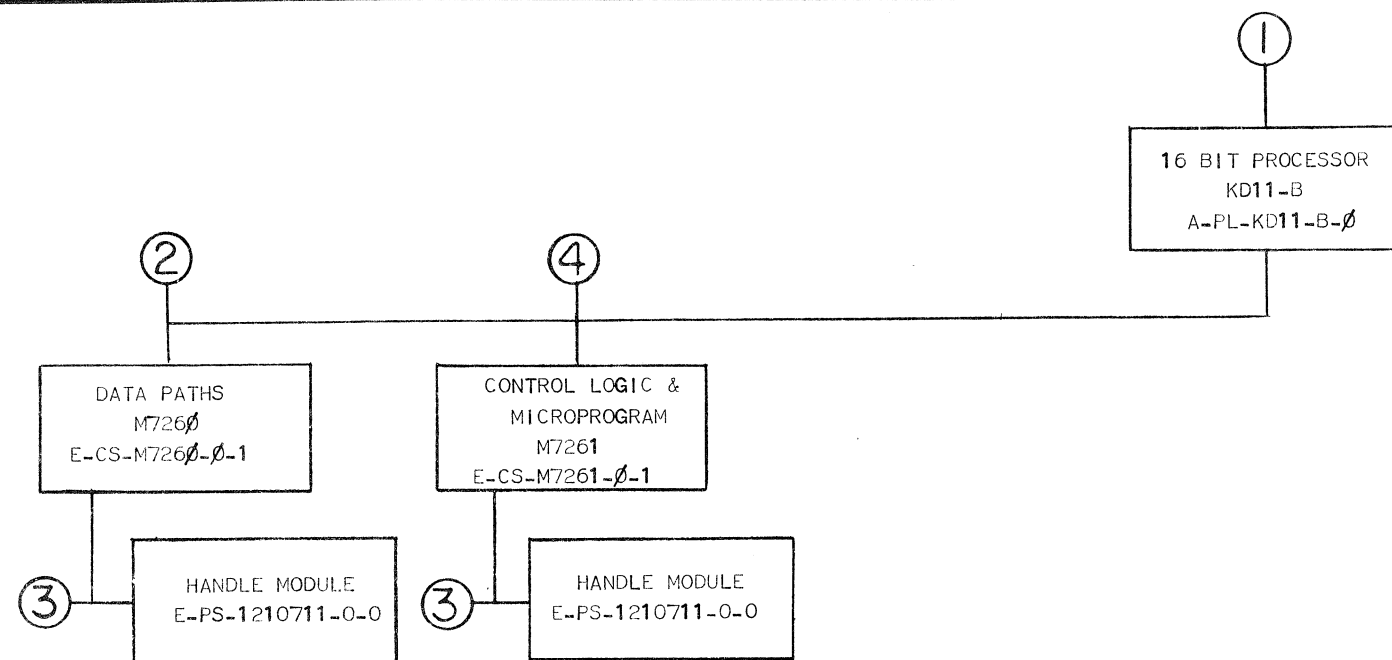
NUMBER

DD

K 7 1 - E

REV

D



TITLE	SIZE	CODE	NUMBER	REV
16 BIT PROCESSOR KD11-B	B	DD	KD11-B	D

NOTES ON NOTATION:

1. MICROROUTINES BEGIN WITH A COMMENT THE FIRST CHARACTER OF WHICH IS 'N'.
2. ALL OTHER COMMENTS BEGIN WITH ';;'.
3. RCNJ REFERS SCRATCH PAD REGISTER N. RC7J IS ALSO REFERRED TO AS 'PC'.
4. RCSJ REFERS TO THAT REGISTER SPECIFIED IN THE SOURCE PORTION OF THE CURRENT INST. (IR<119>). LIKEWISE, RCDJ REFERS TO THAT REG SPECIFIED IN THE DESTINATION PORTION OF THE CURRENT INST. (IR<210>).
5. KCNJ REFERS TO THAT LOCATION OF THE CONSTANTS CHIP CONTAINING THE CONSTANT N.
6. 'BUT' STANDS FOR 'BRANCH ON MICRO TEST'.

```
LOC  NXT  * INSTRUCTION FETCH
062 053 F=1  BA=PCJ DAT1
053 365 F=2  B=PC=2
053 364 F=3  PC=BJ CKOFF
364 061 F=4  B1R=UNIBUS DATA
061 001 F=5  B=8 SEX; BUT IR DECODE
      / IF DOUBLE OP INST GOTO S0=1 THRU S7=1 DEPENDING ON SOURCE MODE
      / IF SINGLE OP INST GOTO D0=1 THRU D7=1 DEPENDING ON DEST MODE (INCLUDING JSR)
      / IF BRANCH, CHANGE PC GOTO B=1
      / IF CLEAR OR SET COND CODE(S) GOTO CCM=1
      / IF INST=RTS GOTO RI=1
      / IF INST=RTI GOTO R2=1
      / IF INST=WAIT GOTO W=1
      / IF INST=HALT GOTO H=1
      / IF INST=RESET GOTO RST=1
      / IF INST=EMT GOTO ET=1
      / IF INST=BREAKPOINT TRAP GOTO BT=1
      / IF INST=IOT GOTO I=1
      / IF INST=TRAP GOTO T=1
      / IF RESERVED INST (NONE OF THE ABOVE) GOTO RT=1
```

```
LOC  NXT  * SOURCE MODE 0 (REGISTER), GET SOURCE DATA
201 007 / GET TO S1=1 FROM F=5 VIA BUT IR DECODE (IR<119>)=0
      S0=1 BA=RCJ DAT1; BUT BYTE
007 001 / IF BYTE INST GOTO SBE=1 (MUST BE EVEN BYTE)
      S0=2 RC[0]B; BUT DESTINATION
      / IF IR<513> =0 GOTO D0=1
      / =1 D1=1
      / =2 D2=1
      / =3 D3=1
      / =4 D4=1
      / =5 D5=1
      / =6 D6=1
      / =7 D7=1
```

```
LOC  NXT  * SOURCE MODE 1 (REG; DEFERRED) GET SOURCE DATA
203 244 / GET TO S1=1 FROM F=5 VIA BUT IR DECODE (IR<119>)=0
      S1=1 BA=RCJ DAT1; CKOFF; ALBYT
      / GET TO S1=2 FROM S2=3 VIA GOTO
      / " S3=5 "
      / " S6=5 "
244 007 S1=2 BA=UNIBUS DATA; BUT BYTE; GOTO S0=2
      / IF ODD BYTE GOTO S0=1
      / IF EVEN BYTE GOTO SBE=1
      / IF NOT BYTE FALL THROUGH TO S0=2
```

```
LOC  NXT  * SOURCE MODE 2 (AUTO=INC;) GET SOURCE DATA
205 301 / GET TO S2=1 FROM F=5 VIA BUT IR DECODE (IR<119>)=0
301 014 S2=1 BA=RCJ DAT1; ALBYT
      S2=2 BA=RCJ+1+BYTE; BAR
014 244 / GET TO S2=3 FROM S4=1 VIA GOTO
      S2=3 RC[5]B; CKOFF; GOTO S1=2
```

```
LOC  NXT  *SOURCE MODE 3 (AUTO=INC DEFERRED) GET SOURCE DATA
207 016 / GET TO S3=1 FROM F=5 VIA BUT IR DECODE (IR<119>)=0
016 017 03=1 BA=RCJ DAT1; (MUST BE AN EVEN ADDRESS HERE)
      03=2 BA=RCJ+2
```

K-MP-KD-118-B-1
rev. B

```

017 134 / GET TO S3=3 FROM S5=1 VIA GOTO
      S3=3 R1<S1>B1 CKOFF
134 274 / GET TO S3=4 FROM S7=5 VIA GOTO
274 244 S3=4 B=UNIBUS DATA
      S3=5 BA=B1 DAT11 CKOFF1 GOTO S1=21 ALBYT

```

```

LOC NXT * SOURCE MODE 4 (AUTO=DEC) GET SOURCE DATA
211 014 / GET TO S4=1 FROM F=5 VIA BUT IR DECODE IR<1119>=4
      S4=1 B,BA=RC1<S1>=BYTE, BAR1 DAT11 ENABOVER1 GOTO S3=31 ALBYT

```

```

LOC NXT * SOURCE MODE 5 (AUTO=DEC DEFERRED) GET SOURCE DATA
213 017 / GET TO S5=1 FROM F=5 VIA BUT IR DECODE IR<1119>=5
      S5=1 B,BA=RES1=21 DAT11(MUST BE AN EVEN ADDRESS HERE)1 ENABOVER1 GOTO S3=3

```

```

LOC NXT * SOURCE MODE 6 (INDEXED) GET SOURCE DATA
215 025 / GET TO S6=1 FROM F=5 VIA BUT IR DECODE IR<1119>=6
      S6=1 BA=PC1 DAT11(MUST BE EVEN ADDRESS HERE)
225 026 S6=2 B=PC=2
226 027 S6=3 PC=B1 CKOFF
227 030 S6=4 B=UNIBUS DATA
230 244 S6=5 BA=B=RC1<S1> DAT11 CKOFF1 GOTO S1=21 ALBYT

```

```

LOC NXT * SOURCE MODE 7 (INDEXED DEFERRED) GET SOURCE DATA
217 032 / GET TO S7=1 FROM F=5 VIA BUT IR DECODE IR<1119>=7
      S7=1 BA=PC1 DAT11(MUST BE AN EVEN ADDRESS HERE)
232 033 S7=2 B=PC=2
233 034 S7=3 PC=B1 CKOFF
234 035 S7=4 B=UNIBUS DATA
235 134 S7=5 BA=B=RC1<S1> DAT11(MUST BE AN EVEN ADDRESS) 1 CKOFF1 GOTO S3=4

```

```

LOC NXT * SOURCE BYTE ODD
067 346 / GET TO S80=1 FROM S1=2 VIA BUT BYTE (BYTE INST, AND SOURCE DATA ODD ADDR)
      S80=1 SHIFT B RIGHT1 F SHIFT
346 324 S80=2 SHIFT B RIGHT1 F SHIFT
324 340 S80=3 SHIFT B RIGHT1 F SHIFT
340 361 S80=4 SHIFT B RIGHT1 F SHIFT
361 050 S80=5 SHIFT B RIGHT1 F SHIFT
050 020 S80=6 SHIFT B RIGHT1 F SHIFT
020 052 S80=7 SHIFT B RIGHT1 F SHIFT
052 047 S80=8 SHIFT B RIGHT1 GOTO SBE=1

```

```

LOC NXT * SOURCE EVEN BYTE
047 001 / GET TO SBE=1 FROM S80=8 VIA GOTO
      / GET TO SBE=1 FROM S1=2 VIA BUT BYTE, (BYTE INST AND SOURCE DATA EVEN ADDR)
      / GET TO SBE=1 FROM S0=1 VIA BUT BYTE, (BYTE INST,)
      SBE=1 R1<101>=8 SEX1 BUT DESTINATION
      / IF IR<513> =0 GOTO D0=1
      / " " =1 " " D1=1
      / " " =2 " " D2=1
      / " " =3 " " D3=1
      / " " =4 " " D4=1
      / " " =5 " " D5=1
      / " " =6 " " D6=1
      / " " =7 " " D7=1

```

```

LOC NXT * DEST, MODE 0 (REGISTER), GET DEST DATA, OP, AND REPLACE
101 154 / GET TO D0=1 FROM S0=2 VIA BUT DESTINATION (IR<513>=0)
      / GET TO D0=1 FROM SBE=1 VIA BUT DESTINATION (IR<513>=0)
      D0=1 B=RC1<S1> BUT MOVE
      / IF INST=MOVE, BAR (OTHER THAN MOVE) AND BYTE GOTO D0=1
      / IF INST=MOVE AND BYTE GOTO MB=0
      / IF INST=MOVE AND BYTE, BAR GOTO D0=3A
      / IF INST=MOVE, BAR AND BYTE, BAR FALL THROUGH TO D0=2
127 142 D0=2 R1<113>=81 BUT UNARY
      / IF INST=JMP OR JSR GOTO ERR=1 (ILLEGAL INST, TRAP)
      / IF INST=SHAB GOTO SBI=1
      / IF INST=OTHER UNARY(CLR, COM, INC, DEC, NEG, ADC, SBC, TST, ROR, ROL, ASR, ASL) GOTO U1=1
      / GET TO D0=3 FROM U1=1 VIA GOTO
      / GET TO D0=3 FROM D0=1 VIA BUT BYTE (INST=MOVE AND BYTE, BAR)

```



```
162 332 D0=3 B=RC10J OP BJ BUT NONMOD
      / SEE DESCRIPTION OF AUXILIARY ALU CONTROL (AUX CONTROL)
      / FOR MORE DETAILS ON WHAT /OP/ ACCOMPLISHES
      / THERE EXISTS A D03=0A WHICH IS IDENTICAL TO D0=3 EXCEPT LOC=155
      / GET TO D0=3A FROM S81=8 VIA GOTO
      / IF NONMOD GOTO B2=2 (BUT SERVICE)
      / IF NOT NONMOD FALL THROUGH TO D0=4
      / GET TO D0=4 FROM R1=6 VIA GOTO
D0=4 R0J=8J BUT SERVICE
      / PRIORITIES ARE LISTED HIGHEST TO LOWEST
      / IF T BIT TRAP GOTO B7=1
      / IF STACK OVERFLOW GOTO ENTERA
      / IF POWERFAIL GOTO PF=1
      / IF B7 GOTO B0=1
      / IF B6 GOTO B0=1
      / IF INTERNAL LINE CLOCK GOTO LC=1
      / IF B5 GOTO B0=1
      / IF B4 GOTO B0=1
      / IF UATR RECEIVE GOTO UTRX
      / IF UATR TRANSMIT GOTO UTRX
      / IF CONSOLE STOP GOTO M=1
      / IF NONE OF THE ABOVE GOTO F=1
```

```
LOC NXT * DEST, MODE 1 (REG DEFERRED) GET DEST DATA, OP, AND REPLACE
103 200 / GET TO D1=1 FROM S0=2 VIA BUT DESTINATION (IR<5:3>=1)
      D1=1 B=BA=RC0J DATIPJ BUT JSRMPJ ALBTJ CKOFF
      / NOTE DATA IN PAUSE HERE
      / IF INST=JMP GOTO J1=1
      / IF INST=JSR GOTO J2=1
      / IF INST NOT JMP OR JSR FALL THROUGH TO D1=2
      / GET TO D1=2 FROM D2=3 VIA GOTO
      / GET TO D1=2 FROM D3=5 VIA GOTO
      / GET TO D1=2 FROM D6=5 VIA GOTO
200 210 D1=2 B=UNIBUS DATAJ BUT BYTE
      / IF ODD BYTE GOTO D0=1
      / IF EVEN BYTE GO TO DE=1
      / IF NOT BYTE FALL THROUGH TO D1=3
210 143 D1=3 R11J=8J BUT UNARY
      / IF INST=SHAB GOTO S82=1
      / IF INST=OTHER UNARY (CLR, COM, INC, DEC, NEG, ADD, SBC, TST, ROR, ROL, ASR, ASL) GOTO U2=1
      / GET TO D1=4 FROM DE=1 VIA BUT UNARY (NON UNARY)
      / GET TO D1=4 FROM U2=1 VIA GOTO
      / GET TO D1=4 FROM S82=8 VIA GOTO
163 334 D1=4 B=RC10J OP BJ BUT NONMOD
      / SEE DESCRIPTION OF AUXILIARY ALU CONTROL (AUX CONTROL)
      / FOR MORE DETAILS ON WHAT /OP/ ACCOMPLISHES
```

```
334 065 / IF NONMOD GOTO B2=2 (BUT SERVICE)
      / IF NOT NONMOD FALL THROUGH TO D1=5
      D1=5 DAT0J ALBTJ CKOFF
065 305 / GET TO D1=6 FROM D0=18 VIA GOTO
      D1=6 DRIVERS=8J GOTO B2=2 (BUT SERVICE)
```

```
LOC NXT * DEST MODE 2 (AUTO-INC) GET DEST DATA, OP AND REPLACE
105 331 / GET TO D2=1 FROM S0=2 VIA BUT DESTINATION (IR<5:3>=2)
      / GET TO D2=1 FROM S8E=1 VIA BUT DESTINATION (IR<5:3>=2)
      D2=1 B=ARCDJ DATIPJ ALBTJ
331 341 / NOTE DATA IN PAUSE HERE
      D2=2 B=RC0J+1+BYTE=BAR
      / GET TO D2=3 FROM D4=1 VIA GOTO
341 200 D2=3 RC0J=8J BUT JSRMPJ GOTO D1=2J CKOFF
      / IF INST=JMP GOTO J1=1
      / IF INST=JSR GOTO J2=1
      / IF INST NOT JMP OR JSR FALL THROUGH TO D1=2
```

```
LOC NXT * DEST MODE 3 (AUTO-INC DEFERRED) GET DEST DATA, OP AND REPLACE
107 160 / GET TO D3=1 FROM S0=2 VIA BUT DESTINATION (IR<5:3>=3)
160 070 / GET TO D3=1 FROM S8E=1 VIA BUT DESTINATION (IR<5:3>=3)
      D3=1 B=ARCDJ DATI
      D3=2 B=RC0J+2
070 071 / GET TO D3=3 FROM D5=1 VIA GOTO
      D3=3 RC0J=8J CKOFF
071 072 / GET TO D3=4 FROM D7=5 VIA GOTO
072 200 D3=4 B=UNIBUS DATA
      D3=5 B=8J DATIPJ BUT JSRMPJ GOTO D1=2J ALBTJ CKOFF
      / NOTE DATA IN PAUSE HERE
      / IF INST=JMP GOTO J1=1
      / IF INST=JSR GOTO J2=1
      / IF INST NOT JMP OR JSR FALL THROUGH TO D1=2
```

```
LOC NXT * DEST MODE 4 (AUTO-DEC) GET DEST DATA, OP AND REPLACE
111 341 / GET TO S4=1 FROM S0=2 VIA BUT DESTINATION (IR<5:3>=4)
      / GET TO S4=1 FROM S8E=1 VIA BUT DESTINATION (IR<5:3>=4)
      D4=1 B=BA=RC0J-1+BYTE=BARJ DATIPJ ENABOVERJ GOTO D2=3J ALBTJ
```

```

LOC  NXT  * DEST MODE 5 (AUTO=DEC DEFERRED) GET DEST DATA, OP, AND REPLACE
          / GET TO D0=1 FROM S0=2 VIA BUT DESTINATION (IR<513>=5)
          / GET TO D0=1 FROM S0=1 VIA BUT DESTINATION (IR<513>=5)
113  070  D0=1 B,BA=REDJ02) DAT1) ENABOVER) GOTO D3=3

```

```

LOC  NXT  * DEST MODE 6 (INDEXED) GET DTA,OP, AND REPLACE
          / GET TO D0=1 FROM S0=2 VIA BUT DESTINATION (IR<513>=6)
          / GET TO D0=1 FROM S0=1 VIA BUT DESTINATION (IR<513>=6)
115  075  D0=1 BA=PC1 DAT1
077  077  D0=2 B=PC+2
077  057  D0=3 PC=BI CKOFF
057  300  D0=4 B=UNIBUS DATA
300  200  D0=5 B,BA=8+RC03) DAT1) BUT JSRMP) GOTO D1=2) ALBYT) CKOFF
          / NOTE DATA IN PUASE HERE
          / IF INST=JMP GOTO J1=1
          / IF INST=JSR GOTO J2=1
          / IF INST NOT JMP OR JSR FALL THROUGH TO D1=2

```

```

LOC  NXT  * DEST MODE 7 (INDEXED DEFERRED) GET DEST DATA,OP, AND REPLACE
          / GET TO D7=1 FROM S0=2 VIA BUT DESTINATION (IR<513>=7)
          / GET TO D7=1 FROM S0=1 VIA BUT DESTINATION (IR<513>=7)
117  310  D7=1 BA=PC1 DAT1
310  104  D7=2 B=PC+2
104  320  D7=3 PC=BI CKOFF
320  106  D7=4 B=UNIBUS DATA
106  071  D7=5 BA=8+REDJ) DAT1) CKOFF) GOTO D3=4

```

```

LOC  NXT  * DESTINATION MODE 0, BYTE
156  144  / GET TO D0=1 FROM D0=1 VIA BUT BYTE (BYTE INST AND MOVE, BAR)
          DB0=1 RC11) B=8 SEX) BUT UNARY
          / IF UNARY OTHER THAN JSR, JMP, OR SWAB (CLR,COM,INC,DEC,NEG,ADG,SRG,TST,ROB,ROL,ASR,ASL) GOTO U3=1

```

```

164  304  / IF NOT UNARY FALL THROUGH TO D0=2
          DB0=2 B=RC103 OP BI) BUT NONMOD
          / SEE DESCRIPTION OF AUXILIARY ALU CONTROL (AUX CONTROL)
          / FOR MORE DETAILS ON WHAT /OP/ ACCOMPLISHES
          / IF NONMOD GOTO B2=2 (SERVICE)
          / IF NOT NONMOD FALL THRU TO D0=3
304  040  DB0=3 RC107) Q=8) BUT SERVICE) GOTO F=1
          / PRIORITIES ARE LISTED HIGHEST TO LOWEST
          / IF T BIT TRAP GOTO BT=1
          / IF STACK OVERFLOW GOTO ERT1A
          / IF POWER FAIL GOTO PF=1
          / IF B7 GOTO BG=1
          / IF B6 GOTO BG=1
          / IF INTERNAL LINE CLOCK GOTO LC=1
          / IF B5 GOTO BG=1
          / IF B4 GOTO BG=1
          / IF UARY RECEIVE GOTO URTR
          / IF UARY TRANSMIT GOTO URTX
          / IF CONSOLE STOP GOTO H=1
          / IF NONE OF THE ABOVE GOTO F=1

```

```

LOC  NXT  * DESTINATION ODD BYTE
270  123  / GET TO D0=1 FROM D1=2 VIA BUT BYTE (BYTE INST AND ODD ADDR)
123  124  D0=1 SHIFT B RIGHT) F SHIFT
124  125  D0=2 SHIFT B RIGHT) F SHIFT
125  126  D0=3 SHIFT B RIGHT) F SHIFT
126  127  D0=4 SHIFT B RIGHT) F SHIFT
127  130  D0=5 SHIFT B RIGHT) F SHIFT
130  131  D0=6 SHIFT B RIGHT) F SHIFT
131  132  D0=7 SHIFT B RIGHT) F SHIFT
132  145  D0=8 RC11) B=8 SEX) BUT UNARY
          / IF UNARY OTHER THAN JSR, JMP, OR SWAB (CLR,COM,INC,DEC,NEG,ADG,SRG,TST,ROB,ROL,ASR,ASL) GOTO U4=1
          / IF NOT UNARY FALL THROUGH TO D0=10
165  342  D0=10 B=RC103 OP BI) BUT NONMOD
          / SEE DESCRIPTION OF AUXILIARY ALU CONTROL (AUX CONTROL)
          / FOR MORE DETAILS ON WHAT /OP/ ACCOMPLISHES
          / IF NONMOD GOTO B2=2 (BUT SERVICE)
          / IF NOT NONMOD FALL THROUGH TO D0=11
342  135  D0=11 SHIFT B LEFT) F SHIFT
135  136  D0=12 SHIFT B LEFT) F SHIFT
136  137  D0=13 SHIFT B LEFT) F SHIFT
137  140  D0=14 SHIFT B LEFT) F SHIFT
140  141  D0=15 SHIFT B LEFT) F SHIFT
141  142  D0=16 SHIFT B LEFT) F SHIFT
142  143  D0=17 SHIFT B LEFT) F SHIFT
143  065  D0=18 SHIFT B LEFT) DAT0) CKOFF) GOTO D1=6) ALBYT

```

```

LOC  NXT  * DESTINATION EVEN BYTE
250  163  / GET TO DE=1 FROM DI=2 VIA BUT BYTE (BYTE INST AND EVEN ADDR)
      DE=1  R[11]#B SEXI GOTO DI=4; BUT UNARY
      / IF UNARY OTHER THAN JSR,JMP, OR SHAB (CLR,COM,INC,DEC,ADC,SBC,TST,ROR,ASR,ASL) GOTO U5=1
      / IF NOT UNARY FALL THROUGH TO DI=4

```

```

LOC  NXT  * UNARY OPERATORS GET SINGLE OPERAND IN B AND R[10]
      / CKOFF IN EACH OF THE FOLLOWING (U1=1, U2=1, U3=1, U4=1, AND U5=1)
      / GIVES THE AUX CONTROL SUFFICIENT TIME TO DO ITS THING.
      / THAT IS, REMAIN IN CURRENT STATE (MICRO STEP) FOR TWO
      / PROCESSOR CLOCK PERIODS SO THAT THE CONDITION CODE LOGIC
      / HAS SUFFICIENT TIME TO SETTLE.
352  162  / GET TO U1=1 FROM DE=2 VIA BUT UNARY (INST=CLR,COM,INC,DEC,NEG,ADC,SBC,TST,ROR,ROL,ASR,ASL)
      U1=1  R[10]#B; CKOFF; GOTO DE=3
353  163  / GET TO U2=1 FROM DI=3 VIA BUT UNARY (INST=CLR,COM,INC,ASL) SEE U1=1
      U2=1  R[10]#B; CKOFF; GOTO DI=4
354  164  / GET TO U3=1 FROM DE=1 VIA BUT UNARY (INST=CLR,COM,INC,ASL) SEE U1=1
      U3=1  R[10]#B; CKOFF; GOTO DE=2
355  165  / GET TO U4=1 FROM DE=9 VIA BUT UNARY (INST=CLR,COM,INC,ASL) SEE U1=1
      U4=1  R[10]#B; CKOFF; GOTO DE=10
373  163  / GET TO U5=1 FROM DE=1 VIA BUT UNARY (INST=CLR,COM,INC,ASL) SEE U1=1
      U5=1  R[10]#B; CKOFF; GOTO DI=4

```

```

LOC  NXT  * MOVE INST
154  240  / GET TO MB=0 FROM DE=1 VIA BUT MOVE (INST=MOVE AND BYTE)
      MB=0  CKOFF
      / CKOFF IN MB=0 GIVES THE AUX CONTROL SUFFICIENT TIME TO DO ITS THING.
      / THAT IS, REMAIN IN CURRENT STATE (MICRO STEP) FOR TWO
      / PROCESSOR CLOCK PERIODS SO THAT THE CONDITION CODE LOGIC
      / HAS SUFFICIENT TIME TO SETTLE.
240  152  MB=1  B=R[10]
252  040  MB=2  R[0]#B SEXI BUT SERVICE
      / PRIORITIES ARE LISTED HIGHEST TO LOWEST
      / IF T BIT TRAP GOTO BT=1
      / IF STACK OVERFLOW GOTO ERT1A
      / IF POWER FAIL GOTO PF=1

```

```

      / IF BT GOTO BG=1
      / IF BR6 GOTO BG=1
      / IF INTERNAL LINE CLOCK GOTO LC=1
      / IF BR5 GOTO BG=1
      / IF BG4 GOTO BG=1
      / IF UART RECEIVE GOTO URTR
      / IF UART TRANSMIT GOTO URTX
      / IF CONSOLE STOP GOTO H=1
      / IF NONE OF THE ABOVE GOTO P=1

```

```

LOC  NXT  * BRANCH, CHANGE PC
015  147  B=1  SHIFT B LEFT
147  146  B=2  B=PC+8
146  040  B=3  PC=B; BUT SERVICE
      / PRIORITIES ARE LISTED HIGHEST TO LOWEST
      / IF T BIT TRAP GOTO BT=1
      / IF STACK OVERFLOW GOTO ERT1A
      / IF POWER FAIL GOTO PF=1
      / IF BR7 GOTO BG=1
      / IF BR6 GOTO BG=1
      / IF INTERNAL LINE CLOCK GOT LC=1
      / IF BR5 GOTO BG=1
      / IF BR4 GOTO BG=1
      / IF UART RECEIVE GOTO URTR
      / IF UART TRANSMIT GOTO URTX
      / IF CONSOLE STOP GOTO H=1
      / IF NONE OF THE ABOVE GOTO P=1

```

```

LOC  NXT  * CONDITION CODE MASK (FOR BOTH SET AND CLEAR)
151  350  CCM=1  B=B AND K[17]
350  112  CCM=2  BUT DEST
      / IF INST# SET, GO TO SC=1
      / IF INST# CLEAR, GOTO CC=1

```

```

LOC  NXT  * CLEAR CONDITION CODES
112  040  CC=1  PSW=PSW AND (B;BARI); BUT SERVICE
      / THIS EFFECTIVELY CLEARS THOSE BITS OF THE PSW WHICH ARE SET

```

```
/ IN THE B REG, B,BAR IS B REGISTER COMPLEMENTED;  
/ PRIORITIES ARE LISTED HIGHEST TO LOWEST  
/ IF T BIT BRAP GOTO BT=1  
/ IF STACK OVERFLOW GOTO ERT1A  
/ IF POWER FAIL GOTO PF=1  
/ IF BR7 GOTO BG=1  
/ IF BR6 GOTO BG=1  
/ IF INTERNAL LINE CLOCK GOTO LC=1  
/ IF BR5 GOTO BG=1  
/ IF BR4 GOTO BG=1  
/ IF UARY RECEIVE GOTO URTX  
/ IF UARY TRANSMIT GOTO URTX  
/ IF CONSOLE STOP GOTO H=1  
/ IF NONE OF THE ABOVE GOTO F=1
```

LOC	NXT	* SET CONDITION CODES
136	040	SC=1 PSW=PSW OR BI BUT SERVICE
		/ PRIORITIES ARE LISTED HIGHEST TO LOWEST
		/ IF T BIT TRAP GOTO BT=1
		/ IF STACK OVERFLOW GOTO ERT1A
		/ IF POWER FAIL GOTO PF=1
		/ IF BR7 GOTO BG=1
		/ IF BR6 GOTO BG=1
		/ IF INTERNAL LINE CLOCK GOTO LC=1
		/ IF BR5 GOTO BG=1
		/ IF BR4 GOTO BG=1
		/ IF UARY RECEIVE GOTO URTX
		/ IF UARY TRANSMIT GOTO URTX
		/ IF CONSOLE STOP GOTO H=1
		/ IF NONE OF THE ABOVE GOTO F=1

LOC	NXT	* SWAB, MODE 0
		/ GET TO SB1=1 FROM DB=2 VIA BUT UNARY (INST=SWAB AND MODE=0)
		/ ROTATE LEFT ACCOMPLISHED VIA ASR
166	172	SB1=1 ROTATE B LEFT; F SHIFT
172	173	SB1=2 ROTATE B LEFT; F SHIFT
173	174	SB1=3 ROTATE B LEFT; F SHIFT
174	144	SB1=4 ROTATE B LEFT; F SHIFT
144	176	SB1=5 ROTATE B LEFT; F SHIFT
176	177	SB1=6 ROTATE B LEFT; F SHIFT
177	006	SB1=7 ROTATE B LEFT; F SHIFT
006	155	SB1=8 ROTATE B LEFT; GOTO DB=3A

LOC	NXT	* SWAB, NOT MODE 0
		/ GET TO SB2=1 FROM D1=3 VIA BUT UNARY (INST=SWAB)
		/ ROTATE LEFT ACCOMPLISHED VIA ASR
167	012	SB2=1 ROTATE B LEFT; F SHIFT
012	220	SB2=2 ROTATE B LEFT; F SHIFT
220	022	SB2=3 ROTATE B LEFT; F SHIFT
022	023	SB2=4 ROTATE B LEFT; F SHIFT
023	024	SB2=5 ROTATE B LEFT; F SHIFT
024	031	SB2=6 ROTATE B LEFT; F SHIFT
031	330	SB2=7 ROTATE B LEFT; F SHIFT
330	163	SB2=8 ROTATE B LEFT; GOTO D1=4

LOC	NXT	* JMP
		/ GET TO J1=1 FROM D1=1 VIA BUT JSRMP (INST=JMP)
		/ GET TO J1=1 FROM D2=3 VIA BUT JSRMP (INST=JMP)
		/ GET TO J1=1 FROM D3=5 VIA BUT JSRMP (INST=JMP)
		/ GET TO J1=1 FROM D6=5 VIA BUT JSRMP (INST=JMP)
204	260	J1=1 NOP
		/ J1=1 MUST BE A NOP BECAUSE FOLLOWING A CKOFF, THE ANX WILL
		/ BE FORCED TO TAKE DATA FROM THE UNIBUS;
260	040	J1=2 PC=BI BUT SERVICE
		/ PRIORITIES ARE LISTED HIGHEST TO LOWEST
		/ IF T BIT TRAP GOTO BT=1
		/ IF STACK OVERFLOW GOTO ERT1A
		/ IF POWER FAIL GOTO PF=1
		/ IF BR7 GOTO BG=1
		/ IF BR6 GOTO BG=1
		/ IF INTERNAL LINE CLOCK GOTO LC=1
		/ IF BR5 GOTO BG=1
		/ IF BR4 GOTO BG=1
		/ IF UARY RECEIVE GOTO URTX
		/ IF UARY TRANSMIT GOTO URTX
		/ IF CONSOLE STOP GOTO H=1
		/ IF NONE OF THE ABOVE GOTO F=1

```
LOC  NXT  *  JSR      / GET TO J2=1 FROM D1=1 VIA BUT JSRMP (INST=JSR)
                / GET TO J2=1 FROM D2=3 VIA BUT JSRMP (INST=JSR)
                / GET TO J2=1 FROM D3=5 VIA BUT JSRMP (INST=JSR)
                / GET TO J2=1 FROM D4=7 VIA BUT JSRMP (INST=JSR)
212  261  J2=1  NOP
                / J2=1 MUST BE A NOP BECAUSE FOLLOWING A CKOFF, THE ANX WILL BE
                / FORCED TO TAKE DATA FROM THE UNIBUS,
261  262  J2=1A  RC113=B
262  214  J2=2  B,BA=RC63=21 ENABOVER
214  206  J2=3  RC63=81 CKOFF, DATO
206  216  J2=4  DRIVERS=RC93
216  263  J2=5  B=PC
263  264  J2=6  RC93=B
264  265  J2=7  B=RC113
265  040  J2=8  PC=81 BUT SERVICE
                / PRIORITIES ARE LISTED HIGHEST TO LOWEST
                / IF T BIT TRAP GOTO BT=1
                / IF STACK OVERFLOW GOT ERT1A
                / IF POWER FAIL GOTO PF=1
                / IF BR7 GOTO BG=1
                / IF BR6 GOTO BG=1
                / IF INTERNAL LINE   CLOCK GOTO LC=1
                / IF BR5 GOTO BG=1
                / IF BR4 GOTO BG=1
                / IF UART RECEIVE GOTO URTR
                / IF UART TRANSMIT GOTO URTX
                / IF CONSOLE STOP GOTO H=1
                / IF NONE OF THE ABOVE GOTO P=1
```

```
LOC  NXT  *  RTS
005  221  / GET TO R1=1 FROM F=5 VIA BUT IR DECODE (INST=RTS)
221  222  R1=1  BA=RC63, DAT1
222  223  R1=2  B=RC63+2
223  224  R1=3  RC63=B
224  225  R1=4  B=RC63
225  225  R1=5  PC=81 CKOFF
                / B=UNIBUS DATA, GOTO D0=4
```

```
LOC  NXT  *  RTI
227  230  / GET TO R2=2 FROM F=5 VIA BUT IR DECODE (INST=RTI)
230  231  R2=1  BA=RC63, DAT1
231  231  R2=2  B=RC63+2
```

```
231  232  R2=3  RC63=81 CKOFF
232  234  R2=4  PC=UNIBUS DATA
                / THERE IS NO R2=5 (ANY MORE)
234  235  R2=6  BA=RC63, DAT1
235  236  R2=7  B=RC63+2
236  237  R2=8  RC63=81 CKOFF
237  305  R2=9  P=UNIBUS DATA, GOTO B2=2 (BUT SERVICE)
```

```
LOC  NXT  *  WAIT
063  040  / GET TO H=1 FROM F=5 VIA BUT IR DECODE (INST=WAIT)
                / GET TO H=1 FROM W=1 VIA GOTO IF BUT SERVICE IS FALSE
                W=1  BUT SERVICE
                / THE MICRO PROGRAM WILL LOOP ON W=1 UNTIL SOME HIGHER
                / PRIORITY CONDITION IS RECOGNIZED BY THE 'BUT SERVICE' ROM SEE P101 ON
                / THE CONE PRINT.
                / PRIORITIES ARE LISTED HIGHEST TO LOWEST
                / IF T BIT TRAP GOTO BT=1
                / IF STACK OVERFLOW GOTO ERT1A
                / IF POWER FAIL GOT PF=1
                / IF BR7 GOTO BG=1
                / IF BR6 GOTO BG=1
                / IF INTERNAL LINE   CLOCK GOTO LC=1
                / IF BR5 GOTO BG=1
                / IF BR4 GOTO BG=1
                / IF UART RECEIVE URTR
                / IF UART TRANSMIT TOTO URTX
                / IF CONSOLE STOP GOTO H=1
                / IF NONE OF THE ABOVE TOTO P=1
```

```
LOC  NXT  *  HALT
041  302  / GET TO H=1 FROM F=5 VIA BUT IR DECODE (INST=HALT)
                / GET TO H=1 FROM BUT SERVICE
                W=1  B=PC
                / DISPLAY PG IN LIGHTS BY PUTTING IT INTO B
                / GET TO H=2 FROM CE1=3 VIA GOTO
                / GET TO H=2 FROM CE1=5 VIA GOTO
                / GET TO H=2 FROM CE1=3 VIA GOTO
302  300  H=2  BA=RC17,1 BUT SWITCH
                / THE BA IS LOADED HERE SO THAT THE ADDRESS WILL BE INCREMENTED BY +1 WHEN EXAMINING (DEPOSITING INT
                / AND BY +2 WHEN EXAMINING (DEPOSITING INTO) SUCCESSIVE CORE MEMORY.
                / IF START DEPRESSED GOTO CS=1
                / IF CONTINUE DEPRESSED GOTO CCS=1
```

```

/ IF EXAMINE (1 ST) GOTO CE1B1
/ IF EXAMINE (NOT 1 ST) GOTO CE2=1
/ IF DEPOSIT (1 ST) GOTO CD1B1
/ IF DEPOSIT (NOT 1 ST) GOTO CD2=1
/ IF LOAD GOTO CL=1
/ IF NO SWITCHES ARE DEPRESSED LOOP ON H=2

```

```

LOC NXT * EMT TRAP (VECTOR LOC=30)
011 245 / GET TO ET=1 FROM F=5 VIA BUT IR DECODE (INST=EMT)
      ET=1 B=K130J
      / GET TO ET=2 FROM B=1 VIA GOTO
      / GET TO ET=2 FROM IY=1 VIA GOTO
      / GET TO ET=2 FROM IY=1 VIA GOTO
      / GET TO ET=1 FROM R=1 VIA GOTO
      / GET TO ET=2 FROM ET=1 VIA GOTO
      / GET TO ET=2 FROM PP=1 VIA GOTO
      ET=2 R1211B
246 247 / ET=3 B1BA=RE13=21 ENABOVER
      / ET=4 HAS BEEN ELIMINATED
      ET=5 R1611B1 CKOFF1 DATO
247 226 / ET=6 DIRVERS=PS
226 251 / ET=7 B1BA=RE13=21 ENABOVER
251 252 / ET=8 R1611B1 CKOFF1 DATO
252 253 / ET=9 DIRVERS=PC
253 254 / ET=10 B=RE1211 DAT11 CKOFF
254 255 / ET=11 PC=UNIBUS DATA
255 256 / ET=12 B=RE1211 DAT11 CKOFF
256 257 / ET=13 PS=UNIBUS DATA1 GOTO B2=2 (SERVICE)
257 305

```

```

LOC NXT * BREAKPOINT TRAP (VECTOR LOC=14) AND T BIT TRACE TRAP
      / GET TO BT=1 FROM ALL BUT SERVICE
045 245 / GET TO BT=1 FROM F=5 VIA BUT IR DECODE (INST=BREAKPOINT)
      BT=1 B=K114J1 GOTO ET=2

```

```

LOC NXT * IOT (VECTOR LOC=20)
273 245 / GET TO IT=1 FROM F=5 VIA BUT IR DECODE (INST=IOT)
      IT=1 B=K120J1 GOTO ET=2

```

```

LOC NXT * TRAP (VECTOR LOC=34)
021 245 / GET TO T=1 FROM F=5 VIA BUT IR DECODE (INST=TRAP)
      T=1 B=K134J1 GOTO ET=2

```

```

LOC NXT * RESERVED INST TRAP (VECTOR LOC=10)
001 245 / GET TO RT=1 FROM F=5 VIA BUT IR DECODE (INST=NON VALID)
      RT=1 B=K110J1 GOTO ET=2

```

```

LOC NXT * ERROR TRAP (BUS ERROR, STACK OVERFLOW, ILLEGAL INST) VECTOR LOC=4
      / THERE EXISTS ERT=1 (LOC=10) FOR BUS ERROR
      / THERE ALSO EXISTS ERT1A (LOC=46) FOR STACK OVERFLOW
      / ERT1A GOES TO ET=2, A SEQUENCE WHICH DOESN'T HAVE THE
      / ENABOVER, WE DON'T WANT TO LOOK FOR STACK OVERFLOW WHILE
      / DOING THE STACK OVERFLOW TRAP, THE ET=2 SEQUENCE REJOINS THE ET SEQUENCE AT ET=8
      / THERE ALSO EXISTS ERT1B (LOC=153) FOR ILLEGAL INST (USR OR JMP, MODE 0)
010 245 ERT=1 B=K14J1 GOTO ET=2

```

```

LOC NXT * CONSOLE START SWITCH
100 322 / GET TO CS=1 FOLLOWING RELEASE OF START SWITCH;
      CS=1 IR=ZERO
322 321 / CLOCKING THE IR TURNS ON THE RUN LIGHT
      CS=2 BA1B=RE12J
321 040 / CS=3 PC=BI BUT SERVICE
      / PRIORITIES ARE LISTED HIGHEST TO LOWEST
      / IF T BIT BRAP GOTO BT=1
      / IF STACK OVERFLOW GOTO ERT1A
      / IF POWER FAIL GOTO PP=1
      / IF BR7 GOTO BG=1
      / IF BR6 GOTO BG=1
      / IF INTERNAL LINE CLOCK GOTO LC=1
      / IF BR5 GOTO BG=1

```



```

/ IF BR4 GOTO BG=1
/ IF UARY RECEIVE GOTO URTX
/ IF UARY TRANSMIT GOTO URTX
/ IF UARY STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO P=1

```

```

LOC NXT * CONSOLE EXAMINE SWITCH - FIRST TIME IN SEQUENCE (DON'T INC R(17))
/ GET TO CE1=1 FROM H=2 VIA BUT SWITCH
317 307 / GET TO CE1=1 FROM CE2=2 VIA GOTO
CE1=1 BA=RC(17) BUT SWITCH
/ DISPLAY ADDRESS BY PUTTING INTO THE B REGISTER WHILE EXAMINE IS DOWN
307 326 / LOOP ON CE1=1 UNTIL SWITCH IS RELEASED
326 302 CE1=2 DAT1 CKOFF
CE1=3 B=UNIBUS DATA1 GOTO H=2

```

```

LOC NXT * CONSOLE EXAMINE SWITCH - OTHER THAN FIRST IN SEQUENCE (INC R(17))
315 371 / GET TO CE2=1 FROM H=2 VIA BUT SWITCH
CE2=1 B=RC(17)+2
371 317 / R(17) IS IN BA FROM H=2, THIS WILL CAUSE +2 TO BECOME +1 WHEN EXAMINING REGISTERS;
CE2=2 R(17)+81 GOTO CE1=1

```

```

LOC NXT * CONSOLE DEPOSIT SWITCH - FIRST TIME IN SEQUENCE (DON'T INC R(17))
/ GET TO CD1=1 FROM H=2 VIA BUT SWITCH
313 303 / GET TO CD1=1 FROM CD2=2 VIA GOTO
CD1=1 B=RC(17) BUT SWITCH
303 374 / LOOP ON CD1=1 UNTIL DEPOSIT SWITCH IS RELEASED
CD1=2 BA=RC(207) BARI DAT1 CKOFF
374 314 / COMPLEMENT OF 207 = 177570 = SWITCH REGISTER ADDRESS
314 372 CD1=3 B=UNIBUS DATA
372 302 CD1=4 BA=RC(17) DAT01 CKOFF
CD1=5 DRIVERS=81 GOTO H=2

```

```

LOC NXT * CONSOLE DEPOSIT SWITCH - OTHER THAN FIRST IN SEQUENCE (INC R(17))
312 337 / GET TO CD2=1 FROM H=3 VIA BUT SWITCH
CD2=1 B=RC(17)+2
337 313 / R(17) IS IN BA, THIS WILL CAUSE +2 TO BECOME +1 WHEN DEPOSITING INTO REGISTERS
CD2=2 R(17)+81 GOTO CD1=1

```

```

LOC NXT * CONSOLE CONTINUE SWITCH
316 276 / GET TO CC5=1 FROM H=2 VIA BUT SWITCH
276 270 CC5=1 B=PC
272 062 / CC5=2 BUT SWITCH
CC5=3 IN=ZERO1 GOTO P=1
/ CLOCKING THE IR TURNS ON THE RUN LIGHT

```

```

LOC NXT * CONSOLE LOAD SWITCH
311 375 / GET TO CL=1 FROM H=2 VIA BUT SWITCH
CL=1 BA=RC(207) BARI DAT1 CKOFF
375 367 / COMPLEMENT OF 207 = 177570 = SWITCH REGISTER ADDRESS
CL=2 B=UNIBUS DATA
367 302 CL=3 R(17)+81 GOTO H=2
CL=3 GOES TO H=2 VIA GOTO; IF LOAD IS STILL DEPRESSED, THE BUT
/ SWITCH IN H=2 WILL TAKE US BACK TO CL=1. THUS, AS LONG AS LOAD IS
/ DEPRESSED, CHANGES IN THE SWITCHES WILL SHOW UP IN THE B REG (LIGHTS) AND IN R(17).

```

```

LOC NXT * POWER FAIL (VECTOR LOC=24)
013 245 / GET TO PF=1 FROM SERVICE
PF=1 B=RC(24) GOTO ET=2

```

```

LOC NXT * RESTART FROM POWER FAIL (VECTOR LOC=24)
/ GET TO RS=1 MYSTERIOUSLY AS POWER COMES UP ( NXT CHIPS; F092 AND F103 SHOWN ON THE CONP PRINT,
000 241 / ARE DISABLED FORCING THE MICROPROGRAM TO RS=1 IN LOC 0;
241 347 RS=1 BA=RC(24) DAT1
RS=1A CKOFF

```

```

327 004 / MUST GO CKOFF IN R0=4 BECAUSE OF CONFLICT BETWEEN
024 024 / CKOFF AND INT. CREATED BY PROPP ASSOCIATED WITH AUX CONTROL
024 024 R0=2 PC=UNIBUS DATA
024 024 R0=3 B0K[100] DATA CKOFF
024 024 R0=4 PC=UNIBUS DATA GOTO B2=2 (SERVICE)

```

```

LOC NXT * INTERRUPT SERVICING
325 240 / GET TO INT=1 FROM B0=2 VIA SUB INT (TRUE)
      INT=1 PC=UNIBUS DATA SET SLAVESYNC GOTO ET=3

```

```

LOC NXT * BUS GRANT SERVICE
040 305 / GET TO B0=1 FROM BUT SERVICE
      B0=1 BUT INTERRUPT GOTO B2=2 (BUT SERVICE)
      / IF INTERRUPT GOTO INT=1
      / IF NO INTERRUPT FALL THROUGH TO B2=2

```

```

LOC NXT * NOP * BRANCH CONDITION NOT TRUE (PC UNCHANGED)
      / B2=1 HAS BEEN ELIMINATED BECAUSE NEW1 IS NO LONGER
      / GET TO B2=2A FROM D0=3 VIA BUT NONMOD (TRUE)
      / GET TO B2=2B FROM D1=4 VIA BUT NONMOD (TRUE)
      / GET TO B2=2C FROM D0=10 VIA BUT NONMOD (TRUE)
      / GET TO B2=2D FROM F=5 VIA BUT IR DECODE, BRANCH INST, CONDITION NOT TRUE
      / GET TO B2=2 FROM RST=1 VIA GOTO
      / GET TO B2=2 FROM D0=4 VIA GOTO
      / GET TO B2=2 FROM D00=2 VIA BUT NONMOD (TRUE)
      / GET TO B2=2 FROM M0=2 VIA GOTO
      / GET TO B2=2 FROM C0=1 VIA GOTO
      / GET TO B2=2 FROM S0=1 VIA GOTO
      / GET TO B2=2 FROM J2=8 VIA GOTO
      / GET TO B2=2 FROM R9=10 VIA GOTO
      / GET TO B2=2 FROM ET=13 VIA GOTO
      B2=2 BUT SERVICE
      / PRIORITIES ARE LISTED HIGHEST TO LOWEST
      / IF T BIT TRAP GOTO BT=1
      / IF STACK OVERFLOW GOTO ERT=1A
      / IF POWER FAIL GOTO PF=1
      / IF B7 GOTO BG=1

```

```

305 040

```

```

      / IF B0 GOTO BG=1
      / IF INTERNAL LINE CLOCK GOTO LC=1
      / IF B5 GOTO BG=1
      / IF B4 GOTO BG=1
      / IF UART RECEIVE GOTO URTR
      / IF UART TRANSMIT GOTO URTX
      / IF CONSOLE STOP GOTO H=1
      / IF NONE OF THE ABOVE GOTO F=1

```

```

LOC NXT * RESET
357 305 / GET TO RST=1 FROM F=5 VIA BUT IR DECODE (INSTRERESET)
      RST=1 BUT INITI CKOFF GOTO B2=2 (BUT SERVICE)

```

```

LOC NXT * DOUBLE BUS ERROR, GOTO HALT
110 041 DBE=1 NOP GOTO H=1

```

```

LOC NXT * UART XMIT (VECTOR LOC 64)
060 245 URTX B0K[64] GOTO ET=2

```

```

LOC NXT * UART RECEIVE (VECTOR LOC 60)
064 245 URTR B0K[60] GOTO ET=2

```

```

LOC NXT * LINE CLOCK (VECTOR LOC 100)
042 245 LC=1 B0K[100] GOTO ET=2

```

ERT1A NOT EXPLICITLY SHOWN IN FLOW
D0-3A NOT EXPLICITLY SHOWN IN FLOW
A145 NOT EXPLICITLY SHOWN IN FLOW
ET2-2 NOT EXPLICITLY SHOWN IN FLOW
ET2-3 NOT EXPLICITLY SHOWN IN FLOW
ET2-5 NOT EXPLICITLY SHOWN IN FLOW
ET2-6 NOT EXPLICITLY SHOWN IN FLOW
ET2-7 NOT EXPLICITLY SHOWN IN FLOW
ERT1B NOT EXPLICITLY SHOWN IN FLOW
B2-2A NOT EXPLICITLY SHOWN IN FLOW
B2-2B NOT EXPLICITLY SHOWN IN FLOW
B2-2C NOT EXPLICITLY SHOWN IN FLOW
B2-2D NOT EXPLICITLY SHOWN IN FLOW

29-JUL-72

K-MP KD-118-MICROPROGRAM SYMBOLIC LISTING REV. A

NAME	LOC	ABT	ALG	ALU	AUX	BAR	BLG	BRG	BUT	CON	CKO	CRI	FSH	PSW	SAM	SPA	SPP	TNS	NXT
A143	143	YES	PSW	AA	ON	L	+1	H	MOV	NON	ON	OFF	OFF	L	ROM	R0	WRI	ERG	
B01	015	NO	SP	ASL	OFF	H	BRG	BL	NON	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	B02
B02	147	NO	SP	A+B	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	NON	B03
B03	146	NO	SP	BL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R7	WRI	NON	B04
B202	303	NO	SP	AL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	B05
B202A	333	NO	SP	AL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	B06
B202B	333	NO	SP	AL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	B07
B202C	343	NO	SP	AL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	B08
B202D	013	NO	SP	AL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	B09
B001	040	NO	SP	AL	OFF	H	BRG	H	INT	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	B10
B101	045	NO	NUL	AL	OFF	H	BRG	L	CON	14	OFF	OFF	OFF	H	ROM	R0	WRI	NON	B11
CE01	112	NO	PSW	ABAR	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	L	ROM	R0	REA	NON	B12
CE01	151	NO	NUL	AANDB	OFF	H	BRG	L	CON	360	OFF	OFF	OFF	H	ROM	R0	WRI	NON	B13
CE01	350	NO	SP	AL	OFF	H	BRG	H	DSF	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	B14
CE01	316	NO	SP	AL	OFF	H	BRG	L	DSF	NON	OFF	OFF	OFF	H	ROM	R7	REA	NON	B15
CE01	276	NO	SP	AL	OFF	H	BRG	H	SW	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	B16
CE01	272	NO	SP	ZERO	OFF	H	BRG	H	IRC	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	B17
CE01	313	NO	SP	AL	OFF	H	BRG	L	SW	NON	OFF	OFF	OFF	H	ROM	R17	REA	NON	B18
CE01	303	NO	NUL	ABAR	OFF	H	BRG	H	CCN	207	ON	OFF	OFF	H	ROM	R0	WRI	NON	B19
CE01	374	NO	NUL	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	B20
CE01	314	NO	SP	AL	OFF	L	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R17	REA	NON	B21
CE01	372	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	B22
CE01	312	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R17	REA	NON	B23
CE01	337	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B24
CE101	317	NO	SP	AL	OFF	L	BRG	L	SW	NON	OFF	OFF	OFF	H	ROM	R17	REA	NON	B25
CE102	307	NO	SP	AL	OFF	H	BRG	L	NON	NON	ON	OFF	OFF	H	ROM	R0	REA	NON	B26
CE103	326	NO	NUL	AL	OFF	H	BRG	L	NON	NON	ON	OFF	OFF	H	BAR	R0	REA	NON	B27
CE201	319	NO	SP	A+B	OFF	L	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R17	REA	NON	B28
CE202	371	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B29
CE203	311	NO	NUL	ABAR	OFF	L	BRG	H	CON	207	ON	OFF	OFF	H	ROM	R0	WRI	NON	B30
CE204	375	NO	NUL	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	B31
CE205	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B32
CE206	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B33
CE207	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B34
CE208	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B35
CE209	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B36
CE210	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B37
CE211	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B38
CE212	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B39
CE213	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B40
CE214	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B41
CE215	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B42
CE216	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B43
CE217	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B44
CE218	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B45
CE219	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B46
CE220	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B47
CE221	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B48
CE222	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B49
CE223	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B50
CE224	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B51
CE225	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B52
CE226	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B53
CE227	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B54
CE228	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B55
CE229	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B56
CE230	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B57
CE231	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B58
CE232	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B59
CE233	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B60
CE234	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B61
CE235	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B62
CE236	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B63
CE237	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B64
CE238	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B65
CE239	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B66
CE240	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B67
CE241	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B68
CE242	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B69
CE243	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B70
CE244	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B71
CE245	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B72
CE246	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B73
CE247	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B74
CE248	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B75
CE249	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B76
CE250	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B77
CE251	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B78
CE252	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B79
CE253	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B80
CE254	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B81
CE255	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B82
CE256	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B83
CE257	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B84
CE258	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B85
CE259	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B86
CE260	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B87
CE261	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B88
CE262	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B89
CE263	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B90
CE264	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B91
CE265	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B92
CE266	367	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	B93
CE267	367	NO	SP	BL	OFF	H	BR												

K-MP-KDII-B-2 MICROPROGRAM SYMBOLIC LISTING REV. C

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NAME	LOC	ABT	ALG	ALU	AUX	BAR	ELC	BRG	BUT	CON	CKO	CRI	FSH	PSW	SAM	SPA	SPF	TNS	NXT
DO-9	132	NO	SP	BL	OFF	H	SEX	L	UNY	NON	OFF	OFF	OFF	H	ROM	R11	WRI	NON	A145
ET-1	210	NO	NUL	AL	OFF	H	ERC	L	CON	4	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
ET-1A	246	NO	NUL	AL	OFF	H	ERC	L	CON	4	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET2-2
ET-1B	153	NO	NUL	AL	OFF	H	ERC	L	CON	4	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
ET-1	211	NO	NUL	AL	OFF	H	ERC	L	CON	30	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
ET-10	254	NO	SP	AL	OFF	L	ERC	L	IRC	NON	ON	OFF	OFF	H	ROM	R12	REA	I	ET-11
ET-11	255	NO	SP	AL	OFF	H	ERC	L	NON	NON	OFF	OFF	OFF	H	ROM	R7	WRI	NON	ET-12
ET-12	256	NO	SP	A+B	OFF	L	+1	L	NON	NON	ON	ON	OFF	H	ROM	R12	REA	I	ET-13
ET-13	257	NO	SP	AL	OFF	H	ERC	L	NON	NON	OFF	OFF	OFF	L	ROM	R0	REA	NON	B2-2
ET-2	245	NO	SP	PL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R12	WRI	NON	ET-3
ET-3	246	NO	SP	A-B-1	OFF	L	+1	L	ENO	NON	OFF	OFF	OFF	H	ROM	R6	REA	NON	ET-5
ET-5	247	NO	SP	BL	OFF	H	ERC	L	ENO	NON	ON	OFF	OFF	H	ROM	R6	WRI	O	ET-6
ET-6	226	NO	PSW	AL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	ET-7
ET-7	231	NO	SP	A-B-1	OFF	L	+1	L	ENO	NON	OFF	OFF	OFF	H	ROM	R6	REA	NON	ET-8
ET-8	232	NO	SP	BL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R6	WRI	O	ET-9
ET-9	233	NO	SP	AL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	NON	ET-10
ET2-2	203	NO	SP	BL	OFF	H	ERC	L	NON	NON	OFF	OFF	OFF	H	ROM	R12	WRI	NON	ET2-3
ET2-3	204	NO	SP	A-B-1	OFF	L	+1	L	NON	NON	OFF	OFF	OFF	H	ROM	R6	REA	NON	ET2-5
ET2-5	206	NO	SP	BL	OFF	H	ERC	L	NON	NON	ON	OFF	OFF	H	ROM	R6	WRI	O	ET2-6
ET2-6	207	NO	PSW	AL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	ET2-7
ET2-7	251	NO	SP	A-B-1	OFF	L	+1	L	NON	NON	OFF	OFF	OFF	H	ROM	R6	REA	NON	ET-8
F-1	252	NO	SP	AL	OFF	L	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	I	F-2
F-2	253	NO	SP	A+B	OFF	H	+1	L	NON	NON	ON	ON	OFF	H	ROM	R7	REA	NON	F-3
F-3	265	NO	SP	BL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R7	WRI	NON	F-4
F-4	264	NO	NUL	AL	OFF	H	ERC	L	IRC	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	F-5
F-5	261	NO	SP	BL	OFF	H	SEX	L	IRD	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	RT-1
H-1	241	NO	SP	AL	OFF	H	ERC	L	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	NON	H-2
H-2	202	NO	SP	AL	OFF	L	ERC	L	SW	NON	OFF	OFF	OFF	H	ROM	R17	REA	NON	D6-5
INT-1	325	NO	SP	AL	OFF	H	ERC	H	SVS	NON	OFF	OFF	OFF	H	ROM	R12	WRI	NON	ET-3
IT-1	273	NO	NUL	AL	OFF	H	ERC	L	CON	20	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
J1-1	204	NO	SP	AL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R0	REA	NON	J1-2
J1-2	260	NO	SP	BL	OFF	H	ERC	H	SRV	NON	OFF	OFF	OFF	H	ROM	R7	WRI	NON	BG-1
J2-1	212	NO	SP	AL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	J2-1A
J2-1A	261	NO	SP	BL	OFF	L	ERC	H	ENO	NON	OFF	OFF	OFF	H	ROM	R11	WRI	NON	J2-2
J2-2	262	NO	SP	A-B-1	OFF	L	+1	L	ENO	NON	ON	OFF	OFF	H	ROM	R6	REA	NON	J2-3
J2-3	214	NO	SP	BL	OFF	H	ERC	L	NON	NON	ON	OFF	OFF	H	ROM	R6	WRI	O	J2-4
J2-4	206	NO	SP	AL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	H	IRS	R0	REA	NON	J2-5
J2-5	216	NO	SP	AL	OFF	H	ERC	L	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	NON	J2-6
J2-6	263	NO	SP	BL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	H	IRS	R0	WRI	NON	J2-7
J2-7	264	NO	SP	AL	OFF	H	ERC	L	NON	NON	OFF	OFF	OFF	H	ROM	R11	REA	NON	J2-8
J2-8	265	NO	SP	BL	OFF	H	ERC	H	SRV	NON	OFF	OFF	OFF	H	ROM	R7	WRI	NON	BG-1
LC-1	242	NO	NUL	AL	OFF	H	ERC	L	CON	100	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
MB-0	154	NO	SP	AL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R0	REA	NON	MB-1
MB-1	240	NO	SP	ABAR	ON	H	ERC	L	NON	NON	OFF	ON	OFF	H	ROM	R10	REA	NON	MB-2

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NAME	LOC	ABT	ALG	ALU	AUX	BAR	ELC	BRG	BUT	CON	CKO	CRI	FSH	PSW	SAM	SPA	SPF	TNS	NXT
MB-2	152	NO	SP	BL	OFF	H	SEX	H	SRV	NON	OFF	OFF	OFF	H	IRD	R0	WRI	NON	BG-1
PF-1	243	NO	NUL	AL	OFF	H	ERC	L	CON	24	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
R1-1	205	NO	SP	AL	OFF	L	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R6	REA	I	R1-2
R1-2	221	NO	SP	A+B	OFF	H	+1	L	NON	NON	ON	OFF	OFF	H	ROM	R6	REA	NON	R1-3
R1-3	222	NO	SP	RL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R6	WRI	NON	R1-4
R1-4	223	NO	SP	AL	OFF	H	ERC	L	NON	NON	OFF	OFF	OFF	H	IRD	R0	REA	NON	R1-5
R1-5	224	NO	SP	BL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R7	WRI	NON	R1-6
R1-6	225	NO	NUL	AL	OFF	H	ERC	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	D0-4
R2-1	227	NO	SP	AL	OFF	L	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R6	REA	I	R2-2
R2-2	230	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R6	REA	NON	R2-3
R2-3	231	NO	SP	BL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R6	WRI	NON	R2-4
R2-4	232	NO	SP	AL	OFF	H	ERC	L	NON	NON	ON	OFF	OFF	H	ROM	R7	WRI	NON	R2-6
R2-5	234	NO	SP	AL	OFF	L	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R6	REA	I	R2-7
R2-7	235	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R6	REA	NON	R2-8
R2-8	236	NO	SP	BL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R6	WRI	NON	R2-9
R2-9	237	NO	NUL	AL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	L	ROM	R0	REA	NON	R2-2
RS-1	200	NO	NUL	AL	OFF	L	ERC	H	CON	24	OFF	OFF	OFF	H	ROM	R0	WRI	I	RS-1A
RS-1A	241	NO	SP	AL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R0	REA	NON	RS-2
RS-2	347	NO	SP	AL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R7	WRI	NON	RS-3
RS-3	274	NO	NUL	A+B	OFF	L	+1	H	CON	24	ON	ON	OFF	H	ROM	R0	WRI	I	RS-4
RS-4	351	NO	SP	AL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	L	ROM	R0	REA	NON	B2-2
RST-1	357	NO	SP	AL	OFF	H	ERC	H	INI	NON	ON	OFF	OFF	H	ROM	R0	REA	NON	R2-2
RT-1	201	NO	NUL	AL	OFF	H	ERC	L	CON	10	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
S0-1	201	NO	SP	AL	OFF	H	ERC	L	BYT	NON	OFF	OFF	OFF	H	IRS	R0	REA	NON	S0-2
S0-2	207	NO	SP	BL	OFF	H	ERC	H	DST	NON	OFF	OFF	OFF	H	ROM	R10	WRI	NON	RT-1
S1-1	203	YES	SP	AL	OFF	L	ERC	H	NON	NON	ON	OFF	OFF	H	IRS	R0	REA	I	S1-2
S1-2	244	NO	NUL	AL	OFF	H	ERC	H	BYT	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	S0-2
S2-1	205	YES	SP	AL	OFF	L	ERC	L	NON	NON	OFF	OFF	OFF	H	IRS	R0	REA	I	S2-2
S2-2	201	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	IRS	R0	REA	NON	S2-3
S2-3	214	NO	SP	BL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	IRS	R0	WRI	NON	S1-2
S3-1	207	NO	SP	AL	OFF	L	ERC	H	NON	NON	OFF	OFF	OFF	H	IRS	R0	REA	I	S3-2
S3-2	216	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	IRS	R0	REA	NON	S3-3
S3-3	217	NO	SP	RL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	IRS	R0	WRI	NON	S3-4
S3-4	134	NO	NUL	AL	OFF	L	ERC	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	S3-5
S3-5	274	YES	SP	BL	OFF	H	ERC	L	NON	NON	ON	OFF	OFF	H	ROM	R0	REA	I	S1-2
S4-1	211	YES	SP	A-B-1	OFF	L	+1	L	ENO	NON	ON	OFF	OFF	H	IRS	R0	REA	I	S2-3
S5-1	213	NO	SP	A-B-1	OFF	L	+1	L	ENO	NON	OFF	OFF	OFF	H	IRS	R0	REA	I	S3-3
S6-1	215	NO	SP	AL	OFF	L	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	I	S6-2
S6-2	225	NO	SP	A+B	OFF	H	+1	L	NON	NON	ON	OFF	OFF	H	ROM	R7	REA	NON	S6-3
S6-3	226	NO	SP	BL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R7	WRI	NON	S6-4
S6-4	227	NO	NUL	AL	OFF	H	ERC	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	S6-5
S6-5	230	YES	SP	A+B	OFF	L	ERC	H	NON	NON	ON	OFF	OFF	H	IRS	R0	REA	I	S1-2
S7-1	217	NO	SP	AL	OFF	L	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	I	S7-2
S7-2	232	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R7	REA	NON	S7-3

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NAME	LOC	ABT	ALG	ALU	AUX	RAR	BLG	BRG	BUT	CON	CKO	CRI	FSH	PSW	SAH	SPA	SPP	TNS	NXT
S7=3	033	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R7	WRI	NON	S7=4
S7=4	034	NO	NUL	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	S7=5
S7=5	035	NO	SP	A+B	OFF	L	BRG	H	NON	NON	ON	OFF	OFF	H	IRS	R0	REA	I	S3=4
S81=1	166	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	ON	OFF	ON	H	ROM	R0	REA	NON	S81=2
S81=2	172	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S81=3
S81=3	173	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S81=4
S81=4	174	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	ON	OFF	ON	H	ROM	R0	REA	NON	S81=5
S81=5	144	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S81=6
S81=6	176	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S81=7
S81=7	177	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S81=8
S81=8	006	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	D0=3A
S82=1	167	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S82=2
S82=2	012	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S82=3
S82=3	220	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S82=4
S82=4	022	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S82=5
S82=5	023	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S82=6
S82=6	024	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S82=7
S82=7	031	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S82=8
S82=8	330	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	D1=4
SBE=1	047	NO	SP	BL	OFF	H	SEX	H	DST	NON	OFF	OFF	OFF	H	ROM	R10	WRI	NON	R7=1
S80=1	067	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S80=2
S80=2	346	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S80=3
S80=3	324	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S80=4
S80=4	340	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S80=5
S80=5	361	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S80=6
S80=6	050	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S80=7
S80=7	020	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	S80=8
S80=8	052	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	SBE=1
SC=1	116	NO	PSW	ADDR	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	L	ROM	R0	REA	NON	BG=1
T=1	021	NO	NUL	AL	OFF	H	BRG	L	CON	34	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET=2
U1=1	352	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R10	WRI	NON	D0=3
U2=1	353	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R10	WRI	NON	D1=4
U3=1	354	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R10	WRI	NON	D80=2
U4=1	355	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R10	WRI	NON	D0=10
U5=1	373	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R10	WRI	NON	D1=4
URTR	064	NO	NUL	AL	OFF	H	BRG	L	CON	60	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET=2
URTX	060	NO	NUL	AL	OFF	H	BRG	L	CON	64	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET=2
W=1	063	NO	SP	AL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	BG=1

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N A M	L O C	N X T	A L U	C F S U X I H	P S P W I 3 P	S S M P B	B A R P F 2	C A T Q T S	A B R G	B U T
A145	145	0000	0000	0010	0000	0000	0000	0000	0000	0000
B01	015	1001	1000	0010	0000	0000	0000	0000	0000	0000
B02	147	1001	1001	0010	0000	0000	0000	0000	0000	0000
B03	146	1101	1111	0010	0000	0000	0000	0000	0000	0000
B202	305	1101	1111	0010	0000	0000	0000	0000	0000	0000
B202A	333	1101	1111	0010	0000	0000	0000	0000	0000	0000
B202B	335	1101	1111	0010	0000	0000	0000	0000	0000	0000
B202C	343	1101	1111	0010	0000	0000	0000	0000	0000	0000
B202D	013	1101	1111	0010	0000	0000	0000	0000	0000	0000
B202E	040	0011	1010	0010	0000	0000	0000	0000	0000	0000
B202F	045	0101	0000	0010	0000	0000	0000	0000	0000	0000
C001	112	1101	1111	0010	0000	0000	0000	0000	0000	0000
C001A	151	0001	0111	0010	0000	0000	0000	0000	0000	0000
C001B	350	1011	0101	0010	0000	0000	0000	0000	0000	0000
C001C	316	0100	0001	0010	0000	0000	0000	0000	0000	0000
C001D	276	0100	0111	0010	0000	0000	0000	0000	0000	0000
C001E	272	1101	1101	0010	0000	0000	0000	0000	0000	0000
C001F	313	0011	1100	0010	0000	0000	0000	0000	0000	0000
C001G	303	0000	0011	0010	0000	0000	0000	0000	0000	0000
C001H	374	0011	0011	0010	0000	0000	0000	0000	0000	0000
C001I	314	0000	0101	0010	0000	0000	0000	0000	0000	0000
C001J	372	0011	1101	0010	0000	0000	0000	0000	0000	0000
C001K	312	0010	0000	0010	0000	0000	0000	0000	0000	0000
C001L	337	0011	0100	0010	0000	0000	0000	0000	0000	0000
C001M	317	0011	1000	0010	0000	0000	0000	0000	0000	0000
C001N	307	0010	1001	0010	0000	0000	0000	0000	0000	0000
C001O	326	0011	1101	0010	0000	0000	0000	0000	0000	0000
C001P	315	0000	0110	0010	0000	0000	0000	0000	0000	0000
C001Q	371	0011	0000	0010	0000	0000	0000	0000	0000	0000
C001R	311	0000	0010	0010	0000	0000	0000	0000	0000	0000
C001S	375	0000	1000	0010	0000	0000	0000	0000	0000	0000
C001T	367	0011	1101	0010	0000	0000	0000	0000	0000	0000
C001U	100	0010	1101	0010	0000	0000	0000	0000	0000	0000
C001V	322	0010	1110	0010	0000	0000	0000	0000	0000	0000
C001W	321	1101	1111	0010	0000	0000	0000	0000	0000	0000
C001X	101	1001	0011	0010	0000	0000	0000	0000	0000	0000
C001Y	157	1001	1101	0010	0000	0000	0000	0000	0000	0000
C001Z	162	0010	0101	0010	0000	0000	0000	0000	0000	0000
C002A	155	0010	0101	0010	0000	0000	0000	0000	0000	0000
C002B	332	1101	1111	0010	0000	0000	0000	0000	0000	0000

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N A M	L O C	N X T	A L U	C F S U X I H	P S P W I 3 P	S S M P B	B A R P F 2	C A T Q T S	A B R G	B U T
D01-1	103	0111	1111	0000	1000	0000	0000	0000	0000	0000
D01-2	200	0111	0000	1000	0000	0000	0000	0000	0000	0000
D01-3	210	1001	1100	0101	1000	0000	0000	0000	0000	0000
D01-4	163	0010	0011	1111	1000	0000	0000	0000	0000	0000
D01-5	334	1100	1010	0000	1000	0000	0000	0000	0000	0000
D01-6	065	0011	1010	0101	1000	0000	0000	0000	0000	0000
D02-1	105	0010	0110	0000	1000	0000	0000	0000	0000	0000
D02-2	331	0001	1110	0110	1000	0000	0000	0000	0000	0000
D02-3	341	0111	1111	0101	1000	0000	0000	0000	0000	0000
D03-1	107	1000	1111	0000	1000	0000	0000	0000	0000	0000
D03-2	160	1000	0111	0110	1000	0000	0000	0000	0000	0000
D03-3	070	1100	0110	0101	1000	0000	0000	0000	0000	0000
D03-4	071	1100	0101	0000	1000	0000	0000	0000	0000	0000
D03-5	072	0111	1111	0101	1000	0000	0000	0000	0000	0000
D04-1	111	0001	1110	1001	1000	0000	0000	0000	0000	0000
D05-1	113	1100	0111	1001	1000	0000	0000	0000	0000	0000
D06-1	115	1100	0010	0000	1000	0000	0000	0000	0000	0000
D06-2	075	1100	0000	0110	1000	0000	0000	0000	0000	0000
D06-3	077	1101	0000	0101	1000	0000	0000	0000	0000	0000
D06-4	057	0011	1111	0000	1000	0000	0000	0000	0000	0000
D06-5	300	0111	1111	0110	1000	0000	0000	0000	0000	0000
D07-1	117	0011	0111	0000	1000	0000	0000	0000	0000	0000
D07-2	310	1011	1011	0110	1000	0000	0000	0000	0000	0000
D07-3	104	0010	0010	0101	1000	0000	0000	0000	0000	0000
D07-4	320	1011	1001	0000	1000	0000	0000	0000	0000	0000
D07-5	106	1100	0110	0110	1000	0000	0000	0000	0000	0000
D08-1	156	1001	1011	0101	1000	0000	0000	0000	0000	0000
D08-2	164	0011	1011	1111	1000	0000	0000	0000	0000	0000
D08-3	304	1101	1111	0101	1000	0000	0000	0000	0000	0000
D08-4	110	1101	1110	0000	1000	0000	0000	0000	0000	0000
D09-1	250	1000	1100	0101	1000	0000	0000	0000	0000	0000
D09-2	270	1010	1100	0000	1000	0000	0000	0000	0000	0000
D09-3	136	1010	0000	1111	1000	0000	0000	0000	0000	0000
D09-4	165	0001	1101	1111	1000	0000	0000	0000	0000	0000
D09-5	342	1010	0010	0000	1000	0000	0000	0000	0000	0000
D09-6	135	0001	1010	0000	1000	0000	0000	0000	0000	0000
D09-7	136	1010	0000	1111	1000	0000	0000	0000	0000	0000
D09-8	137	1001	1111	0000	1000	0000	0000	0000	0000	0000
D09-9	140	1001	1110	0000	1000	0000	0000	0000	0000	0000
D09-10	141	1001	1101	0000	1000	0000	0000	0000	0000	0000
D09-11	142	1001	1100	0000	1000	0000	0000	0000	0000	0000

[illegible]

N A M	L O C	N X T	A L U	C F S U X	P S S D	S S M B	B A T P P 2	S C A T	A L C G	B U
J2-1	212	0100	0000	1 0 1 1	1 0 0 1	1 0 0 1	1 1 1 0 0 1	1 1 1 1	11 00	1111
J2-14	261	2100	0101	1 0 1 1	1 0 1 1	1 1 1 1	1 1 1 0 0 0	1 1 1 1	11 00	1111
J2-2	262	2111	1001	1 0 1 1	1 1 0 1	1 1 1 0	1 1 1 0 1 1	1 1 1 1	11 11	0100
J2-3	214	0111	0101	1 0 1 1	1 1 0 1	1 1 0 1	1 1 1 0 1 1	0 1 1 0	11 00	1111
J2-4	206	0111	0000	1 0 1 1	1 0 0 1	1 0 0 1	1 1 1 0 0 1	1 1 1 1	11 00	1111
J2-5	216	2100	0100	1 0 1 1	1 1 0 1	1 1 1 1	1 1 1 1 1 1	1 1 1 1	11 11	1111
J2-6	203	2100	0101	1 0 1 1	1 0 0 1	1 1 0 0	1 1 1 0 0 1	1 1 1 1	11 00	1111
J2-7	264	2100	0000	1 0 1 1	1 0 1 1	1 1 1 1	1 1 1 1 1 0	1 1 1 1	11 11	1111
J2-8	265	1101	0101	1 0 1 1	1 1 0 1	1 1 1 1	1 1 1 0 1 1	1 1 1 1	11 00	1100
LC-1	242	2101	0000	1 0 1 1	1 0 0 1	1 1 1 1	1 1 1 1 1 1	1 1 1 1	10 11	1101
MB-0	154	0101	0000	1 0 1 1	1 0 0 1	1 1 1 1	1 1 1 1 1 1	1 1 1 1	11 00	1111
MB-1	240	1001	0101	1 1 1 0	1 0 1 1	1 1 0 1	1 1 1 1 1 1	1 1 1 1	11 11	1111
MB-2	192	1101	0101	1 0 1 1	1 0 0 1	1 0 0 1	1 0 0 0 0 1	1 1 1 1	11 00	1100
PF-1	243	0101	0000	1 0 1 1	1 0 1 1	1 0 1 1	1 1 1 1 0 1	1 1 1 1	10 11	1101
R1-1	205	0110	0000	1 0 1 1	1 1 0 1	1 1 0 1	1 0 1 1 1 1	1 1 1 0	11 00	1111
R1-2	221	2110	2110	0 1 1 1	1 1 1 0	1 1 0 1	1 1 1 1 1 1	1 1 1 1	11 11	1111
R1-3	222	2110	0101	1 0 1 1	1 1 0 1	1 1 0 1	1 1 1 0 1 1	1 1 1 1	11 00	1111
R1-4	223	2110	0000	1 0 1 1	1 0 0 1	1 0 0 1	1 1 1 1 1 1	1 1 1 1	11 11	1111
R1-5	224	0110	0101	1 0 1 1	1 1 0 1	1 1 1 1	1 1 1 0 1 1	0 1 1 1	11 00	1111
R1-6	225	0010	0000	1 0 1 1	1 0 0 1	1 0 0 1	1 1 1 1 1 0	1 1 1 1	10 11	1111
R2-1	227	0110	0000	1 0 1 1	1 1 0 1	1 0 1 1	1 0 1 1 1 1	1 1 1 0	11 00	1111
R2-2	230	2110	0110	0 1 1 1	1 1 0 1	1 0 1 1	1 1 1 1 1 1	1 1 1 1	11 11	1111
R2-3	231	2110	0101	1 0 1 1	1 1 0 1	1 0 0 1	1 1 1 0 1 1	0 1 1 1	11 00	1111
R2-4	232	2110	0011	1 0 1 1	1 1 1 0	1 1 1 1	1 1 1 0 1 1	1 1 1 1	11 00	1111
R2-6	234	2110	0010	1 0 1 1	1 1 0 1	1 0 1 1	1 0 1 1 1 1	1 1 1 0	11 00	1111
R2-7	235	2110	0110	0 1 1 1	1 1 0 1	1 0 1 1	1 1 1 1 1 1	1 1 1 1	11 11	1111
R2-8	236	2110	0000	1 0 1 1	1 1 0 1	1 0 1 1	1 1 1 0 1 1	0 1 1 1	11 00	1111
R2-9	237	0011	0000	1 0 1 1	1 0 0 1	1 0 0 1	1 1 1 0 1 1	1 1 1 1	10 00	1111
RS-1	200	2101	0000	1 0 1 1	1 1 0 1	1 0 1 1	1 0 1 1 1 1	1 1 1 0	10 00	1101
RS-14	241	0001	0000	1 0 1 1	1 0 0 1	1 0 0 1	1 1 1 1 0 1	1 1 1 1	11 00	1111
RS-2	147	1100	0000	1 0 1 1	1 1 1 0	1 1 1 1	1 1 1 0 1 1	1 1 1 1	11 00	1111
RS-3	274	2001	0110	0 1 1 1	1 0 1 1	1 0 1 1	1 0 1 1 1 0	0 1 1 0	10 00	1101
RS-4	351	2011	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 1 1 1	1 1 1 1	11 00	1111
RST-1	357	0011	0000	1 0 1 1	1 1 0 0	1 1 0 1	1 1 1 1 1 1	0 1 1 1	11 00	1110
RT-1	001	0101	0000	1 0 1 1	1 1 0 1	1 1 0 1	1 1 1 1 1 1	1 1 1 1	10 11	1101
S0-1	201	1111	0000	1 0 1 1	1 1 0 1	1 1 0 0	1 1 1 1 1 0	1 1 1 1	11 11	0011
S0-2	007	1111	0101	1 0 1 1	1 0 1 1	1 0 1 1	1 1 1 0 0 1	1 1 1 1	11 00	1001
S1-1	203	0101	0000	1 0 1 1	1 0 0 1	1 0 0 1	1 0 1 1 0 1	0 0 1 0	11 00	1111
S1-2	244	1111	0000	1 0 1 1	1 0 0 1	1 0 0 1	1 1 1 1 0 1	1 1 1 1	10 11	0011
S2-1	205	0011	0000	1 0 1 1	1 0 0 1	1 0 0 1	1 0 1 1 1 0	1 1 0 1	11 00	1111

[illegible][illegible]

PAGE REVISION CONTROL SHEET

[illegible]

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	CHK'D.	<i>[Signature]</i>	DATE	4-22-72	
	ENG.	<i>[Signature]</i>	DATE	5-2-72	
	PROJ. ENG.	<i>[Signature]</i>	DATE	5-2-72	
	PROD.	<i>[Signature]</i>	DATE	5-2-72	
	NEXT HIGHER ASSY.				
B-DD-KD11-B SCALE SHEET 1 OF 3					SIZE CODE NUMBER REV. K MP KD11-B-4
TITLE					MICROPROGRAM CROSS REFERENCE LISTING

K-MP-KD11-B-4

MICROPROGRAM CROSS REFERENCE LISTING REV *

2-MAY-72

PAGE 2 OF 3

000 RS-1	001 RT-1	002 ****	003 ET2-2	004 ET2-3	005 R1-1	006 SB1-8	007 S0-2
010 ERT-1	011 ET-1	012 SB2-2	013 B2-2D	014 S2-3	015 B-1	016 S3-2	017 S3-3
020 S0-7	021 T-1	022 SB-4	023 SB2-5	024 SB2-6	025 S6-2	026 S6-3	027 S6-4
030 S6-5	031 SB2-7	032 S7-2	033 S7-3	034 S7-4	035 S7-5	036 ET2-5	037 ET2-6
040 EG-1	041 H-1	042 LC-1	043 PF-1	044 ****	045 B1-1	046 ERT1A	047 SBE-1
050 S0-6	051 ET2-7	052 S0-8	053 F-2	054 ****	055 ****	056 ****	057 D6-4
060 URTX	061 F-5	062 F-1	063 M-1	064 UTR	065 D1-6	066 ****	067 S0-1
070 D3-3	071 D3-4	072 D2-5	073 ****	074 RS-3	075 D6-2	076 ****	077 D6-3
100 CS-1	101 D0-1	102 ****	103 D1-1	104 D7-3	105 D8-1	106 D7-5	107 D3-1
110 OBE-1	111 D0-1	112 ****	113 D5-1	114 ****	115 D6-1	116 SC-1	117 D7-1
120 ****	121 ****	122 ****	123 D5-1	124 D0-3	125 D0-4	126 D0-5	127 D0-6
130 D0-7	131 D0-8	132 D0-9	133 ****	134 S3-4	135 D0-12	136 D0-13	137 D0-14
140 D0-15	141 D0-16	142 D0-17	143 D0-18	144 SB1-5	145 A145	146 B-3	147 R-2
150 ****	151 CCM-1	152 MB-2	153 ERT1B	154 MB-0	155 D0-3A	156 D0-2	157 D0-2
160 D3-2	161 ****	162 D0-3	163 D1-4	164 D0-2	165 D0-10	166 D0-1	167 SB2-1
170 ****	171 ****	172 SB1-2	173 SB1-3	174 SB1-4	175 ****	176 SB1-5	177 SB1-7
200 D1-2	201 S0-1	202 ****	203 S1-1	204 J1-1	205 S6-1	206 J2-4	207 S3-1
210 D1-3	211 S4-1	212 J2-1	213 S5-1	214 J2-3	215 S6-1	216 J2-5	217 S7-1
220 SB2-3	221 R1-2	222 R1-3	223 R1-4	224 R1-5	225 R1-6	226 ET-6	227 R2-1
230 R2-2	231 R2-3	232 R2-4	233 ****	234 R2-6	235 R2-7	236 R2-8	237 R2-9
240 YB-1	241 RS1A	242 ****	243 ****	244 S1-2	245 ET-2	246 ET-3	247 ET-5
250 DE-1	251 ET-7	252 ET-8	253 ET-9	254 ET-10	255 ET-11	256 ET-12	257 ET-13
260 J1-2	261 J2-1A	262 J2-2	263 J2-6	264 J2-7	265 J2-8	266 ****	267 ****
270 D0-1	271 ****	272 CCS-3	273 IT-1	274 S3-5	275 ****	276 CCS-2	277 ****
300 D6-5	301 S2-2	302 H-2	303 CD1-2	304 D0-3	305 B2-2	306 ****	307 CE1-2
310 D7-2	311 CL-1	312 CD2-1	313 CD1-1	314 CD1-4	315 CE2-1	316 CCS-1	317 CE1-1
320 D7-4	321 CS-5	322 CS-2	323 ****	324 S0-3	325 INT-1	326 CE1-3	327 ****
330 SB2-8	331 D2-2	332 D0-4	333 B2-2A	334 D1-5	335 B2-2B	336 ****	337 CD2-2
340 S0-4	341 D2-3	342 D0-11	343 B2-2C	344 ****	345 ****	346 S0-2	347 RS-2
350 CCM-2	351 RS-4	352 U1-1	353 U2-1	354 U3-1	355 U4-1	356 ****	357 RS-1
360 ****	361 S0-5	362 ****	363 ****	364 F-4	365 F-3	366 ****	367 CL-3
370 ****	371 CE2-2	372 CD1-5	373 U5-1	374 CD1-3	375 CL-2	376 ****	377 ****

K-MP-KD11-B-4

MICROPROGRAM CROSS REFERENCE LISTING REV *

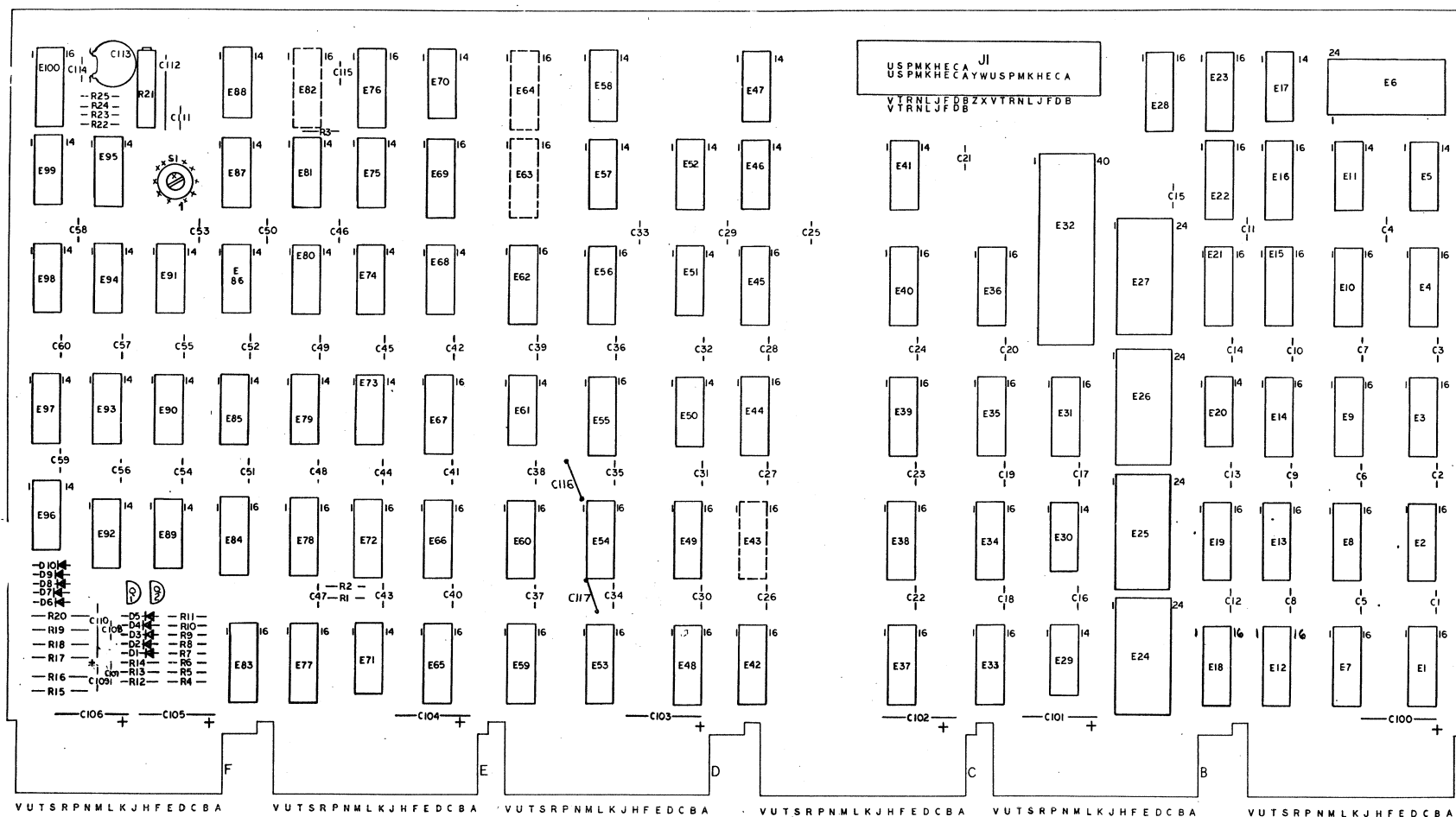
2-MAY-72

PAGE 3 OF 3

A145	145	D6-1	115	F-4	364	SB-1	213
B-1	015	D6-2	075	F-5	061	SB-1	215
B-2	147	D6-3	077	H-1	041	SB-2	025
B-3	146	D6-4	057	H-2	302	SB-3	026
B-2A	305	D6-5	300	INT-1	325	SB-4	027
B-2B	333	D7-1	117	IT-1	273	SB-5	030
B-2C	335	D7-2	310	J1-1	204	S7-1	217
B-2D	343	D7-3	104	J1-2	260	S7-2	032
B-2E	013	D7-4	320	J2-1	212	S7-3	033
B-2F	040	D7-5	106	J2-1A	261	S7-4	034
B-2G	045	D8-1	156	J2-2	262	S7-5	035
B-2H	112	D8-2	164	J2-3	214	SB1-1	166
B-2I	151	D8-3	304	J2-4	206	SB1-2	172
CCM-1	350	D8-4	110	J2-5	216	SB1-3	173
CCS-1	316	DE-1	250	J2-6	263	SB1-4	174
CCS-2	276	DO-1	270	J2-7	264	SB1-5	144
CCS-3	272	DO-10	165	J2-8	265	SB1-6	176
CD1-1	313	DO-11	342	LC-1	042	SB1-7	177
CD1-2	303	DO-12	135	MB-0	154	SB1-8	006
CD1-3	374	DO-13	136	MB-1	240	SB2-1	167
CD1-4	314	DO-14	137	MB-2	152	SB2-2	012
CD1-5	372	DO-15	140	PF-1	043	SB2-3	220
CD2-1	312	DO-16	141	R1-1	005	SB2-4	022
CD2-2	337	DO-17	142	R1-2	221	SB2-5	023
CE1-1	317	DO-18	143	R1-3	222	SB2-6	024
CE1-2	307	DO-2	123	R1-4	223	SB2-7	031
CE1-3	324	DO-3	124	R1-5	224	SB2-8	330
CE2-1	315	DO-4	125	R1-6	225	SBE-1	047
CE2-2		DO-5	126	R2-1	227	SBO-1	067
CL-1	311	DO-6	127	R2-2	230	SBO-2	346
CL-2	375	DO-7	130	R2-3	231	SBO-3	324
CL-3	367	DO-8	131	R2-4	232	SBO-4	340
CS-1	100	DO-9	132	R2-6	234	SBO-5	361
CS-2	322	ERT-1	046	R2-7	235	SBO-6	050
CS-3	321	ERT1A		R2-8	236	SBO-7	020
DO-1	101	ERT1B	153	R2-9	237	SBO-8	052
DO-2	157	ET-1	011	RS-1	000	SC-1	116
DO-3	162	ET-10	254	RS-2	347	T-1	021
DO-3A	155	ET-11	255	RS-3	074	U1-1	352
DO-4	332	ET-12	256	RS-4	351	U2-1	353
DO-5	103	ET-13	257	RS-5	357	U3-1	354
D1-2	200	ET-2	245	RT-1	001	U4-1	355
D1-3	210	ET-3	246	SO-1	201	URTX	064
D1-4	163	ET-5	247	SO-2	007	W-1	065
D1-5	334	ET-6	226	S1-1	203		
D1-6	065	ET-7	251	S1-2	203		
D2-1	105	ET-8	252	S2-1	244		
D2-2	331	ET-9	253	S2-2	205		
D2-3	341	ET2-2	003	S2-3	301		
D3-1	107	ET2-3	004	S2-4	304		
D3-2	160	ET2-5	036	S3-1	207		
D3-3	070	ET2-6	037	S3-2	016		
D3-4	071	ET2-7	051	S3-3	017		
D3-5	072	F-1	062	S3-4	134		
D4-1	111	F-2	053	S3-5	274		
D5-1	113	F-3	365	S4-1	211		

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NOTES:



-15V
FB2
C106
+6.8

C1-C20, C22-C60	
.01	.01

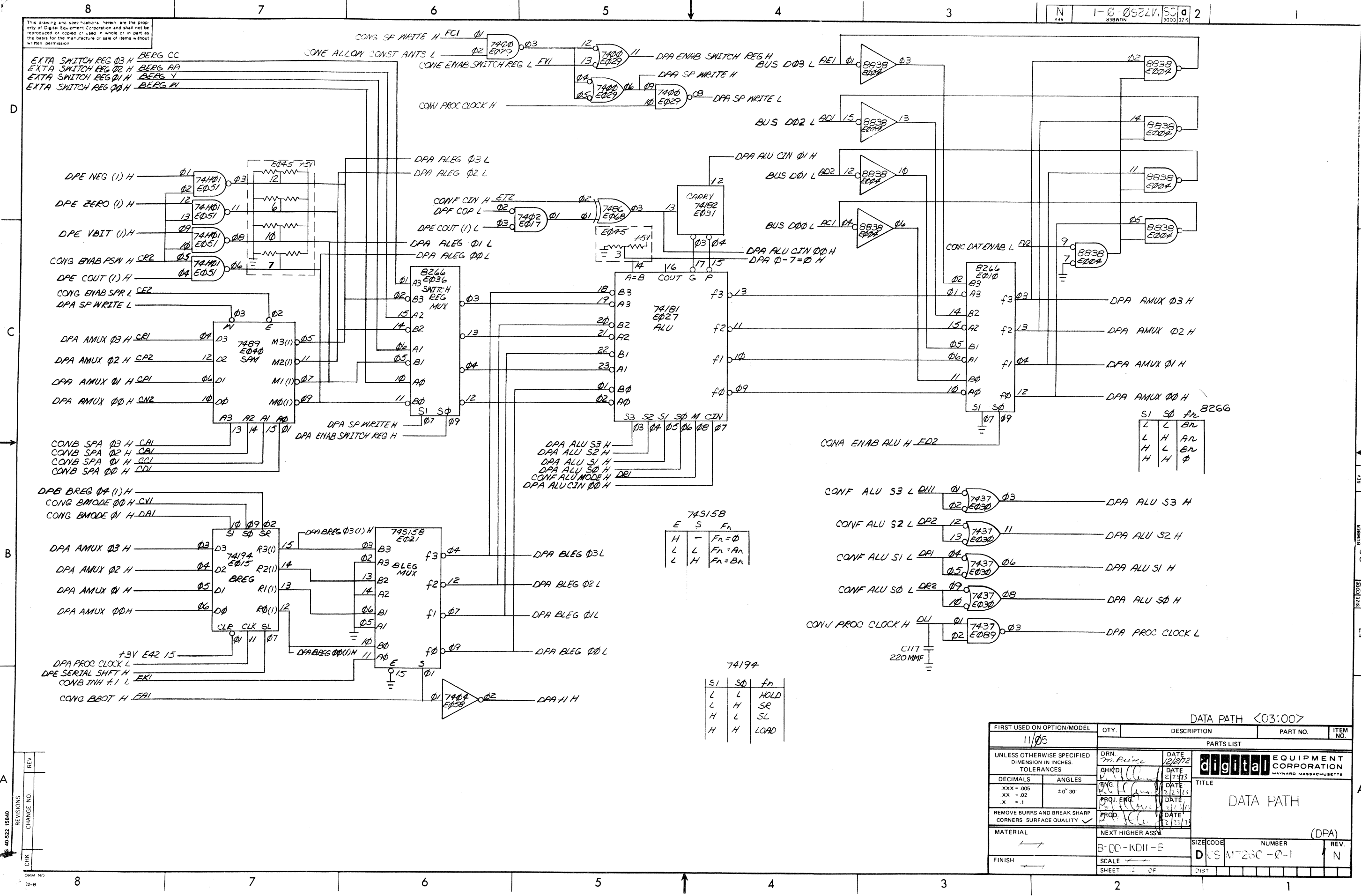
$\begin{array}{c} \text{C100-C105} \\ + \quad + \\ \text{---} \quad \text{---} \\ 6.8 \quad 6.8 \end{array}$

+5V: AA2, BA2, CA2,
DA2, EA2 & FA2

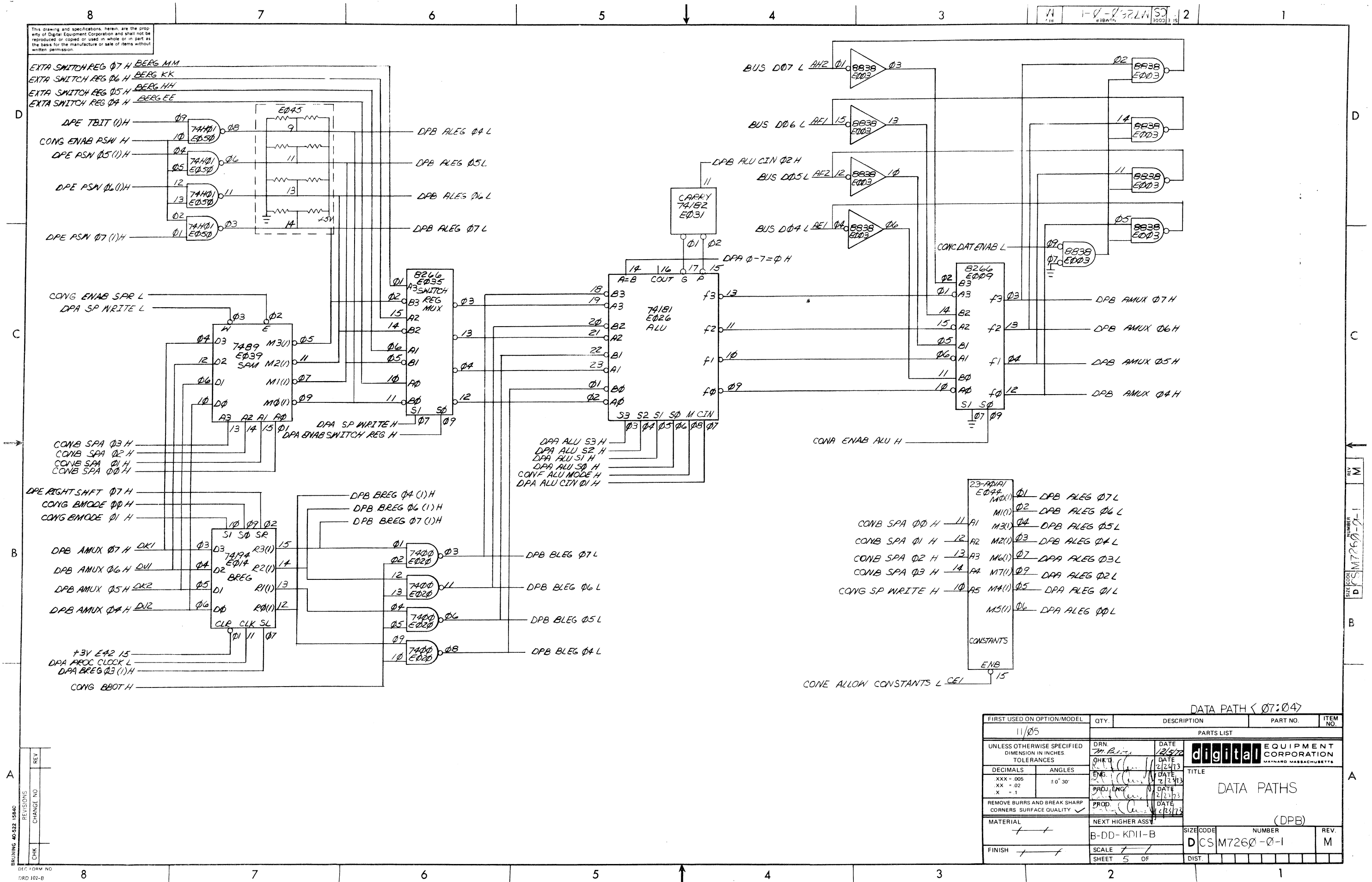
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AR2, AS2, AT2, AV2,
AN1, AP1, AR1, AS1,
AT1, BB2, BC2, BD2,
BE2, BT2, BV2, BD1,
BE1, BT1, CC2, CT1,
DC2, DT1, EC2, ET1,
FC2, FT1, J1A-B, PB,
UU, VV.

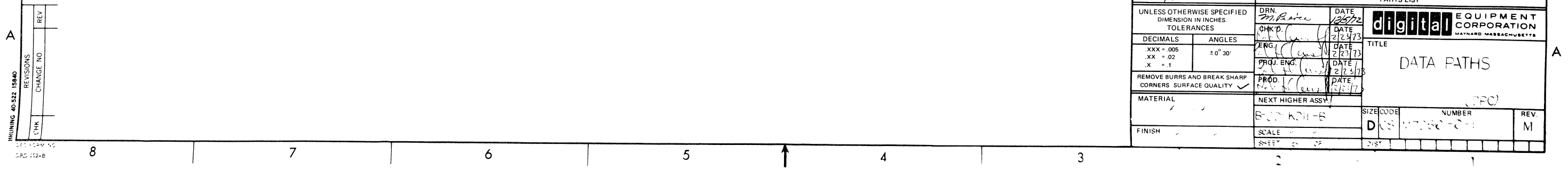
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	DEC 74175	8	16
	DEC 7489	8	16
	DEC 1808	3	1
	DEC 74182	8	16
	DEC 74181	12	24
	DEC 74157	8	16
	DEC 74S158	8	16
	DEC 74153	8	16
	DEC 74194	8	16
B	DEC 74150	12	24
	DEC 8838	8	16
	IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE			
IC PIN LOCATIONS			

QTY		REF DESIGNATION		DESCRIPTION		PART NO.		ITEM NO.	
FIRST USED ON OPTION MODEL				PARTS LIST					
ETCH BOARD REV				C					
CHK	CHANGE NO.	REVISIONS	REV	DRN		DATE		EQUIPMENT CORPORATION	
				CHK'D		1/22/73		MAYNARD MASSACHUSETTS	
				ENG		DATE		TITLE	
				PROJ. ENG.		DATE		DATA PATHS	
				PROD.		DATE			
				NEXT HIGHER ASSY					
				B-DD-K0115					
	DEC NO.	EIA NO.			SCALE	SHEET		REV.	
						2 OF		N	
SEMICONDUCTOR CONVERSION CHART									

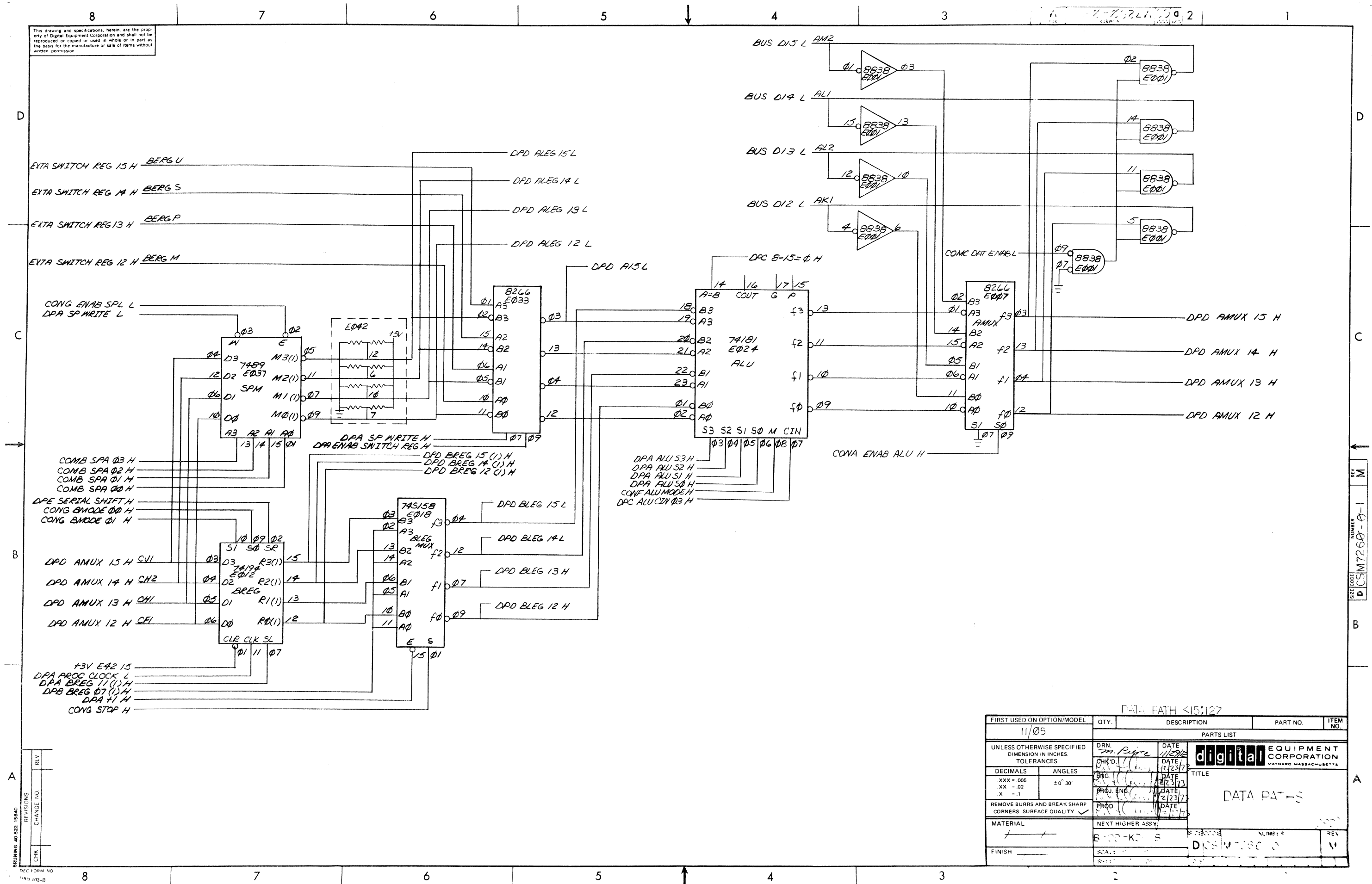


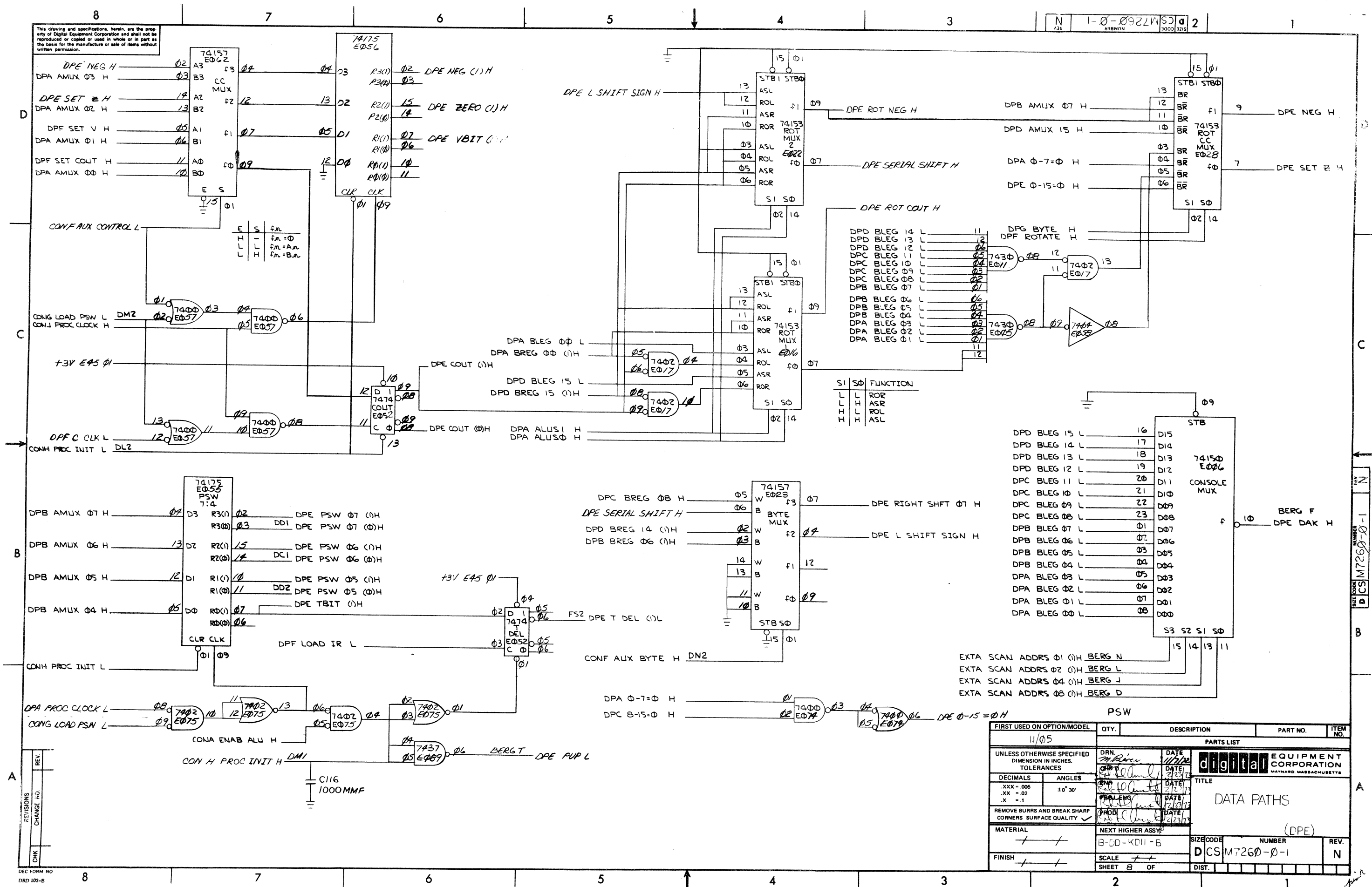
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES			DRN. <i>M. R. Price</i>	DATE <i>12/27/72</i>	digital EQUIPMENT CORPORATION WATYARD, MASSACHUSETTS
DECIMALS			CHKD. <i>[Signature]</i>	DATE <i>2/7/73</i>	
ANGLES			ENG. <i>[Signature]</i>	DATE <i>2/7/73</i>	
XXX = .005 XX = .02 X = .1			PROJ. ENG. <i>[Signature]</i>	DATE <i>2/7/73</i>	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			PROD. <i>[Signature]</i>	DATE <i>2/7/73</i>	TITLE DATA PATH
MATERIAL			NEXT HIGHER ASSY		
FINISH			B-00-K011-E	SIZE CODE D	
SHEET 2 OF 2			SCALE	NUMBER M7260-0-1	
				REV. N	

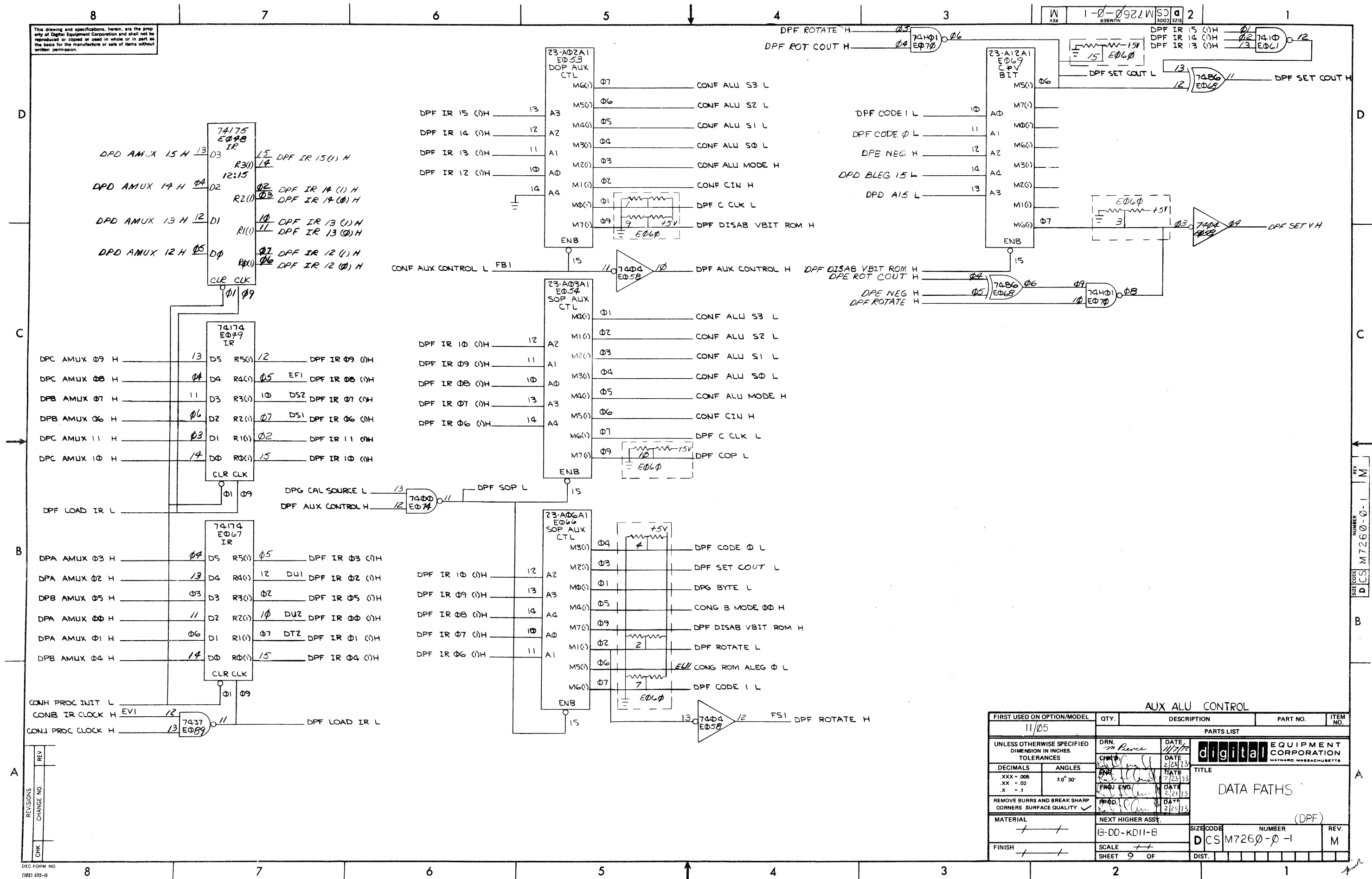




FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN. Mr. Rainer	DATE 12/5/72	digital EQUIPMENT CORPORATION NATHAN, MASSACHUSETTS	
DECIMALS	ANGLES	CHK'D	DATE 2/23/73		
XXX = .005 XX = .02 X = .1	+0° -30°	ENG.	DATE 2/23/73		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROJ. ENG.	DATE 2/23/73		
MATERIAL		PROD.	DATE 2/23/73	TITLE DATA PATHS	
NEXT HIGHER ASSY.		CFC			
B-300 KCH-B					
SCALE					
FINISH	SHEET 1 OF 2	SIZE CODE D	NUMBER 10000-0-1	REV. M	







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CONE BUT DESTINATION L DH1

DPF IR 12 (1)H

DPF IR 13 (1)H

DPF IR 14 (1)H

DPF IR 15 (1)H

DPF IR 02 (1)H

DPF IR 01 (1)H

DPF IR 00 (1)H

CONE BUT IR DECODE L DV2

DPG CC L

DPF IR 03 (1)H

DPF IR 04 (1)H

DPF IR 05 (1)H

DPF IR 06 (1)H

DPF IR 07 (1)H

DPG ODD BYTE=0 L

23-A05A1
E057

M2(1) 03
M6(1) 07
M3(1) 04
M4(1) 05
M7(1) 09
M1(1) 02
M0(1) 01
M5(1) 06

ENB

23-A04A1
E065

M7(1) 09
M6(1) 07
M5(1) 06
M4(1) 05
M3(1) 04
M2(1) 03
M1(1) 02
M0(1) 01

ENB

23-A11A1
E083

M0(1) 01
M1(1) 02
M3(1) 04
M7(1) 09
M4(1) 05
M2(1) 03
M6(1) 07
M5(1) 06

ENB

23-A03A2
E072

A7 M0(1) 12
A4 M3(1) 09
A5 M2(1) 10
A0 M1(1) 11
A1 ENB1 ENB0

ENB

23-A10A1
E077

M7(1) 09
M0(1) 01
M1(1) 02
M2(1) 03
M3(1) 04
M4(1) 05
M5(1) 06
M6(1) 07

ENB

ENB

ENB

ENB

ENB

ENB

ENB

ENB

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DEC FORM 1
FD-102-B

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THIS FACE SHEET CONTAINS THE FOLLOWING CHIP PART NUMBERS

PART NUMBER

- 23-A01A1
- 23-A02A1
- 23-A03A1
- 23-A04A1
- 23-A05A1
- 23-A06A1
- 23-A08A1
- 23-A10A1
- 23-A11A1
- 23-A12A1
- 23-A03A2

FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION		PART NO.	ITEM NO.
KDII-B						
PARTS LIST						
DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE DATA PATH ROM PATTERNS				
CHK'D.	DATE					
ENG.	DATE					
PROJ. ENG.	DATE					
PROD.	DATE					
NEXT HIGHER ASSEMBLY						
B-DD-KDII-B						
SCALE	SHEET 1 OF 15		SIZE	CODE	NUMBER	REV.
			K	RL	M7260-0-8	
			DIST.			

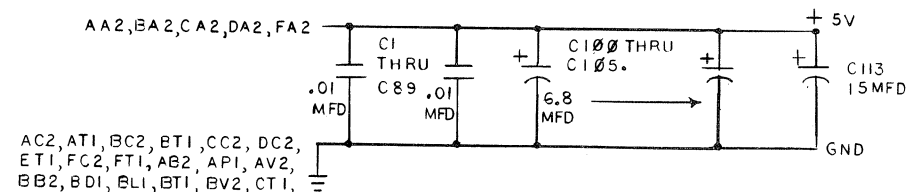
PAGE REVISION CONTROL SHEET

PAGE REVISIONS														REMARKS	
SH NO															*ETCH REVD NOT TO BE USED PER ORDER D.E.
1	H	J	K	L	M	N	P	R	S						
2	H	J	R	L	M	M	N	R	S						
3	H	H	H	H	H	H	H	R	R						
4	H	H	H	H	H	H	H	R	R						
5	H	H	J	J	J	J	J	R	R						
6	H	H	J	J	J	K	K	R	R						
7	H	H	J	J	J	J	J	R	R						
8	H	H	H	H	H	H	H	R	R						
9	H	H	J	J	J	J	J	R	R						
10	H	J	J	K	L	L	M	R	R						
11	H	H	J	R	K	K	K	R	R						
12	H	H	J	J	K	K	K	R	R						
13	H	H	J	J	K	K	K	R	R						
14	H	H	H	H	H	H	H	R	R						
ETCH REV	5	6	7	8	9	10	11	12	13						
ECHO	5	6	7	8	9	10	11	12	13						
QZ															

FIRST USED ON OPTION/MODEL

DIN.		DATE	8/16/72	
CHK'D.		DATE	8/21/72	
ENG.		DATE	8/17/72	
PROJ. ENG.		DATE	8/17/72	
PROD.		DATE	8/17/72	
NEXT HIGHER ASSY.				
SCALE				
SHEET 1 OF 14				
DIST.				
REV. S				
NUMBER 0-1				
SIZE CODE BCS				
TITLE				
Control Logic				
AND MICROPROGRAM				
digital				
EQUIPMENT CORPORATION				
WAYNAD, MASSACHUSETTS				
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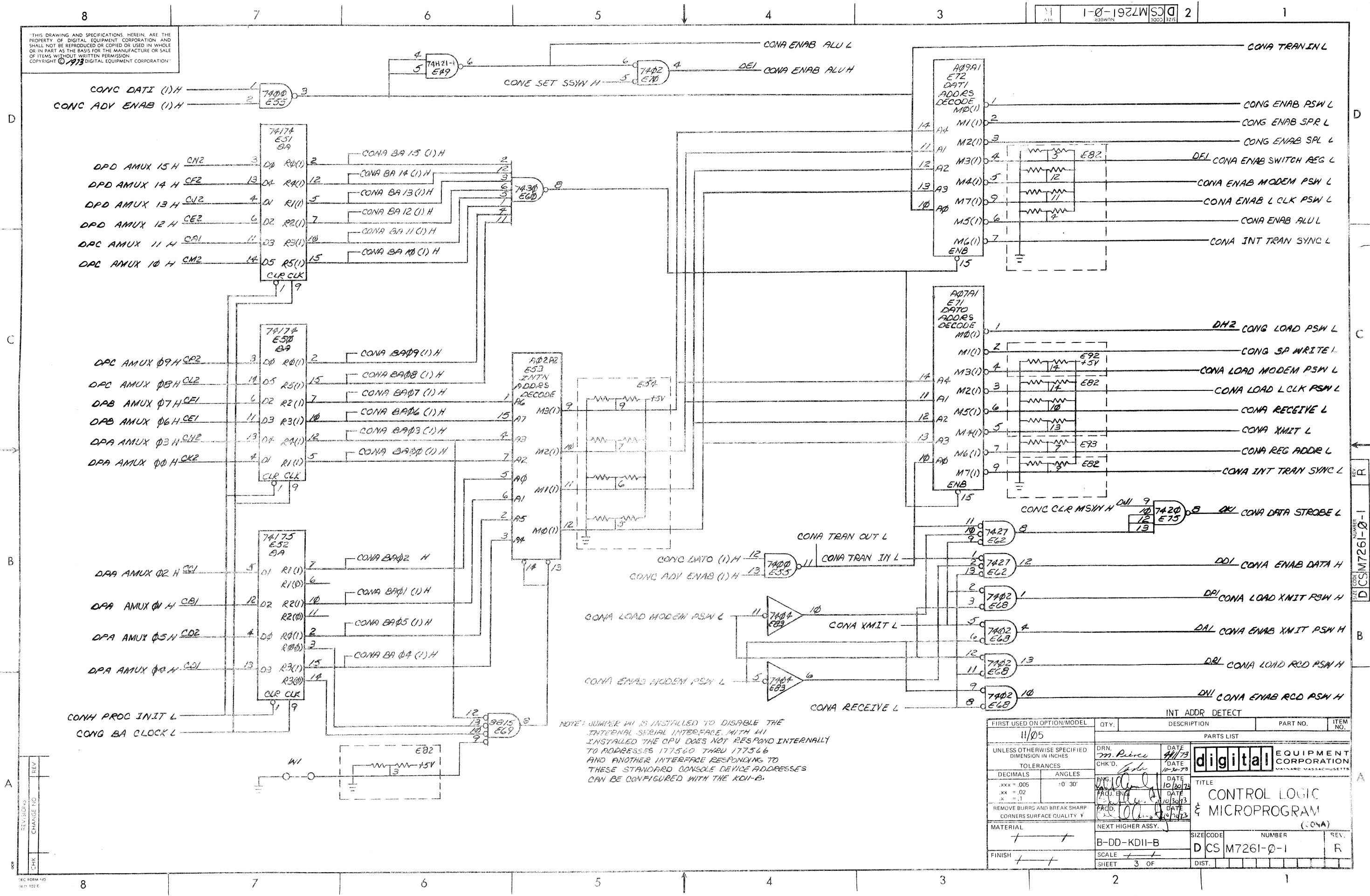
NOTE: UNLESS OTHERWISE NOTED, RESISTANCE IS IN OHMS.
CAPACITANCE IS IN PICO FARADS.

 $8\frac{7}{16}$ FBS

6	C100 THRU C105	CAPACITOR, 6.8 MFD, 35V, 10%, S.TA.	1009306	69
89	C1 THRU C89	CAPACITOR, .01 MFD, 100V, 20%, DISC	1001610	68
2	C114, 115	CAPACITOR, .68 MFD, 35V, 10%, S.TA.	1009964	67
1	C113	CAPACITOR, 15MFD, 20V, 10%, S.TA.	1004812	66
1	C112	CAPACITOR, 10 MFD, 20V, 10%, S.TA.	1004813	65
1	C111	CAPACITOR, 2.2 MFD, 20V, 10%, S.TA.	1002627	64
1	C110	CAPACITOR, 220 PF, 100V, 5%, DM	1000021	63
1	C109	CAPACITOR, 120 PF, 100V, 5%, DM	1000018	62
1	C108	CAPACITOR, 1000 PF, 100V, 5%, DM	1000042	61
1	C107	CAPACITOR, 2200 PF, 250V, 20%, DISC	1000055	60
1	C106	CAPACITOR, 470 PF, 100V, D.M.	1000024	59
4	D1, 2, 3, 4.	DIODE D664	1100114	58
2	R6, R8	RESISTOR, 390, 1/4W, 5%.	1300309	57
1	R14	RESISTOR, 5.6K, 1/4W, 5%	1301874	56
1	R11	RESISTOR, 10K, 1/4W, 5%	1300479	55
1	R7	RESISTOR, 1K, 3/4W, 10%, POT.	1309143-07	54
6	R4, 5, 9, 10, 12, 13	RESISTOR, 30K, 1/4W, 5%	1302394	53
3	R3, 16, 18.	RESISTOR, 1K, 1/4W, 5%	1300365	52
6	E 54, 82, 92, 93, 95, 100.	RESISTOR NETWORK	1311003-02	51
1	R1	RESISTOR, 150, 1/4W, 5%	1300250	50
2	R15, 17	RESISTOR, 2K, 1/4W, 5%	1302388	49
				47
				46
1	E24	IC A01A2	23A01A2	45
1	E116	IC A19A2	23A19A2	44
1	E115	IC A13A2	23A13A2	43
1	E114	IC A11A2	23A11A2	42
1	E113	IC A18A2	23A18A2	41
1	E112	IC A10A2	23A10A2	40
1	E108	IC A14A1	23A14A1	39
1	E107	IC A09A2	23A09A2	38
1	E106	IC A17A2	23A17A2	37
1	E105	IC A16A2	23A16A2	36
1	E104	IC A05A2	23A05A2	35
1	E103	IC A20A2	23A20A2	34
1	E102	IC A04A2	23A04A2	33
1	E72	IC A09A1	23A09A1	32
1	E71	IC A07A1	23A07A1	31
1	E53	IC A02A2	23A02A2	30
2	E91, 110.	IC DEC 74154	1909701	29
1	E89	IC DEC 7405	1909930	28
1	E61	IC DEC 7410	1905576	27
1	E60	IC DEC 7430	1905578	26
2	E58, 59.	IC DEC 74153	1909937	25
3	E50, 51, 97.	IC DEC 74174	1910652	24
3	E49, 78, 109	IC DEC 74H01-1	1909849	23
2	E46, 62.	IC DEC 7427	1910878	22
2	E45, 69.	IC DEC 8815	1909713	21
1	E39	IC DEC 7413	1909989	20
2	E34, 75.	IC DEC 7420	1905577	19
4	E29, 48, 57, 67.	IC DEC 9602	1910951	18
4	E25, 63, 83, 90.	IC DEC 7404	1909686	17
7	E20, 28, 36, 73, 76, 87, 98.	IC DEC 7474	1905547	16
1	E17	IC DEC 7437	1910091	15
3	E12, 22, 32.	IC DEC 380	1909485	14
4	E10, 64, 81, 84.	IC DEC 74H40	1905586	13
10	E 27, 37, 47, 55, 66, 80, 85, 96, 98	IC DEC 7400	1905575	12
13	E6, 14, 18, 19, 33, 35, 38, 60, 70, 74, 77, 88, 94.	IC DEC 7402	1909508	11
9	E4, 7, 8, 15, 16, 44, 56, 65, 86.	IC DEC 7473	1905587	10
3	E3, 5, 79.	IC DEC 7408	1910155	9
7	E2, 13, 23, 26, 52, 101, 111.	IC DEC 74175	1910651	8
9	E1, 11, 21, 30, 31, 40 THRU 43.	IC DEC 8881	1909705	7
12		EYELET	9006732	6
1		HANDLE, MODULE	E-PS-1210711-02	5
1		ETCHED CIRCUIT BOARD	5009745	4
REF		MODULE ECO HISTORY	B-MH-M7261-0-6	3
REF		ASSY/DRILL HOLE LAYOUT	D-AH-M7261-0-5	2
REF		X-Y COORDINATE HOLE LOCATION	K-CO-M7261-0-4	1
QTY.	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST				TITLE	
TRANSISTOR & DIODE CONVERSION CHART				CONTROL LOGIC MICROPROGRAM	
DATE 9-5-73	DEC	EIA	 DIGITAL EQUIPMENT CORPORATION NATYAND, MASSACHUSETTS	SIZE D	CODE CS
DATE 10-30-73	D654	N3505		NUMBER	M7261-0-1
DATE 10-30-73				REV	S
DATE 10-30-73				PRINTED CIRCUIT REV.	F
DATE 10-30-73					

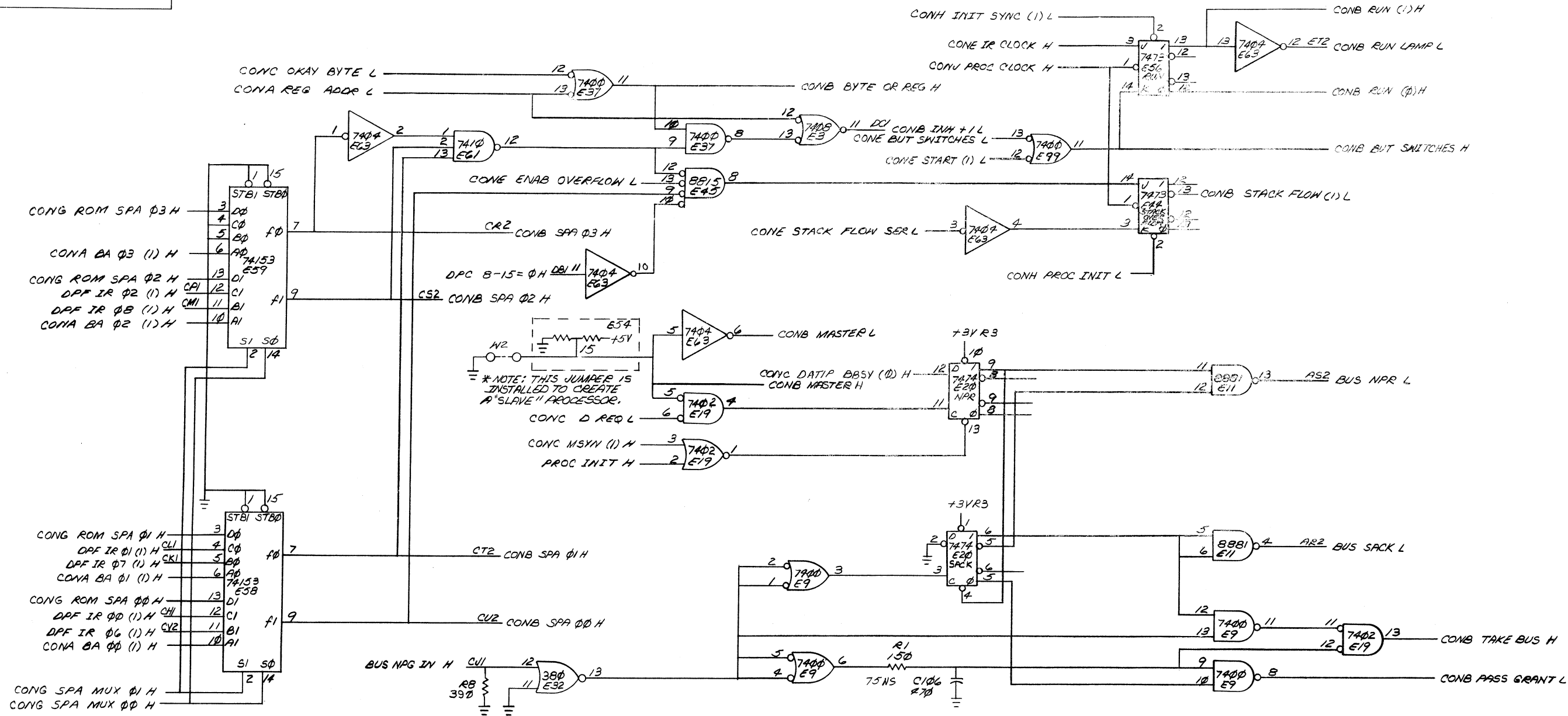
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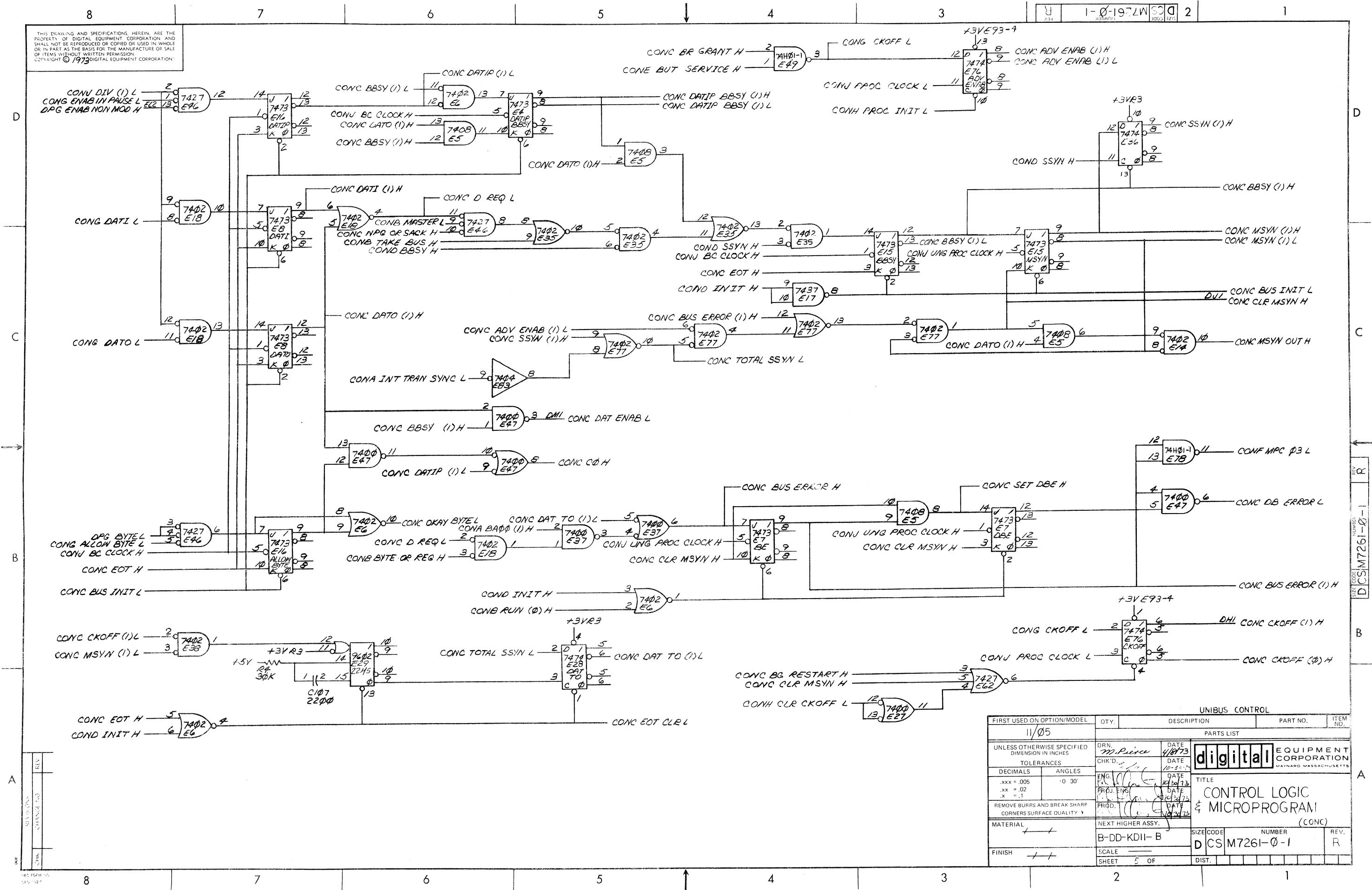
NOTE: JUMPER W1 IS INSTALLED TO DISABLE THE INTERNAL SERIAL INTERFACE. WITH W1 INSTALLED THE CPU DOES NOT RESPOND INTERNALLY TO ADDRESSES 177560 THRU 177566 AND ANOTHER INTERFACE RESPONDING TO THESE STANDARD CONSOLE DEVICE ADDRESSES CAN BE CONFIGURED WITH THE K01-B.

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DRN. M. Pierce	DATE 4/1/79	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES		CHK'D. J. J. J.	DATE 10-30-73		
DECIMALS	ANGLES	ENG. J. J. J.	DATE 10/30/73	TITLE CONTROL LOGIC & MICROPROGRAM (CONA)	
.xxx = .005	±0° 30'	PACD. ENG. J. J. J.	DATE 10/30/73		
.xx = .02		PACD. L.S. J. J. J.	DATE 10/30/73	MATERIAL + + +	
.x = .1				NEXT HIGHER ASSY. B-DD-KDII-B	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y				FINISH + + +	
				SCALE 3 OF 3	
				SHEET 3 OF 3	
				SIZE CODE D CS M7261-0-1	
				NUMBER REV. R	

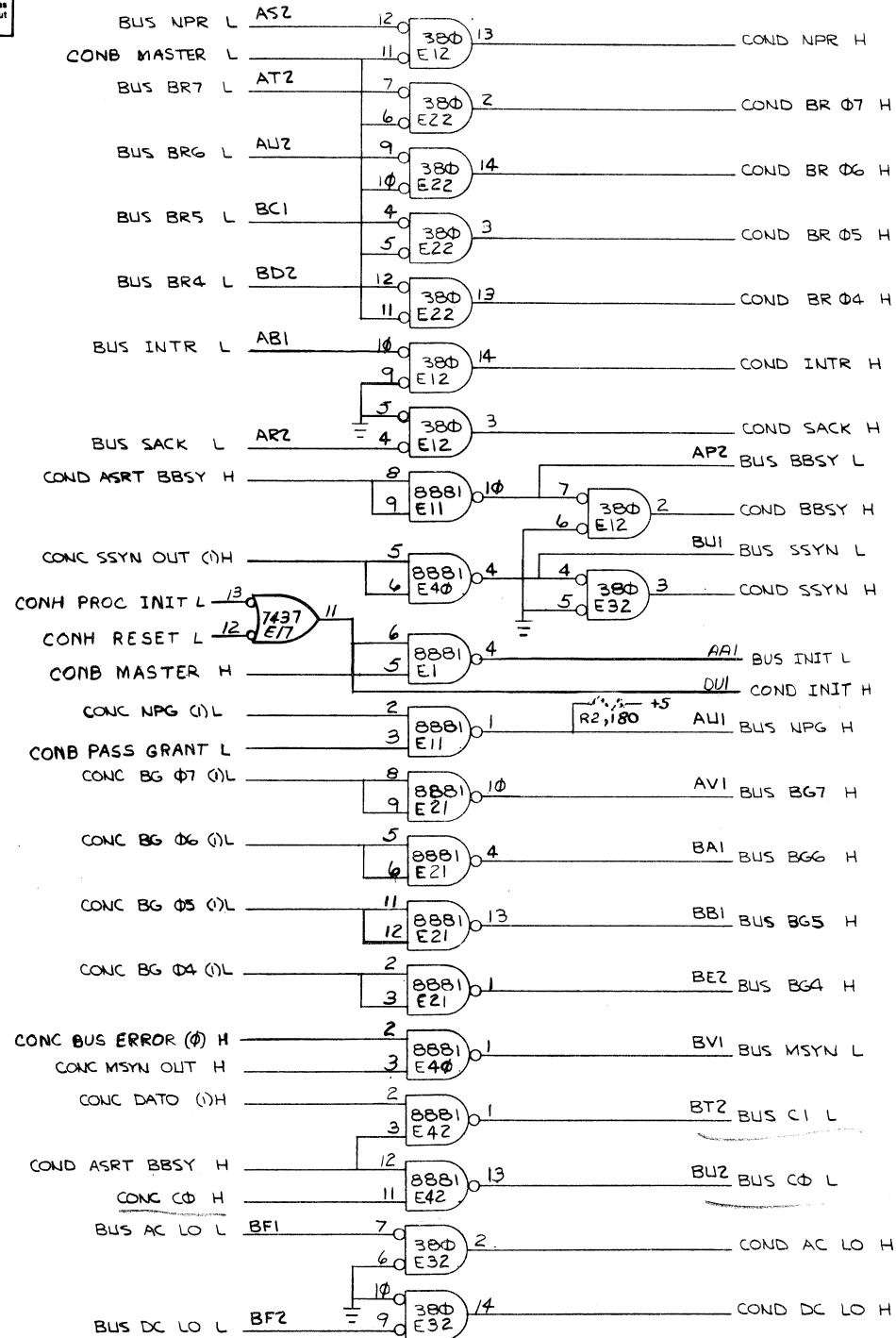
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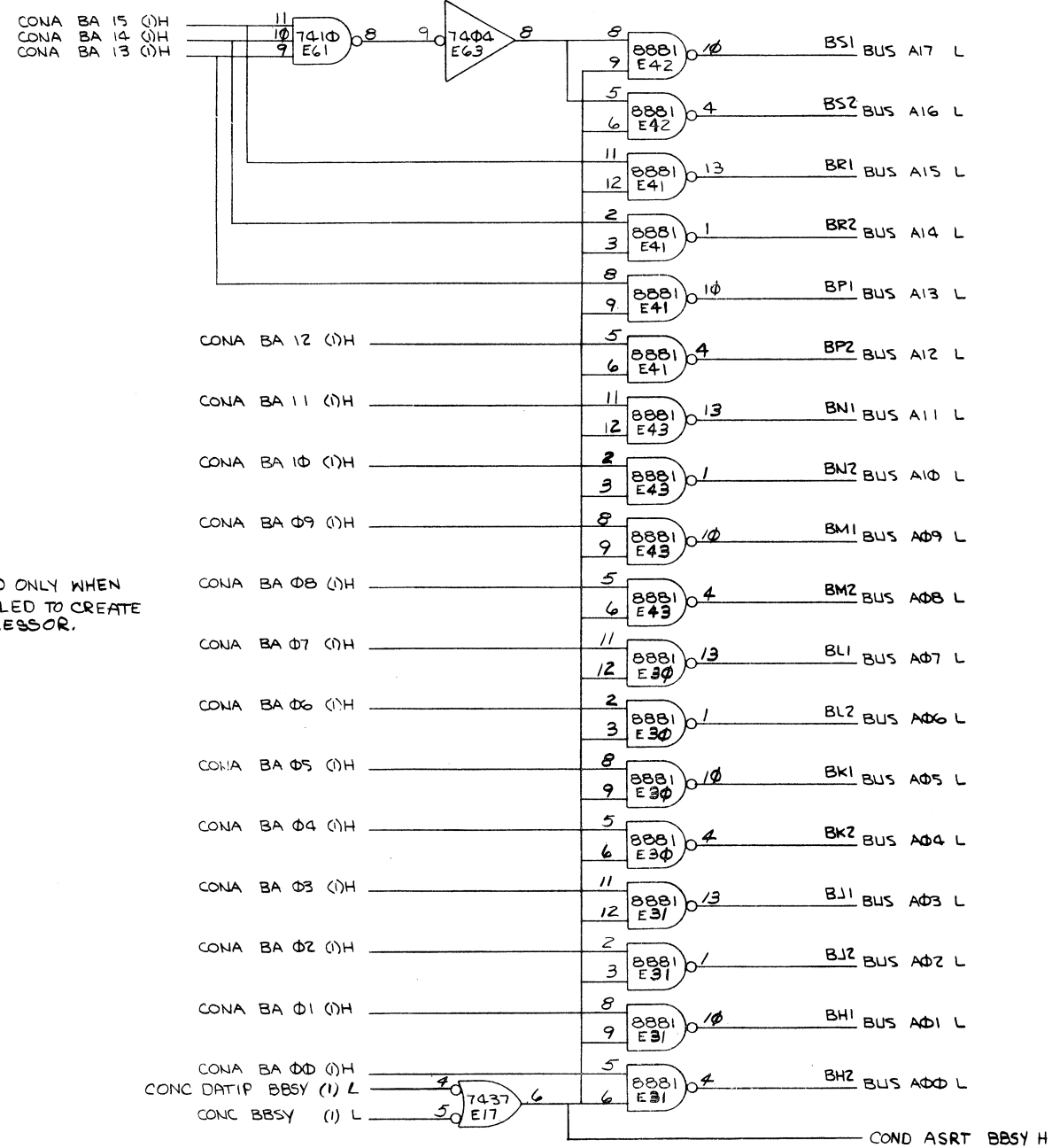
STACKFLOW & SPM			
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO. ITEM NO.
11/05			
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN. <i>m. P. 11/05</i>	DATE <i>4/13/73</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
TOLERANCES	CHK'D.	DATE <i>10/24/73</i>	
DECIMALS ANGLES	ENG. <i>(signature)</i>	DATE <i>12/20/73</i>	
.xxx = .005 .xx = .02 .x = .1	PROJ. MGR. <i>(signature)</i>	DATE <i>10/30/73</i>	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY $\sqrt{\text{ }}$	PROD. <i>(signature)</i>	DATE <i>10/30/73</i>	TITLE CONTROL LOGIC & MICROPROGRAM (CONB)
MATERIAL	NEXT HIGHER ASSY.		
FINISH	B-DD-KDII-B	SIZE CODE D CS M7261-0-1	
	SCALE $\frac{1}{1}$	NUMBER 4	
	SHEET 4 OF 4	REV. R	
		DIST.	



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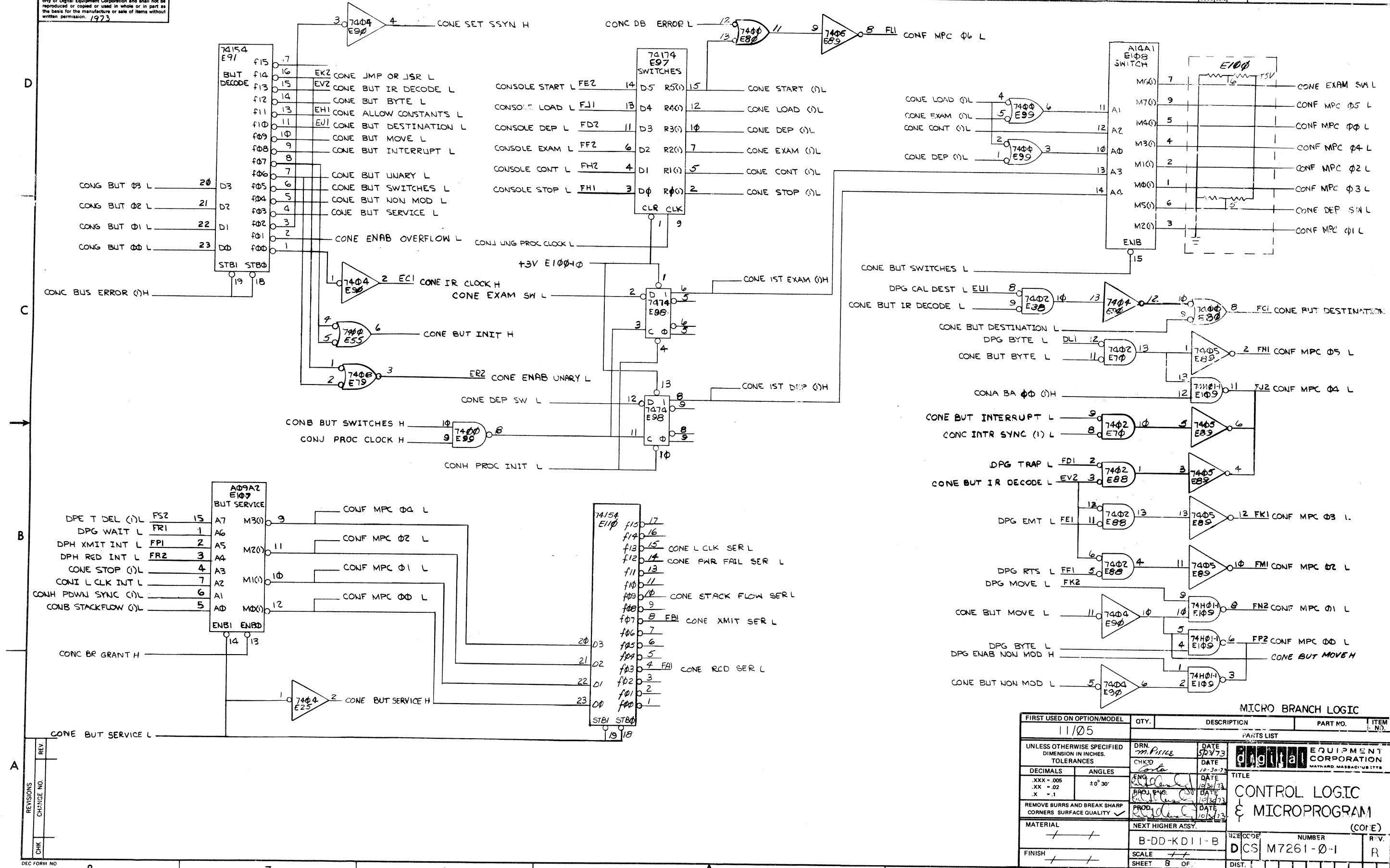
NOTE: R2 INSTALLED ONLY WHEN W2 IS INSTALLED TO CREATE A SLAVE PROCESSOR.



DRIVERS & RECEIVERS

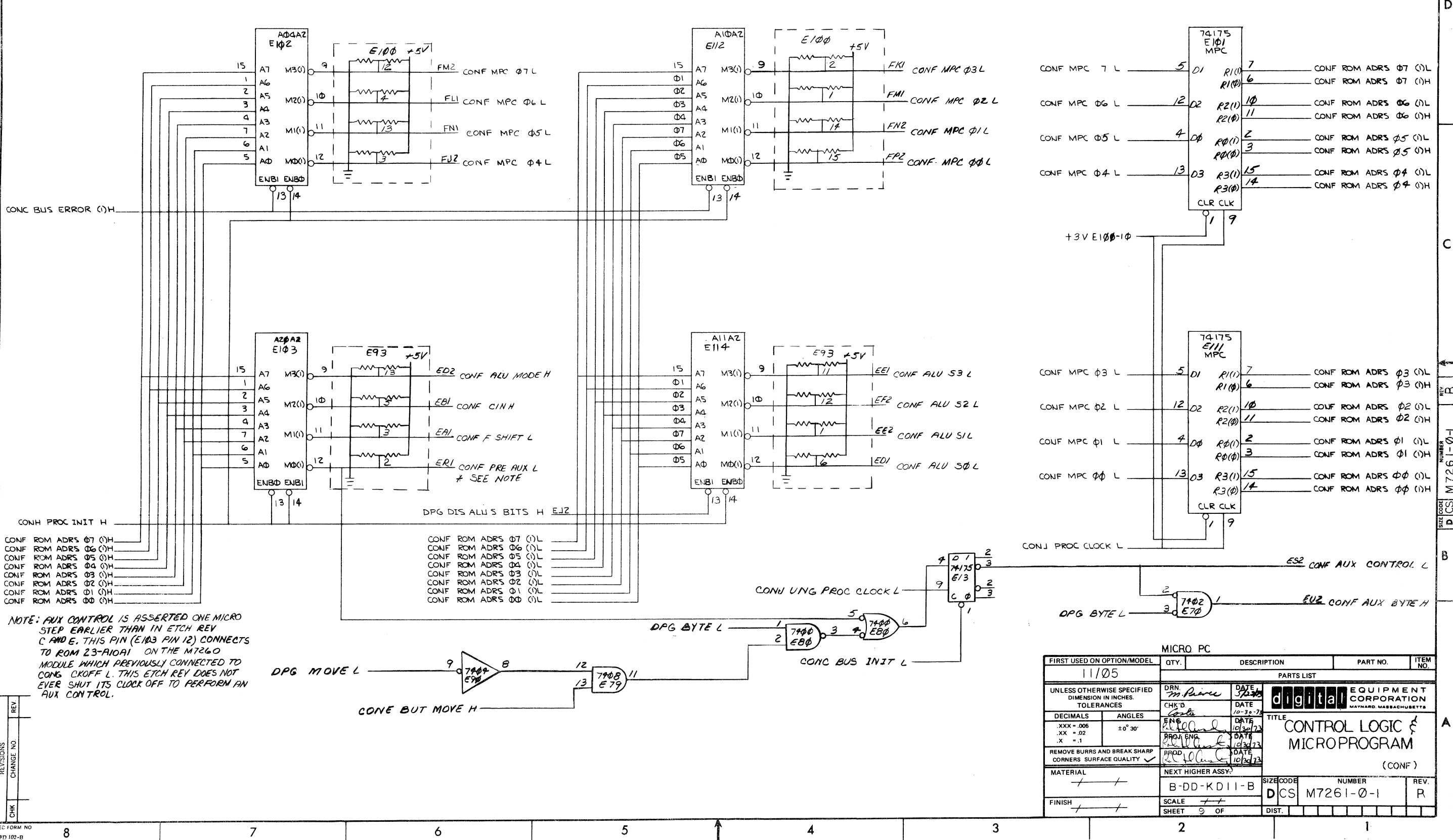
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES: TOLERANCES		DRN DATE CHK'D DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	ANGLES	DATE	TITLE	
.XXX = .005	±0° 30'	10/30/73	CONTROL LOGIC	
.XX = .02		10/30/73	& MICROPROGRAM	
.X = .1		10/30/73	(COND)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	NEXT HIGHER ASSY:	
		10/30/73		
MATERIAL			B-DD-KD11-B	SIZE CODE
				NUMBER
FINISH				REV
				R
		SCALE	7 OF	DIST.
		SHEET		

REV	CHANGE NO.	DATE
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FIRST USED ON OPTION/MODEL		QTY.		DESCRIPTION		PART NO.		ITEM NO.	
11/05									
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN		DATE		 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
		M. P. 11/05		5/27/73					
DECIMALS		CHKD		DATE		TITLE			
		C. 11/05		12-30-73					
ANGLES		ENG		DATE		CONTROL LOGIC & MICROPROGRAM			
		C. 11/05		1/31/73					
.XXX = .005 .XX = .02 .X = .1		PROJ. ENG		DATE		(CONT.)			
		C. 11/05		1-31-73					
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROD.		DATE		NUMBER			
		C. 11/05		10/1/73					
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE		NUMBER		REV.	
+ / +		B-DD-KD11-B		D CS		M7261-0-1		R	
FINISH		SCALE		SHEET		DIST.			
+ / +		8 OF		8					

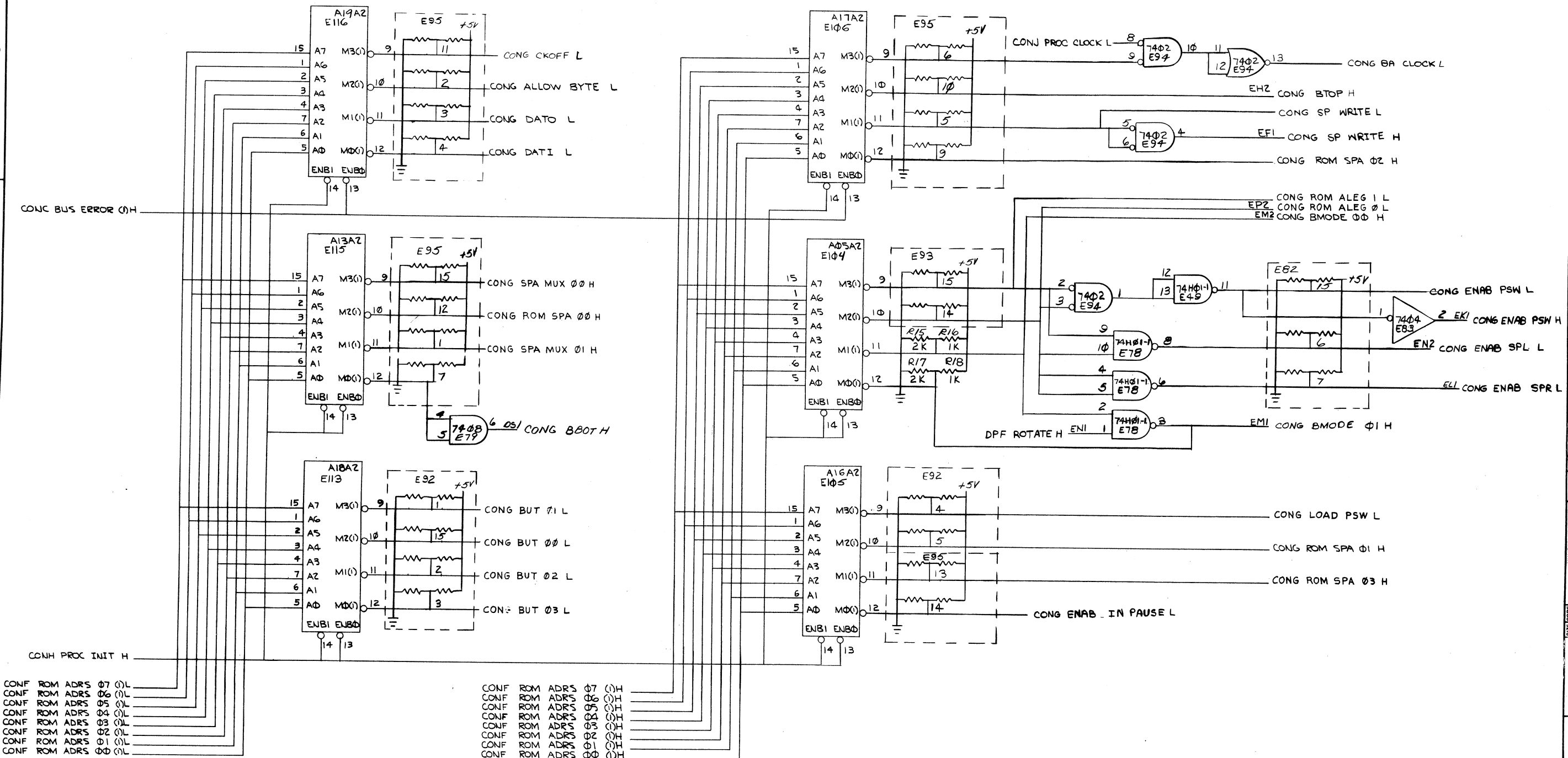
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NOTE: AUX CONTROL IS ASSERTED ONE MICRO STEP EARLIER THAN IN ETCH REV C AND E. THIS PIN (E103 PIN 12) CONNECTS TO ROM 23-A10A1 ON THE M7260 MODULE WHICH PREVIOUSLY CONNECTED TO CONG CKOFF L. THIS ETCH REV DOES NOT EVER SHUT ITS CLOCK OFF TO PERFORM AN AUX CONTROL.

MICRO PC			
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
11/05			
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN. <i>M. Paine</i>	DATE <i>10-30-73</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
DECIMALS	CHK'D <i>Costa</i>	DATE <i>10-30-73</i>	
ANGLES	ENG. <i>Costa</i>	DATE <i>10-30-73</i>	
.XXX = .006 .XX = .02 .X = .1	PROD. <i>Costa</i>	DATE <i>10-30-73</i>	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. <i>Costa</i>	DATE <i>10-30-73</i>	TITLE CONTROL LOGIC & MICROPROGRAM (CONF)
MATERIAL	NEXT HIGHER ASSY.		
FINISH	B-DD-KD11-B	SIZE CODE DCS	
	SCALE	NUMBER M7261-0-1	
	SHEET 9 OF	REV. R	

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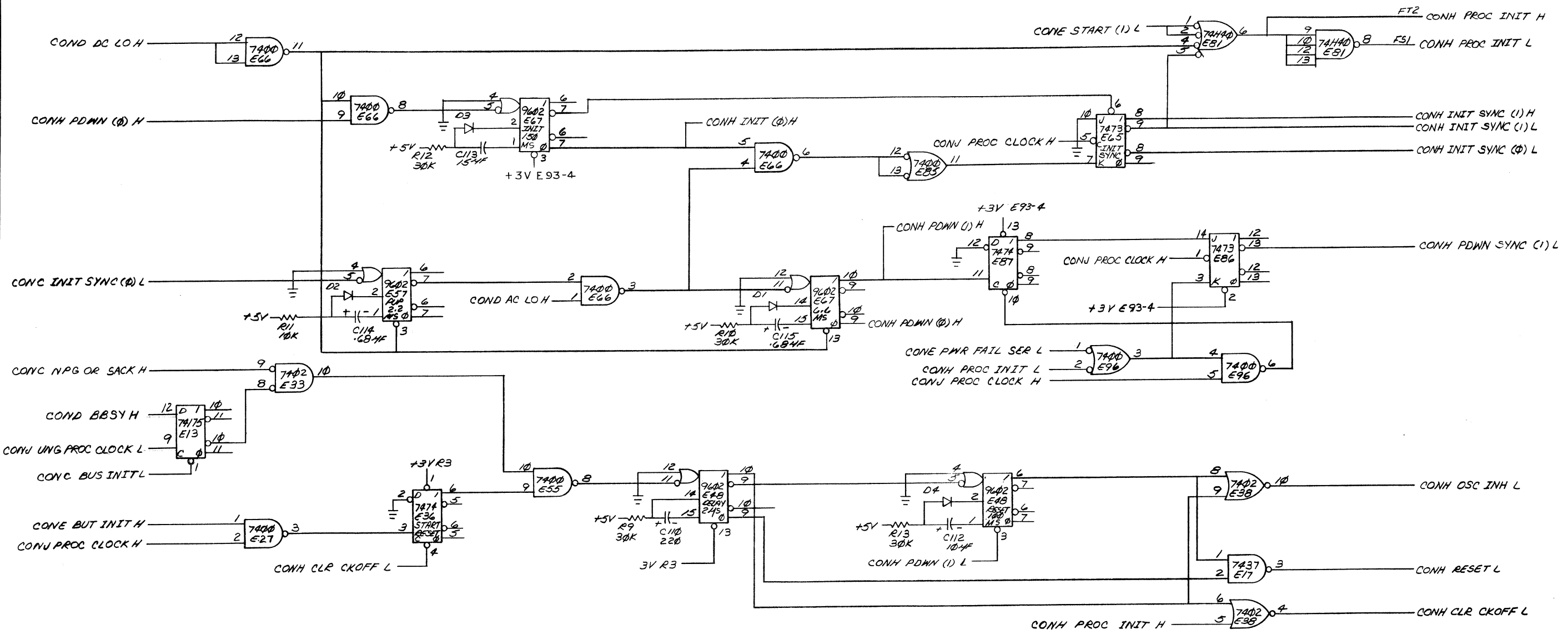
CONF ROM ADRES 07 00 L
CONF ROM ADRES 06 00 L
CONF ROM ADRES 05 00 L
CONF ROM ADRES 04 00 L
CONF ROM ADRES 03 00 L
CONF ROM ADRES 02 00 L
CONF ROM ADRES 01 00 L
CONF ROM ADRES 00 00 L

CONF ROM ADRES 07 00 H
CONF ROM ADRES 06 00 H
CONF ROM ADRES 05 00 H
CONF ROM ADRES 04 00 H
CONF ROM ADRES 03 00 H
CONF ROM ADRES 02 00 H
CONF ROM ADRES 01 00 H
CONF ROM ADRES 00 00 H

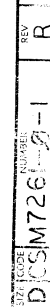
CONTROL STORE			
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
11/05			
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN. CHKD. ENG. PROD. ENG. PROD.	DATE 5/2/73 10/30/73 10/30/73 10/30/73	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
DECIMALS	ANGLES		
.XXX - .005	±0° 30'		
.XX - .02			
.X - .1			
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY			
MATERIAL	NEXT HIGHER ASSY		
FINISH			
TITLE CONTROL LOGIC & MICROPROGRAM (CONG)		SIZE CODE D CS	NUMBER M7261-0-1
SCALE SHEET 10 OF		DIST.	REV. R

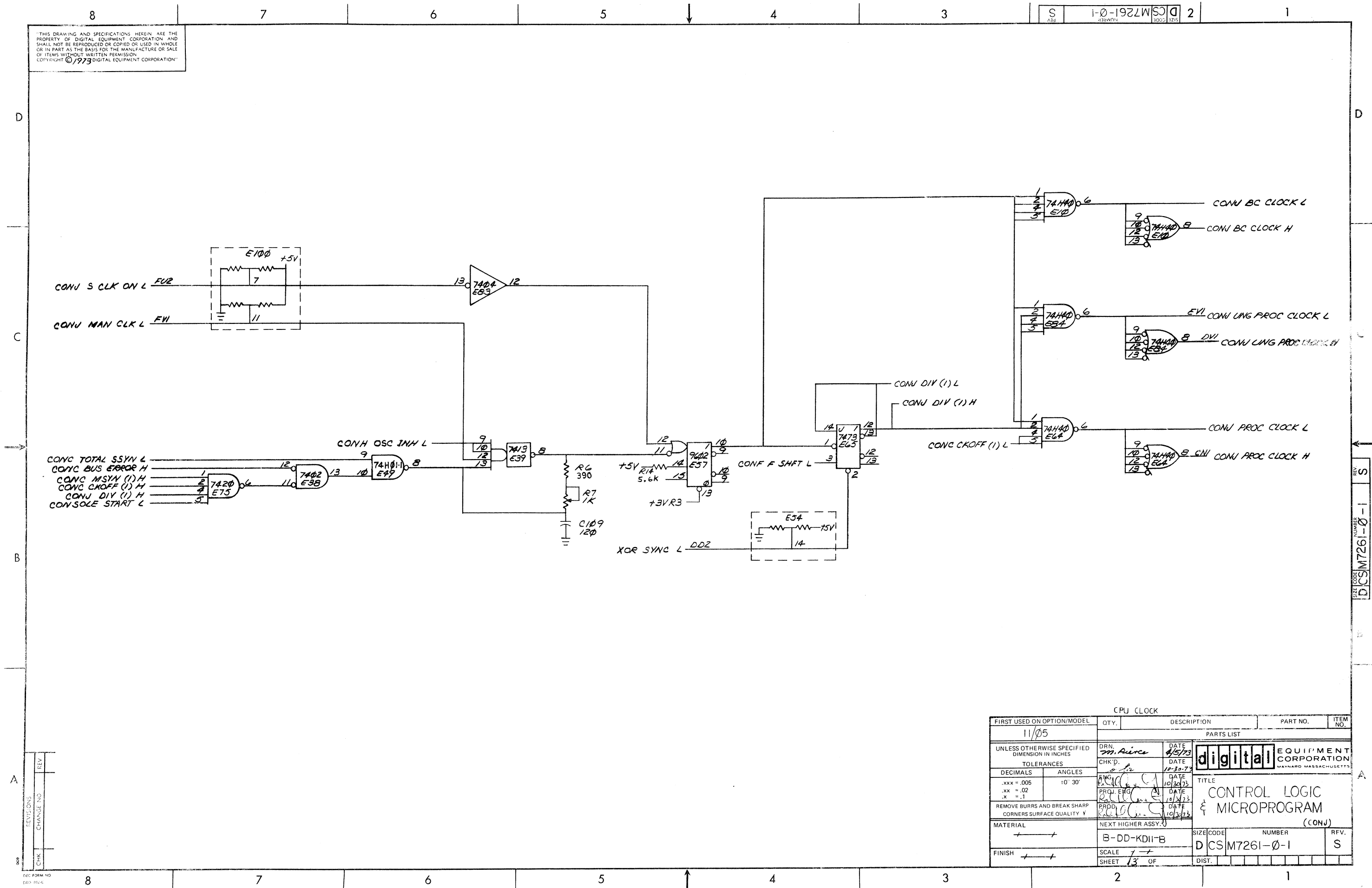
REV	CHANGE NO.

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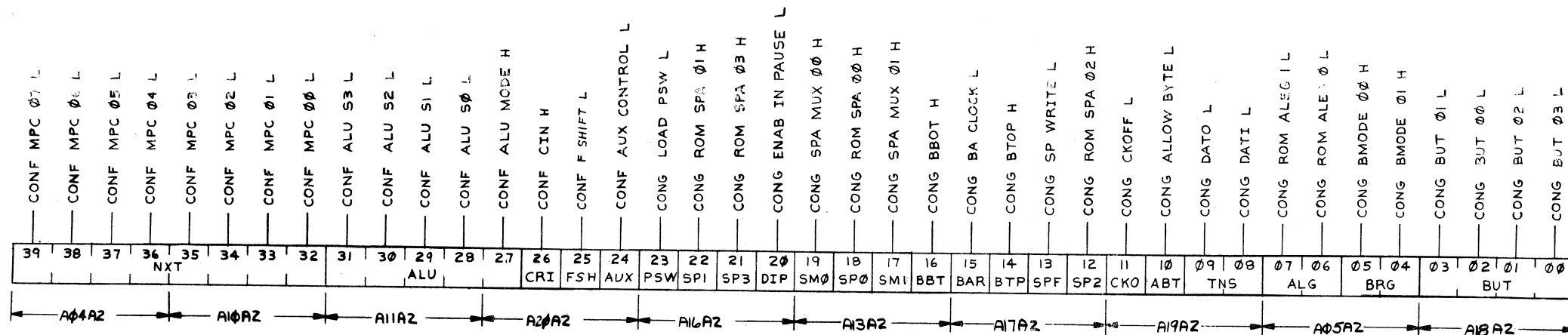
POWER FAIL			
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO. ITEM NO.
11/05			
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DRN. <i>m. River</i>	DATE <i>10-30-73</i>
TOLERANCES		CHK'D. <i>g. la</i>	DATE <i>10-30-73</i>
DECIMALS	ANGLES	ENG. <i>g. la</i>	DATE <i>10-30-73</i>
.xxx = .005	±0° 30'	PROJ. ENG. <i>g. la</i>	DATE <i>10-30-73</i>
.xx = .02		PROD. <i>g. la</i>	DATE <i>10-30-73</i>
.x = .1			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY V			
MATERIAL <i>++</i>		NEXT HIGHER ASSY. <i>g. la</i>	
FINISH <i>++</i>		B-DD-KDII-B	
SCALE <i>++</i>		SIZE CODE	NUMBER
SHEET <i>11</i> OF <i>11</i>		D CS M7261-0-1	REV. R

A



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REV R
NUMBER M7261-0-1
SIZE CODE DCS



	31	30	29	28	27
AL	L	L	L	L	H
AA	L	L	L	L	L
AB	L	L	L	L	L
AB 0	L	L	L	L	L
A OR B	L	L	L	L	L
BL	L	L	L	L	L
A PLUS B	L	L	L	L	L
A XOR B	L	L	L	L	L
A-B-1	L	L	L	L	L
B	L	L	L	L	L
-1	L	L	L	L	L
A-1	L	L	L	L	L
A	L	L	L	L	L
ASL	L	L	L	L	L
ROL	L	L	L	L	L
ASR	L	L	L	L	L
ROR	L	L	L	L	L

26	CRI
OFF	L
ON	H

23	PSW
HOLD	H
LOAD	L

14	BTP
BREG	H
SEX	L
+1	L

10	ABT
NO	H
YES	L

05	04	BRG
LOAD	H	H
SLEFT	L	L
SRIGHT	H	H
HOLD	L	L

	03	02	01	00
BUT	H	H	H	H
NON	L	L	L	L
JMP/JSR	L	L	L	L
IR DECODE	L	L	L	L
BYTE	L	L	L	L
CONST	L	L	L	L
DEST	L	L	L	L
MOV	L	L	L	L
INTR	L	L	L	L
INIT	L	L	L	L
UNARY	L	L	L	L
SWITCHES	L	L	L	L
NON MOD	L	L	L	L
SERVICE	L	L	L	L
SSYNC	L	L	L	L
ENOVFLO	L	L	L	L
IR CLK	L	L	L	L

25	FSH
OFF	H
ON	L

20	DIP
OFF	H
ON	L

16	BBT
BRG	H
SEX	L
+1	L

13	SPF
READ	H
WRITE	L

09	08	TNS
NONE	H	H
DATI	L	L
DATO	L	L

24	AUX
OFF	H
ON	L

19	SM0	17	SM1
ROM	H	H	L
IRS	L	L	L
IRD	L	L	L
BA	L	L	L

15	BAR
HOLD	H
LOAD	L

11	CKO
OFF	H
ON	L

07	06	ALG
SP	H	H
NULL	L	L
SPR	L	L
PSW	L	L

FIRST USED ON OPTION/MODEL 11/05		QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		PARTS LIST			
DECIMALS	ANGLES	TITLE			
.XXX = .005	±0° 30'	CONTROL LOGIC & MICROPROGRAM			
.XX = .02		REMOVED BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			
.X = .1		MATERIAL			
FINISH		NEXT HIGHER ASSY			
		B-DD-KD11-B			
		SCALE			
		SHEET 14 OF			
		SIZE CODE DCS			
		NUMBER M7261-0-1			
		REV. R			

OCTAL ADDRESS	DECIMAL ADDRESS	HEXDECBA	REG R0
300	192	11000000	REG R4
301	193	11000001	REG R2
302	194	11000010	REG R6
303	195	11000011	REG R1
304	196	11000100	REG R3
305	197	11000101	REG R7
306	198	11000110	REG R10
307	199	11000111	REG R14
310	200	11001000	REG R12
311	201	11001001	REG R16
312	202	11001010	REG R11
313	203	11001011	REG R15
314	204	11001100	REG R17
315	205	11001101	
316	206	11001110	
317	207	11001111	
320	208	11010000	
321	209	11010001	
322	210	11010010	
323	211	11010011	
324	212	11010100	
325	213	11010101	
326	214	11010110	
327	215	11010111	
330	216	11011000	
331	217	11011001	
332	218	11011010	
333	219	11011011	
334	220	11011100	
335	221	11011101	
336	222	11011110	
337	223	11011111	

/(#Y4 (PIN # 9) Y4
/(#Y3 (PIN #10) Y3
/(#Y2 (PIN #11) Y2
/(#Y1 (PIN #12) Y1

DATA
REG R0
REG R4
REG R2
REG R6
REG R1
REG R3
REG R7
REG R10
REG R14
REG R12
REG R16
REG R11
REG R15
REG R17

~~13~~
13

340	224	11100000	0000		
341	225	11100001	0000		000
342	226	11100010	0000		000
343	227	11100011	0000		000
344	228	11100100	0000		000
345	229	11100101	0000		000
346	230	11100110	0000		000
347	231	11100111	0000		000
350	232	11101000	0000		000
351	233	11101001	0000		000
352	234	11101010	0000		000
353	235	11101011	0000		000
354	236	11101100	0000		000
355	237	11101101	0000		000
356	238	11101110	0000		000
357	239	11101111	0000		000
360	240	11110000	0000		000
361	241	11110001	0000		000
362	242	11110010	0000		000
363	243	11110011	0000		000
364	244	11110100	0000		000
365	245	11110101	0000		000
366	246	11110110	0000		000
367	247	11110111	0000		000
370	248	11111000	0000		000
371	249	11111001	0000		000
372	250	11111010	0000		000
373	251	11111011	0010		002
374	252	11111100	0000		000
375	253	11111101	0000		000
376	254	11111110	0000		000
377	255	11111111	0010		002

		*****/(A(PIN #05) IS	CONA BA 02 (1)H		
		*****/(B(PIN #06) IS	CONA BA 01 (1)H		
		*****/(C(PIN #07) IS	CONA BA 00 (1)H		
		*****/(D(PIN #04) IS	CONA BA 03 (1)H		
		*****/(E(PIN #03) IS	CONA BA 04 (1)H		
		*****/(F(PIN #02) IS	CONA BA 05 (1)H		
		*****/(G(PIN #01) IS	CONA BA 07 (1)H		
		*****/(H(PIN #15) IS	CONA BA 06 (1)H		

~~13~~
13
C.N.

OCTAL ADDRESS	HEXPCDRA	OCTAL DATA
100	01000000	1100
101	01000001	1100
102	01000010	1100
103	01000011	1100
104	01000100	1100
105	01000101	1100
106	01000110	1100
107	01000111	1100
110	01001000	1100
111	01001001	1100
112	01001010	1100
113	01001011	1100
114	01001100	1100
115	01001101	1100
116	01001110	1100
117	01001111	1100
120	01010000	1100
121	01010001	1100
122	01010010	1100
123	01010011	1100
124	01010100	1100
125	01010101	1100
126	01010110	1100
127	01010111	1100
130	01011000	1100
131	01011001	1100
132	01011010	1100
133	01011011	1100
134	01011100	1100
135	01011101	1100
136	01011110	1100
137	01011111	1100

/(B Y4 (PIN # 9) CONF MPC 04 L
/(B Y8 (PIN #10) CONF MPC 01 L
/(B Y2 (PIN #11) CONF MPC 02 L
/(B Y1 (PIN #12) CONF MPC 00 L

83-06-22
15

140	01100000	1100	014
141	01100001	1100	014
142	01100010	1100	014
143	01100011	1100	014
144	01100100	1100	014
145	01100101	1100	014
146	01100110	1100	014
147	01100111	1100	014
150	01101000	1100	014
151	01101001	1100	014
152	01101010	1100	014
153	01101011	1100	014
154	01101100	1100	014
155	01101101	1100	014
156	01101110	1100	014
157	01101111	1100	014
160	01110000	1100	014
161	01110001	1100	014
162	01110010	1100	014
163	01110011	1100	014
164	01110100	1100	014
165	01110101	1100	014
166	01110110	1100	014
167	01110111	1100	014
170	01111000	1100	014
171	01111001	1100	014
172	01111010	1100	014
173	01111011	1100	014
174	01111100	1100	014
175	01111101	1100	014
176	01111110	1100	014
177	01111111	1100	014

/(A (PIN #09) IS CONB STACKFLOW (1)L
/(B (PIN #06) IS CONB PDWN SYNC (1)L
/(C (PIN #07) IS CONB LCLK INT (1)L
/(D (PIN #04) IS CONE STOP (1)L
/(E (PIN #03) IS DPH RCD INT (1)L
/(F (PIN #02) IS DPH XHIT INT (1)L
/(G (PIN #01) IS DPG WAIT L
/(H (PIN #15) IS DPE T DEL (1)L

84-06-22
15 CONT

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

--	--	--	--	--	--

SEQUENCE

SEQUENCE

- ┌ MODULE UTILIZATION
- BLOCK DIAGRAM
- TIMING DIAGRAM
- * MEMORY DRIVERS
- * CONTROL & DATA LOOPS
- STACK SCHEMATIC
- STACK SCHEMATIC
- BLOCK DIAGRAM
- 4K MEMORY
- 8K MEMORY

D_MU_MM11_L_1
D_BD_MM11_L_2
D_TD_MM11_L_3
E_SC_G231_0_1
E_CS_G110_0_1
E_CS_H213_0_1
E_CS_H214_0_1
D-BD-MMI I-S-2
A-PL-MMI I-K-O
A-PL-MMI I-L-O

MFG. PRINT SET
MFG. TEST PRO. FOR MMII/K,L,M,S&SP
ASP-MMII-L-5

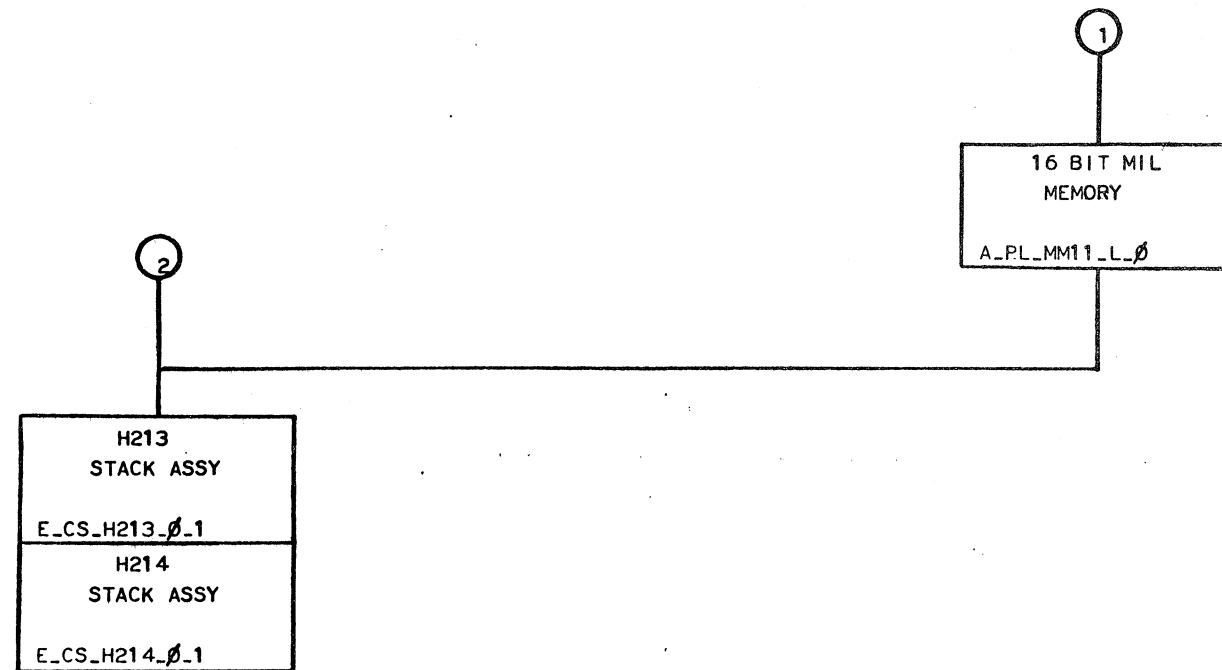
UNIT VARIATIONS

PRINT SET TYPE

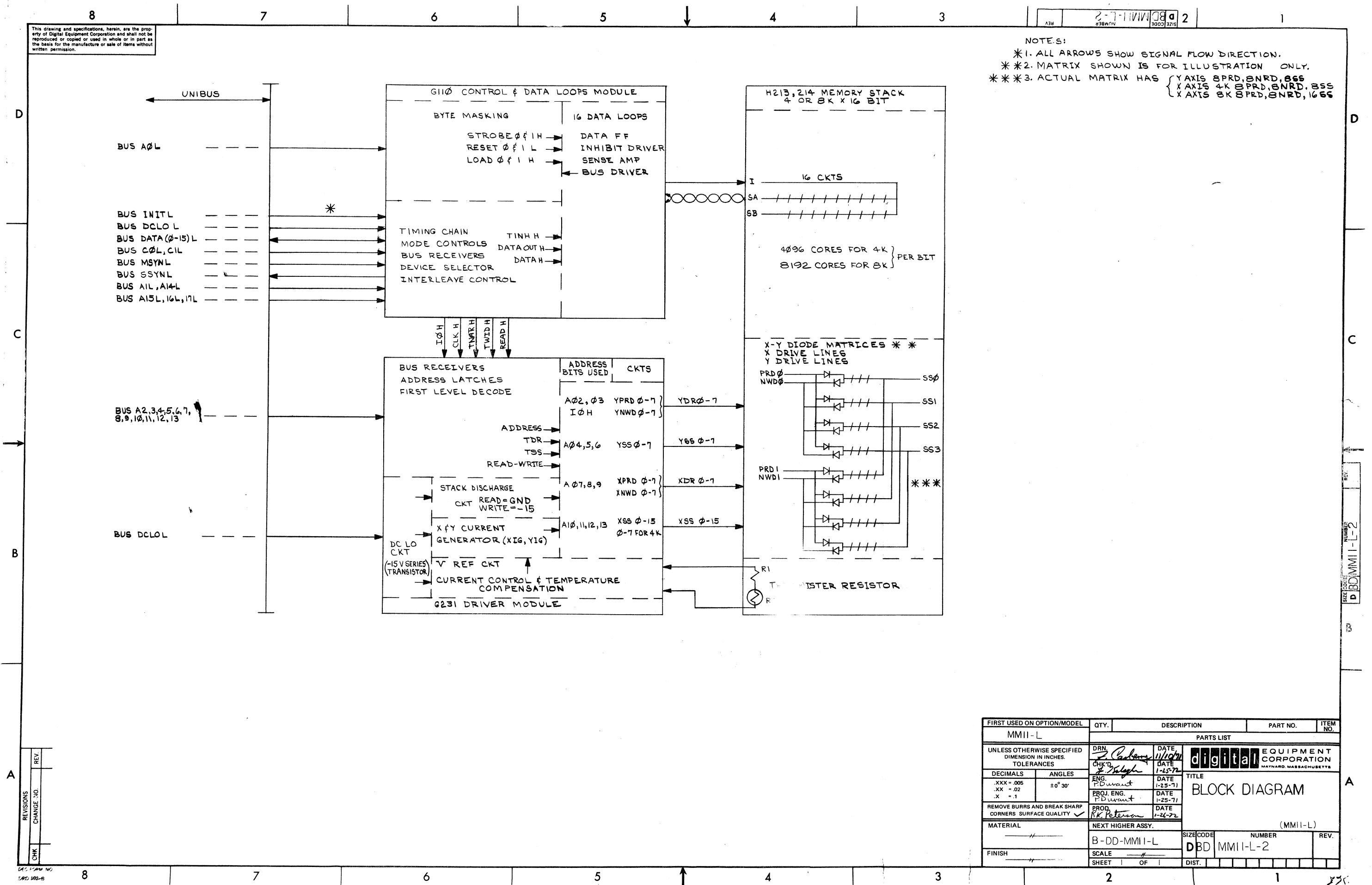
[illegible]

* SPECIAL REVISION PRINTS ARE AVAILABLE ON "C" ETCH REV. MODULES.
CARE SHOULD BE TAKEN TO INSURE THAT PROPER PRINTS ARE ORDERED.

REVISIONS													USED ON OPTION/MODEL		DRN.	DATE	TITLE						
DATE	CHG. NO.	REV											MM11_K		CHK'D	DATE	16 BIT 18 MIL MEMORY						
9-72	MM11L-00001	A											MM11_L		PROJ ENG.	DATE							
11-72	MM11L-00002	B													PROD. 1	DATE	SIZE	CODE	NUMBER				REV
1-73	MISC-00107	C													FIELD SERV.	DATE	B	DD	MM11-L				H
2-73	MISC-00111	D																					
2-73	MISC-00112	E																					
2-73	MISC-00113	F																					
1-74	MM11L- 3	H																					
															SHEET 1 OF 3	DIST							



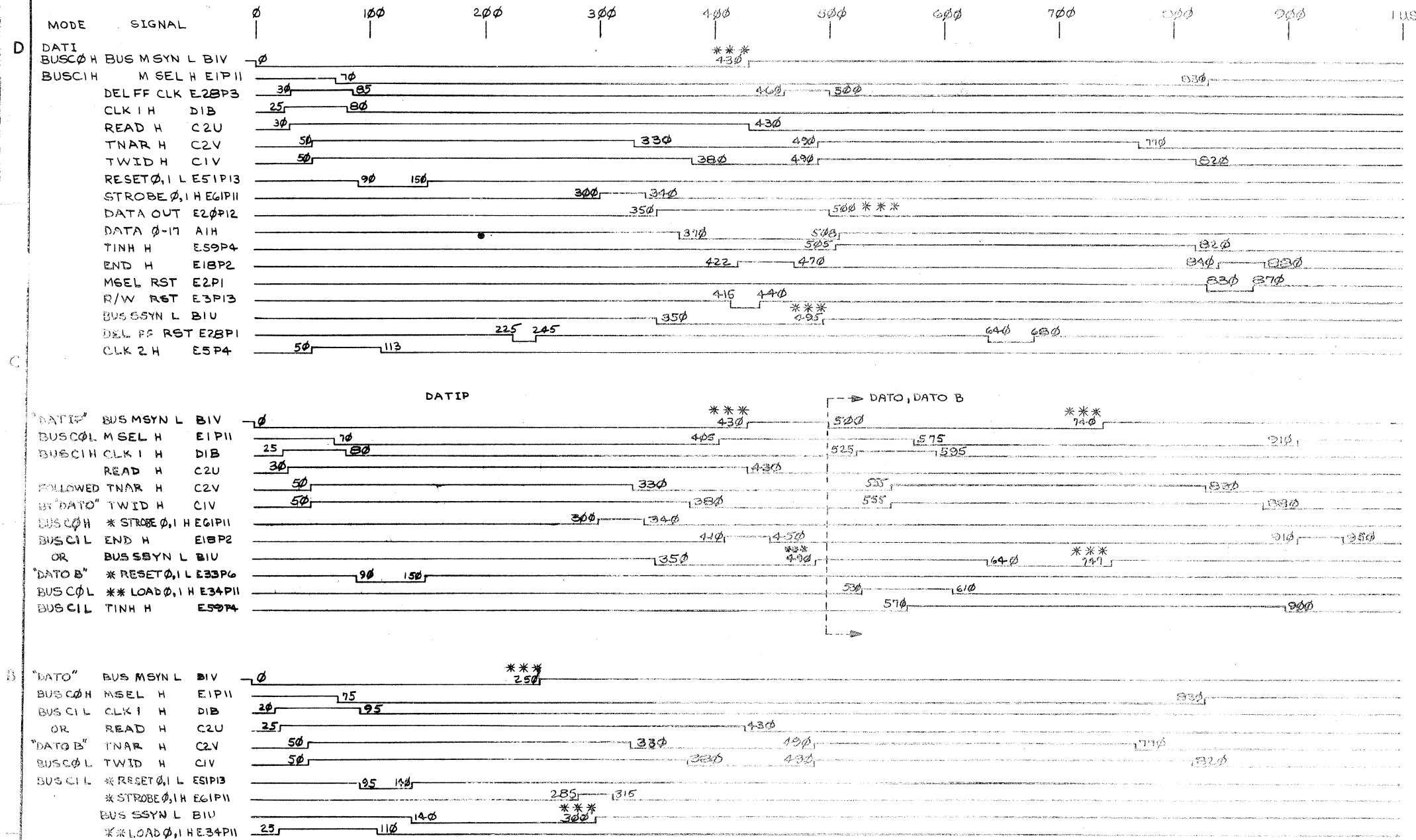
TITLE	SHEET 2 OF 3	SIZE	CODE	NUMBER	REV
16 BIT 18 MIL MEMORY		B	DD	NM11_L	H



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2-7-11W/210 2

- NOTES:
1. ANY SIGNALS NOT SHOWN ON DATIP, DATO OR DATO B ARE AS SHOWN ON DATI TIMING.
 - * 2. RESET L AND STROBE H DO NOT OCCUR IN DATO MODE. THEY ONLY OCCUR FOR THE BYTE NOT BEING ADDRESSSED IN DATO B MODE.
 - ** 3. LOAD H OCCURS FOR BOTH BITS IN DATO MODE AND ONLY FOR THE ADDRESSSED BYTE IN THE DATO B MODE.
 - *** 4. ACTUAL TIME DEPENDS ON BUS AND PROCESSOR DELAYS.
 5. ALL SIGNALS ON 6109 OR 6110 MODULE

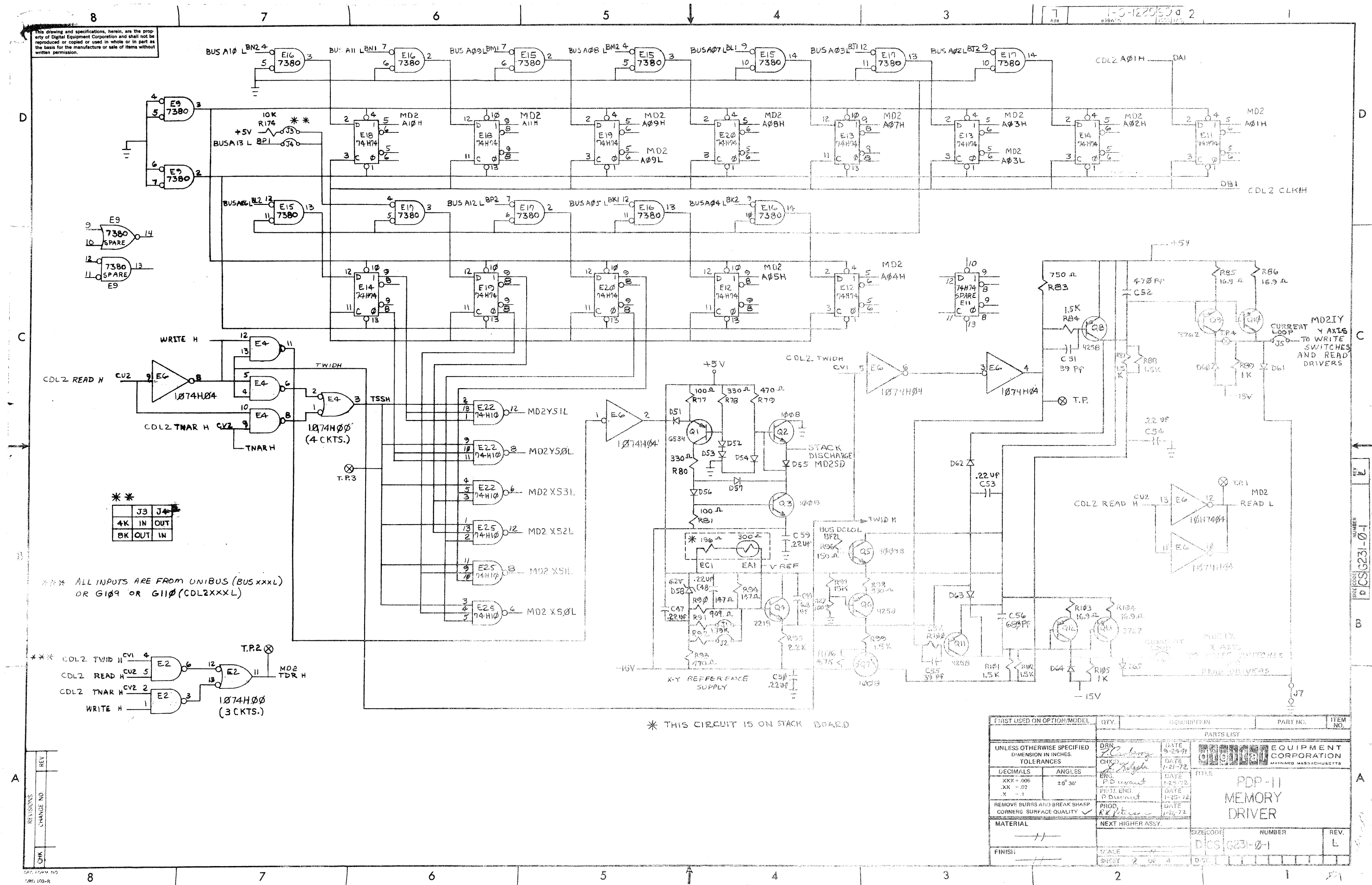


FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MMII-L				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE	EQUIPMENT CORPORATION	
.XXX = .006	±0° 30'	12/2/71	RAYMOND BARBACHUSZ	
.XX = .02		1-27-72		
.X = .1		1-25-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
PROD. DATE 1-27-72				
NEXT HIGHER ASSY.				
B-DD-MMII-L				
SCALE				
SHEET 1 OF 1				
DISC				
TITLE				
TIMING DIAGRAM				
(MMII-L, MMII-K)				
SIZE CODE				
NUMBER				
REV.				
DITD MMII-L-3				

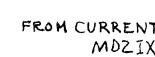
REVISIONS

REV	NO	DATE	DESCRIPTION
1	1	12/2/71	1-27-72

DEC FORM NO. 102-B



FROM CURRENT LOOP
MOZIX

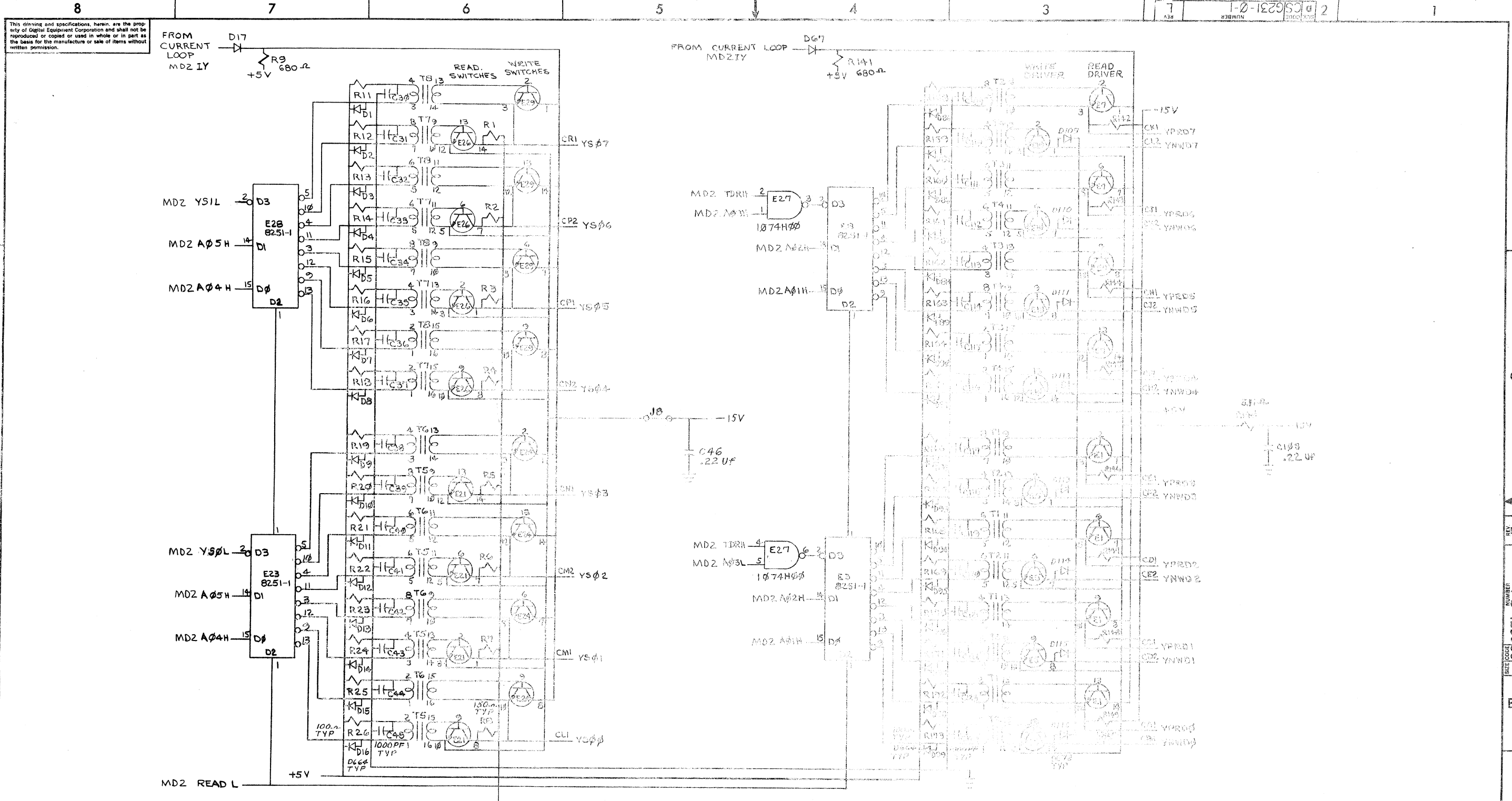


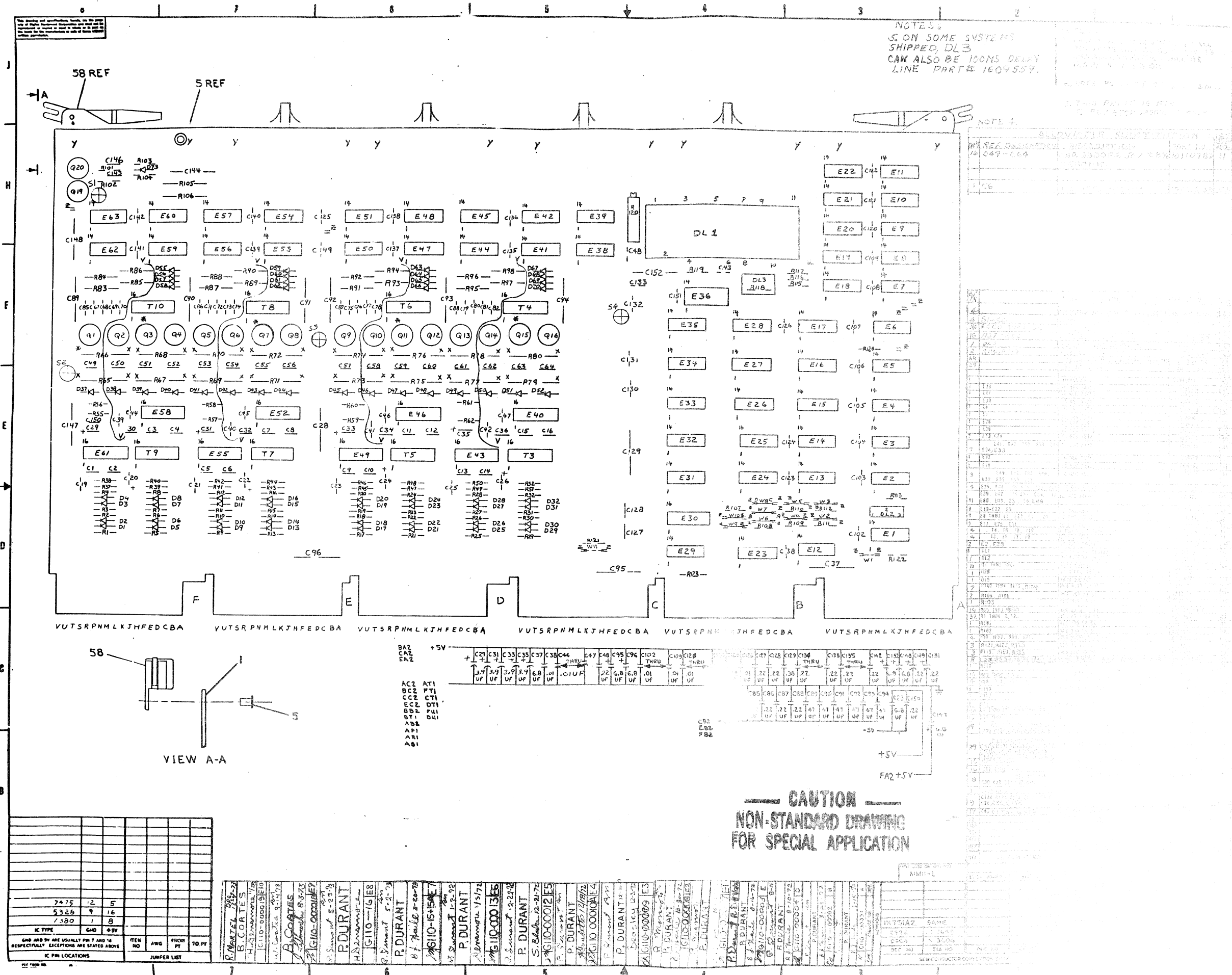
MD2 READ L.

FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DATE	PARTS LIST		
		DATE	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
DECIMALS	ANGLES	CHK'D	DATE	TITLE PDP-11 MEMORY DRIVER	
XXX + .015 XX + .02 X + .1	±0° 30'	ENG	DATE		
		DRW'G	DATE		
		PROJ. ENG.	DATE		
		PROD.	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROJ. ENG.	DATE		
MATERIAL		CHK'D	DATE		
		NEXT HIGHER ASSY.			
FINISH		SCALE	SHEET	SIZE CODE	NUMBER
		OF 4		DCS	G231-0-1
				DIST.	

DEC FORM N
-DRD 102-B

SIZE	CODE	NUMBER
D	CC	C231-01

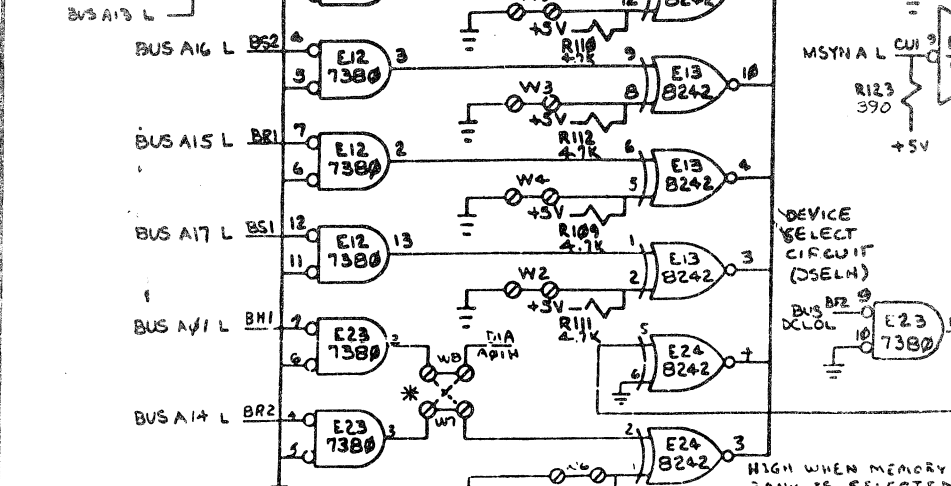




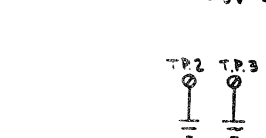
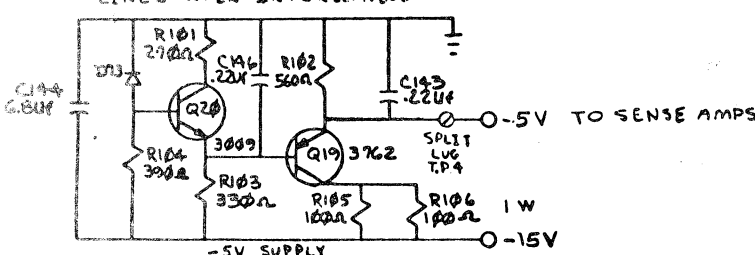
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W3	WIP
4K	IN OUT
8K	OUT IN

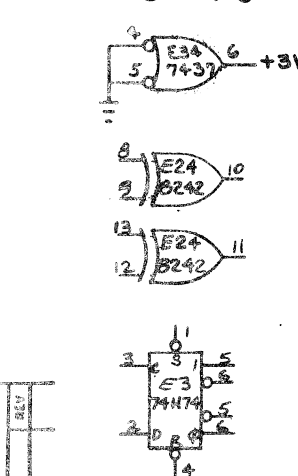
MEMORY BANK SIZE



* USE INSULATED JUMPERS IN POSITIONS SHOWN BY DOTTED LINES WHEN INTERLEAVING



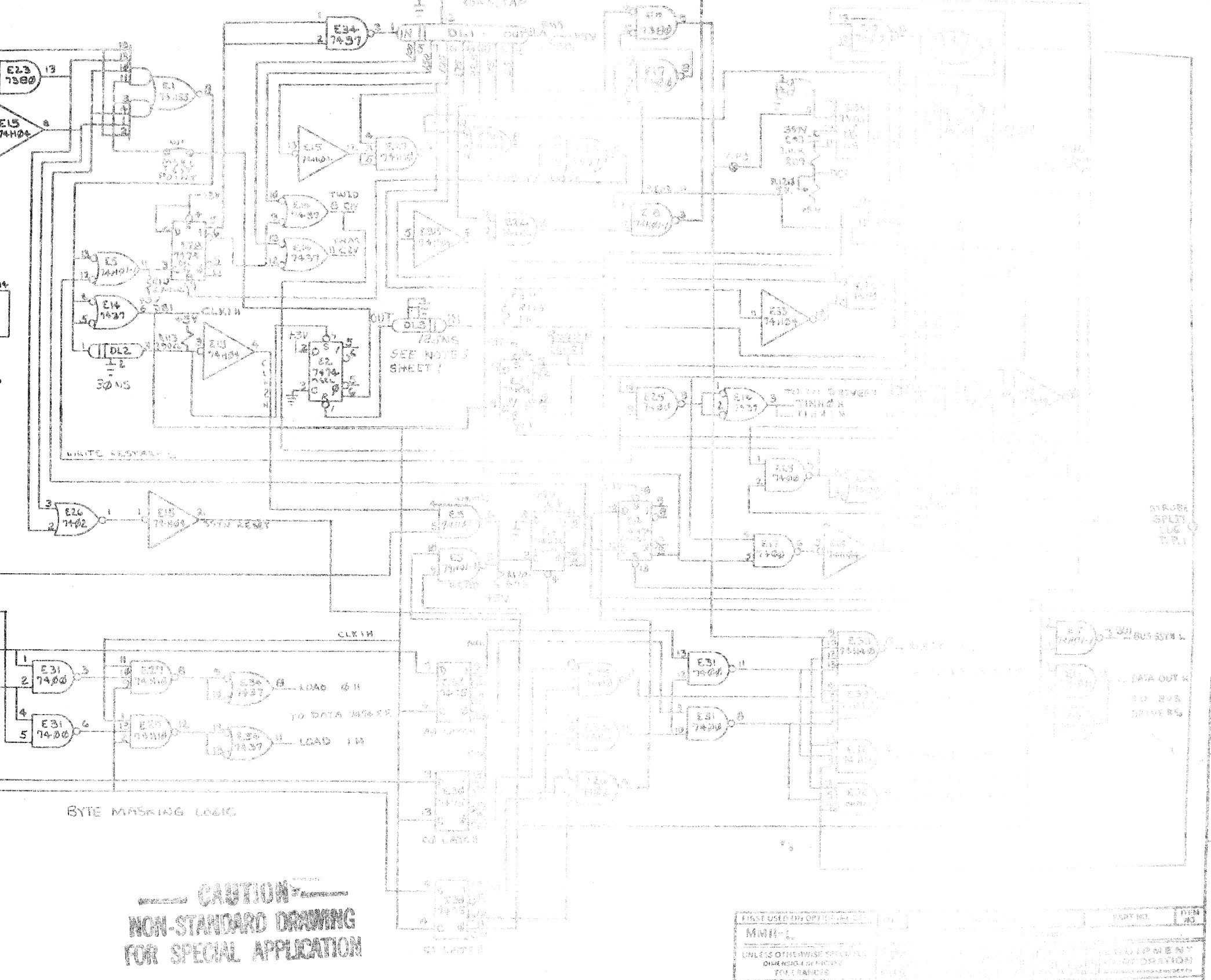
SPARES



REV. 10/68

W'S 2,3,4,5,6 PROGRAM
MEMORY BANK LOCATION. CUT
JUMPER FOR BUS A LINE LOW
(ABSENT) WHEN BANK SE-
LECTED. W5 MUST BE IN WHEN
USED AS 8K BANK

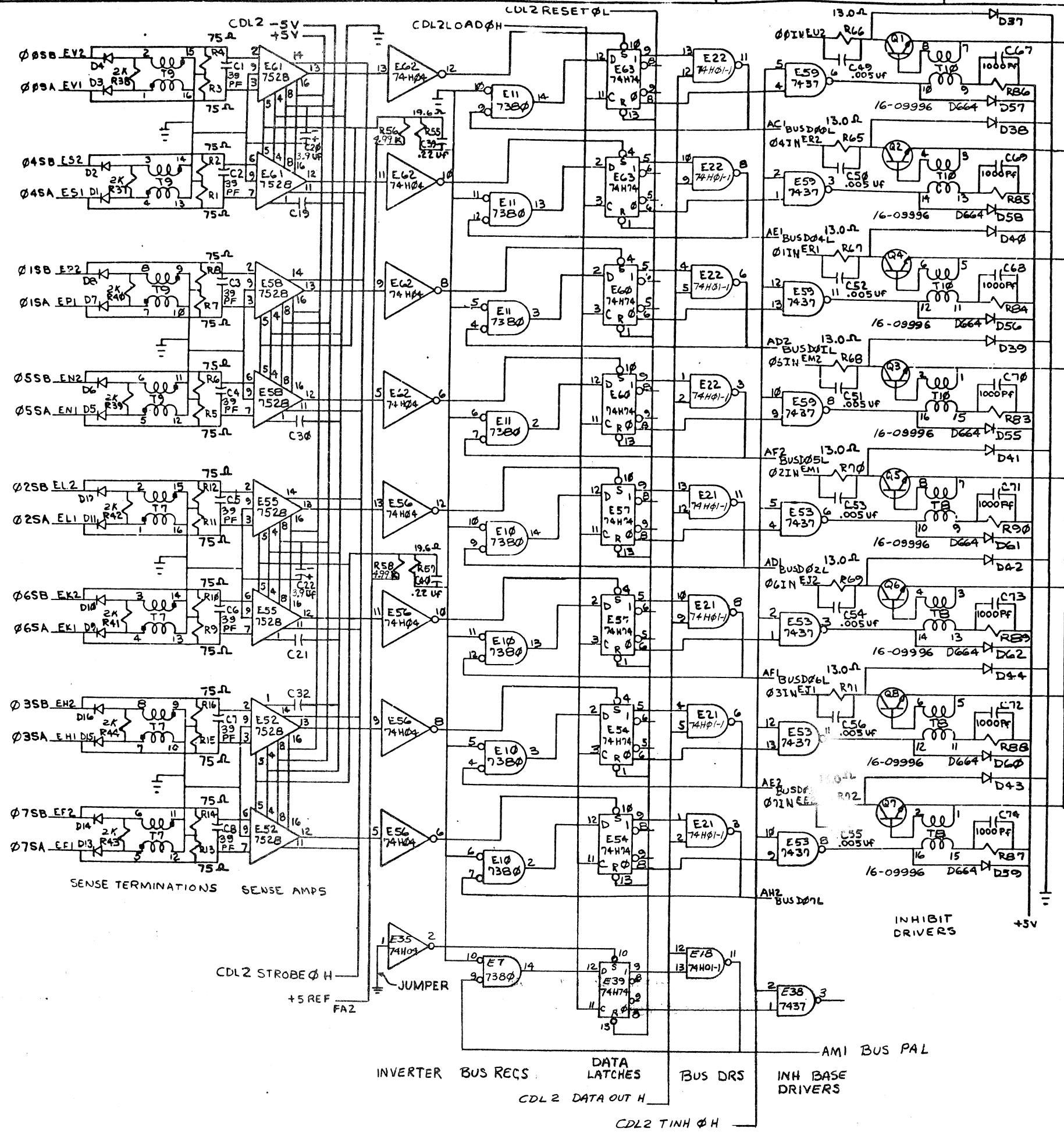
+5V
R122 1K
BUS MSYN L E23 7380
MSYN A L CUI 9 E15 7404
R123 390
+5V
DEVICE SELECT CIRCUIT (DSELH)
BUS B2 9 E23 7380
BUS DCL 10
HIGH WHEN MEMORY BANK IS SELECTED



CAUTION
NON-STANDARD DRAWING
FOR SPECIAL APPLICATION

FIRST USED ON OPTICAL RECORD		PART NO.		ITEM NO.	
MMH-1					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES					
DECIMALS	ANGLES				
XX ± .005	10° ± .5				
XX ± .01	10° ± .5				
REMOVE BURRS AND DATA FROM CORNERS SURFACE QUALITY					
MATERIAL					
FINISH					
CONTROL DATA LOOPS (CDL 2)					
BOSG10-0-1					

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- NOTES:**
1. ALL SIGNALS FROM UNIBUS (BUS D07L TO BUS D07L), SHEET 2 (CDL2) OR STACK (Q05A,B TO Q75A,B AND Q0IN TO Q7IN)
 2. UNLESS SPECIFIED:
ALL RESISTORS ARE 82Ω 1/2 W 5%
ALL CAPACITORS ARE 120 PF 100V 5%
ALL TRANSFORMERS ARE 16-09478-01
ALL DIODES ARE D672
ALL TRANSISTORS ARE DEC-3734
 3. ECO#2 DID THE FOLLOWING:
C1-C8 CHANGED FROM 68 PF TO 39 PF
R37-R44 CHANGED FROM 330Ω TO 2 K
C49-C56 CHANGED FROM .002μF TO .005μF
 4. ECO#8 DID THE FOLLOWING:
R56, R58 CHANGED FROM 5.62K TO 4.99K
C20, C22 CHANGED FROM .22μF TO 3.9μF
 5. ECO#13 ADD JUMPER E35P1 TO GND.

CAUTION
NON-STANDARD DRAWING
FOR SPECIAL APPLICATION

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MMII-L				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DATE 11/18/72	EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE 1/15/72	TITLE	
.XXX - .005	±0° 30'	DATE 1/15/72	CONTROL & DATA LOOPS (CDL3)	
.XX - .02		DATE 1/15/72	NUMBER	
.X - .1		DATE 1/15/72	HFW	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 1/15/72	SIZE CODE	
MATERIAL		DATE 1/15/72	B-DD-MMII-L	
FINISH		DATE 1/15/72	SCALE	
		DATE 1/15/72	SHEET 3 OF 5	
		DATE 1/15/72	DIST	

REVISIONS	CHANGE NO.	DATE
1	1	1/15/72
2	2	1/15/72
3	3	1/15/72
4	4	1/15/72
5	5	1/15/72
6	6	1/15/72
7	7	1/15/72
8	8	1/15/72



- 1 ALL SIGNALS FROM UNIBUS (BUS 008L-D15L)
G110 SHEET 2 (CDL2) OR STACK (005A,B TO
155A,B AND 081N TO 151N)
2. UNLESS SPECIFIED :
ALL RESISTORS ARE 020 1/2 W 5%
ALL DIODES ARE D672
ALL CAPACITORS ARE 120 PF 100V 5%
ALL TRANSFORMERS ARE 16-09478-01
ALL TRANSISTORS ARE DEC-3734
3. ECO #2 DID THE FOLLOWING :
C9-C16 CHANGED FROM 60 PF TO 39 PF.
R45-R52 CHANGED FROM 330Ω TO 2K
C57-C64 CHANGED FROM .0022 μf TO .005 μf
4. ECO #8 DID THE FOLLOWING ;
R60, R61 CHANGED FROM 5.62K TO 4.99K
C24, C26 CHANGED FROM .22 μf TO 3.9 μf
5. ECO #13 ADD JUMPER E35P13 TO GND.

CAUTION
NON-STANDARD DRAWING
FOR SPECIAL APPLICATION

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION		PART NO.	ITER NO.
MMII-L						
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DIM 1.00 ± 0.010 CIR 0.005 ± 0.001	DATE 11-72 DATE 11-72	EQUIPMENT CORPORATION MATERIAL HANDLING		
DECIMALS XXX = .06 XX = .02 X = .01	ANGLES 16° 30'	ENG L [PROJ. ENG.]	DATE 11-72 DATE 11-72	TITLE CONTROL & DATA LOOPS (CDL 4)		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROD. B. DO	DATE 11-72			
MATERIAL //	NEXT INSIDER ASSY.		SIZE CODE DCS		NUMBER G110-0-1	REV E12
FINISH //	SCALE SHEET 4 OF 5		DIST			

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E.C.O. MODULE REFERENCE

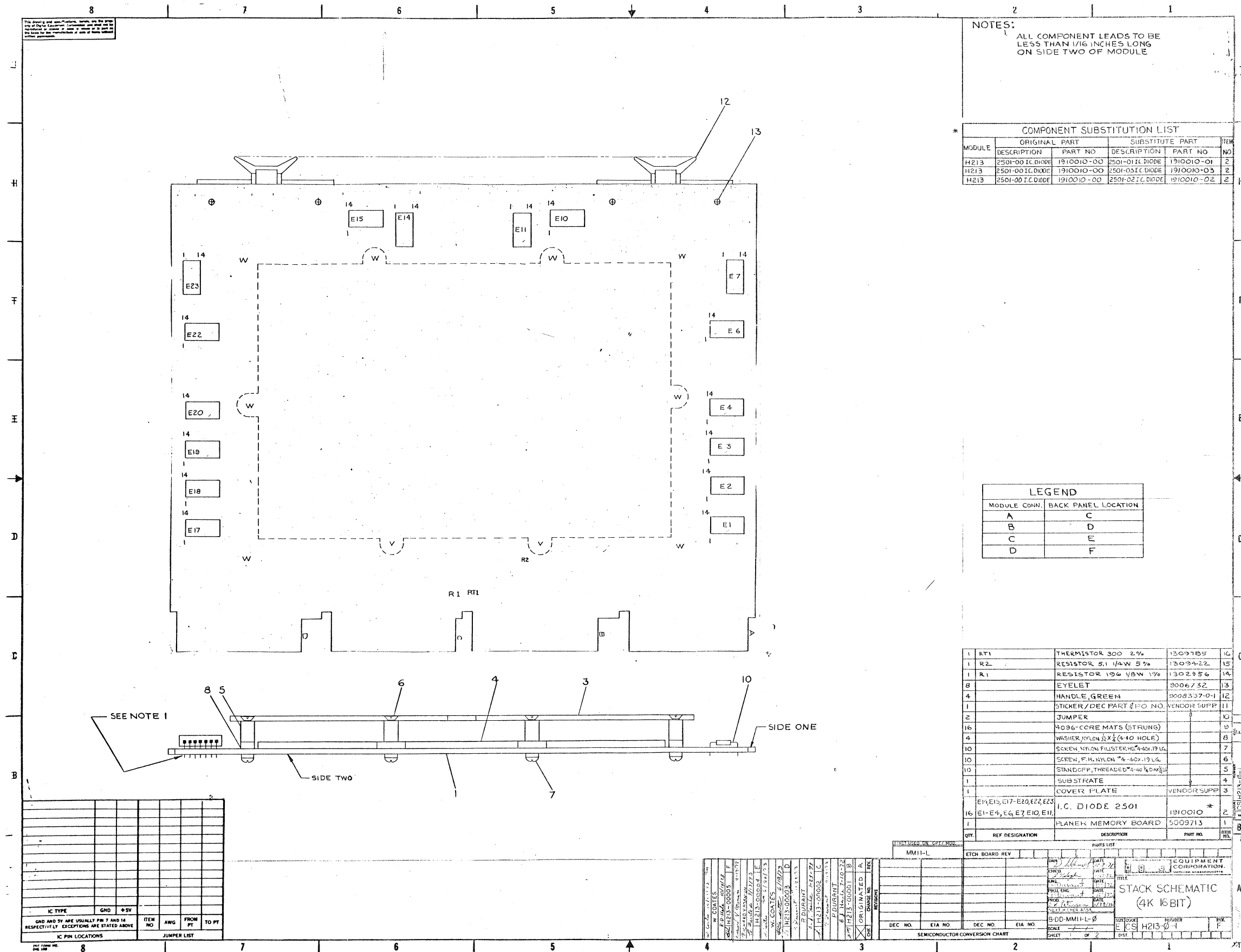
ECO NUMBER	SUMMARY OF E.C.O.	PRINT CHANGE LOCATION	MODULE STAMPED REVISION	CIRCUIT SCHEM REVISION	E.C.O. REQUIREMENTS																		
					1	2	3	3A	4	5	6	7	8	9	9A	10	10A	11	12	13	14	15	15A
1	CHANGE R118, R118 FROM 1K TO 220Ω. CUT ETCH FROM E2-P3 TO E5-P4. ADD JUMPERS FROM E2-P3 TO GND, FROM E5-P4 TO E15-P4. CUT ETCH FROM E2-P4 TO E2-P2. ADD JUMPER FROM E2-P4 TO DL2-P3. CUT ETCH FROM E26-P8 TO DL1-P9. ADD JUMPER FROM E26-P8 TO DL1-P9.		A	A	□																		
2	CHANGE SENSE TERM. CAPS FROM 68 PF TO 39 PF. C1-C6 (16 PARTS). CHANGE BALUN RES., R37-R52, FROM 330Ω TO 2K (16 PARTS). CHANGE INH. BY PASS CAPS., C47-C64, FROM .0022 UF TO .005 UF (16 PARTS). CHANGE DL3 FROM 50NS TO 100NS. DELAY LINE. CHANGE TERM. RES R115 FOR DL3 FROM 390Ω TO 2K.	SHT 3&4 AREA 2-C SHT 2 AREA 4-C SHT 2 AREA 4-C	B	B	□	□																	
3	DID NOT AFFECT C REV ETCH MODULES		-	-	*	*	*																
3A	DID NOT AFFECT C REV ETCH MODULES		-	-	*	*	*	*															
4	DL3 NOT TERMINATED PROPERLY. CHANGE R115 FROM 3K TO 1K. CUT ETCH FROM DL3 OUT TO E16-P8. CUT ETCH FROM DL3 IN TO E2-P1. ADD JUMPER FROM DL3 IN TO E16-P8. ADD JUMPER FROM DL3 OUT TO E2-P1. GLUE DOWN DL2 WITH ECCO BOND	SHEET 2 AREA 4-C SHT 1 AREA 3-D	D	D	□	□	*	*	□														
5	REVERSE C152 SO THAT + SIDE OF CAPACITOR GOES TO +SV. INSTALL 4-1/8" OD X 3/8 LG STAND-OFFS	SHT 1 AREA 4-E	E	E	□	□	*	*	□	□													
6	DID NOT AFFECT C REV ETCH MODULES		-	-	*	*	*	*	*	*	*												
7	DRILL BLANK BOARD, AND INSTALL (4) STAND-OFFS & SCREWS	SHT 1 AREA 2-F	E1	E1	□	□	*	*	□	□	*	□											
8	CHANGE R56, 58, 60, 61 FROM 5.62K TO 4.99K. CHANGE C20, 22, 24, 26, 29, 31, 33, 35 FROM .22 UF TO 3.9 UF. CHANGE C44-47 FROM .22 UF TO .01 UF.	SHT 3&4 AREA 2-C SHT 1 AREA 5-C SHTS 3+4 AREA 2-C SHT 1 AREA 5-C	E2	E2	□	□	*	*	□	□	*	□	□										
9	INSTALL GND JUMPERS ON SIDE 1, CHANGE PART NO. OF #18 WIRE FROM 9107360-00 TO 1700029	SHEET 1	H	E3	□	□	*	*	□	□	*	□	□	□									
9A	RE-Stamp HANDLE E-3, CHANGE PRINT FROM H TO E-3		E3	E3	□	□	*	*	□	□	*	□	□	□									
10	REMOVE E28, CUT ETCH FROM E28-P13 TO E28-P2. ADD E28 AND JUMPER E28-P13 TO E15-P10		J	E4	□	□	*	*	□	□	*	□	□	*	*	□							
10A	RE-Stamp HANDLE E-4, CHANGE PRINT REV FROM J TO E-4		E4	E4	□	□	*	*	□	□	*	□	□	*	*	□	□						
11	CANCELED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	PRINT CHANGE ONLY		E5	E5	□	□	*	*	□	□	*	□	□	*	*	□	*	-	□				
13	ADD 2 JUMPERS SO THAT PAL AND PBL ARE HIGH ON THE BUS		E6	E6	□	□	*	*	□	□	*	□	□	*	*	□	*	-	*	□			
13A	CHANGE EFFECTIVITY DATE				*	*	*	*	*	*	*	*	*	*	*	*	*	-	*	*	*		
14	DID NOT AFFECT C REV ETCH MODULE				*	*	*	*	*	*	*	*	*	*	*	*	*	-	*	*	*		
15	GENERATE AN ALLOWABLE SUBSTITUTION LIST, CHANGE DL3.	SHEET 1 AREA 1-E	E7	E7	□	□	*	*	□	□	*	□	□	*	*	□	*	-	*	□	*	□	
15A	DELETE 68Ω RES FROM ALLOWABLE SUBSTITUTION LIST.	SHEET 1 AREA 1+2-H	E7	E7	□	□	*	*	□	□	*	□	□	*	*	□	*	-	*	□	*	□	
16	3 ETCH CUTS, 2 JUMPERS TO E7 PINS 6&7	SHT AREA 2-C	E8	E8	□	□	*	*	□	□	*	□	□	*	*	□	□	-	□	□	*	*	□
17	DID NOT AFFECT C REV ETCH MODULES				*	*	*	*	*	*	*	*	*	*	*	*	*	-	*	*	*	*	*
18	1 ETCH CUT, REMOVE 1 JUMPER. INSTALL #30 TWP FOR STROBE Φ H		E9	E9	□	□	*	*	□	□	*	□	□	*	*	□	□	-	□	□	*	*	□
19	MOVE E26-8 FROM TAP 9 TO TAP 10 OF DELAY LINE 1.	SHEET 2 AREA D4	E10	E10	□	□	*	*	□	□	*	□	□	*	*	□	□	-	□	□	*	*	□

NOTES:

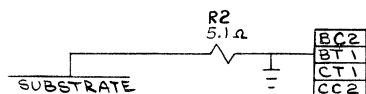
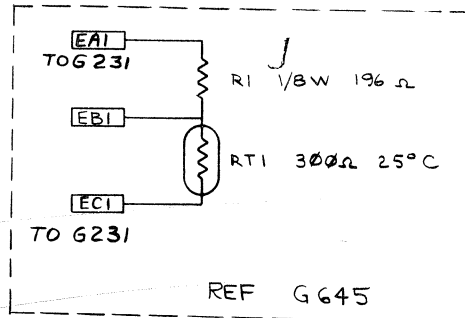
- THIS PRINT IS FOR "C" REV. ETCH MODULES ONLY.
- THIS CHART IS DESIGNED TO ALLOW THIS G110 CIRCUIT SCHEMATIC TO BE USED WITH ALL PREVIOUS REVISION MODULES.
- CHART IS USED AS FOLLOWS:
 - LOCATE REVISION LETTER STAMPED ON HANDLE
 - FOLLOW THE MODULE STAMPED COLUMN TO FIND APPROPRIATE REVISION
 - NOTICE SYMBOLS TO RIGHT OF REVISION LETTER, THESE SYMBOLS WILL INDICATE ECO REQUIREMENTS FOR THAT MODULE.
- SYMBOLS:
 - = REQUIRED BUT REFER TO EFFECTIVITY DATE
 - Δ = ONE OR THE OTHER IS REQUIRED
 - = ONE OR THE OTHER IS REQUIRED BUT (C152 MUST BE CHANGED)
 - * = NOT REQUIRED

CAUTION
NON-STANDARD DRAWING
FOR SPECIAL APPLICATION

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MM11-L				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN. L.G.	DATE 12-22-72	PARTS LIST	
TOLERANCES	CHK'D.	DATE	digital EQUIPMENT CORPORATION	
DECIMALS .xxx = .005	ENG.	DATE	TITLE	
ANGLES .xx = .02	PROJ. ENG.	DATE	CONTROL & DATA LOOPS (CDL5)	
.x = .1	PROD.	DATE	SIZE CODE NUMBER	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY V	NEXT HIGHER ASSY.		REV.	
MATERIAL + +	B-DD-MM11-L		D C S G I 10-0-0	
FINISH + +	SCALE NONE		SHEET 5 OF 5	

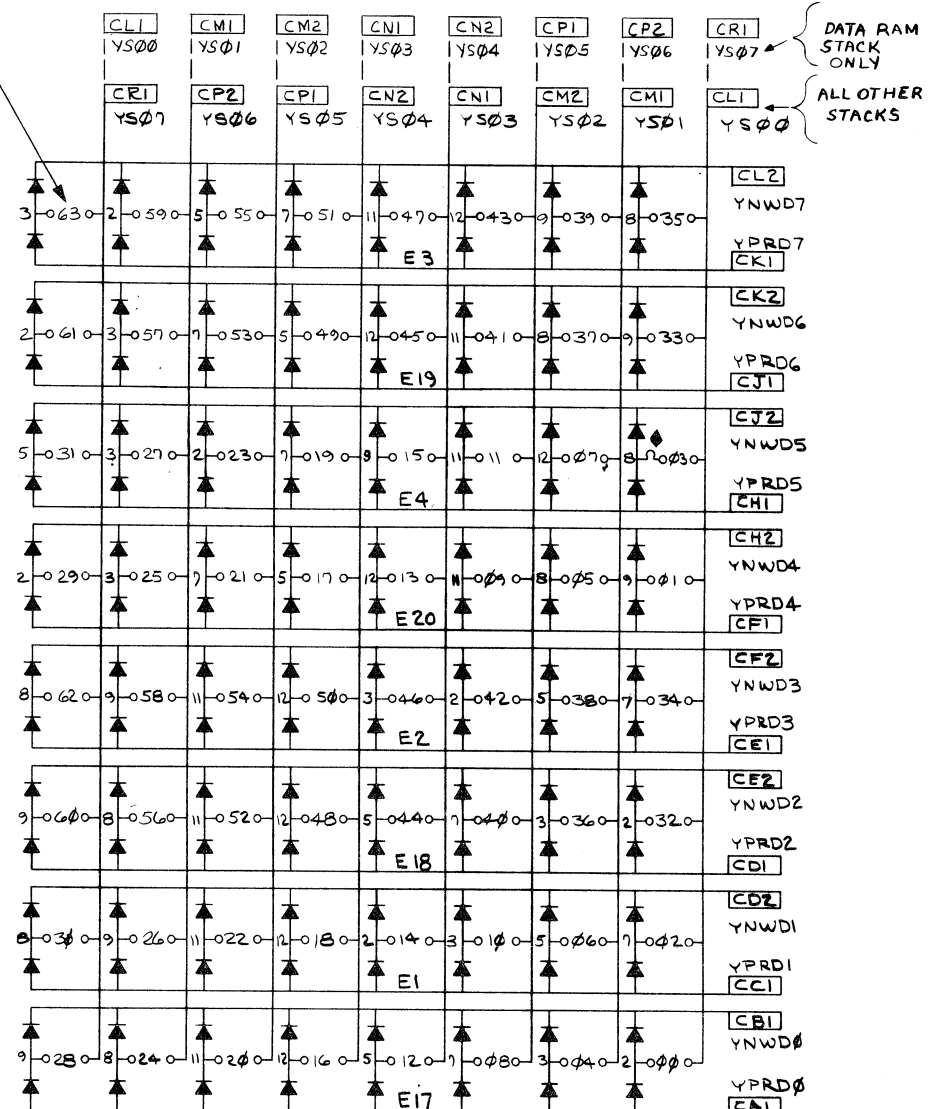
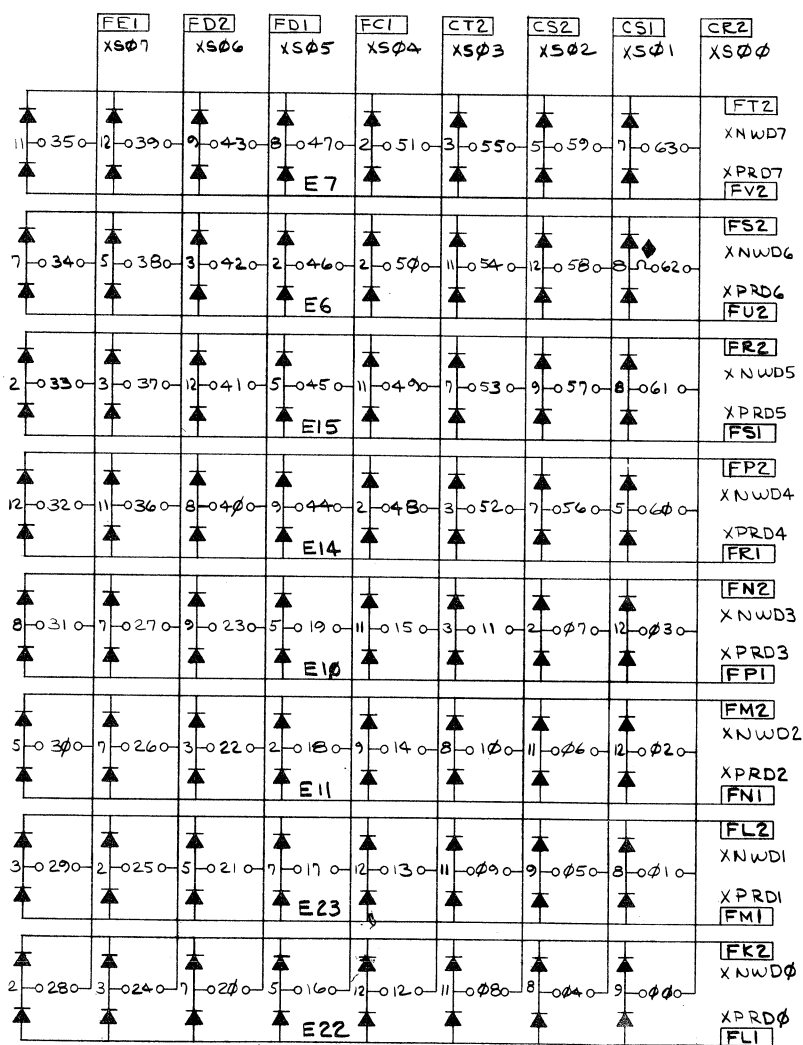


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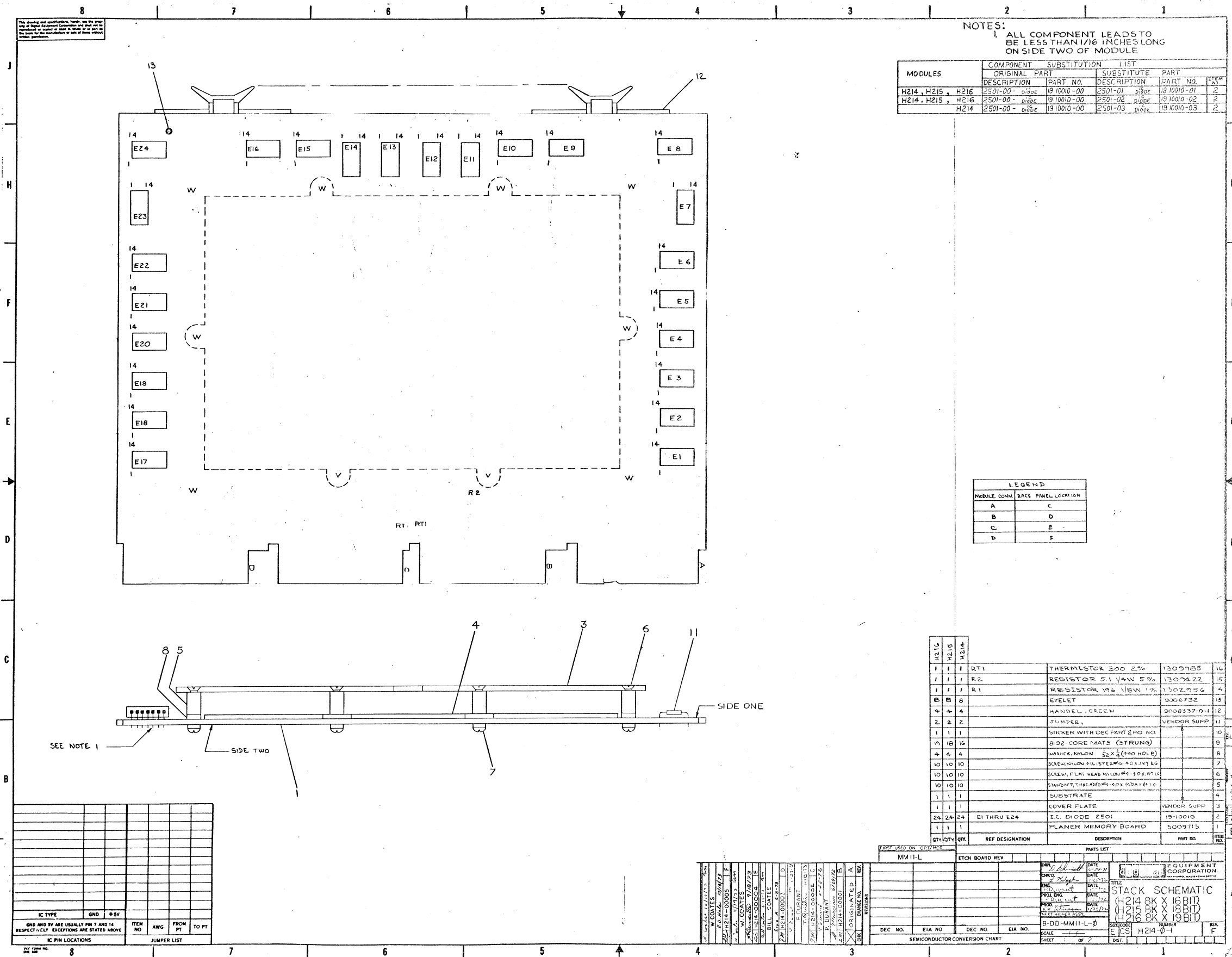


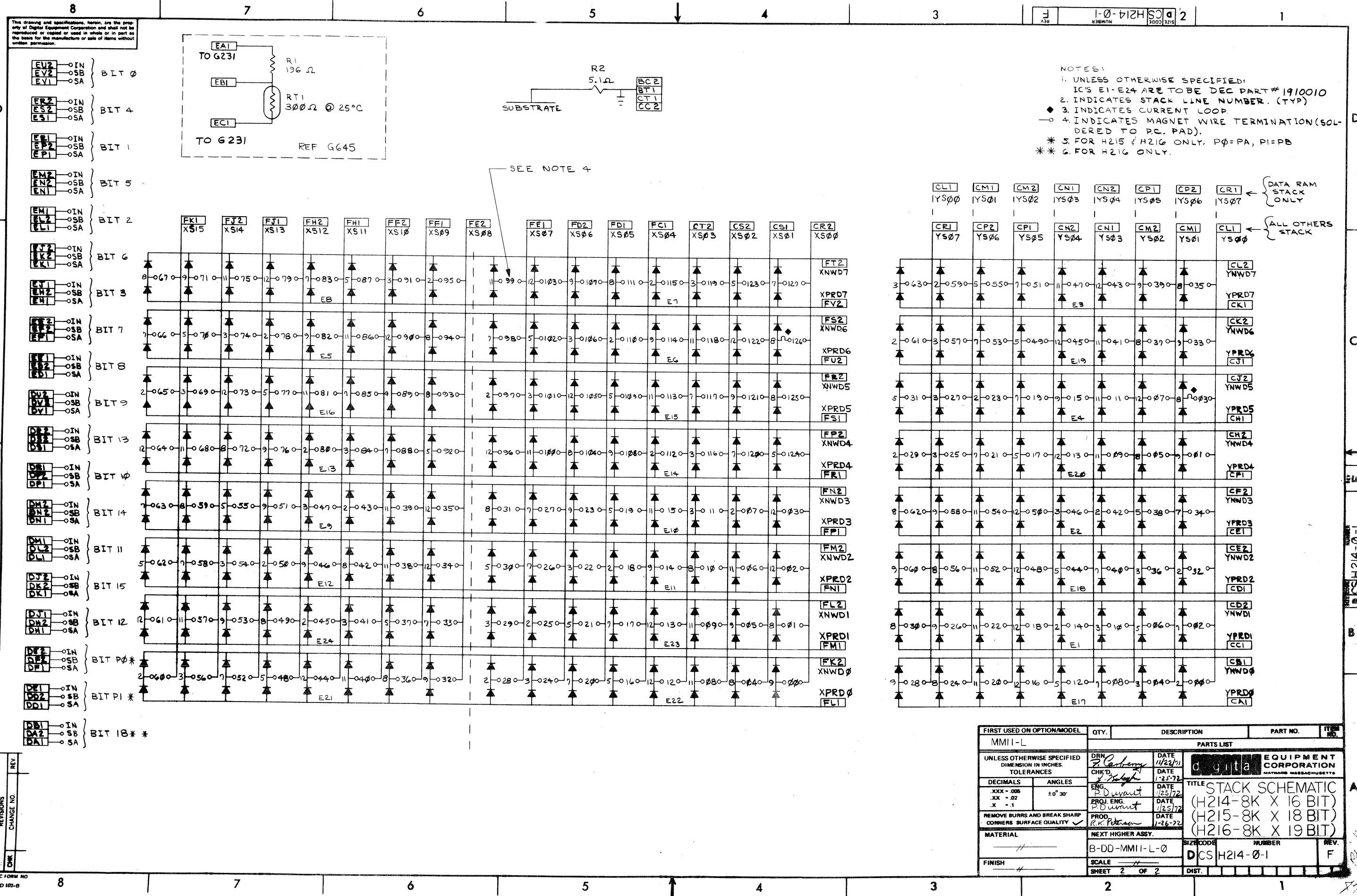
- NOTES
1. UNLESS OTHERWISE SPECIFIED:
IC'S ARE TO BE DEC PART # 1910010
 2. INDICATES STACK LINE NUMBER. (TYP)
 3. INDICATES CURRENT LOOP.
 4. INDICATES MAGNET WIRE TERMINATION (SOLDERED TO P.C. PAD).

- BIT 0
- BIT 4
- BIT 1
- BIT 5
- BIT 2
- BIT 6
- BIT 3
- BIT 7
- BIT 8
- BIT 9
- BIT 13
- BIT 10
- BIT 14
- BIT 11
- BIT 15
- BIT 12

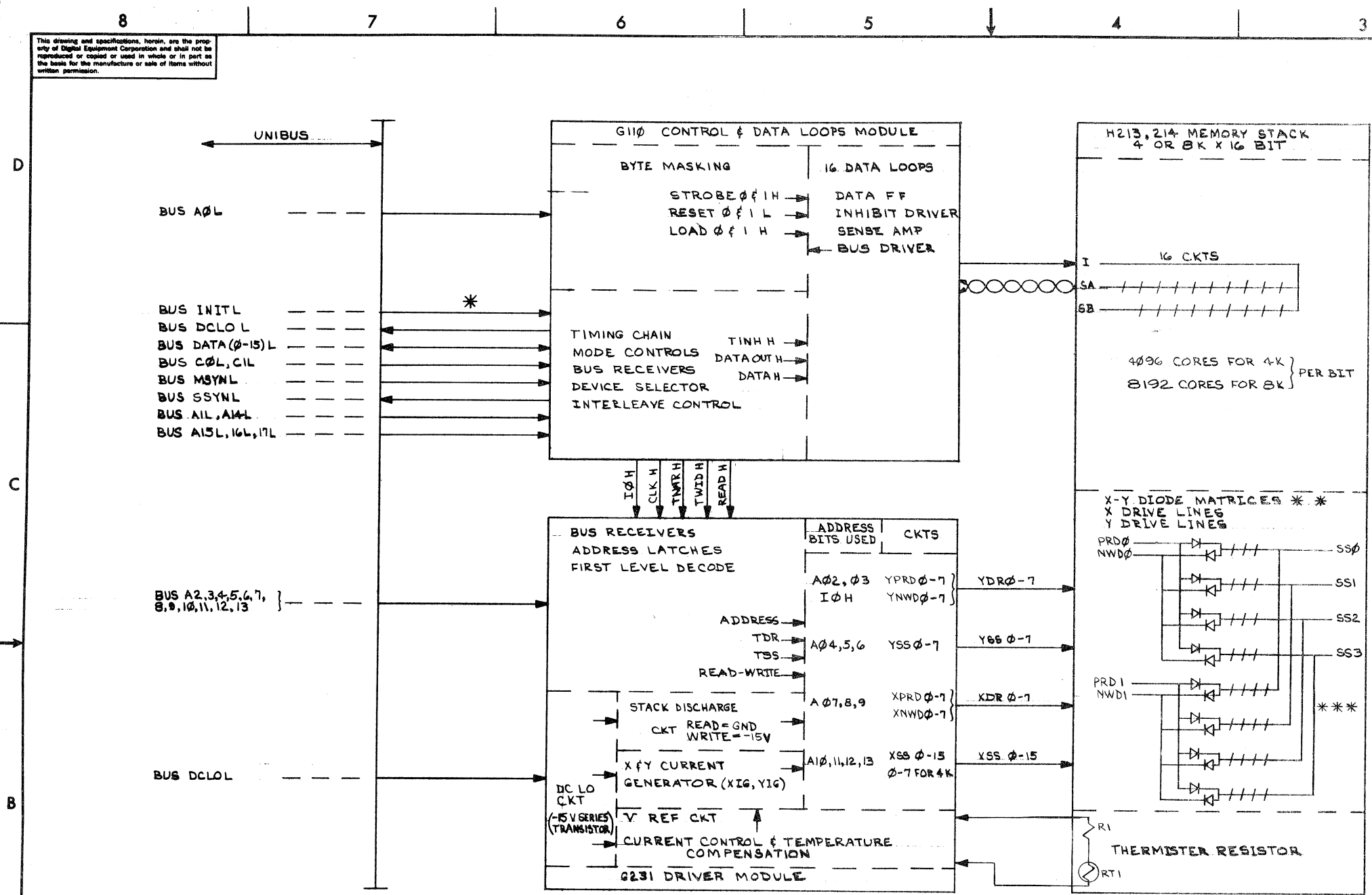


FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
MM11-L					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		PARTS LIST			
DECIMALS	ANGLES	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
XXX - .006	± 0° 30'	TITLE			
.XX - .02		STACK SCHEMATIC			
.X - .1		4K X 16 BIT			
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY		NEXT HIGHER ASSY.			
MATERIAL		B-DD-MM11-L-0			
FINISH		SCALE			
		SHEET 2 OF 2			
		REV. F			





NOTES:
 *1. ALL ARROWS SHOW SIGNAL FLOW DIRECTION.
 **2. MATRIX SHOWN IS FOR ILLUSTRATION ONLY.
 ***3. ACTUAL MATRIX HAS
 { Y AXIS 8PRD,8NRD,8SS
 X AXIS 4K 8PRD,8NRD,8SS
 X AXIS 8K 8PRD,8NRD,16SS



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REV.	CHANGE NO.	CHK

DEC FORM NO. DRD 100-2

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
MMII-S					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN <i>C. Carberry</i>	DATE <i>1/14/72</i>		EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
		CHK'D <i>J. D. Salgan</i>	DATE <i>2-16-72</i>		
DECIMALS	ANGLES	ENG. <i>P. Duvar</i>	DATE <i>3-30-72</i>	TITLE BLOCK DIAGRAM	
.XXX = .006 .XX = .02 .X = .1	±0° 30'	PROJ. ENG. <i>P. Duvar</i>	DATE <i>3-31-72</i>		
		PROD. <i>Rock Forman</i>	DATE <i>6-2-72</i>		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓					
MATERIAL		NEXT HIGHER ASSY.			
FINISH		B-DD-MMII-S		SIZE CODE DDBD	NUMBER MMII-S-2
		SCALE #			
		SHEET 1 OF 2			

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NOTES:

- *1. W1 IS FOR TEST PURPOSES ONLY
- Δ2. WHEN USED AS AN 8K BANK, W5 AND W10 MUST BE INSTALLED AND W9 MUST BE OUT.
WHEN USED AS A 4K BANK W10 MUST BE OUT, W9 MUST BE IN AND W5 DETERMINES THE BANKS LOCATION ON THE BUS.
- 3. THIS MEMORY CAN ONLY BE INTERLEAVED AS 16K (TWO ADJACENT, CONTIGUOUS ADDRESS 8K BANKS). WHEN NOT INTERLEAVED (SOLID JUMPERS ON W7 AND W8) THE DEVICE SELECT IS AS SHOWN IN TABLE 1 USING A14. WHEN TWO 8K BANKS ARE INTERLEAVED W7 AND W8 MUST BE AS SHOWN IN DOTTED LINES IN TABLE 1. ALSO IN TABLE 1, A01 NOW GOES TO THE DEVICE SELECTOR GATE CONTROLLED BY W6. THE TWO BANKS MUST HAVE W6 IN ON ONE BANK AND OUT ON THE OTHER.
4. FIGURE 1 SHOWS THE PHYSICAL LOCATION OF THE JUMPERS ON THE G110 IF THE MODULE WERE LYING ON THE PRINT WITH COMPONENTS UP AND CONNECTORS TOWARD BOTTOM OF PRINT. W7 & W8 ARE AS SHOWN SCHEMATICALLY ON D-CS-G110-0-1

MEMORY BANK	MACHINE ADDRESS	W1 *	W5 A13 Δ	W6 □ A14 OR A01	W4 A15	W3 A16	W2 A17L	Δ W9 4K-8K	W10	W7-8 INTER LEAVE □	W11 PROTECT
0-4K	000000-017776	IN	IN	IN	IN	IN	IN				
4-8K	020000-037776	OUT	OUT	IN	IN	IN	IN				
8-12K	040000-057776		IN	OUT	IN	IN	IN				
12-16K	060000-077776		OUT	OUT	IN	IN	IN				
16-20K	100000-117776		IN	IN	OUT	IN	IN				
20-24K	120000-137776		OUT	IN	OUT	IN	IN				
24-28K	140000-157776		IN	OUT	OUT	IN	IN				
28-32K	160000-177776		OUT	OUT	OUT	IN	IN				
32-36K	200000-217776		IN	IN	IN	OUT	IN				
36-40K	220000-237776		OUT	IN	IN	OUT	IN				
40-44K	240000-257776		IN	OUT	IN	OUT	IN				
44-48K	260000-277776		OUT	OUT	IN	OUT	IN				
48-52K	300000-317776		IN	IN	OUT	OUT	IN				
52-56K	320000-337776		OUT	IN	OUT	OUT	IN				
56-60K	340000-357776		IN	OUT	OUT	OUT	IN				
60-64K	360000-377776		OUT	OUT	OUT	OUT	IN				
64-68K	400000-417776		IN	IN	IN	IN	OUT				
68-72K	420000-437776		OUT	IN	IN	IN	OUT				
72-76K	440000-457776		IN	OUT	IN	IN	OUT				
76-80K	460000-477776		OUT	OUT	IN	IN	OUT				
80-84K	500000-517776		IN	IN	OUT	IN	OUT				
84-88K	520000-537776		OUT	IN	OUT	IN	OUT				
88-92K	540000-557776		IN	OUT	OUT	IN	OUT				
92-96K	560000-577776		OUT	OUT	OUT	IN	OUT				
96-100K	600000-617776		IN	IN	IN	OUT	OUT				
100-104K	620000-637776		OUT	IN	IN	OUT	OUT				
104-108K	640000-657776		IN	OUT	IN	OUT	OUT				
108-112K	660000-677776		OUT	OUT	IN	OUT	OUT				
112-116K	700000-717776		IN	IN	OUT	OUT	OUT				
116-120K	720000-737776		OUT	IN	OUT	OUT	OUT				
120-124K	740000-757776		IN	OUT	OUT	OUT	OUT				
DEVICE USED AS 4K MEMORY Δ		IN	X	X	X	X	X	IN	OUT		

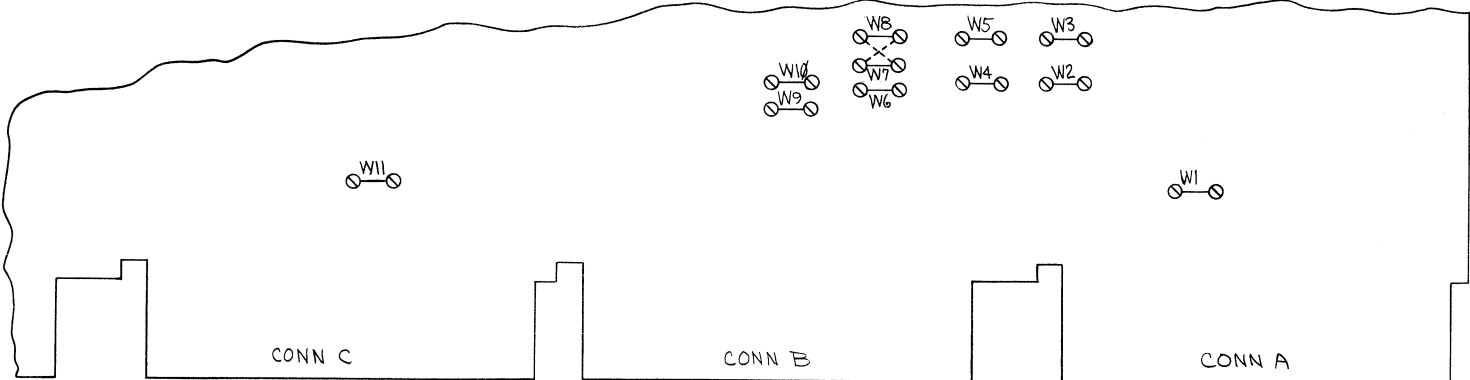
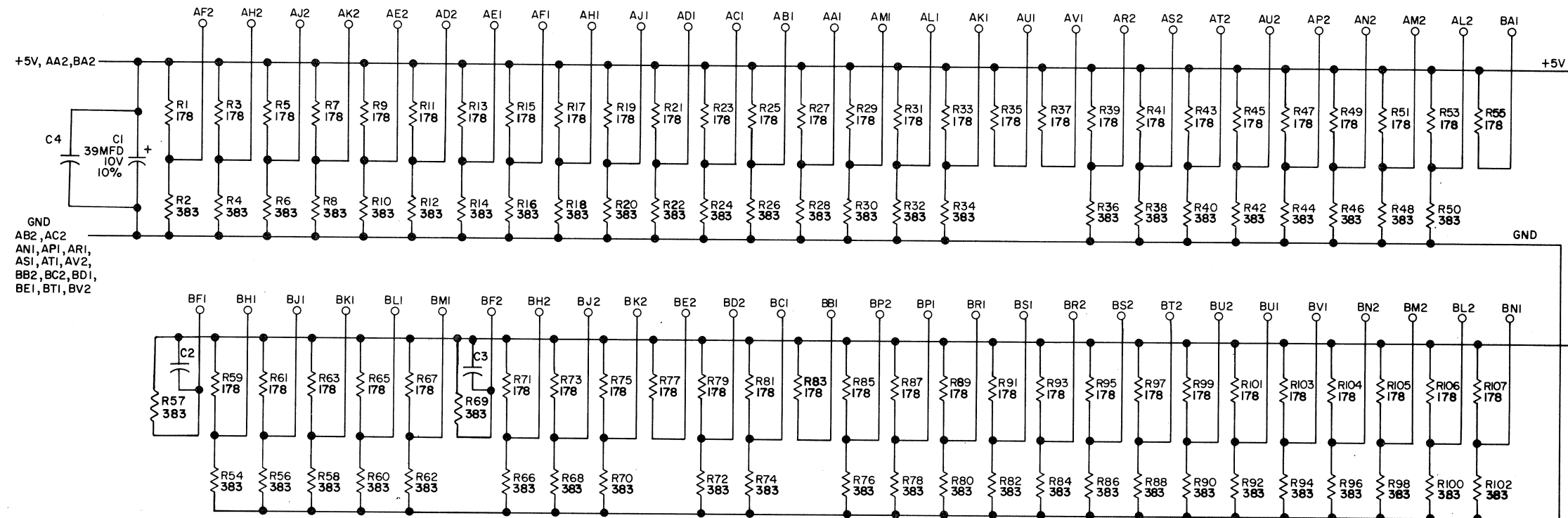


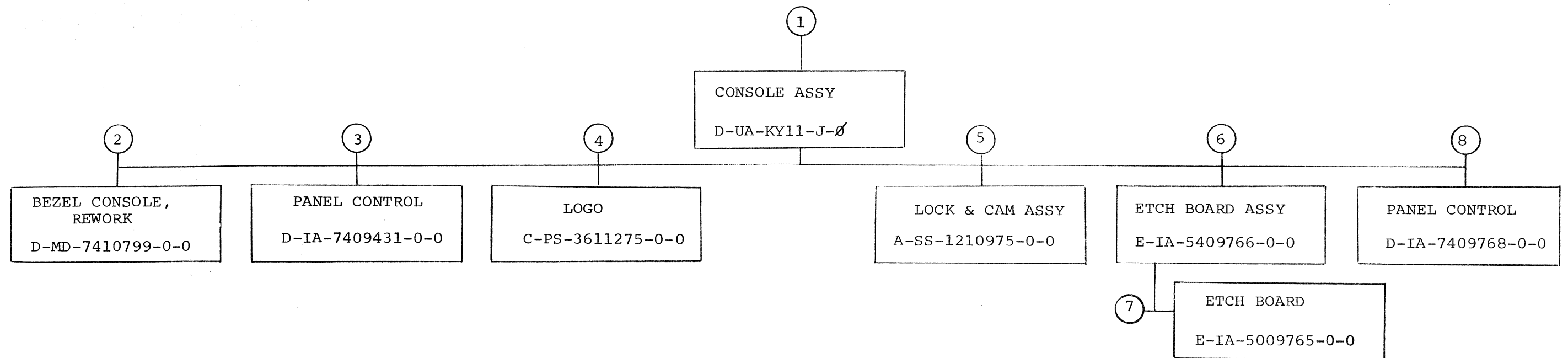
FIGURE 1
G110 JUMPER PHYSICAL LOCATION
SEE NOTE 4

FIRST USED ON OPTION/MODEL MM II-S	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN CHK'D ENG. PROJ. ENG. PROB. SP. MATERIAL FINISH	DATE 5/15/72 DATE 5-25-72 DATE 5-26-72 DATE 5-22-72 DATE 6-2-72 NEXT HIGHER ASSY. B-DD-MMII-S-0 SCALE SHEET 2 OF 2	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE BLOCK DIAGRAM (DEVICE DECODING) SIZE CODE NUMBER REV.	
DECIMALS .XXX = .005 .XX = .02 .X = .1	ANGLES ±0° 30'		D BD MMII-S-2	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			DIST.	

REVISIONS
CHANGE NO.
REV.
CHK

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TITLE	SHEET OF	SIZE CODE	NUMBER	REV
CONSOLE ASSY	1	B DD	1	D

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST

MADE BY R. ROBICHAUD		CHECKED C. TESCHNER	SECTION
DATE	12-8-71	DATE	5-1-72
ENG G. Graham		PROD	R. K. PETERSON
DATE	4-5-72	DATE	5-10-72
			ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
----------	--------------------	-------------

1	D-MD-7410799-0-0	CONSOLE BEZEL REWORK
2	E-IA-7409574-3-0	BEZEL CONSOLE (11/16)
3	E-IA-5409766-0-0	CONSOLE ETCH BOARD ASSY
4	E-IA-5409766-2-0	CONSOLE ETCH BOARD ASSY (OPECA)
5	A-PS-1210975-0-0	LOCK & CAM ASS'Y
6	9006020-1	SCR, PHL PAN HD. #6-32 X 1/4 LG
7	9006633	WASH INT TOOTH LOCK #6
8	9006003-1	SCR PHL PAN HD # 2-56 X 3/8 LG
9	9008025-1	SCR PHL PAN HD #2-56 X 5/8 LG
10	1210790-0-0	SWITCH DPST N.O.
11	E-MD-7409534-0-0	ACTUATOR REWORK
12	1210905-1	INSULATOR
13	B-IA-7409444-0-0	DETENT
14	9006686	WASH #2 SPLIT LOCK
15	9006000-4	SCR BINDER HD #2-56 X3/16 LG
16	1210904-1	SWITCH TMD 5201 (GOLD CONTACT 291-5201-00)
17	C-UA-BC08R-Ø3	I/O CABLE (3'-0" LG)
18	4901077	LUBE (FOR CAM LOCK)
19	B-IA-7409730-0-0	JUMPER, POWER
20	B-MD-7409868-0-0	SWITCH ADAPTER PLATE
21	B-MD-7409867-0-0	EXTENDER LEAF REWORK (ACTUATOR)
22	9008449-2	SCR PHB PLAT HD #2-56 X 1/4 LG.

TITLE	ASSY NO.	SIZE
CONSOLE ASSY (PDP11/05)	D-UA-KY11-J-Ø	A
	SHEET 1 OF 2	DIST

QUANTITY / VARIATION

KY11-JA
KY11-JB
KY11-JC
KY11-JD
KY11-JE
KY11-JJ

[illegible]

PL	CODE	NUMBER	REV.	ECO NO
		KY11-J-ø	N	KY11J-00007

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY	R. ROBICHAUD	CHECKED	C. TESCHNER	SECTION
DATE	12-8-71	DATE	5-1-72	1
ENG	G. GRAHAM	PROV	K. PETERSON	ISSUED SECT.
DATE	4-5-72	DATE	5-10-72	1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
----------	--------------------	-------------

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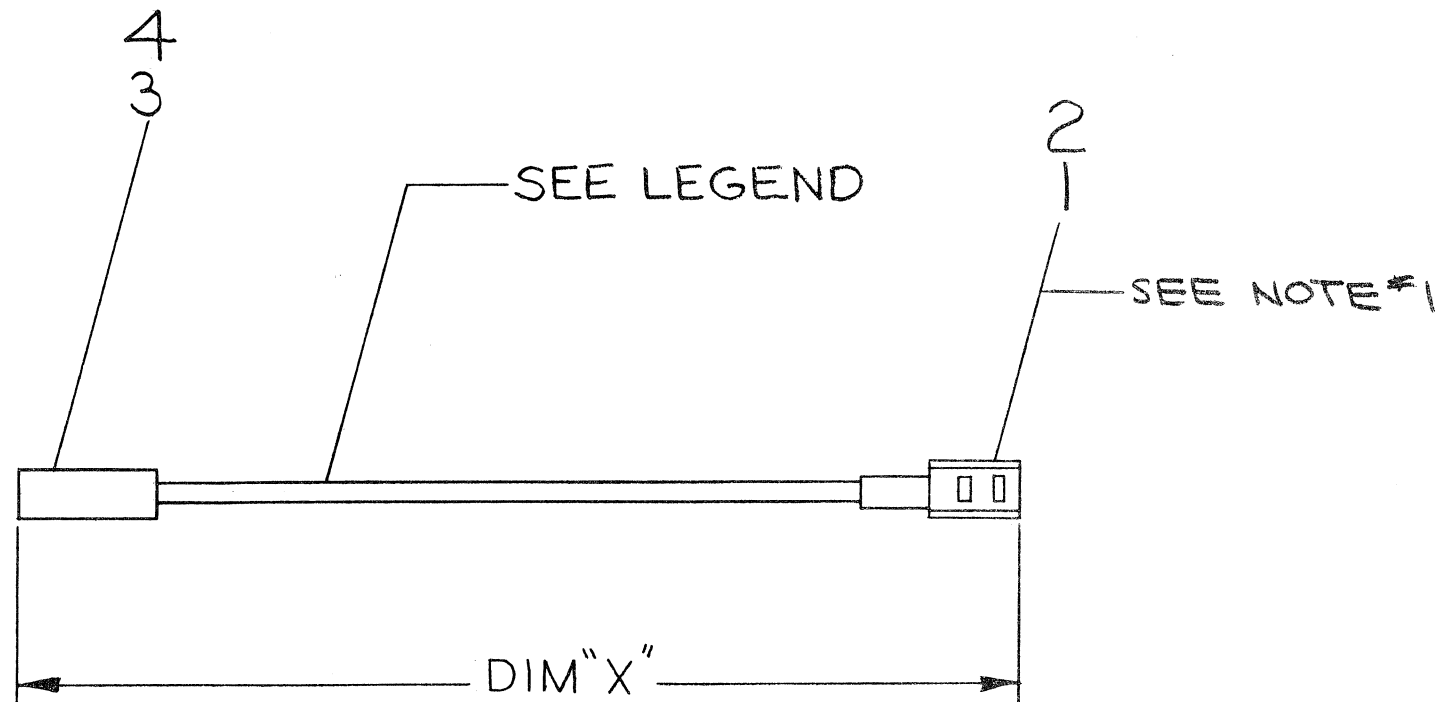
TITLE	CONSOLE ASSY (PDP11/05)	ASSY NO. D-UA-KY11-J-Ø	SIZE C A
		SHEET 2 OF 2	DIST

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LEGEND			
NUMBER	DIM"X"	COLOR	ITEM
7409730-Ø1	5 1/2"	BLACK	5

NOTES:

- ITEM #2 (SHRINK TUBING) TO COVER CONTACT AREA OF ITEM #1 (SOLDERLESS CONN.)



FIRST USED ON OPTION MODEL
PDP-11Ø5

A/R	WIRE, #18 AWG, BLK	107278-00	5
1	MINI FASTAB #60291-1	1210830-2	4
1	HOUSING, 1-480417-C	1210820-1	3
1	TUBING, SHRINK (WHITE)	9107252	2
1	SOLDERLESS CONN. 50902	9007917	1

QTY.	DESCRIPTION	PART NO.	ITEM NO.
------	-------------	----------	----------

DRN.	DATE	DIGITAL EQUIPMENT CORPORATION	
CHK'D.	DATE		
ENG.	DATE		
PROD/ENG.	DATE		
PROD.	DATE		
NEXT HIGHER ASSEMBLY		JUMPER, POWER	

SCALE	NONE	SIZE/CODE	B 1A	NUMBER	7409730-0-0	REV.	
SHEET	1	OF	1	DIST.			

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WIRE TABLE

FROM	TO	FROM	TO
P1-A	P2-VV	P1-Y	P2-X
P1-B	P2-UU	P1-Z	P2-W
P1-C	P2-TT	P1-AA	P2-V
P1-D	P2-SS	P1-BB	P2-U
P1-E	P2-RR	P1-CC	P2-T
P1-F	P2-PP	P1-DD	P2-S
P1-H	P2-NN	P1-EE	P2-R
P1-J	P2-MM	P1-FF	P2-P
P1-K	P2-LL	P1-HH	P2-N
P1-L	P2-KK	P1-JJ	P2-M
P1-M	P2-JJ	P1-KK	P2-L
P1-N	P2-HH	P1-LL	P2-K
P1-P	P2-FF	P1-MM	P2-J
P1-R	P2-EE	P1-NN	P2-H
P1-S	P2-DD	P1-PP	P2-F
P1-T	P2-CC	P1-RR	P2-E
P1-U	P2-BB	P1-SS	P2-D
P1-V	P2-AA	P1-TT	P2-C
P1-W	P2-Z	P1-UU	P2-B
P1-X	P2-Y	P1-VV	P2-A

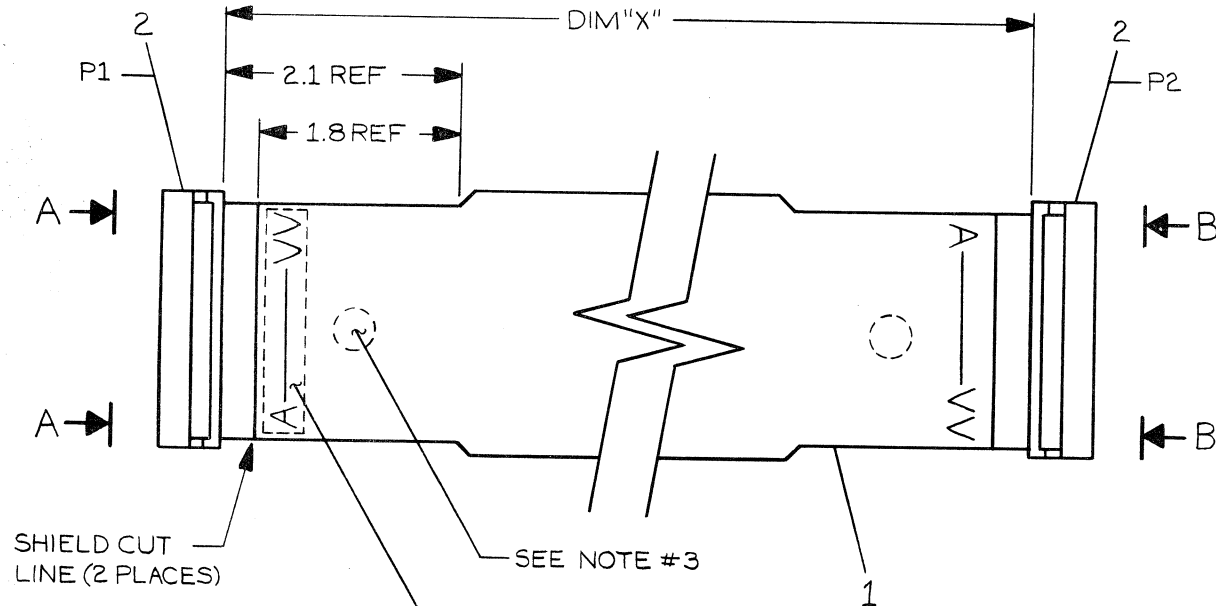
LEGEND

NUMBER	DIM "X"	PRECUT LENGTH
BCØ8R-Ø1	1 FT	1 FT 1.5 IN ± 1 IN
BCØ8R-Ø2	2 FT	2 FT 1.5 IN ± 1 IN
BCØ8R-Ø3	3 FT	3 FT 1.5 IN ± 1 IN
BCØ8R-Ø4	4 FT	4 FT 1.5 IN ± 1 IN
BCØ8R-Ø6	6 FT	6 FT 1.5 IN ± 2 IN
BCØ8R-Ø8	8 FT	8 FT 1.5 IN ± 2 IN
BCØ8R-1Ø	1Ø FT	1Ø FT 1.5 IN ± 3 IN
BCØ8R-12	12 FT	12 FT 1.5 IN ± 3 IN
BCØ8R-2Ø	2Ø FT	2Ø FT 1.5 IN ± 3 IN
BCØ8R-25	25 FT	25 FT 1.5 IN ± 3 IN
BCØ8R-3Ø	3Ø FT	3Ø FT 1.5 IN ± 6 FT
BCØ8R-5Ø	5Ø FT	5Ø FT 1.5 IN ± 1 FT
BCØ8R-6Ø	6Ø FT	6Ø FT 1.5 IN ± 1.2 FT
BCØ8R-75	75 FT	75 FT 1.5 IN ± 1.5 FT
BCØ8R-AØ	1ØØ FT	1ØØ FT 1.5 IN ± 2 FT
BCØ8R-A3	13Ø FT	13Ø FT 1.5 IN ± 2.6 FT
BCØ8R-A6	16Ø FT	16Ø FT 1.5 IN ± 3.2 FT

NOTES:

1. ASSEMBLE THIS CABLE PER PROCESS SPEC # 76Ø6485-Ø-Ø.
2. CONNECTOR LEGEND IDENTIFICATION TO BE PLACED ON SHIELD SIDE OF CABLE IN THIS AREA AS SHOWN.
3. INSPECTION & TEST STAMPS TO BE PLACED AT EACH END OF THE CABLE ASSEMBLY.

UU	VV
SS	TT
PP	RR
MM	NN
KK	LL
HH	JJ
EE	FF
CC	DD
AA	BB
Y	Z
W	X
U	V
S	T
P	R
M	N
K	L
H	J
E	F
C	D
A	B



VIEW A-A
CONN. LEGEND REF.

VIEW B-B
CONN. LEGEND REF.

B	A
D	C
F	E
J	H
L	K
N	M
R	P
T	S
V	U
X	W
Z	Y
BB	AA
DD	CC
FF	EE
JJ	HH
LL	KK
NN	MM
RR	PP
TT	SS
VV	UU

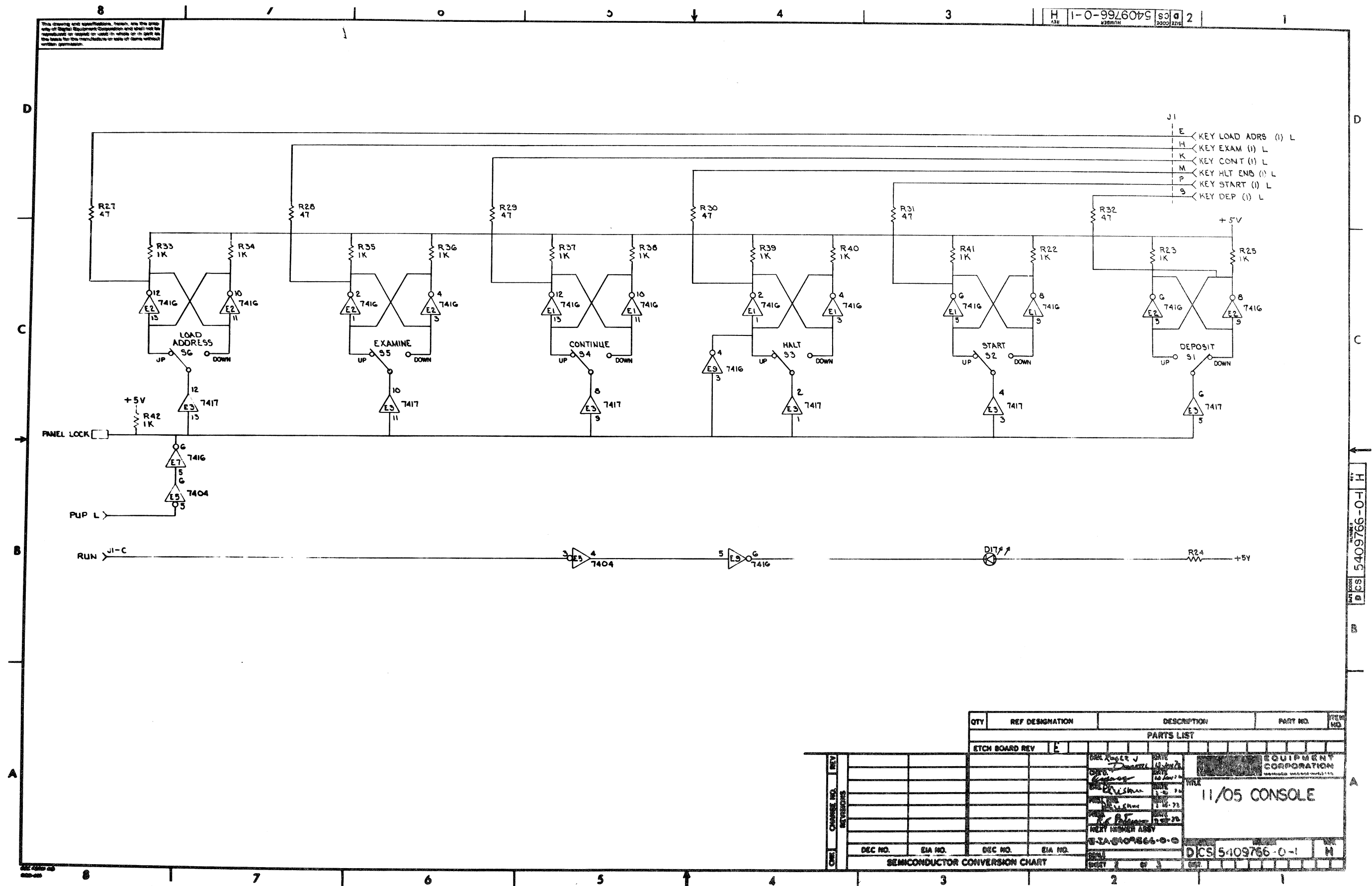
2	CONNECTOR, 4Ø SOCKET	12112Ø6	2
A/R	CABLE, 4Ø COND. FLAT W/SHIELD	17ØØØØ4	1

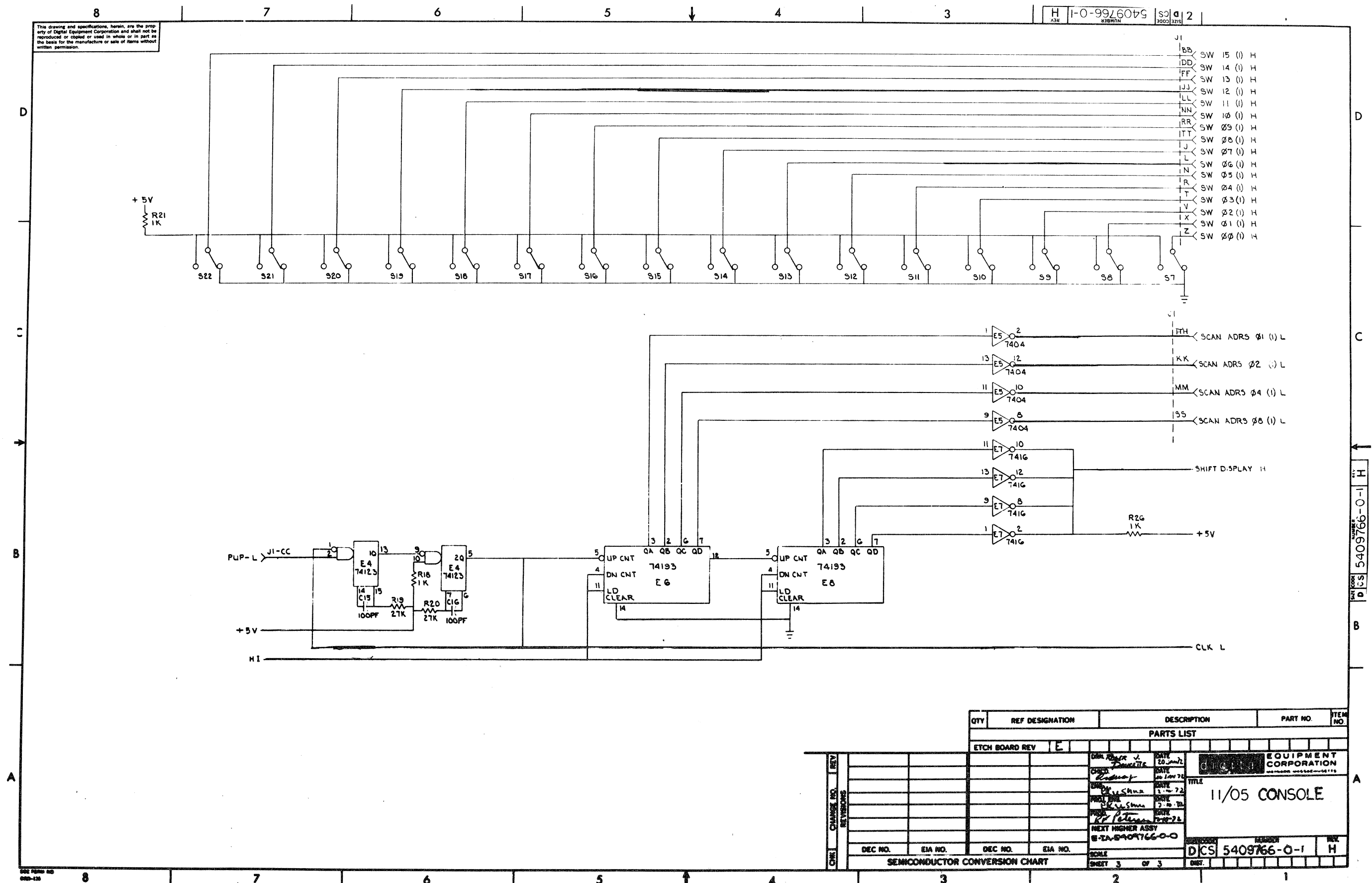
FIRST USED ON OPTION/MODEL		QTY.		DESCRIPTION		PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DRN. D. FONTAINE		DATE 8-28-70		PARTS LIST			
TOLERANCES		CHK'D. J. FLEMING		DATE 8-28-70		TITLE			
DECIMALS		ENG. P. GARDNER		DATE 9-3-70		BCØ8R			
ANGLES		PROJ. ENG. P. GARDNER		DATE 9-3-70		I/O CABLE			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD. DONALD		DATE 9-4-70		REV.			
MATERIAL		NEXT HIGHER ASSY.		SCALE		NONE		SHEET 1 OF 1	
FINISH		SCALE		NONE		SHEET 1 OF 1		DIST.	

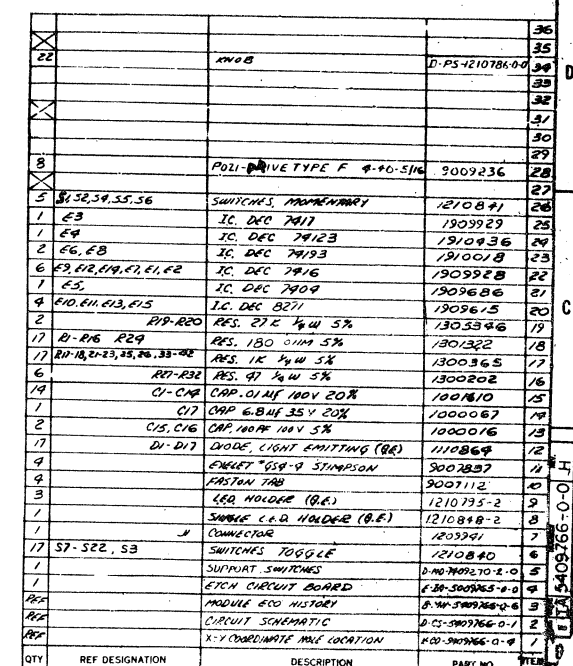
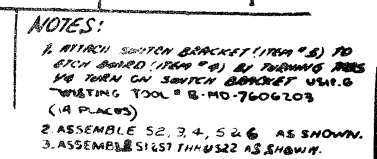
REVISIONS	CHANGE NO.	REV.
BCØ8R-ØØØØ4	J	
REVISION DRAWN		
P. GARDNER		
7/17/75		

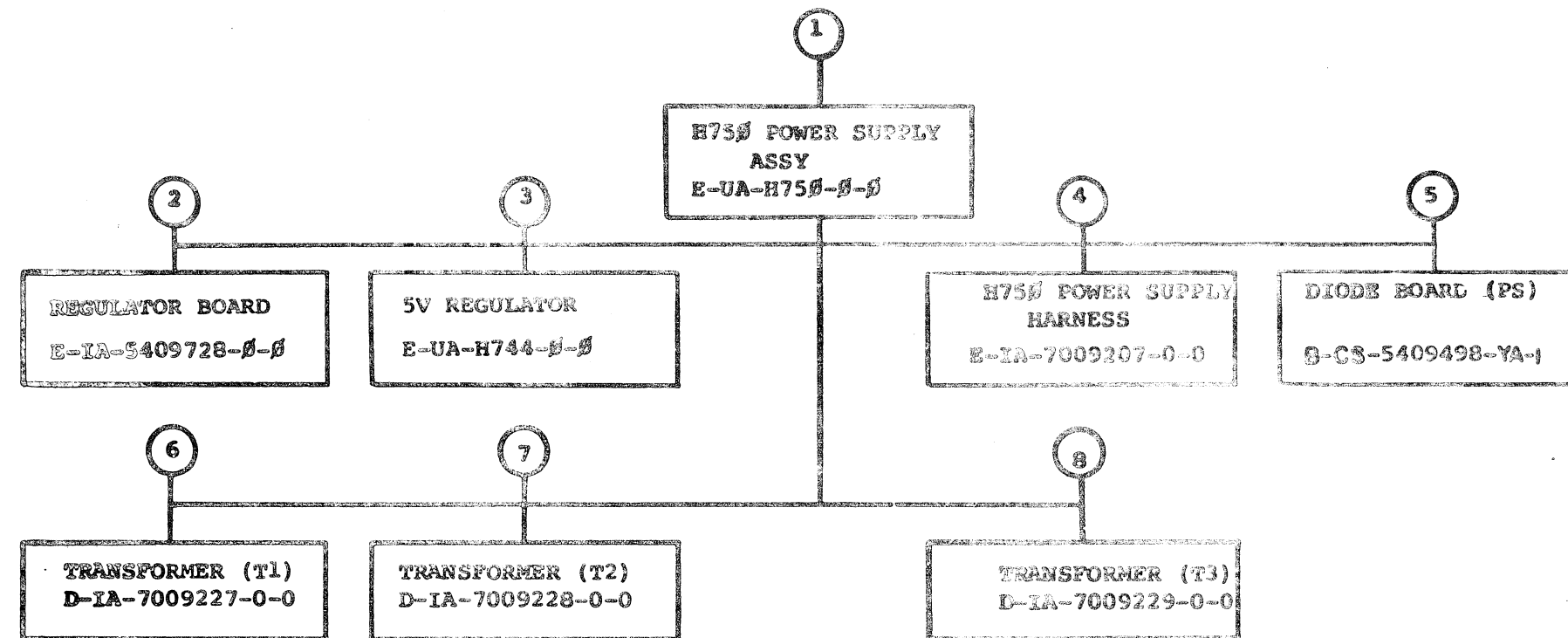
2	DEC 00 1966	5409766-0-1	REC-1
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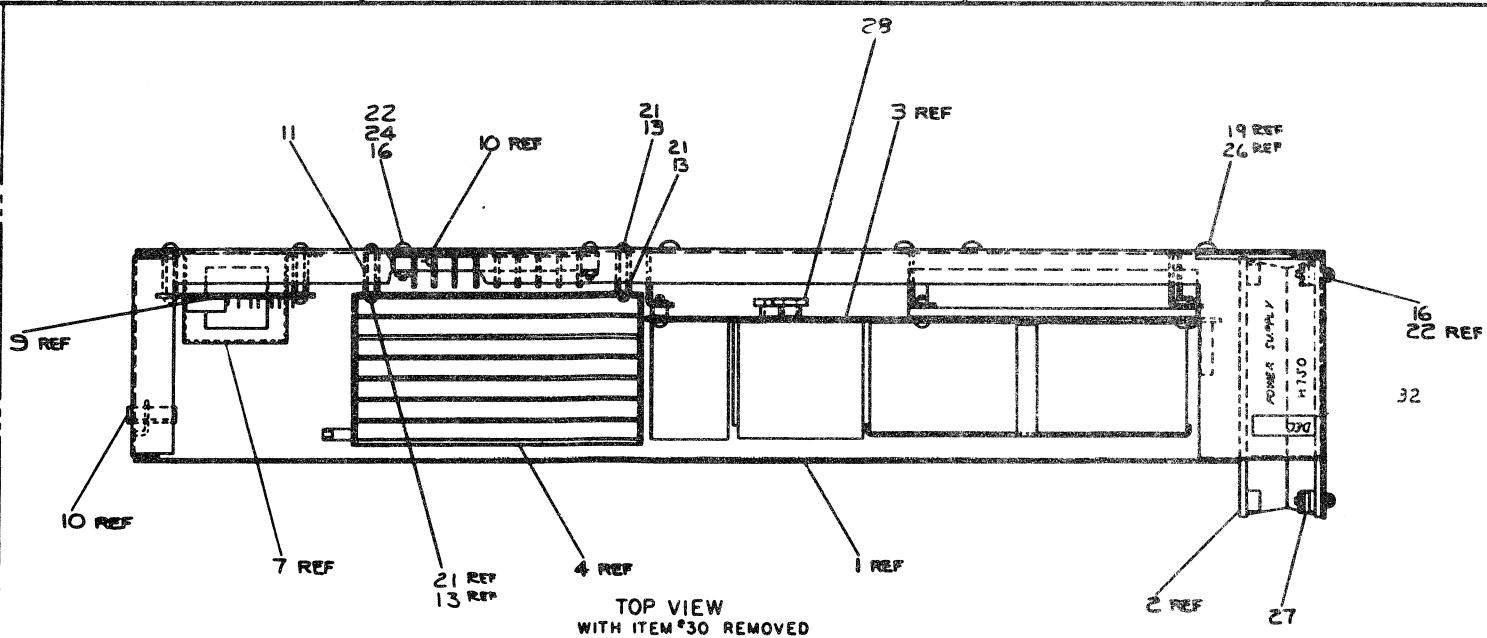
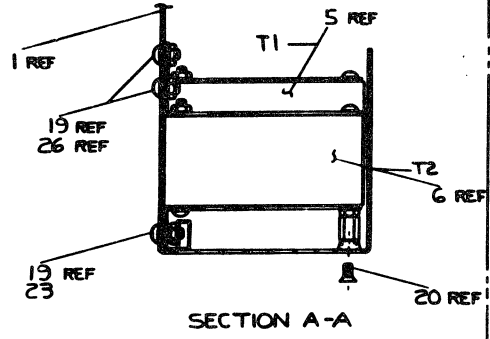


TITLE	SHEET CODE	NUMBER	REV
POWER SUPPLY H750	SHEET 2 OF 3	H750-0	1

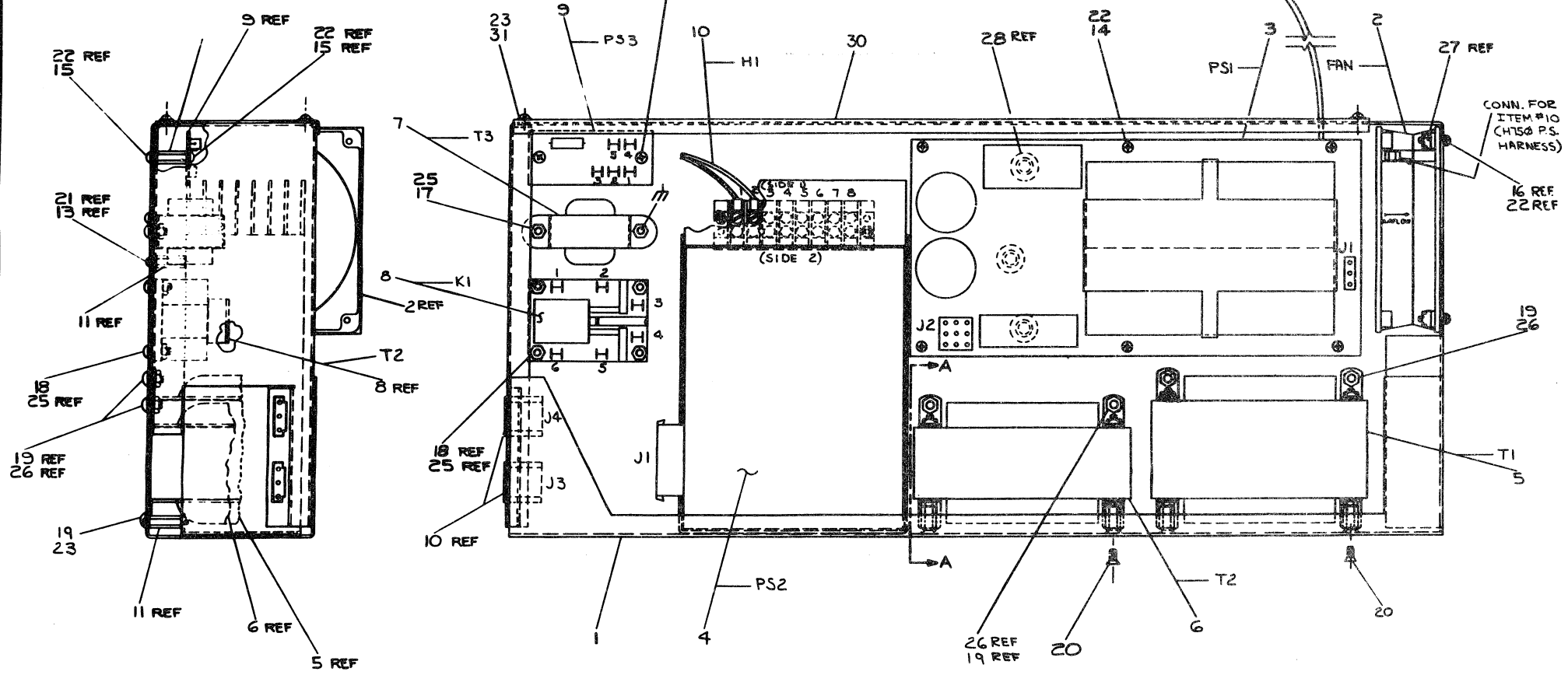
CUSTOMER PRINT SET				ELECTRICAL					CUSTOMER PRINT SET				MECHANICAL				
H750-0	SET	MFG.	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	H750-0	SET	MFG.	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X			1	E-UA-H750-0-0	1	2	H750 POWER SUPPLY ASSY						E-UA-H750-0-0	1	2	H750 POWER SUPPLY ASSY	
X				D-CS-H750-0-1	1	1	CIRCUIT SCHEMATIC (H750 PS.)			X			E-IA-7409723-0-0	#	2	CHASSIS POWER SUPPLY	
				A-SP-H750-0-3	A	1	TEST PROCEDURE						1209403		1	FAN SUPER BOXER	
				1211222		1	RELAY			X			C-MD-7409722-0-0	#	1	COVER, POWER SUPPLY	
													A-DC-7411006-0-0		1	DECAL	
												2	E-IA-5409728-0-0	#	1	REGULATOR BOARD	
													D-CS-5409728-0-1	#	1	CIRCUIT SCHEMATIC	
													C-IA-5310126-0-0		1	HOLDER CAPACITOR	
													C-MD-5309779-0-0		1	CONTACT, COMMON CAPACITOR	
													C-MD-5309781-0-0		1	CONTACT, CAPACITOR	
X			2	E-IA-5409728-0-0	#	1	REGULATOR BOARD										
X				D-CS-5409728-0-1	#	1	CIRCUIT SCHEMATIC										
				K-CO-5409728-0-4		1	X-Y COORDINATE HOLE LOC.						3	E-UA-H744-0-0	#	1	5V REGULATOR
				B-MH-5409728-0-6		1	MODULE ECO HISTORY							D-CS-H744-0-1	#	1	CIRCUIT SCHEMATIC
				5009727		1	ETCH BOARD										
X			3	E-UA-H744-0-0	#	1	5V REGULATOR						4	E-IA-7009207-0-0	#	1	H750 POWER SUPPLY HARNESS
X				D-CS-H744-0-1	#	1	CIRCUIT SCHEMATIC										
				B-MH-H744-0-4		1	X-Y COORDINATE HOLE LOCATION										
				K-CO-H744-0-5		1	ASSY/DRILLING HOLE LOCATION						5	B CS-5409498-YA-1	#	1	DIODE BOARD P.S.CIRCUIT SCHEMATIC
				D-AH-H744-0-6		1	MODULE ECO HISTORY										
				5009725		1	ETCH BOARD										
X			4	E-IA-7009207-0-0	#	1	H750 POWER SUPPLY HARNESS						6	D-IA-7009227-0-0	#	1	TRANSFORMER REWORK (T1)
X			5	B-CS-5409498-YA-1	#	1	DIODE BOARD PS.CIRCUIT SCHEMATIC							1611224		1	TRANSFORMER
				K-CO-5409498-0-4		1	X-Y COORDINATE HOLE LOC.										
				B-MH-5409498-0-6		1	MODULE ECO HISTORY						7	D-IA-7009228-0-0	#	1	TRANSFORMER REWORK (T2)
				E-IA-5009497-0-0		1	ETCH CIRCUIT BOARD							1611225		1	TRANSFORMER
			6	D-IA-7009227-0-0	#	1	TRANSFORMER REWORK (T1)						8	D-IA-7009229-0-0	#	1	TRANSFORMER REWORK (T3)
				1611224		1	TRANSFORMER							1610150		1	TRANSFORMER
			7	D-IA-7009228-0-0	#	1	TRANSFORMER REWORK (T2)										
				1611225		1	TRANSFORMER										
			8	D-IA-7009229-0-0	#	1	TRANSFORMER REWORK (T3)										
				1610150		1	TRANSFORMER										

CUSTOMER PRINT SET CODES	I = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED	TITLE	POWER SUPPLY H750	SHEET 3 OF 3	SIZE CODE	B DD	NUMBER	H750-0	REV	J
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PROPERTY OF THE
EQUIPMENT CORPORATION



NOTES:
1. FOR EASE IN HANDLING AND MANUFACTURING, ITEMS IN THE H750 POWER SUPPLY SHOULD BE ASSEMBLED AND INSTALLED IN THE CHASSIS (ITEM #1) IN THE FOLLOWING ORDER:
A) THE RELAY (ITEM #8), TRANSFORMER REWORK (ITEM #7), DIODE BOARD (ITEM #9), HARNESS (ITEM #10), AND FAN (ITEM #2) SHOULD BE INSTALLED IN CHASSIS (ITEM #1) FIRST.
B) TRANSFORMER (ITEM #5) AND TRANSFORMER (ITEM #6) TO CHASSIS.
C) REGULATOR BOARD (ITEM #3) TO CHASSIS.
D) REMOVE PLASTIC SHIELD AND SEE FROM ITEM #4 (H750) AND REPLACE WITH 4 ITEM #11; THEN INSTALL TO CHASSIS.



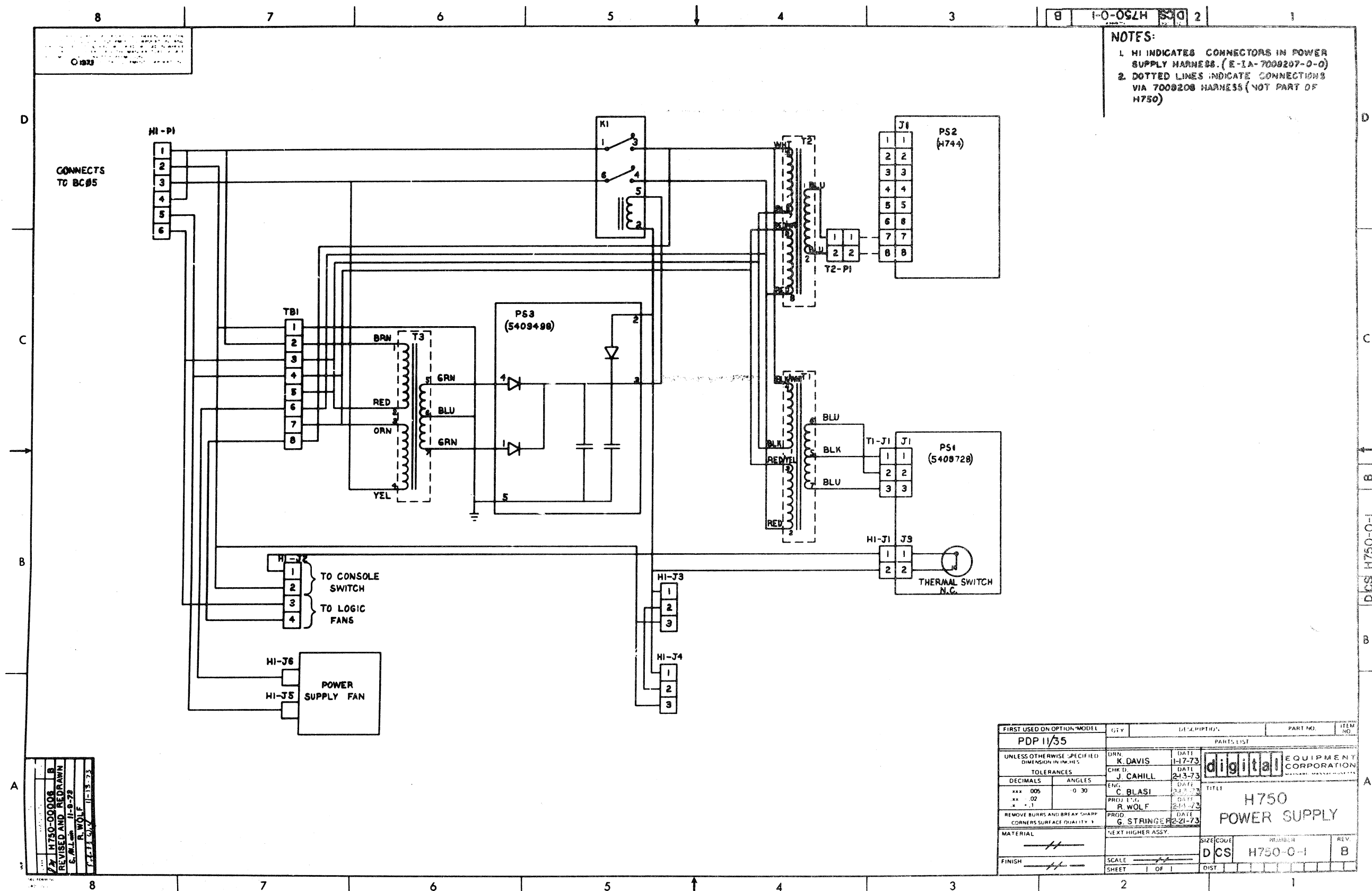
QTY.	DESCRIPTION	PART NO.	QTY.
1	DECAL	1-1000000-0	1
4	SCREW PHILTRUSS HD 10-32 X 1/2	0000000-0	31
1	COVER POWER SUPPLY	1-1000000-0	1
REF	TEST PROCEDURE	1-1000000-0	1
3	INSULATOR, NYLON FLOUSE	0000000-0	28
4	FLIP FAN HTS 48	0000000-0	27
4	INT. REPS 10-32	0000000-0	26
8	INT. REPS 10-32	0000000-0	25
4	INT. REPS 10-32	0000000-0	24
6	WASHER, INT. TOOTHLOCK 10	0000000-0	23
14	WASHER, INT. TOOTHLOCK 10	0000000-0	22
5	WASHER, INT. TOOTHLOCK 10	0000000-0	21
4	SCREW PHILTRUSS HD 10-32 X 1/2	0000000-0	20
8	SCREW PHILTRUSS HD 10-32 X 1/2	0000000-0	19
4	SCREW PHILTRUSS HD 10-32 X 1/2	0000000-0	18
2	SCREW PHILTRUSS HD 10-32 X 1/2	0000000-0	17
8	SCREW PHILTRUSS HD 10-32 X 1/2	0000000-0	16
4	SCREW PHILTRUSS HD 10-32 X 1/2	0000000-0	15
8	SCREW PHILTRUSS HD 10-32 X 1/2	0000000-0	14
4	SCREW PHILTRUSS HD 10-32 X 1/2	0000000-0	13
2	SPACER 10-32 X 1/2	0000000-0	12
4	STANDOFF 10-32 X 1/2	0000000-0	11
1	H750 POWER SUPPLY HARNESS (H)	1-1000000-0	10
1	DIODE BOARD P.S.	1-1000000-0	9
1	RELAY	1-1000000-0	8
1	TRANSFORMER REWORK (T1)	1-1000000-0	7
1	TRANSFORMER REWORK (T2)	1-1000000-0	6
1	TRANSFORMER REWORK (T3)	1-1000000-0	5
1	SV REGULATOR (R52)	1-1000000-0	4
1	REGULATOR BOARD (P51)	1-1000000-0	3
1	FAN, SUPER DUTY (110)	1-1000000-0	2
1	CHASSIS POWER SUPPLY	1-1000000-0	1

H750		EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		TITLE H750 POWER SUPPLY ASSY	
DECIMALS	ANGLES	DRAWN EJA	
1/16" - .001	1/16"	CHECKED EJA	
1/32" - .002	1/32"	APPROVED EJA	
1/64" - .003	1/64"	DATE 1-1-75	
1/128" - .004	1/128"	BY EJA	
1/256" - .005	1/256"	PARTS LIST D-11-1195-0-0	
1/512" - .006	1/512"	SCALE 1" = 1"	
1/1024" - .007	1/1024"	SHEET 1 OF 2	
1/2048" - .008	1/2048"	REV. H	

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CORPORATION

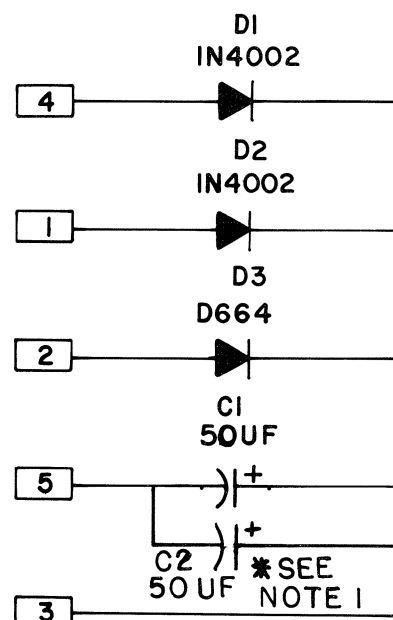
WIRE TABLE					
NO.	DESCR	FROM	TO	REMARKS	
NO.	ANG	COLOR	CONNECTION	CONNECTION	
10 (11)			HI-D1	PS1-J3	
			HI-J1		
			HI-J2		
			HI-J3	TO CHASSIS	
			HI-J4	ITEM #1	
	18	RED	HI-J5	TO PAN	
		WHT	HI-J6	ITEM #2	
		WHT	HI-7	K1-6	
		RED	HI-8	K1-3	
		WHT	HI-9	K1-4	
		ORN	HI-10	K1-5	
		VIO	HI-11	K1-2	
		RED	HI-12	K1-1	
		RED	HI-13	K1-1	
		VIO	HI-14	PS3-2	
		ORN	HI-15	PS3-3	
	19	BLK	HI-16	PS3-5	
	18	BLK	HI-17	PS3-2	
5 (71)	19	BLK	HI-49	PS3-5	
	19	BLK	HI-50	T3 (71)	
			T1-J1	PS1-J1	
	14	BLK	T1-1	HI-TBI-5	ALL CONN-
		RED	T1-2	HI-TBI-6	NECTIONS TO
6 (72)		RED/WHT	T1-3	HI-TBI-7	HI-TBI ARE
	19	BLK/WHT	T1-4	HI-TBI-8	ON SIDE #2
			T2-P1		
	14	BLK	T2-7	HI-TBI-5	ALL CONN-
		RED	T2-8	HI-TBI-6	NECTIONS TO
7 (73)		RED/WHT	T2-9	HI-TBI-7	HI-TBI ARE
	14	WHT	T2-10	HI-TBI-8	ON SIDE #2
	20	ORN	T3-1	HI-TBI-2	SIDE #1
		RED	T3-2	HI-TBI-5	SIDE #1
		ORN	T3-3	HI-TBI-7	SIDE #1
		YEL	T3-4	K1-6	
		GRN	T3-5	PS3-4	
		GRN	T3-6	PS3-1	
20		BLU	T3-7	HI-TBI-1	SIDE #2

FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION	PART NO.	REV.
H750					
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		PARTS LIST			
DECIMALS	ANGLES	DEFCON EQUIPMENT CORPORATION			
.001 - .005	± .01	TITLE			
.006 - .010	± .02	H750			
.011 - .015	± .03	POWER SUPPLY			
.016 - .020	± .04	ASSY.			
REMOVE BURRS AND BREAK SHARP CORNER SURFACE QUALITY		MATERIAL			
SEE PARTS LIST		NEXT WORKER ASSY.			
PARTS LIST		D-VA-1135-0-0			
PARTS		EUA H750-0-0			
SHEET 2 OF 2		REV. H			

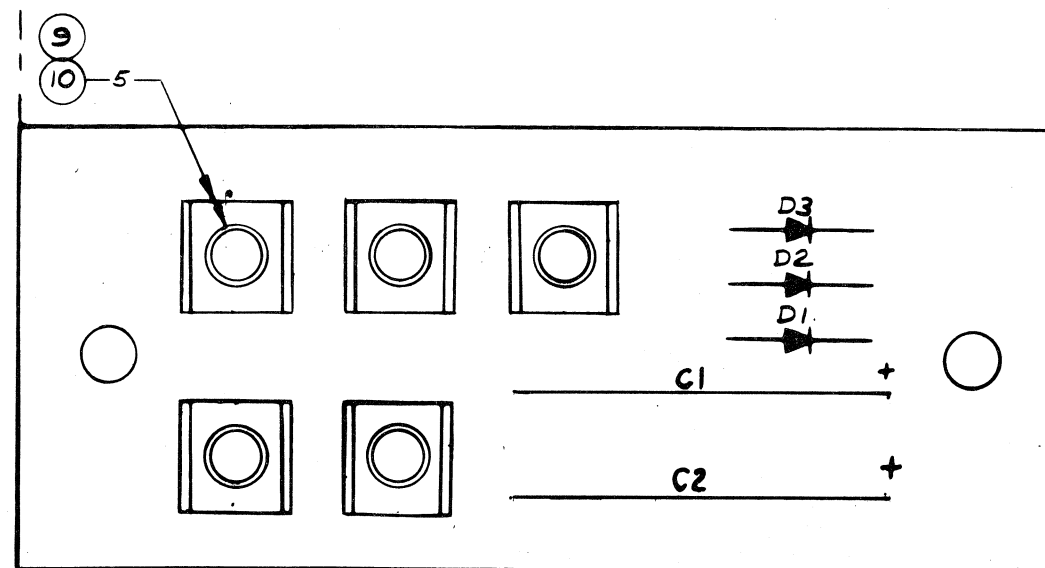


SIZE	B	CODE	CS	NUMBER	5409498-0-1	REV.	B
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1 ADD C2 FOR VARIATION YA



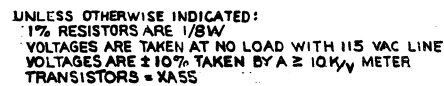
☐ = FASTON TABS



5409498-0-1	5409498-YA-1				
5	5		EYELETS	9007837	10
5	5		FASTON TABS #41290	9007113	9
1	1	D3	DIODE D664	1100114	8
2	2	D1, D2	DIODE 1N4002	1104861	7
1	2	C1,C2	CAP. 500F 50V ⁻¹⁰ / _{+75%}	1000080	6
1	1		ETCHED CIRCUIT BOARD	5009497	5
			MODULE ECO HISTORY	B-MH-5409498-0-6	4
			ASSY/DRILLING HOLE LAYOUT	D-AH-5409498-0-5	3
			X-Y COORDINATE HOLE LOCATION	K-CO-5409498-0-4	2
	QTY.	REF DESIGNATION	DESCRIPTION	DEC PART NO.	PTH NO.
			PARTS LIST		

[illegible]

DIST. 324, 434, 435²

[illegible]

THIS IS PRINT SET

SEQUENCE

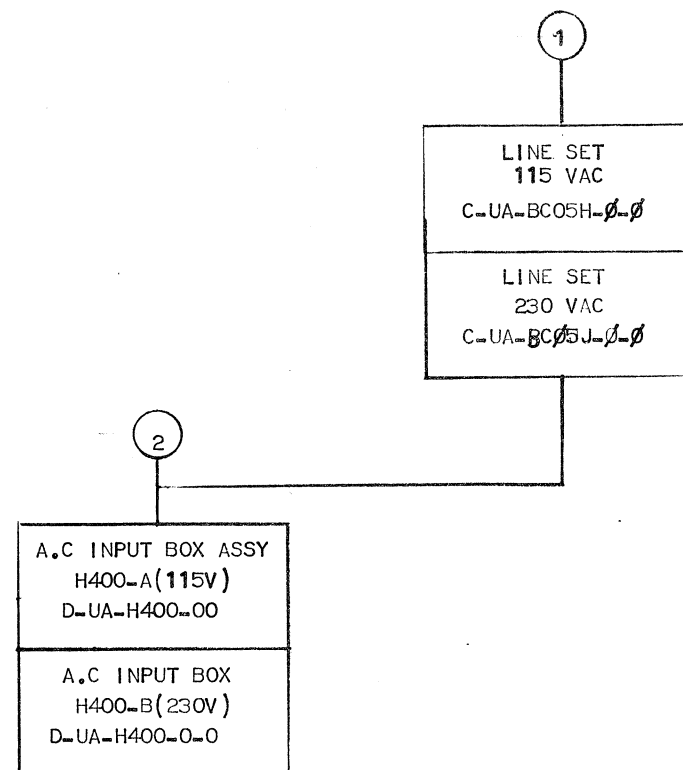
B-DD-BC05-~~05~~
C-UA-BC05H-~~05~~
C-UA-BC05J-~~05~~
D-UA-H4~~05~~-~~05~~
A-PL-H4~~05~~-~~05~~
C-1A-5409824-~~05~~
C-1A-5409825-~~05~~

UNIT VARIATIONS

PRINT SET TYPE

[illegible]

REVISIONS			USED ON OPTION/MODEL		DRN.	DATE	TITLE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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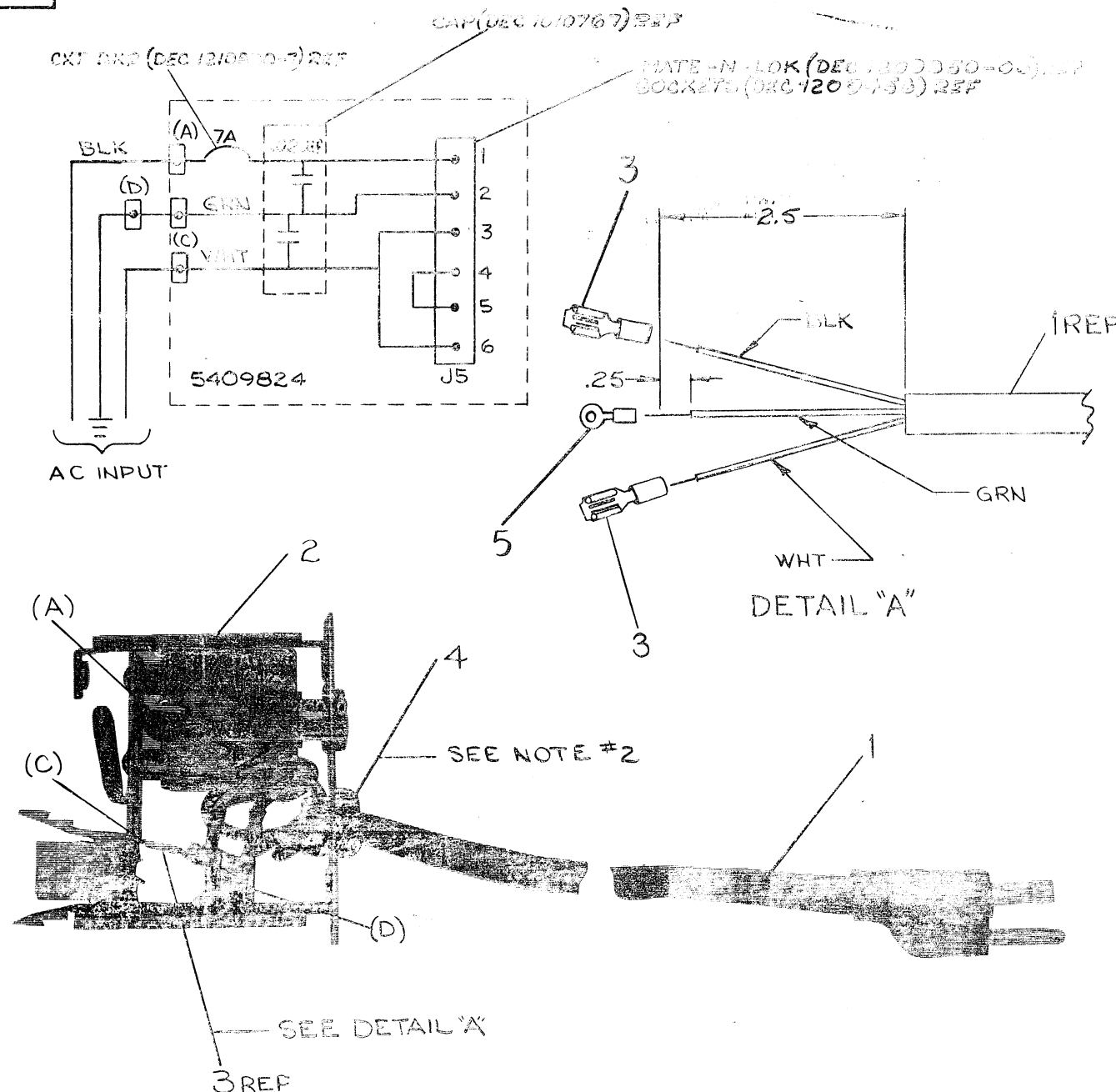


TITLE	SHEET 2 OF 3	SIZE	CODE	NUMBER	REV
LINE SET		B	DD	BC05H-0	

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NOTES:

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



SHOWN WITHOUT COVER

1	SOLDER CONN ARKLESS	9001929-0	5
1	STRAIN RELIEF SR-6N3-4	9008492-2	4
2	SOLDERLESS CONN. ARKLESS	9007919	3
1	AC INPUT BOX H400A	D-UA-H400-0-0	2
1	POWER CORD 120V	170015-6	1

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05			PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN T. Guillen	DATE 12-27-71	DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS 01901	
DECIMALS .XXX = .005 .XX = .02 .X = .1	ANGLES ±0° 30'	CHK'D J. F. Farnsworth	DATE 1-8-72	TITLE LINE SET	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		ENG. David DeMunnich	DATE 1-4-72	115VAC 7AMP	
MATERIAL + + +		PROJ. ENG. R. de H. H. H.	DATE 1-7-72	NEXT HIGHER ASSY. + + +	
FINISH + + +		PROD. R. K. Peterson	DATE 1/2/72	SCALE SHEET 1 OF 1	
		SIZE CODE C UA		NUMBER BC05H-0-0	REV. A

REV. CHG. NO. REVISIONS		
REV.	CHANGE NO.	REVISIONS
A	BC05H-00001	CM Quinn 3-28-72
B	BC05H-00002	R. WOLFF
C	BC05H-00003	R. BURTON
D	BC05H-00004	R. BURTON
E	BC05H-00005	R. BURTON
F	BC05H-00006	R. BURTON
G	BC05H-00007	R. BURTON
H	BC05H-00008	R. BURTON
I	BC05H-00009	R. BURTON
J	BC05H-00010	R. BURTON
K	BC05H-00011	R. BURTON
L	BC05H-00012	R. BURTON
M	BC05H-00013	R. BURTON
N	BC05H-00014	R. BURTON
O	BC05H-00015	R. BURTON
P	BC05H-00016	R. BURTON
Q	BC05H-00017	R. BURTON
R	BC05H-00018	R. BURTON
S	BC05H-00019	R. BURTON
T	BC05H-00020	R. BURTON
U	BC05H-00021	R. BURTON
V	BC05H-00022	R. BURTON
W	BC05H-00023	R. BURTON
X	BC05H-00024	R. BURTON
Y	BC05H-00025	R. BURTON
Z	BC05H-00026	R. BURTON
AA	BC05H-00027	R. BURTON
AB	BC05H-00028	R. BURTON
AC	BC05H-00029	R. BURTON
AD	BC05H-00030	R. BURTON
AE	BC05H-00031	R. BURTON
AF	BC05H-00032	R. BURTON
AG	BC05H-00033	R. BURTON
AH	BC05H-00034	R. BURTON
AI	BC05H-00035	R. BURTON
AJ	BC05H-00036	R. BURTON
AK	BC05H-00037	R. BURTON
AL	BC05H-00038	R. BURTON
AM	BC05H-00039	R. BURTON
AN	BC05H-00040	R. BURTON
AO	BC05H-00041	R. BURTON
AP	BC05H-00042	R. BURTON
AQ	BC05H-00043	R. BURTON
AR	BC05H-00044	R. BURTON
AS	BC05H-00045	R. BURTON
AT	BC05H-00046	R. BURTON
AU	BC05H-00047	R. BURTON
AV	BC05H-00048	R. BURTON
AW	BC05H-00049	R. BURTON
AX	BC05H-00050	R. BURTON
AY	BC05H-00051	R. BURTON
AZ	BC05H-00052	R. BURTON
BA	BC05H-00053	R. BURTON
BB	BC05H-00054	R. BURTON
BC	BC05H-00055	R. BURTON
BD	BC05H-00056	R. BURTON
BE	BC05H-00057	R. BURTON
BF	BC05H-00058	R. BURTON
BG	BC05H-00059	R. BURTON
BH	BC05H-00060	R. BURTON
BI	BC05H-00061	R. BURTON
BJ	BC05H-00062	R. BURTON
BK	BC05H-00063	R. BURTON
BL	BC05H-00064	R. BURTON
BM	BC05H-00065	R. BURTON
BN	BC05H-00066	R. BURTON
BO	BC05H-00067	R. BURTON
BP	BC05H-00068	R. BURTON
BQ	BC05H-00069	R. BURTON
BR	BC05H-00070	R. BURTON
BS	BC05H-00071	R. BURTON
BT	BC05H-00072	R. BURTON
BU	BC05H-00073	R. BURTON
BV	BC05H-00074	R. BURTON
BW	BC05H-00075	R. BURTON
BX	BC05H-00076	R. BURTON
BY	BC05H-00077	R. BURTON
BZ	BC05H-00078	R. BURTON
CA	BC05H-00079	R. BURTON
CB	BC05H-00080	R. BURTON
CC	BC05H-00081	R. BURTON
CD	BC05H-00082	R. BURTON
CE	BC05H-00083	R. BURTON
CF	BC05H-00084	R. BURTON
CG	BC05H-00085	R. BURTON
CH	BC05H-00086	R. BURTON
CI	BC05H-00087	R. BURTON
CJ	BC05H-00088	R. BURTON
CK	BC05H-00089	R. BURTON
CL	BC05H-00090	R. BURTON
CM	BC05H-00091	R. BURTON
CN	BC05H-00092	R. BURTON
CO	BC05H-00093	R. BURTON
CP	BC05H-00094	R. BURTON
CQ	BC05H-00095	R. BURTON
CR	BC05H-00096	R. BURTON
CS	BC05H-00097	R. BURTON
CT	BC05H-00098	R. BURTON
CU	BC05H-00099	R. BURTON
CV	BC05H-00100	R. BURTON
CW	BC05H-00101	R. BURTON
CX	BC05H-00102	R. BURTON
CY	BC05H-00103	R. BURTON
CZ	BC05H-00104	R. BURTON
DA	BC05H-00105	R. BURTON
DB	BC05H-00106	R. BURTON
DC	BC05H-00107	R. BURTON
DD	BC05H-00108	R. BURTON
DE	BC05H-00109	R. BURTON
DF	BC05H-00110	R. BURTON
DG	BC05H-00111	R. BURTON
DH	BC05H-00112	R. BURTON
DI	BC05H-00113	R. BURTON
DJ	BC05H-00114	R. BURTON
DK	BC05H-00115	R. BURTON
DL	BC05H-00116	R. BURTON
DM	BC05H-00117	R. BURTON
DN	BC05H-00118	R. BURTON
DO	BC05H-00119	R. BURTON
DP	BC05H-00120	R. BURTON
DQ	BC05H-00121	R. BURTON
DR	BC05H-00122	R. BURTON
DS	BC05H-00123	R. BURTON
DT	BC05H-00124	R. BURTON
DU	BC05H-00125	R. BURTON
DV	BC05H-00126	R. BURTON
DW	BC05H-00127	R. BURTON
DX	BC05H-00128	R. BURTON
DY	BC05H-00129	R. BURTON
DZ	BC05H-00130	R. BURTON
EA	BC05H-00131	R. BURTON
EB	BC05H-00132	R. BURTON
EC	BC05H-00133	R. BURTON
ED	BC05H-00134	R. BURTON
EE	BC05H-00135	R. BURTON
EF	BC05H-00136	R. BURTON
EG	BC05H-00137	R. BURTON
EH	BC05H-00138	R. BURTON
EI	BC05H-00139	R. BURTON
EJ	BC05H-00140	R. BURTON
EK	BC05H-00141	R. BURTON
EL	BC05H-00142	R. BURTON
EM	BC05H-00143	R. BURTON
EN	BC05H-00144	R. BURTON
EO	BC05H-00145	R. BURTON
EP	BC05H-00146	R. BURTON
EQ	BC05H-00147	R. BURTON
ER	BC05H-00148	R. BURTON
ES	BC05H-00149	R. BURTON
ET	BC05H-00150	R. BURTON
EU	BC05H-00151	R. BURTON
EV	BC05H-00152	R. BURTON
EW	BC05H-00153	R. BURTON
EX	BC05H-00154	R. BURTON
EY	BC05H-00155	R. BURTON
EZ	BC05H-00156	R. BURTON
FA	BC05H-00157	R. BURTON
FB	BC05H-00158	R. BURTON
FC	BC05H-00159	R. BURTON
FD	BC05H-00160	R. BURTON
FE	BC05H-00161	R. BURTON
FF	BC05H-00162	R. BURTON
FG	BC05H-00163	R. BURTON
FH	BC05H-00164	R. BURTON
FI	BC05H-00165	R. BURTON
FJ	BC05H-00166	R. BURTON
FK	BC05H-00167	R. BURTON
FL	BC05H-00168	R. BURTON
FM	BC05H-00169	R. BURTON
FN	BC05H-00170	R. BURTON
FO	BC05H-00171	R. BURTON
FP	BC05H-00172	R. BURTON
FQ	BC05H-00173	R. BURTON
FR	BC05H-00174	R. BURTON
FS	BC05H-00175	R. BURTON
FT	BC05H-00176	R. BURTON
FU	BC05H-00177	R. BURTON
FV	BC05H-00178	R. BURTON
FW	BC05H-00179	R. BURTON
FX	BC05H-00180	R. BURTON
FY	BC05H-00181	R. BURTON
FZ	BC05H-00182	R. BURTON
GA	BC05H-00183	R. BURTON
GB	BC05H-00184	R. BURTON
GC	BC05H-00185	R. BURTON
GD	BC05H-00186	R. BURTON
GE	BC05H-00187	R. BURTON
GF	BC05H-00188	R. BURTON
GG	BC05H-00189	R. BURTON
GH	BC05H-00190	R. BURTON
GI	BC05H-00191	R. BURTON
GJ	BC05H-00192	R. BURTON
GK	BC05H-00193	R. BURTON
GL	BC05H-00194	R. BURTON
GM	BC05H-00195	R. BURTON
GN	BC05H-00196	R. BURTON
GO	BC05H-00197	R. BURTON
GP	BC05H-00198	R. BURTON
GQ	BC05H-00199	R. BURTON
GR	BC05H-00200	R. BURTON
GS	BC05H-00201	R. BURTON
GT	BC05H-00202	R. BURTON
GU	BC05H-00203	R. BURTON
GV	BC05H-00204	R. BURTON
GW	BC05H-00205	R. BURTON
GX	BC05H-00206	R. BURTON
GY	BC05H-00207	R. BURTON
GA	BC05H-00208	R. BURTON
GB	BC05H-00209	R. BURTON
GC	BC05H-00210	R. BURTON
GD	BC05H-00211	R. BURTON
GE	BC05H-00212	R. BURTON
GF	BC05H-00213	R. BURTON
GG	BC05H-00214	R. BURTON
GH	BC05H-00215	R. BURTON
GI	BC05H-00216	R. BURTON
GJ	BC05H-00217	R. BURTON
GK	BC05H-00218	R. BURTON
GL	BC05H-00219	R. BURTON
GM	BC05H-00220	R. BURTON
GN	BC05H-00221	R. BURTON
GO	BC05H-00222	R. BURTON
GP	BC05H-00223	R. BURTON
GQ	BC05H-00224	R. BURTON
GR	BC05H-00225	R. BURTON
GS	BC05H-00226	R. BURTON
GT	BC05H-00227	R. BURTON
GU	BC05H-00228	R. BURTON
GV	BC05H-00229	R. BURTON
GW	BC05H-00230	R. BURTON
GX	BC05H-00231	R. BURTON
GY	BC05H-00232	R. BURTON
GA	BC05H-00233	R. BURTON
GB	BC05H-00234	R. BURTON
GC	BC05H-00235	R. BURTON
GD	BC05H-00236	R. BURTON
GE	BC05H-00237	R. BURTON
GF	BC05H-00238	R. BURTON
GG	BC05H-00239	R. BURTON
GH	BC05H-00240	R. BURTON
GI	BC05H-00241	R. BURTON
GJ	BC05H-00242	R. BURTON
GK	BC05H-00243	R. BURTON
GL	BC05H-00244	R. BURTON
GM	BC05H-00245	R. BURTON
GN	BC05H-00246	R. BURTON
GO	BC05H-00247	R. BURTON
GP	BC05H-00248	R. BURTON
GQ	BC05H-00249	R. BURTON
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GS	BC05H-00251	R. BURTON
GT	BC05H-00252	R. BURTON
GU	BC05H-00253	R. BURTON
GV	BC05H-00254	R. BURTON
GW	BC05H-00255	R. BURTON
GX	BC05H-00256	R. BURTON
GY	BC05H-00257	R. BURTON
GA	BC05H-00258	R. BURTON
GB	BC05H-00259	R. BURTON
GC	BC05H-00260	R. BURTON
GD	BC05H-00261	R. BURTON
GE	BC05H-00262	R. BURTON
GF	BC05H-00263	R. BURTON
GG	BC05H-00264	R. BURTON
GH	BC05H-00265	R. BURTON
GI	BC05H-00266	R. BURTON
GJ	BC05H-00267	R. BURTON
GK	BC05H-00268	R. BURTON
GL	BC05H-00269	R. BURTON
GM	BC05H-00270	R. BURTON
GN	BC05H-00271	R. BURTON
GO	BC05H-00272	R. BURTON
GP	BC05H-00273	R. BURTON
GQ	BC05H-00274	R. BURTON
GR	BC05H-00275	R. BURTON
GS	BC05H-00276	R. BURTON
GT	BC05H-00277	R. BURTON
GU	BC05H-00278	R. BURTON
GV	BC05H-00279	R. BURTON
GW	BC05H-00280	R. BURTON
GX	BC05H-00281	R. BURTON
GY	BC05H-00282	R. BURTON
GA	BC05H-00283	R. BURTON
GB	BC05H-00284	R. BURTON
GC	BC05H-00285	R. BURTON
GD	BC05H-00286	R. BURTON
GE	BC05H-00287	R. BURTON
GF	BC05H-00288	R. BURTON
GG	BC05H-00289	R. BURTON
GH	BC05H-00290	R. BURTON
GI	BC05H-00291	R. BURTON
GJ	BC05H-00292	R. BURTON
GK	BC05H-00293	R. BURTON
GL	BC05H-00294	R. BURTON
GM	BC05H-00295	R. BURTON
GN	BC05H-00296	R. BURTON
GO	BC05H-00297	R. BURTON
GP	BC05H-00298	R. BURTON
GQ	BC05H-00299	R. BURTON
GR	BC05H-00300	R. BURTON
GS	BC05H-00301	R. BURTON
GT	BC05H-00302	R. BURTON
GU	BC05H-00303	R. BURTON
GV	BC05H-00304	R. BURTON
GW	BC05H-00305	R. BURTON
GX	BC05H-00306	R. BURTON
GY	BC05H-00307	R. BURTON
GA	BC05H-00308	R. BURTON
GB	BC05H-00309	R. BURTON
GC	BC05H-00310	R. BURTON
GD	BC05H-00311	R. BURTON
GE	BC05H-00312	R. BURTON

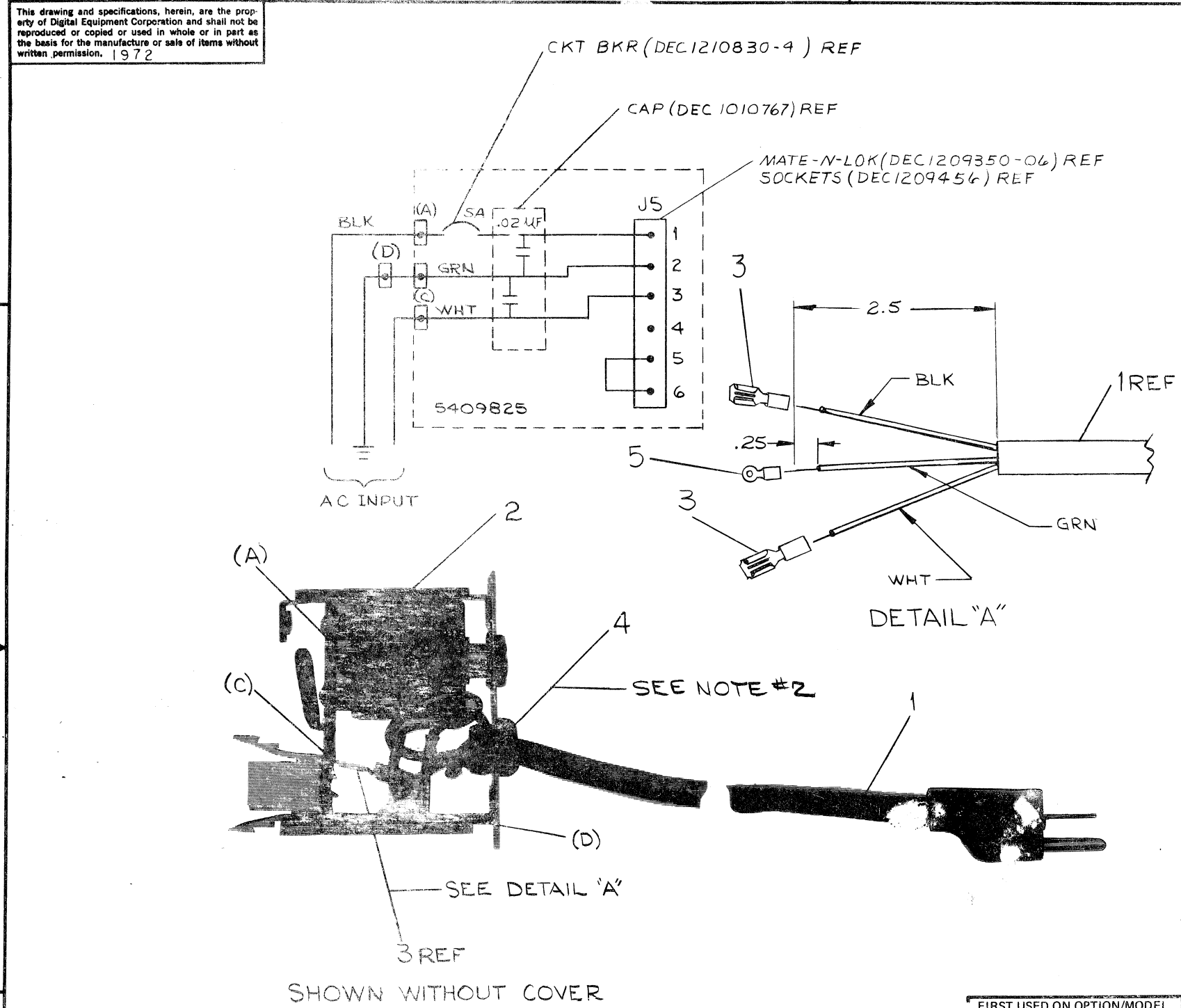
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D

C

B

A



NOTES:

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

D

C

REV.

NUMBER

BC05J-0-0

SIZE CODE

C UA

B

A

1	SOLDER CONN ARKLESS	9007929-0	5
1	GROMMET HEYCO SR-6N3-4	9008492-2	4
2	SOLDER CONN ARKLESS	9007919	3
1	AC INPUT BOX H400B	DUA-H400-0-0	2
1	POWER CORD 240V	1700016-6	1

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES					
DECIMALS		ANGLES			
.XXX = .005		±0° 30'			
.XX = .02					
.X = .1					
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓					
MATERIAL		NEXT HIGHER ASSY.			
FINISH		SCALE			
		SHEET OF			
		DIST.			
PARTS LIST					
DRN	T. Guillen	DATE	12-27-71		
CHKD	J. Fontana	DATE	1-8-72		
ENG.	David De Momi	DATE	1-7-72		
PROJ. ENG.	R. K. Peterson	DATE	1-7-72		
PROD.	R. K. Peterson	DATE	1-7-72		
TITLE					
LINE SET					
230V AC 4 AMP					
SIZE CODE		NUMBER		REV.	
C UA		BC05J-0-0		0	

REV.	CHANGE NO.	REV.
A	BC05J-00001	A
B	BC05J-00002	B
C	BC05J-00002	C
D	BC05J-00003	D
E	BC05J-00003	E
F	BC05J-00003	F
G	BC05J-00003	G
H	BC05J-00003	H
I	BC05J-00003	I
J	BC05J-00003	J
K	BC05J-00003	K
L	BC05J-00003	L
M	BC05J-00003	M
N	BC05J-00003	N
O	BC05J-00003	O
P	BC05J-00003	P
Q	BC05J-00003	Q
R	BC05J-00003	R
S	BC05J-00003	S
T	BC05J-00003	T
U	BC05J-00003	U
V	BC05J-00003	V
W	BC05J-00003	W
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Y	BC05J-00003	Y
Z	BC05J-00003	Z

4

3

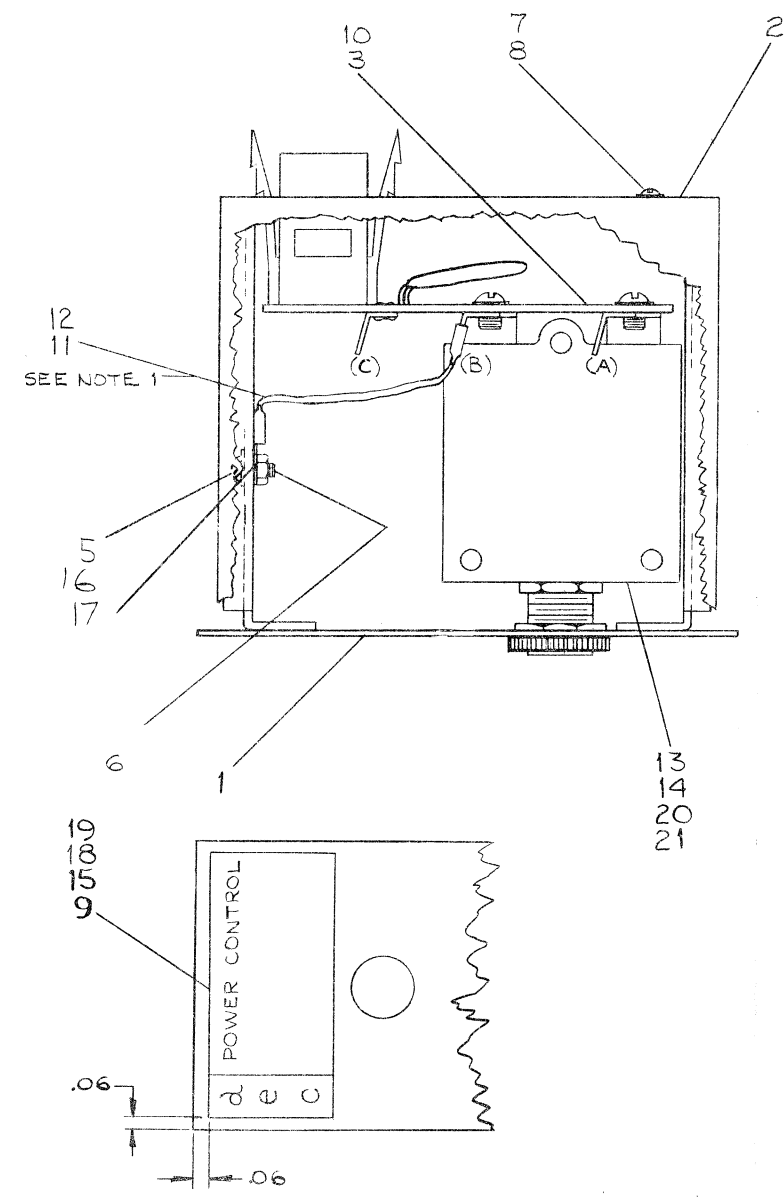
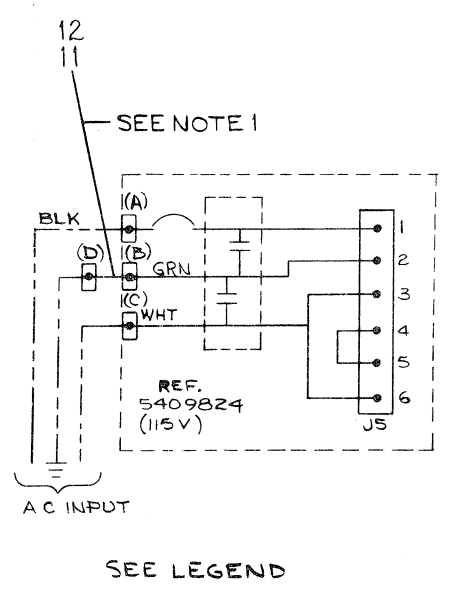
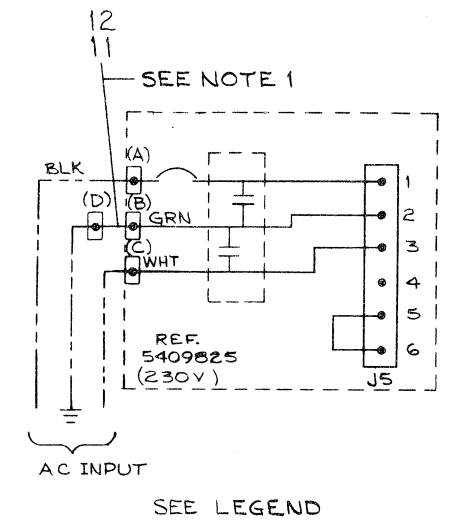
2

1

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LEGEND		
NUMBER	VARIATION	USED ON
H400-A	115 VAC 7 AMP	BC05H
H400-B	230 VAC 4 AMP	BC05J
H400-C	115 VAC 10 AMP	BC05T
H400-D	230 VAC 5 AMP	BC05U

NOTES:
1. ITEM #11 (WIRE) AND TWO OF ITEM #12 (FASTON TABS) ARE TO BE CONNECTED FROM POINT D TO POINT B.



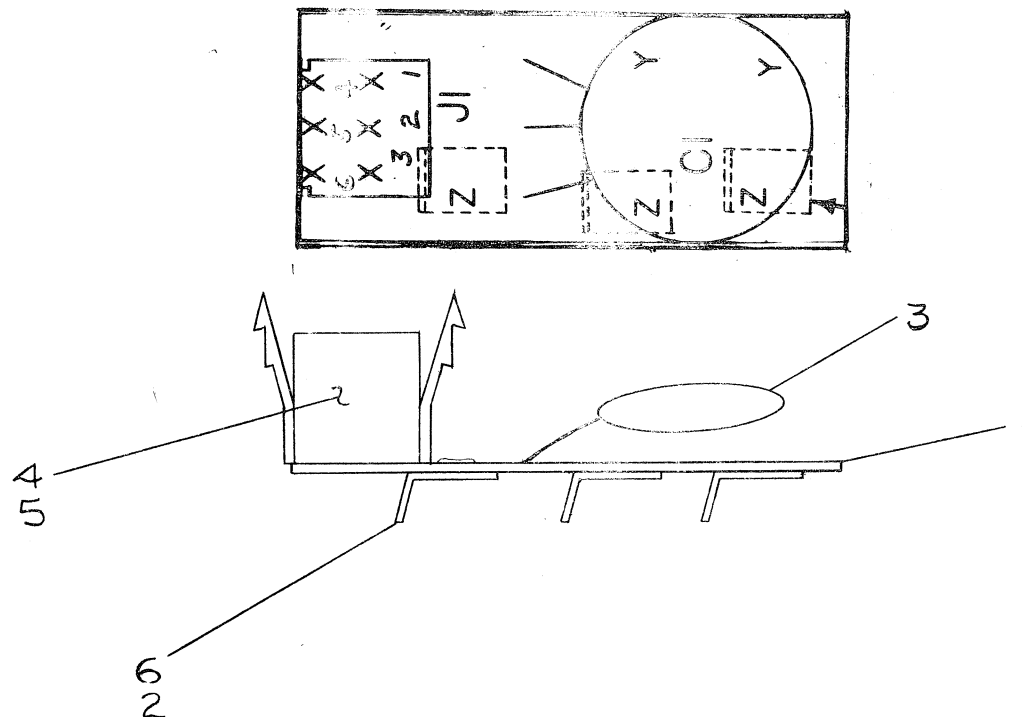
REV.	CHANGE NO.	REV.
1	H400-00002	A
2	H400-00003	B
3	H400-00004	C
4	H400-00005	D
5	H400-00006	E
6	H400-00007	F
7	H400-00008	G
8	H400-00009	H
9	H400-00010	I
10	H400-00011	J
11	H400-00012	K
12	H400-00013	L
13	H400-00014	M
14	H400-00015	N
15	H400-00016	O
16	H400-00017	P
17	H400-00018	Q
18	H400-00019	R
19	H400-00020	S
20	H400-00021	T
21	H400-00022	U
22	H400-00023	V
23	H400-00024	W
24	H400-00025	X
25	H400-00026	Y
26	H400-00027	Z
27	H400-00028	AA
28	H400-00029	AB
29	H400-00030	AC
30	H400-00031	AD
31	H400-00032	AE
32	H400-00033	AF
33	H400-00034	AG
34	H400-00035	AH
35	H400-00036	AI
36	H400-00037	AJ
37	H400-00038	AK
38	H400-00039	AL
39	H400-00040	AM
40	H400-00041	AN
41	H400-00042	AO
42	H400-00043	AP
43	H400-00044	AQ
44	H400-00045	AR
45	H400-00046	AS
46	H400-00047	AT
47	H400-00048	AU
48	H400-00049	AV
49	H400-00050	AW
50	H400-00051	AX
51	H400-00052	AY
52	H400-00053	AZ
53	H400-00054	BA
54	H400-00055	BB
55	H400-00056	BC
56	H400-00057	BD
57	H400-00058	BE
58	H400-00059	BF
59	H400-00060	BG
60	H400-00061	BH
61	H400-00062	BI
62	H400-00063	BJ
63	H400-00064	BK
64	H400-00065	BL
65	H400-00066	BM
66	H400-00067	BN
67	H400-00068	BO
68	H400-00069	BP
69	H400-00070	BQ
70	H400-00071	BR
71	H400-00072	BS
72	H400-00073	BT
73	H400-00074	BU
74	H400-00075	BV
75	H400-00076	BW
76	H400-00077	BX
77	H400-00078	BY
78	H400-00079	BZ
79	H400-00080	CA
80	H400-00081	CB
81	H400-00082	CC
82	H400-00083	CD
83	H400-00084	CE
84	H400-00085	CF
85	H400-00086	CG
86	H400-00087	CH
87	H400-00088	CI
88	H400-00089	CJ
89	H400-00090	CK
90	H400-00091	CL
91	H400-00092	CM
92	H400-00093	CN
93	H400-00094	CO
94	H400-00095	CP
95	H400-00096	CQ
96	H400-00097	CR
97	H400-00098	CS
98	H400-00099	CT
99	H400-00100	CU
100	H400-00101	CV
101	H400-00102	CW
102	H400-00103	CX
103	H400-00104	CY
104	H400-00105	CZ
105	H400-00106	DA
106	H400-00107	DB
107	H400-00108	DC
108	H400-00109	DD
109	H400-00110	DE
110	H400-00111	DF
111	H400-00112	DG
112	H400-00113	DH
113	H400-00114	DI
114	H400-00115	DJ
115	H400-00116	DK
116	H400-00117	DL
117	H400-00118	DM
118	H400-00119	DN
119	H400-00120	DO
120	H400-00121	DP
121	H400-00122	DQ
122	H400-00123	DR
123	H400-00124	DS
124	H400-00125	DT
125	H400-00126	DU
126	H400-00127	DV
127	H400-00128	DW
128	H400-00129	DX
129	H400-00130	DY
130	H400-00131	DZ
131	H400-00132	EA
132	H400-00133	EB
133	H400-00134	EC
134	H400-00135	ED
135	H400-00136	EE
136	H400-00137	EF
137	H400-00138	EG
138	H400-00139	EH
139	H400-00140	EI
140	H400-00141	EJ
141	H400-00142	EK
142	H400-00143	EL
143	H400-00144	EM
144	H400-00145	EN
145	H400-00146	EO
146	H400-00147	EP
147	H400-00148	EQ
148	H400-00149	ER
149	H400-00150	ES
150	H400-00151	ET
151	H400-00152	EU
152	H400-00153	EV
153	H400-00154	EW
154	H400-00155	EX
155	H400-00156	EY
156	H400-00157	EZ
157	H400-00158	FA
158	H400-00159	FB
159	H400-00160	FC
160	H400-00161	FD
161	H400-00162	FE
162	H400-00163	FF
163	H400-00164	FG
164	H400-00165	FH
165	H400-00166	FI
166	H400-00167	FJ
167	H400-00168	FK
168	H400-00169	FL
169	H400-00170	FM
170	H400-00171	FN
171	H400-00172	FO
172	H400-00173	FP
173	H400-00174	FQ
174	H400-00175	FR
175	H400-00176	FS
176	H400-00177	FT
177	H400-00178	FU
178	H400-00179	FV
179	H400-00180	FW
180	H400-00181	FX
181	H400-00182	FY
182	H400-00183	FZ
183	H400-00184	GA
184	H400-00185	GB
185	H400-00186	GC
186	H400-00187	GD
187	H400-00188	GE
188	H400-00189	GF
189	H400-00190	GG
190	H400-00191	GH
191	H400-00192	GI
192	H400-00193	GJ
193	H400-00194	GK
194	H400-00195	GL
195	H400-00196	GM
196	H400-00197	GN
197	H400-00198	GO
198	H400-00199	GP
199	H400-00200	GQ
200	H400-00201	GR
201	H400-00202	GS
202	H400-00203	GT
203	H400-00204	GU
204	H400-00205	GV
205	H400-00206	GW
206	H400-00207	GX
207	H400-00208	GY
208	H400-00209	GZ
209	H400-00210	HA
210	H400-00211	HB
211	H400-00212	HC
212	H400-00213	HD
213	H400-00214	HE
214	H400-00215	HF
215	H400-00216	HG
216	H400-00217	HH
217	H400-00218	HI
218	H400-00219	HJ
219	H400-00220	HK
220	H400-00221	HL
221	H400-00222	HM
222	H400-00223	HN
223	H400-00224	HO
224	H400-00225	HP
225	H400-00226	HQ
226	H400-00227	HR
227	H400-00228	HS
228	H400-00229	HT
229	H400-00230	HU
230	H400-00231	HV
231	H400-00232	HW
232	H400-00233	HX
233	H400-00234	HY
234	H400-00235	HZ
235	H400-00236	IA
236	H400-00237	IB
237	H400-00238	IC
238	H400-00239	ID
239	H400-00240	IE
240	H400-00241	IF
241	H400-00242	IG
242	H400-00243	IH
243	H400-00244	II
244	H400-00245	IJ
245	H400-00246	IK
246	H400-00247	IL
247	H400-00248	IM
248	H400-00249	IN
249	H400-00250	IO
250	H400-00251	IP
251	H400-00252	IQ
252	H400-00253	IR
253	H400-00254	IS
254	H400-00255	IT
255	H400-00256	IU
256	H400-00257	IV
257	H400-00258	IW
258	H400-00259	IX
259	H400-00260	IY
260	H400-00261	IZ
261	H400-00262	JA
262	H400-00263	JB
263	H400-00264	JC
264	H400-00265	JD
265	H400-00266	JE
266	H400-00267	JF
267	H400-00268	JG
268	H400-00269	JH
269	H400-00270	JI
270	H400-00271	JJ
271	H400-00272	JK
272	H400-00273	JL
273	H400-00274	JM
274	H400-00275	JN
275	H400-00276	JO
276	H400-00277	JP
277	H400-00278	JQ
278	H400-00279	JR
279	H400-00280	JS
280	H400-00281	JT
281	H400-00282	JU
282	H400-00283	JV
283	H400-00284	JW
284	H400-00285	JX
285	H400-00286	JY
286	H400-00287	JZ
287	H400-00288	KA
288	H400-00289	KB
289	H400-00290	KC
290	H400-00291	KD
291	H400-00292	KE
292	H400-00293	KF
293	H400-00294	KG
294	H400-00295	KH
295	H400-00296	KI
296	H400-00297	KJ
297	H400-00298	KK
298	H400-00299	KL
299	H400-00300	KM
300	H400-00301	KN
301	H400-00302	KO
302	H400-00303	KP
303	H400-00304	KQ
304	H400-00305	KR
305	H400-00306	KS
306	H400-00307	KT
307	H400-00308	KU
308	H400-00309	KV
309	H400-00310	KW
310	H400-00311	KX
311	H400-00312	KY
312	H400-00313	KZ
313	H400-00314	LA
314	H400-00315	LB
315	H400-00316	LC
316	H400-00317	LD
317	H400-00318	LE
318	H400-00319	LF
319	H400-00320	LG
320	H400-00321	LH
321	H400-00322	LI
322	H400-00323	LJ
323	H400-00324	LK
324	H400-00325	LL
325	H400-00326	LM
326	H400-00327	LN
327	H400-00328	LO
328	H400-00329	LP
329	H400-00330	LQ
330	H400-00331	LR
331	H400-00332	LS
332	H400-00333	LT
333	H400-00334	LU
334	H400-00335	LV
335	H400-00336	LW
336	H400-00337	LX
337	H400-00338	LY
338	H400-00339	LZ
339	H400-00340	MA
340	H400-00341	MB
341	H400-00342	MC
342	H400-00343	MD
343	H400-00344	ME
344	H400-00345	MF
345	H400-00346	MG
346	H400-00347	MH
347	H400-00348	MI
348	H400-00349	MJ
349	H400-00350	MK
350	H400-00351	ML
351	H400-00352	MM
352	H400-00353	MN
353	H400-00354	MO
354	H400-00355	MP
355	H400-00356	MQ
356	H400-00357	MR
357	H400-00358	MS
358	H400-00359	MT

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS					QUANTITY / VARIATION														
PARTS LIST																			
MADE BY TYRONE QUILLIN		CHECKED <i>[Signature]</i>		SECTION															
DATE 12-1-71		DATE 1-4-72		1															
ENG <i>David DeHoyos</i>		PROD <i>R.K. Peterson</i>		ISSUED SECT.															
DATE 1-4-72		DATE 1/7/72		1															
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION			H400-A (115V)	H400-B (230V)	H400-C (115V)	H400-D (230V)											
1	D-IA-5309845-0-0	BOX			1	1	1	1											
2	C-MD-5309849-0-0	COVER			1	1	1	1											
3	C-IA-5409825-0-0	POWER CONTROL BOARD (230V)			-	1	-	1											
4	9007113	DOUBLE FASTAB			1	1	-	-											
5	9006011-1	SCR PHL PAN HD #4-40 x 3/8 LG			1	1	1	1											
6	9006557	KEP NUT HEX HD #4-40			1	1	1	1											
7	9006633	WASHER INT. #6			1	1	1	1											
8	9006020-1	SCR PHL PAN HD #6-32 x 1/4 LG			1	1	1	1											
9	A-DC-5309899-0-0	PWR CONTROL DECAL 115V			1	-	-	-											
10	C-IA-5409824-0-0	POWER CONTROL BOARD (115V)			1	-	1	-											
11	9107360-55	#18 AWG STRD TEF INS (GRN 3 IN. LG)			1	1	1	1											
12	9007917	FASTON TABS			1	1	1	1											
13	1210830-4	CRK BREAKER (WOOD 4 AMP)			-	1	-	-											
14	1210830-7	CRK BREAKER (WOOD 7 AMP)			1	-	-	-											
15	A-DC-5309900-0-0	PWR CONTROL DECAL (230V)			-	1	-	-											
16	9006632	WASHER # 4 INTERNAL TOOTH			1	1	1	1											
17	9007929-01	CRIMP-ON EYELET			1	1	1	1											
18	A-DC-7410727-0-0	PWR CONT DECAL			-	-	1	-											
19	A-DC-7410726-0-0	PWR CONT DECAL			-	-	-	1											
20	1210830-5	CKT BREAKER (WOOD 5 AMP)			-	-	-	1											
21	1210830-10	CKT BREAKER (WOOD 10 AMP)			-	-	1	-											
TITLE		ASSY NO.		SIZE	CODE	NUMBER				REV.	ECO NO.								
AC INPUT BOX ASS'Y		D-UA-H400-0-0		A	PL	H400-0-0				E	H400-00007								
SHEET 1 OF 1		DIST.																	

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NOTES:

- FOR CIRCUIT SCHEMATIC REFER TO DWG D-UA-H400-0-0
- ETCHED BOARD 445009821 MUST BE U.L. APPROVED. MANUFACTURER'S U.L. NUMBER LOCATION IS SHOWN ON A4 DRAWING.



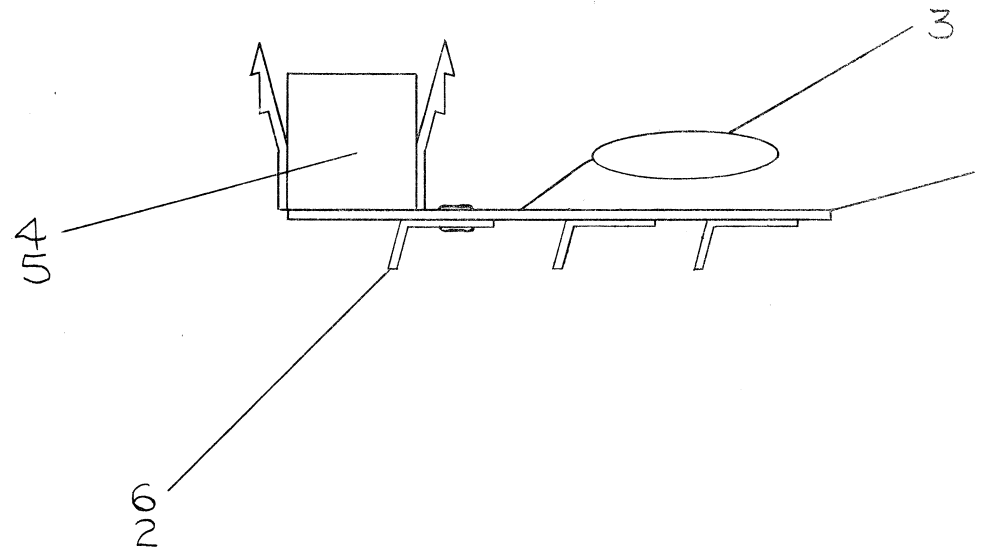
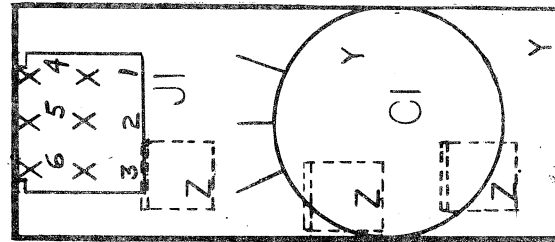
REV.	CHANGE NO.	REVISIONS
A	5409824-00001	8/1/72 R. WOLF
B	5409824-00002	5/22/72 R. BURTON
C	5409824-00003	10-24-73 R. WOLF

QTY.	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
3		ASSY/DRILLING HOLE LAYOUT	D-AH-5409824-05	REF
6		FASTON TAB	9008219	6
1	J1	P.C. SOCKETS FEMALE	1209456	5
1	C1	MATE-N-LOCK 6-PIN	1209350-06	4
3		CAP INPUT .02MF	1010767	3
		EYELET # GS4-5	9009000	2
		ETCHED CIRCUIT BD	5009821	1
		MODULE ECO HISTORY	5409824-05	REF
		X-Y COORDINATE HOLE LOCATION	5409824-05	REF
FIRST USED ON OPTION/MODEL				
H400 A				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES				
DECIMALS	ANGLES	DRN.	DATE	DATE
.XXX = .005	±0° 30'	DRN.	12-8-71	1-4-72
.XX = .02		ENG.	1-4-72	1-4-72
.X = .1		PROJ. ENG.	1-6-72	1-6-72
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD.	1-7-72	1-7-72
MATERIAL		NEXT HIGHER ASSY.		
FINISH		C-UA-H400-0-0		
		SCALE	SHEET	OF
		1	1	1
		TITLE		
		POWER CONTROL BOARD (115V)		
		SIZE CODE	NUMBER	REV.
		C IA	5409824-0-0	C
		DIST.	6	1

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NOTES:

1. FOR CIRCUIT SCHEMATIC REFER TO DWG D-UA-H400-0-0.
2. ETCHED BOARD # 5009822 MUST BE U.L. APPROVED. MANUFACTURER'S U.L. NUMBER LOCATION IS SHOWN ON AH DRAWING.



QTY.	REF.	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
		ASSY/DRILLING HOLE LAYOUT	D-AH-5409825-0-5	REF	
3		FASTON TAB	9008219	6	
6		P.C. SOCKETS MALE	1209456	5	
1	J1	6-PIN MATE-N-LOCK	1209350-06	4	
1	C1	CAP. INPUT .02UF	1010767	3	
3		EYELET #G54-5	9009000	2	
1		ETCHED CIRCUIT BOARD	5009822	1	
		MODULE ECO HISTORY	B-MH-5409825-0-6	REF	
		X-Y COORDINATE HOLE LOCATION	KC0-5409825-0-4	REF	

FIRST USED ON OPTION/MODEL		H400B		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DATE 12-9-71	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
DECIMALS .XXX = .005 .XX = .02 .X = .1	ANGLES EQ 30°	DATE 1-4-72	TITLE POWER CONTROL BOARD (230V)		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		DATE 1-7-72	REV. B		
MATERIAL		DATE 1-7-72	REV. B		
FINISH		DATE	REV. B		
NEXT HIGHER ASSY.		DATE	REV. B		
SCALE		DATE	REV. B		
SHEET 1 OF 1		DATE	REV. B		
DIST.		DATE	REV. B		
C IA 5409825-0-0		DATE	REV. B		

REV.	CHANGE NO.	REV.
A	5409825-00001	A
B	5409825-00002	B
C	5409825-00003	C
D	5409825-00004	D
E	5409825-00005	E
F	5409825-00006	F
G	5409825-00007	G
H	5409825-00008	H
I	5409825-00009	I
J	5409825-00010	J
K	5409825-00011	K
L	5409825-00012	L
M	5409825-00013	M
N	5409825-00014	N
O	5409825-00015	O
P	5409825-00016	P
Q	5409825-00017	Q
R	5409825-00018	R
S	5409825-00019	S
T	5409825-00020	T
U	5409825-00021	U
V	5409825-00022	V
W	5409825-00023	W
X	5409825-00024	X
Y	5409825-00025	Y
Z	5409825-00026	Z

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CKT BKR (DEC 1210830-10) REF

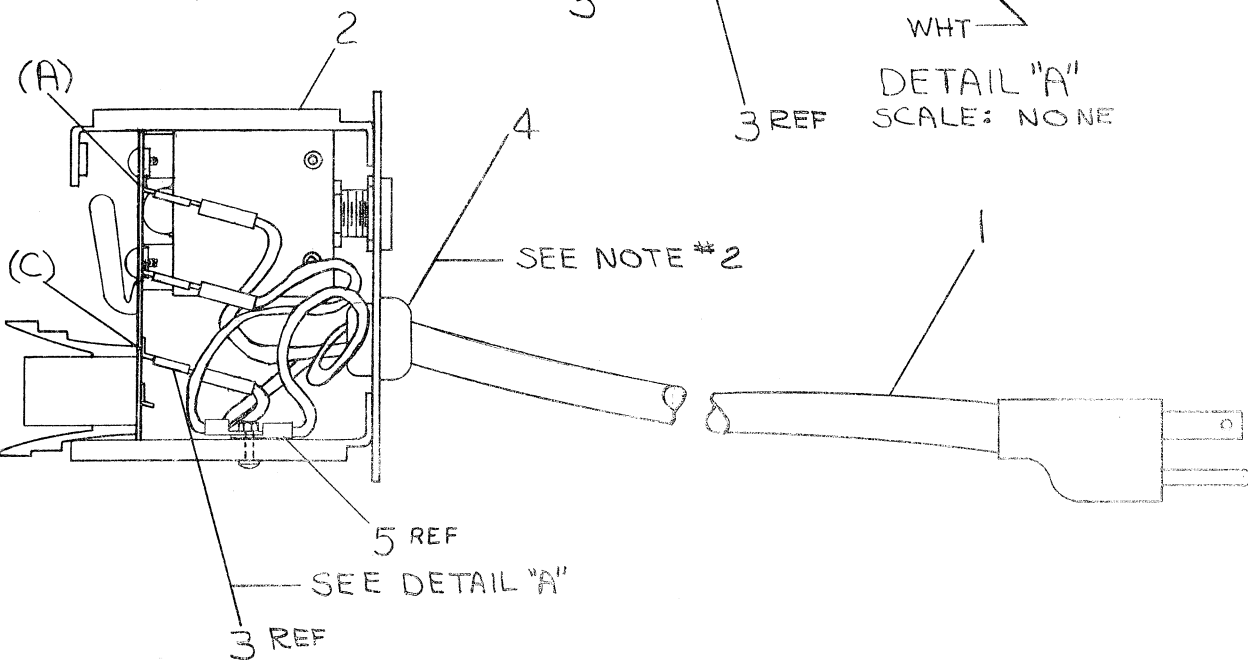
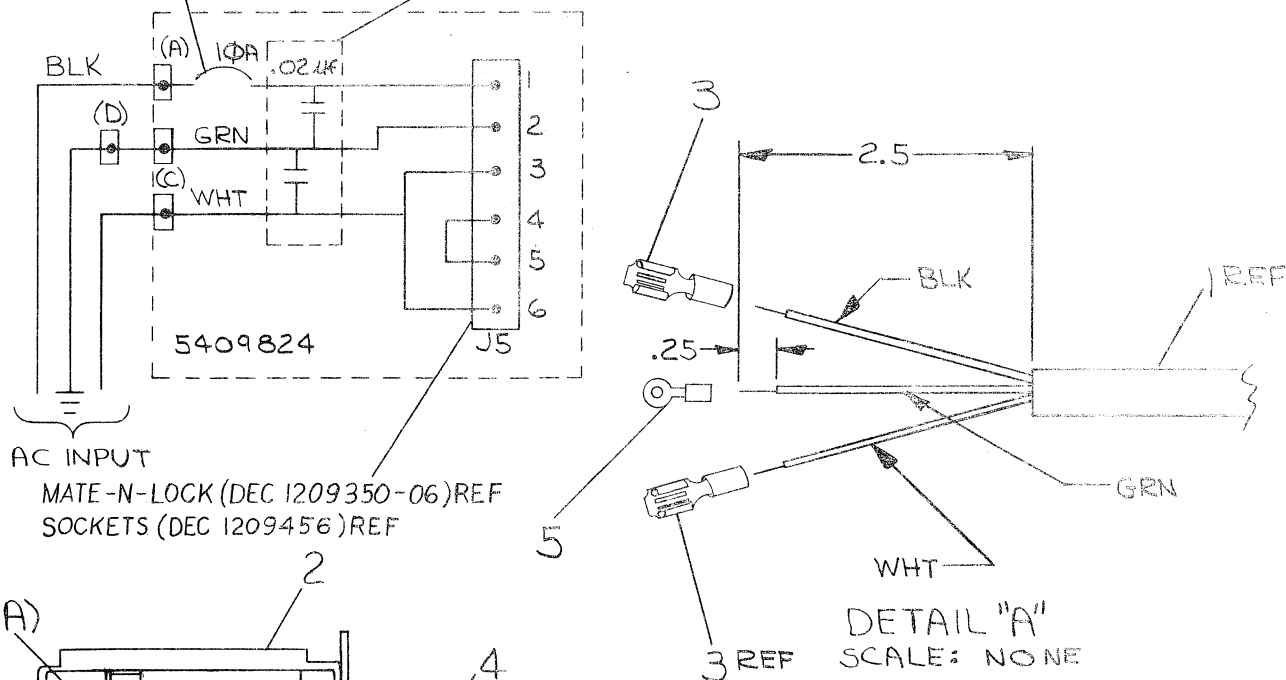
CAP (DEC 1010767-10) REF

LEGEND

NUMBER	VARIATION
BC05T-06	ITEM NO. 1
BC05T-09	1700015-6
	1700015-9

NOTES:

1. CONNECT ITEM#1 (POWER CORD) AND ITEM#2 (A.C. INPUT BOX) PER CIRCUIT SCHEMATIC.
2. FOR INSTALLATION USE HYCO#29 STRAIN RELIEF PLIERS.



SHOWN WITHOUT COVER

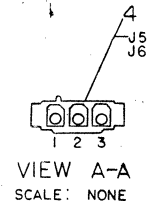
REV.	CHANGE NO.	REV.
A	BC05T-00001	A
B	BC05T-00002	B
C	BC05T-00003	C
D	BC05T-00004	D
E	BC05T-00005	E
F	BC05T-00006	F
G	BC05T-00007	G
H	BC05T-00008	H
I	BC05T-00009	I
J	BC05T-00010	J
K	BC05T-00011	K
L	BC05T-00012	L
M	BC05T-00013	M
N	BC05T-00014	N
O	BC05T-00015	O
P	BC05T-00016	P
Q	BC05T-00017	Q
R	BC05T-00018	R
S	BC05T-00019	S
T	BC05T-00020	T
U	BC05T-00021	U
V	BC05T-00022	V
W	BC05T-00023	W
X	BC05T-00024	X
Y	BC05T-00025	Y
Z	BC05T-00026	Z

FIRST USED ON OPTION/MODEL 11/35		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		TITLE LINE SET 115V A.C. 10AMP	
DECIMALS	ANGLES	DATE	DATE
.XXX = .005	± 9° 30'	11-21-72	11-21-72
.XX = .02		1-16-73	1-16-73
.X = .1		7-15-73	7-15-73
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	
MATERIAL		DATE	
FINISH		DATE	
NEXT HIGHER ASSY.		DATE	
E-AD-BALL-D-0		DATE	
SCALE NONE		DATE	
SHEET 1 OF 1		DATE	

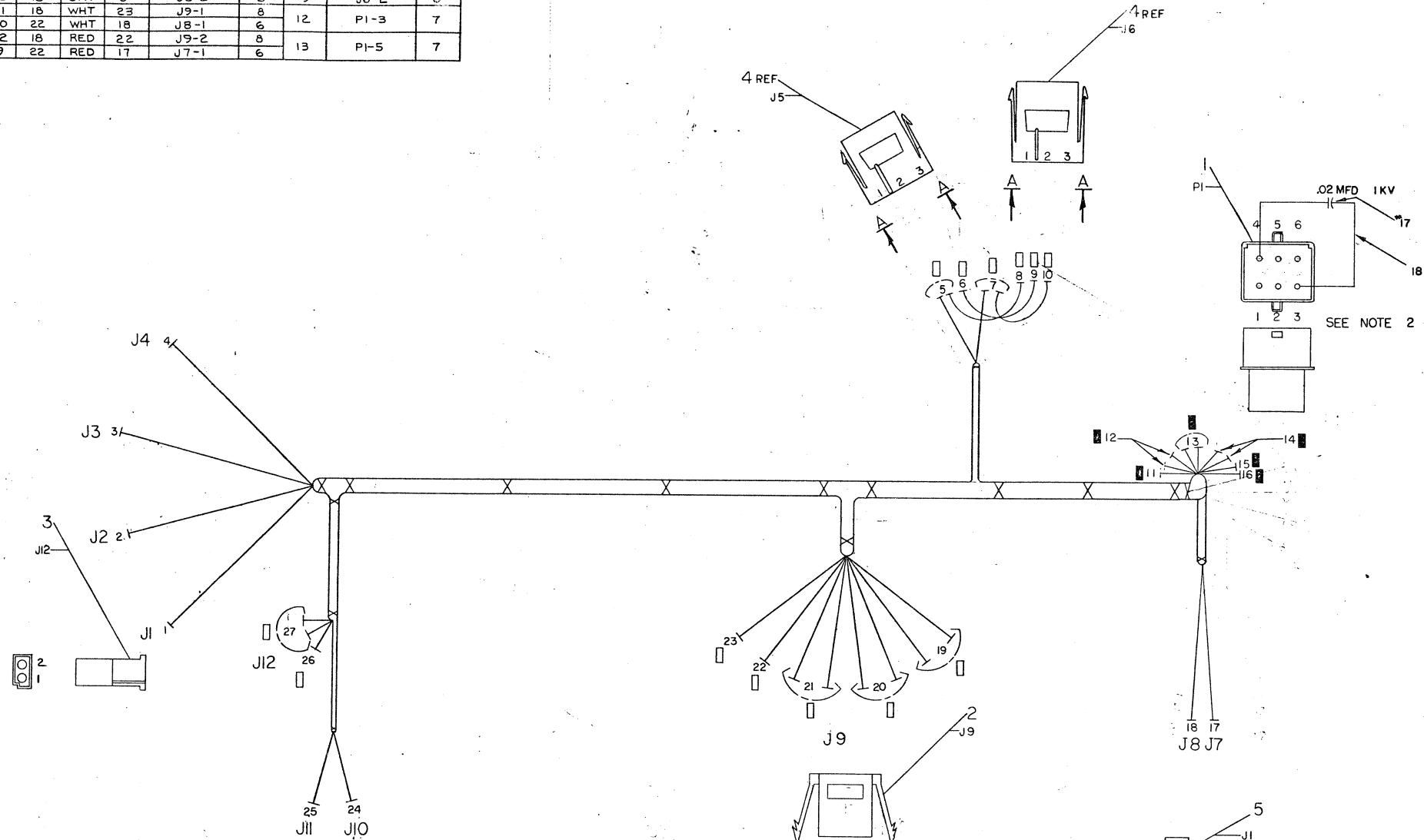
BRUNING 40-107 15968

115V A.C. 10AMP

WIRE TABLE									
ITEM	DESCRIPTION	FROM			TO				
NO.	AWG	COLOR	POINT	CONNECTION	TERM	POINT	CONNECTION	TERM	
9	22	RED	24	J10-1	8	19	J9-3	8	
12	18	RED	11	PI-6	7				
9	22	RED	25	J11-1	6	27	J12-2	8	
12	18	RED	20	J9-4	8				
12	18	RED	26	J12-1	8	16	PI-4	7	
12	18	RED	2	J2-1	6	15	PI-1	7	
13	18	VIO	3	J3-1	6				
13	18	VIO	8	J6-1	8	5	J5-1	8	
14	18	BLK	4	J4-1	6	21	J9-5	8	
14	18	BLK	14	PI-2	7				
14	18	BLK	10	J6-3	8	7	J5-3	9	
15	18	GRY	6	J5-2	8	9	J6-2	8	
11	18	WHT	23	J9-1	8	12	PI-3	7	
10	22	WHT	18	J8-1	6				
12	18	RED	22	J9-2	8				
9	22	RED	17	J7-1	6	13	PI-5	7	



- NOTES:
1. USE TIE WRAPS (ITEM #16) APPROXIMATELY EVERY THREE INCHES WHEN NECESSARY AND AT EVERY BREAKOUT POINT
 2. CAPACITOR SHOULD BE CRIMPED TOGETHER WITH PART 12 & 16. LEADS SHOULD BE INSULATED AND NOT LONGER THAN 1 INCH.



DO NOT REDUCE
SCALE
6 IN

A/R	TEFLON TUBING	9107278-01	18
1	CAP .02 MFD 1000V 20%	10-10767	17
X	A/R TIE WRAP, SST-H, PANDUIT	9007031	16
A/R	WIRE, #18 AWG	GRY 9107360-88	15
A/R	WIRE, #18 AWG	BLK 9107360-00	14
A/R	WIRE, #18 AWG	VIO 9107360-77	13
A/R	WIRE, #18 AWG	RED 9107360-22	12
A/R	WIRE, #18 AWG	WHT 9107360-99	11
A/R	WIRE, #22 AWG	WHT 9107350-99	10
A/R	WIRE, #22 AWG	RED 9107350-22	9
13	SOCKET, TERM. CONTACT	1209379-01	8
6	PIN, TERM. CONTACT	1209378-01	7
8	MINI-FASTABS #60291-1	1210820-2	6
8	HOUSING, 1-480417-0	1210820-1	5
2	CONN, MATE-N-LOCK, 3 PIN	1209350-03	4
1	CONN, MATE-N-LOCK, 2 PIN	1210821-2	3
1	CONN, MATE-N-LOCK, 6 PIN	1209350-06	2
1	CONN, MATE-N-LOCK, 6 PIN	1209351-06	1

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP-1105				

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DATE 4-8-72	
DECIMALS	ANGLES	DATE 4-8-72	DATE 4-8-72
xxx = .005	10° 30'	DATE 4-8-72	DATE 4-8-72
xx = .02		DATE 4-8-72	DATE 4-8-72
x = .3		DATE 4-8-72	DATE 4-8-72
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 4-8-72	
MATERIAL		DATE 4-8-72	
SEE PARTS LIST		DATE 4-8-72	
FINISH		DATE 4-8-72	

AC INPUT
HARNESS (PDP1105)

SIZE CODE NUMBER REV.
E 1A 7003713-0-0 1

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CORPORATION



NOTES:

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

1	SOLDER CONN.	9007927-0	5
1	STRAIN RELIEF 6N3-4	9008492-2	4
2	SOLDER CONN.	9007917	3
1	A.C. INPUT BOX H400D	H400-D	2
1	POWER CORD 240V	SEE LEGEND	1
QTY.	DESCRIPTION	PART NO.	ITEM NO.

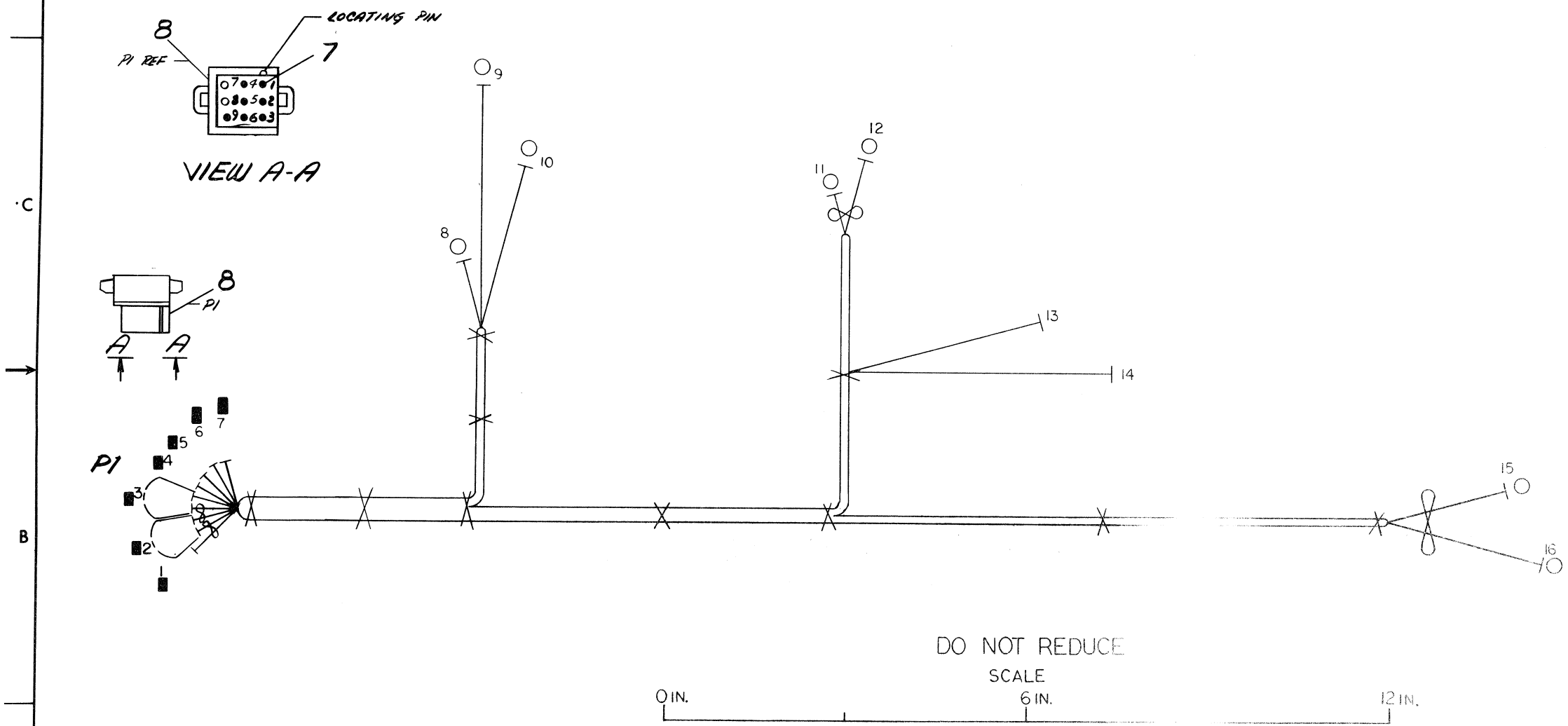
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION		PART NO.		ITEM NO.		
11/35		PARTS LIST							
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN. <i>K. Davis</i>	DATE 11-21-72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS					
		CHK'D <i>[Signature]</i>	DATE 12-5-72						
		ENG. <i>K. Davis</i>	DATE 1-16-73						
		PROJ. ENG. <i>K. Davis</i>	DATE 1-16-73						
		PROD. <i>[Signature]</i>	DATE 2-21-73						
DECIMALS		ANGLES		TITLE LINE SET 230V AC. 5 AMP					
.XXX = .005		± 0° 30'							
.XX = .02									
.X = .1									
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ☒									
MATERIAL <i>1-1-1</i>		NEXT HIGHER ASSY. E-AD-BALL-D-Ø			SIZE CODE C UA		NUMBER BCØ5U-Ø-Ø		REV. B
		SCALE NONE							
FINISH <i>1-1-1</i>		SHEET 1 OF 1			DIST.				

REVISIONS		
CHK	CHANGE NO.	REV.
PM	BC05U-00001	A
3. Blomquist 4-6-73		
C. BLASI		
CNR Blasi 4-13-73		
PM	BC05U-00002	B
Ernie A. 6-11-73		
C. BLASI		
CNR Blasi 6-15-73		

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WIRE TABLE									REMARKS
ITEM	DESCRIPTION		FROM			TO			
NO.	AWG	COLOR	POINT	CONNECTION	TERM	POINT	CONNECTION	TERM	
5	*18	BLU	1	PI-2	7	12	—	6	
	TWP	BLK	2	PI-2		11	—	1	
4	*18	BLK	2	PI-2		15	—		
	TWP	RED	3	PI-3		16	—		
3	*18	RED	3	PI-3		9	—		
1	*22	YEL	4	PI-1		10	—	1	
2	*22	VIO	5	PI-6		8	—	6	
10	*22	BRN	6	PI-4	1	14	—	12	
11	*22	ORN	7	PI-5	7	13	—	12	

NOTES:
1. USE CABLE TIES (X) ITEM #9 AS SHOWN AND AT BREAK OUT POINTS WHERE NECESSARY.



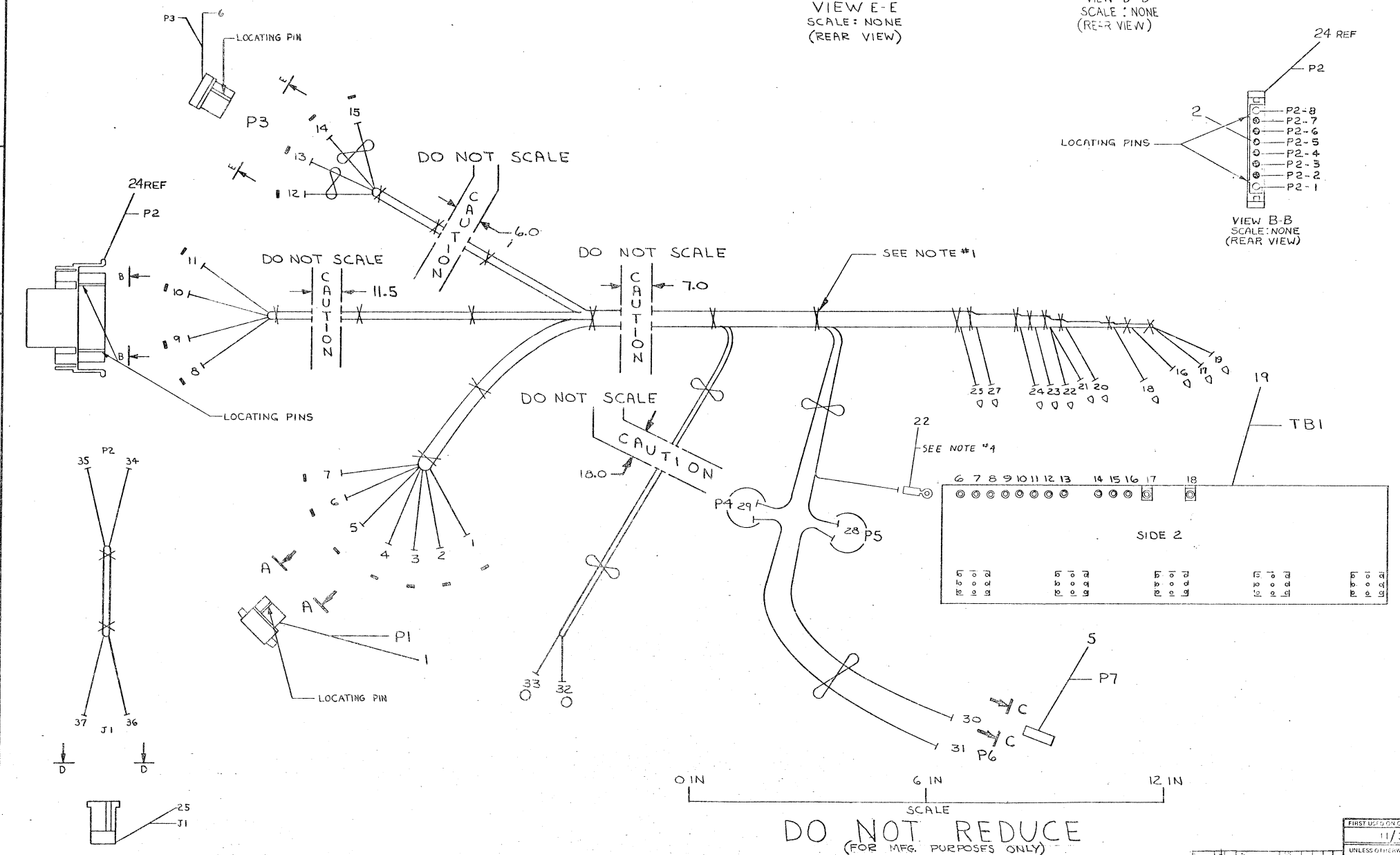
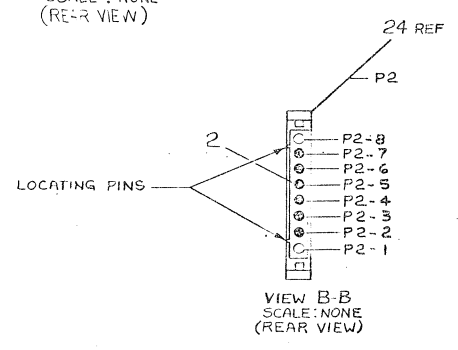
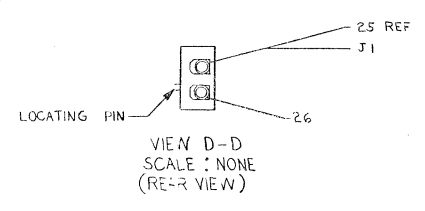
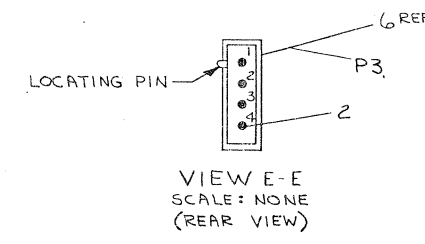
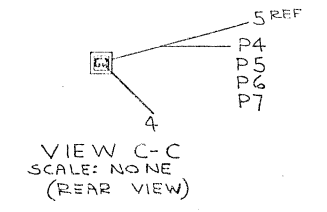
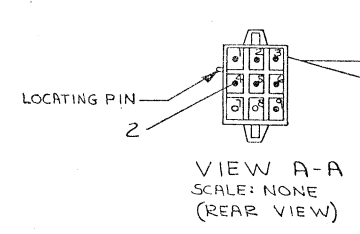
	2	1/8" MALL CMP 90552-3	9007555	1
	1/2	WIRE #18 AWG STD (BLU)	9107350-33	1
	1/2	WIRE #22 AWG STD (BRN)	9107350-11	10
X	A/R	TIE, CABLE BANDUIT SST 15M	9007880	9
PI	1	CONN., MATE-N-LOCK 4 PIN MALE	1209351-09	8
7	7	PIN, MATE-N-LOCK MALE	1209378-01	7
(7)	7	TERM, AMP TAB RED	9037217	6
	A/R	WIRE, #14 AWG STD IMP	9107150-05	5
	A/R	WIRE, #18 AWG STD RED	9107350-02	4
	A/R	WIRE, #10 AWG STD RED	9107350-22	3
	A/R	WIRE, #22 AWG STD VIO	9107350-77	2
	A/R	WIRE, #22 AWG STD YEL	9107350-44	1
QTY		DESCRIPTION	PART NO.	REV.

FIRST USED ON PDP 1105		PDP 1105	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		EQUIPMENT CORPORATION	
DECIMALS	ANGLES	TITLE	
XXX + .005 XX + .02 X + .1	10' 30'	HARNESS DC (PDP 1105)	
REMOVE BURNS AND BURRS FROM CORNERS. SURFACE QUALITY		DIA 7008856-0-0	
MATERIAL		NUMBER	
SEE PARTS LIST		REV.	
FINISH		SCALE 1/1	

REV	CHANGE NO.
CHK	

DEC FORM NO. DRD 100-A

WIRE TABLE with columns: NO, AWG, COLOR, POINT, FROM, CONN, ITEM, POINT, TO, CONN, ITEM, LENGTH, SIGNAL NAME. Includes notes like 'SEE NOTE #2' and 'COPYRIGHT © 1972 DIGITAL EQUIPMENT CORPORATION'.



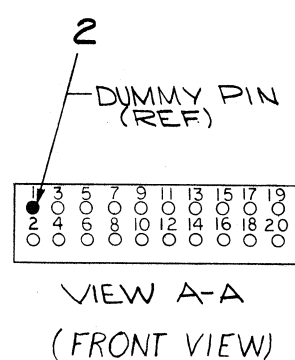
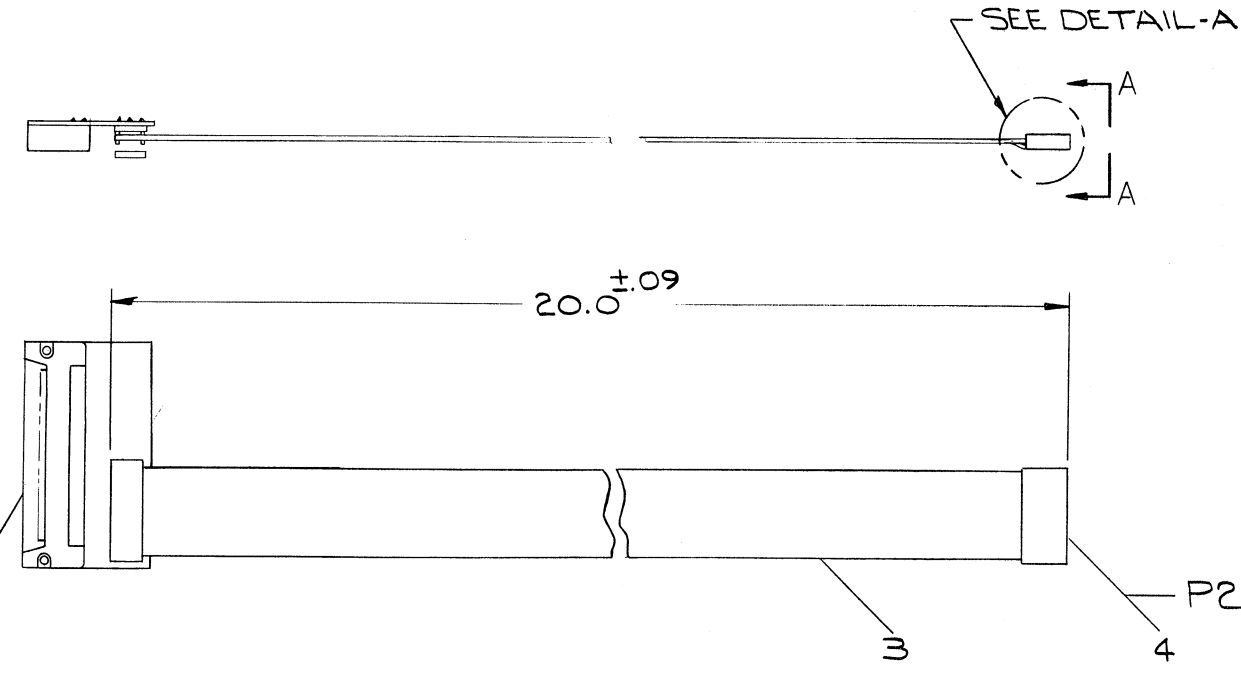
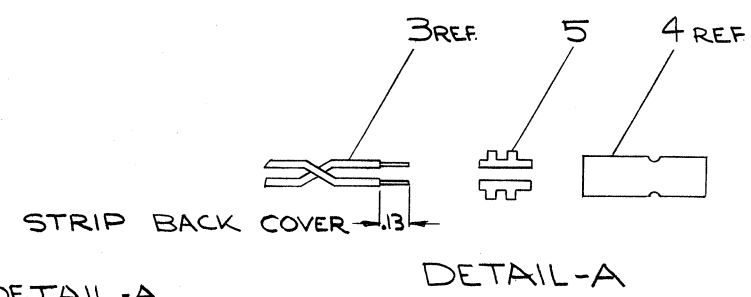
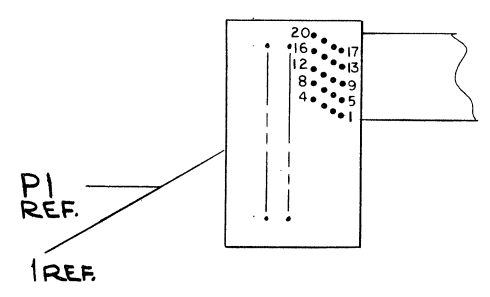
- NOTES: 1. USE TIE WRAPS (X) (ITEM #1000) APPROXIMATELY EVERY THREE (3) INCHES WHEN NECESSARY, AND AT EVERY BREAKOUT POINT. 2. ITEM #21 (12 GA BLK) AND ITEM #16 (18 GA VIO) ARE SEPARATE WIRES BUT A TWISTED PAIR SHALL BE MADE OF THEM BEFORE PLACING THEM IN THE HARNESS. 3. SHIELDED GND FOR WIRE TO FANS TO BE CONNECTED ON P4, P5 END ONLY. 4. SOLDER ITEM 22 TO SHIELD WIRE. MAKE 5' LWD WIRE AT LEAST 2" LONG.

Parts list table with columns: QTY, PART NO., PART NAME, and other details. Includes items like 'SOCKET TERMINAL CONTACT TERMINAL', 'CONN. MATE. BLOCK 2 PIN', etc.

DO NOT REDUCE (FOR MFG. PURPOSES ONLY)

Form with fields for 'FIRST USE OR OPTION', 'DATE', 'REVISION', 'PARTS LIST', and 'EQUIPMENT CORPORATION'. Includes a title block for 'PDP-11-25 POWER TO DISTRIBUTION BOARD HARNESS'.

NOTES:
1. CONNECTORS P1 AND P2 ARE TO BE WIRED POINT TO POINT (P1-1 TO P2-1 P1-2 TO P2-2 ETC.)



FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	REV.
PDP 1105				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		PARTS LIST		
DECIMALS	ANGLES	DRN	DATE	TITLE
.XXX = .005	± 0° 30'	CHKD	2-16-72	EQUIPMENT CORPORATION
.XX = .02		ENG	3-1-72	MAYNARD MASSACHUSETTS
.X = .1		PROD	5-24-72	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD	3-24-72	
MATERIAL		PROD	5-24-72	
SEE PARTS LIST		NEXT HIGHER ASSY.		
FINISH		SCALE	NUMBER	REV.
		SCALE NONE	D-UR-1105-0-0	A
		SHEET 1 OF 1	DIA 7008820-0-0	
			DIST. 6	

REVISIONS	CHANGE NO.	REV.
CHK	7008820-0001	A
DEMORVILLE		
David L. Demorville 5/1/72		

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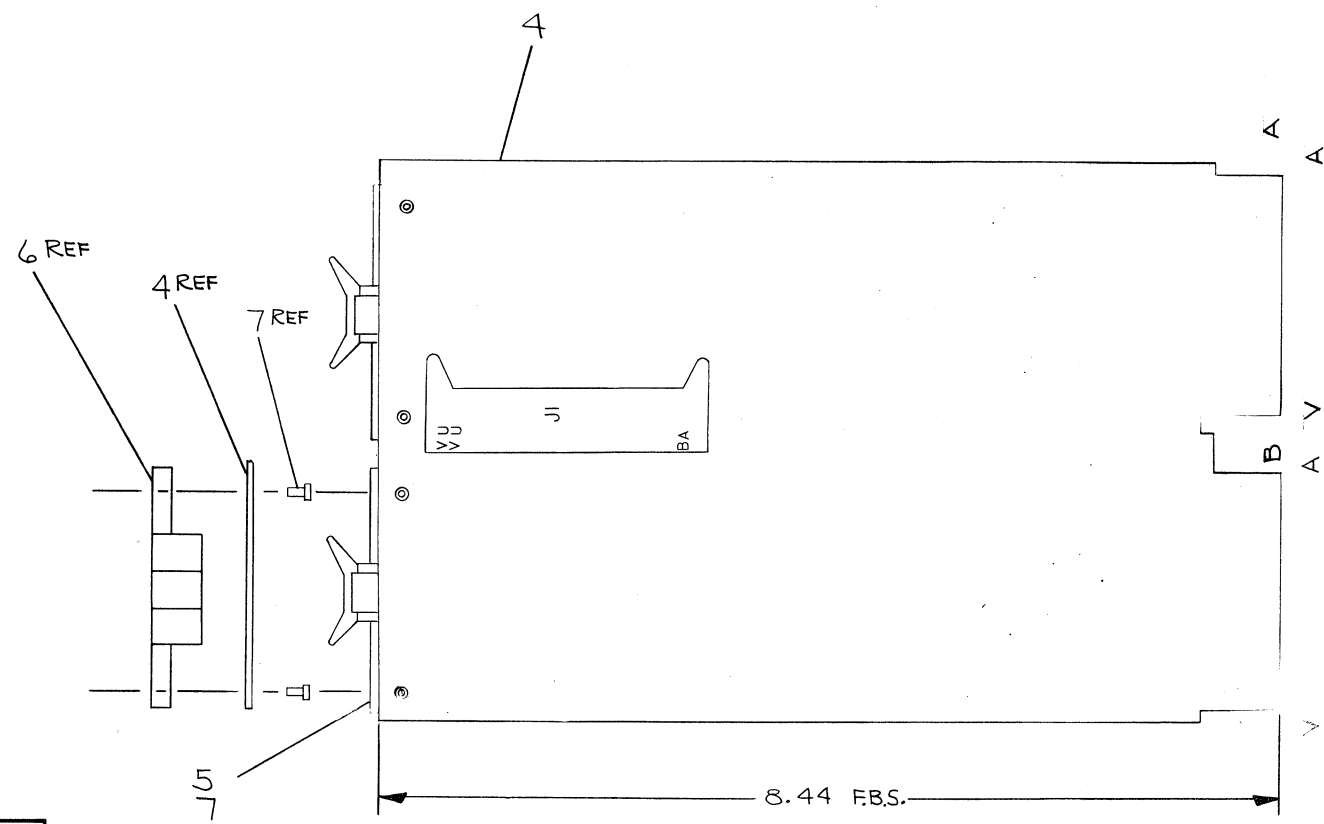
J1 BERG HEADER ON P.C. CARD	J2 20 PIN 3M CONNECTOR	SIGNAL	OUTPUT CABLE (REFERENCE)
VV >	< 9-12	GROUND	GROUND (A)
UU >	< 9-12	GROUND	GROUND (B)
B >	< 9-12	GROUND	GROUND (UU)
A >	< 9-12	GROUND	GROUND (VY)
RR >	< 16	SERIAL IN (TTL)	E
NN >	< 15	20 MA INTERLOCK	H
LL >	< 14	SERIAL IN (+20MA)	K
DD >	< 5	SERIAL IN (-20MA)	S
V >	< 7	SERIAL OUT (+20MA)	AA
T >	< 6	CLOCK IN (TTL)	CC
R >	< 4	READER RUN (-20MA)	EE
N >	< 3	CLOCK DISABLE (TTL)	HH
L >	< 2	SERIAL OUT (-20MA)	KK
F >	< 18	READER RUN (+20MA)	PP
D >	< 19	SERIAL OUT (TTL)	SS
C >	< 20	+5 VOLTS	TT
BB >	< 8	+15 VOLTS	U

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP-1105			PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN <i>Scout</i> CHD. <i>C. Schuer</i> ENG <i>David De Munnville</i> PMTH/ENG <i>P. Weeks</i> PRD <i>R. Peters</i>	DATE <i>4-6-72</i> DATE <i>4-6-72</i> DATE <i>4-10-72</i> DATE <i>4-13-72</i> DATE <i>4/21/72</i>	 EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	ANGLES	TITLE			
XXX = .005	10° 30'	CIRCUIT			
XX = .02		SCHEMATIC			
X = .1					
REMOVE BURRS AND BREAK SHARP CORNERS TO SURFACE QUALITY					
MATERIAL		NEXT HIGHER ASSY.			
		DIA-5409949-0-0			
FINISH		SIZE CODE		NUMBER	
		CCS		5409949-0-1	
		SHEET		REV.	
		1 OF 1		A	
		DIST.			

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NOTES:



- AD1
- AD2
- AE1
- AE2
- AH1
- AH2
- AK1
- AK2
- AM1
- AM2
- AN1
- AN2
- AP1
- AP2
- AR1
- AR2
- AS1
- AS2
- BD1
- BD2
- BE1
- BE2
- BH1
- BH2
- BK1
- BK2
- BL1
- BL2
- BN1
- BN2
- BP1
- BP2
- BR1
- BR2
- BS1
- BS2

REF	X-Y CO-ORDINATE HOLE LOCATION	K-CO-M9970-0-4	1
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M9970-0-5	2
REF	MODULE ECO HISTORY	B-MH-M9970-0-6	3
1	ETCHED CIRCUIT BOARD	5010347	4
1	BERG CONN, 40 PIN	1209941	5
2	HANDLE, FLIP-CHIP-MAGNETA	9008337-6	6
4	EYELET, HANDLE	9006732	7

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV A				
FIRST USED ON OPTION MODEL				
NEXT HIGHER ASSY				
SCALE NONE				
SHEET 1 OF 1				
DIST.				

IC TYPE	GND	+ 5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

BRUNING 40-522 16699
DEC FORM NO. DRD-135A

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
BERG BACKPLANE CONNECTOR

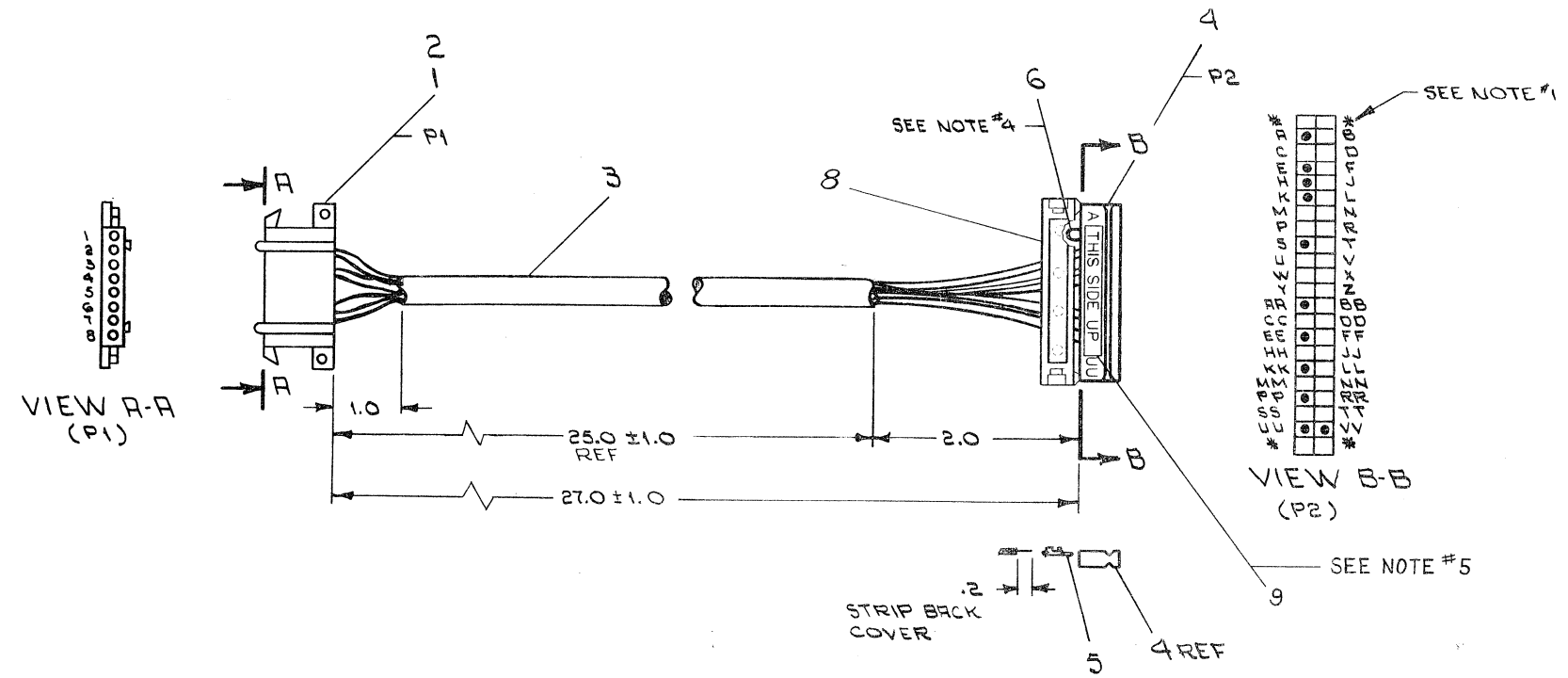
SIZE CODE NUMBER
DCS M9970-0-1

REV *
NUMBER
DCS M9970-0-1
SIZE CODE D

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WIRE TABLE							
ITEM NO.	AWG	COLOR	PAIR NO.	FROM		TO	
				CONNECTION	WITH	CONNECTION	WITH
3	22	BLK	1	P1-2	2	P2-KK	5
3		RED		P1-3	2	P2-S	
3,7		SHIELD		SEE NOTE #2	-	P2-R(NOTE#3)	
3		BLK	2	P1-4	2	P2-EE	
3		WHT		P1-5	2	P2-RR	
3,7		SHIELD		SEE NOTE #2	-	P2-UU(NOTE#3)	
3		BLK	3	P1-6	2	P2-PP	
3		GRN		P1-7	2	P2-K	
3,7		SHIELD		SEE NOTE #2	-	P2-VV(NOTE#3)	
6	22	BLK	-	P2-E	5	P2-H	5

- NOTES:
- * ASTERISKS INDICATE CAVITIES NOT USED OR DESIGNATED BY LETTERS.
 - DRAIN WIRES TO BE CUT BACK TO OUTER INSULATION ON P1 END OF CABLE ONLY. SHIELDS TO BE CUT BACK TO OUTER INSULATION ON BOTH ENDS OF CABLES.
 - DRAIN WIRES ON P2 END OF CABLE TO BE EACH ENCLOSED WITH ITEM #7 (TUBING) FROM END OF CABLE JACKET TO POINT WHERE THEY ENTER P2 CONNECTOR.
 - ITEM #6 (WIRE) TO BE APPROXIMATELY ONE(1) INCH LONG.
 - PLACE ITEM #9 ("THIS SIDE UP" STICKER) ON LETTERED SIDE OF ITEM #4 (BERG HOUSING) AS SHOWN.



REV.	CHANGE NO.	DATE	BY	CHK.
A	1	5/1/77	KLSE	KLSE
B	2	5/1/77	KLSE	KLSE
C	3	5/1/77	KLSE	KLSE
D	4	5/1/77	KLSE	KLSE

FIRST USED ON OPTION/MODEL
PDP-8E

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES
TOLERANCES
ANGLES
PROJ. ENG.
PROD.
MATERIAL
SEE PARTS LIST
FINISH

DATE	DATE	DATE	DATE	DATE
5/1/77	5/1/77	5/1/77	5/1/77	5/1/77
5/1/77	5/1/77	5/1/77	5/1/77	5/1/77
5/1/77	5/1/77	5/1/77	5/1/77	5/1/77
5/1/77	5/1/77	5/1/77	5/1/77	5/1/77

CABLE ASSEMBLY
(KL8E)

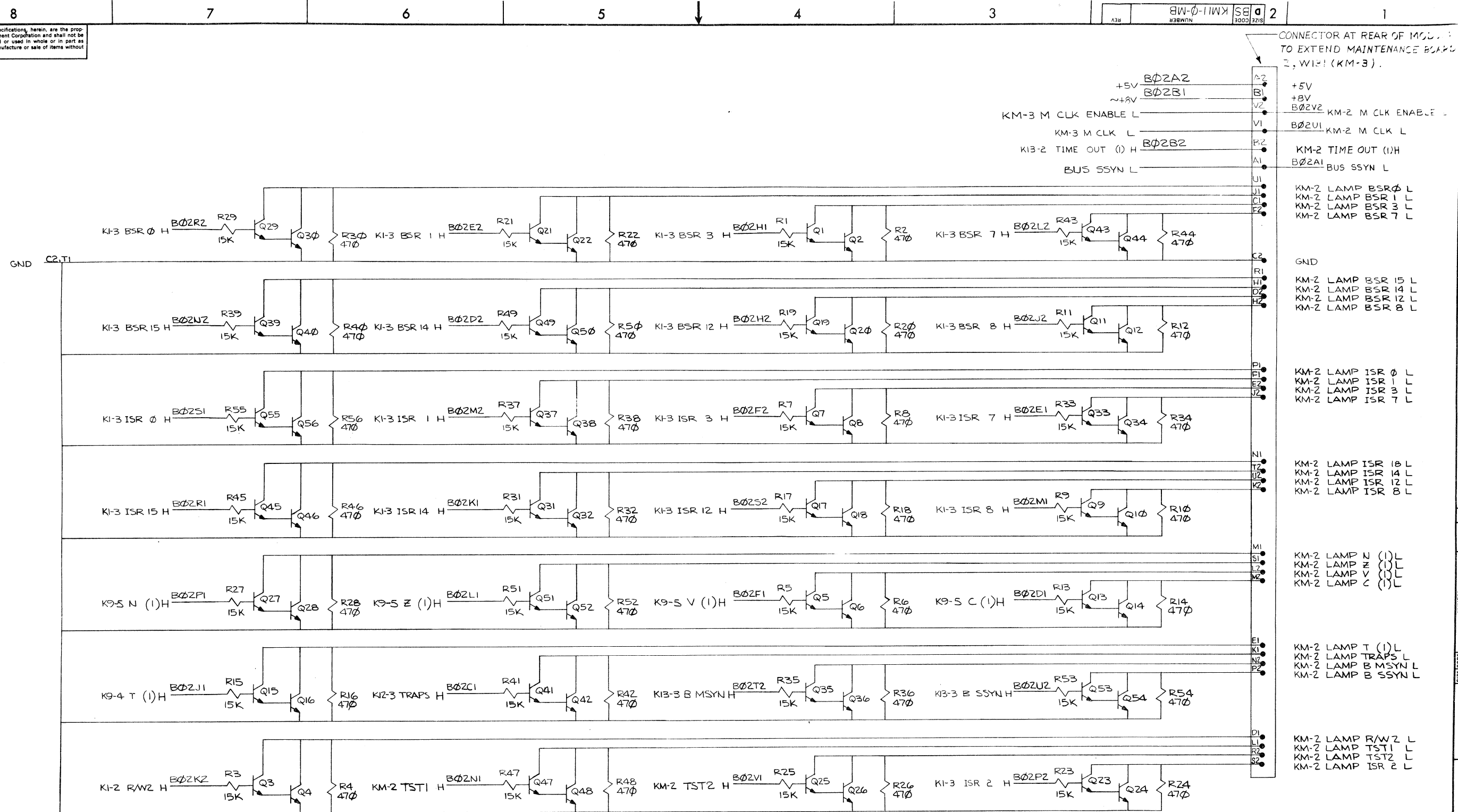
SCALE NONE

SHEET OF

REV D

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	LABEL, THIS SIDE UP	3611567	9
1	STRAIN RELIEF	1211166	8
1	STR. TUB. #18 TEF. THIN WALL. MAT	9107278-11	7
1	WIRE #22 AWG STRD TEF BLK	9107350-00	6
11	SOCKET, CRIMP #47216	1210083-07	5
1	HOUSING, BERG #22-015	1210918-15	4
1	CABLE, BELDEN #8777-3PR SHLD	9107725-0	3
6	CONTACT MATE-HOLDER (FEMALE)	1209379	2
1	CONN. MATE-HOLDER (FEMALE)	1209340-00	1

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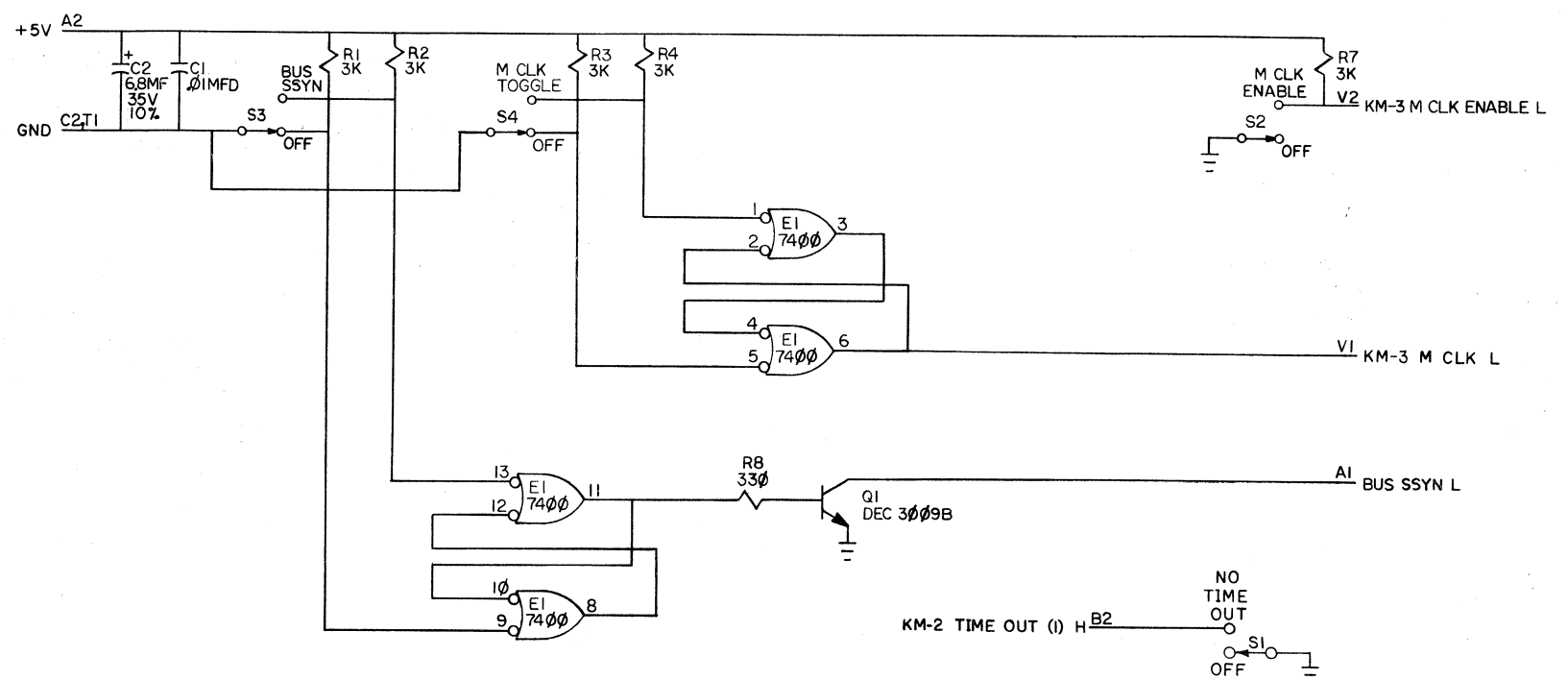
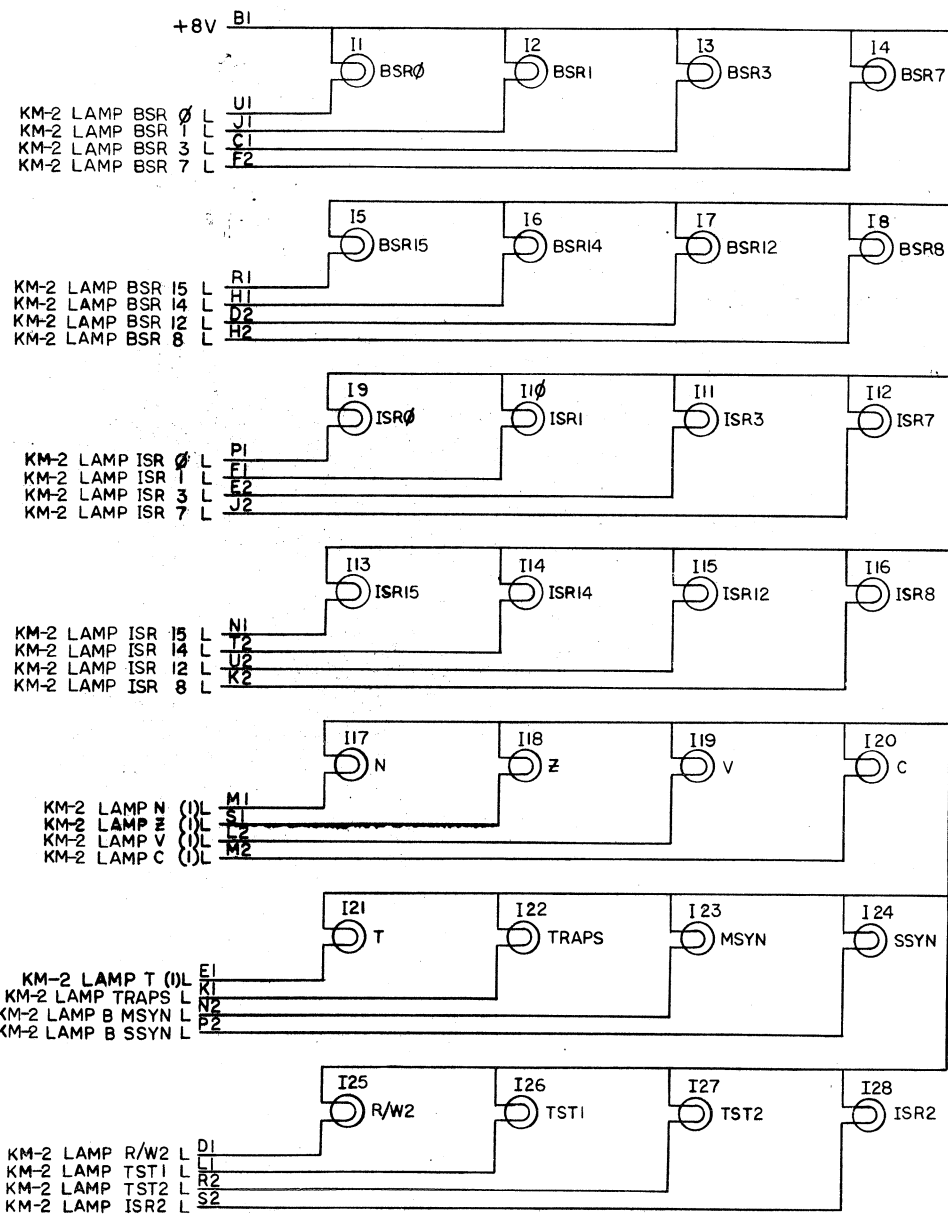


FIRST USED ON OPTION/MODEL			QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 11						
UNLESS OTHERWISE SPECIFIED			DRN	DATE	PARTS LIST	
UNLESS OTHERWISE SPECIFIED			CHKD	DATE		
DIMENSION IN INCHES			ENG	DATE		
TOLERANCES			PROJ. ENG.	DATE		
DECIMALS FRACTIONS ANGLES			PROD	DATE	TITLE	
± .005 ± 1/64 ± 0°30'						
FINAL SURFACE QUALITY						
REMOVE BURRS AND BREAK SHARP CORNERS						
MATERIAL			NEXT HIGHER ASSY		digital EQUIPMENT CORPORATION WATFORD, MASSACHUSETTS	
FINISH			SCALE			
			SHEET			

REV	CHANGE NO	CHK

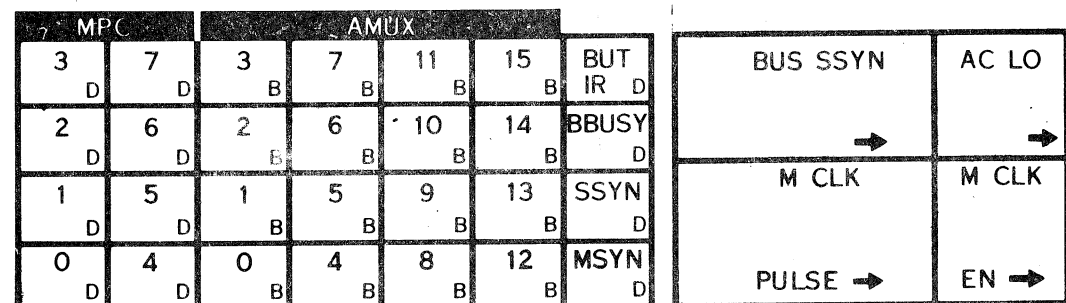
DEC FORM NO 102A

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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 11				
UNLESS OTHERWISE SPECIFIED				
DRN. <i>J. Budis</i> DATE <i>12-17-69</i>				
CHK'D <i>W. J. Budis</i> DATE <i>4/25/70</i>				
ENG. <i>W. J. Budis</i> DATE <i>3-6-70</i>				
PROJ. ENG. <i>W. J. Budis</i> DATE <i>3-6-70</i>				
PROD. <i>W. J. Budis</i> DATE <i>5/5/70</i>				
MATERIAL				
NEXT HIGHER ASSEMBLY				
A-M-L-KM11-0				
FINISH				
SCALE NONE				
SHEET 3 OF 3				
DIST.				
PARTS LIST				
digital EQUIPMENT CORPORATION				
TITLE				
MAINTENANCE BOARD(2)				
W131				
KM-3				
SIZE/CODE				
DBS KM11-0-MB				
NUMBER				
REV.				

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D-DIM WHEN ASSERTED
B-BRIGHT WHEN ASSERTED

5509081-0-9

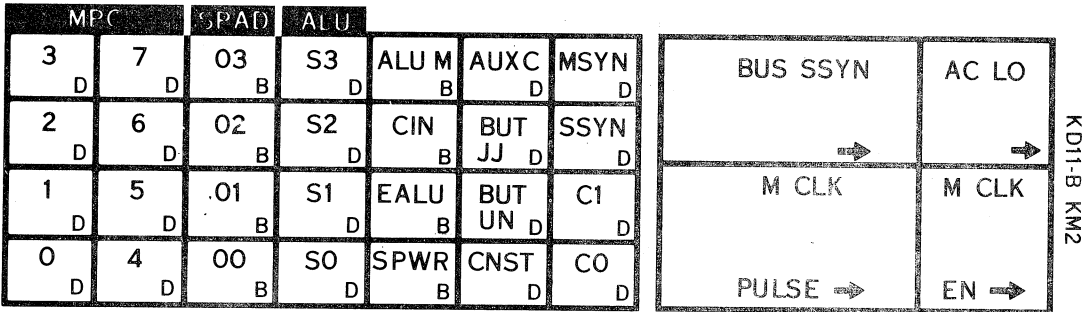
FIRST USED ON OPT /MIDP
11/05

REVISIONS	REV.
	CHANGE NO.
CHK	

SPEC* 9200100-94 (BLHIC)

DRN. J. Mattum	DATE 5-11-72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHK'D. Bu [Signature]	DATE 5-11-72	TITLE MAINT MODULE OVERLAY (11/05 - KM1)			
ENG. [Signature]	DATE 5-11-72				
PROJ. ENG. J. Teriba	DATE 5-22-72				
PROD. RK Peterson	DATE 5/24/72				
NEXT HIGHER ASSY C-1A-5509081-0-0		SIZE A	CODE SS	NUMBER 5509081-0-9	REV.
SCALE		DIST.			
SHEET OF					

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D-DIM WHEN ASSERTED
B-BRIGHT WHEN ASSERTED

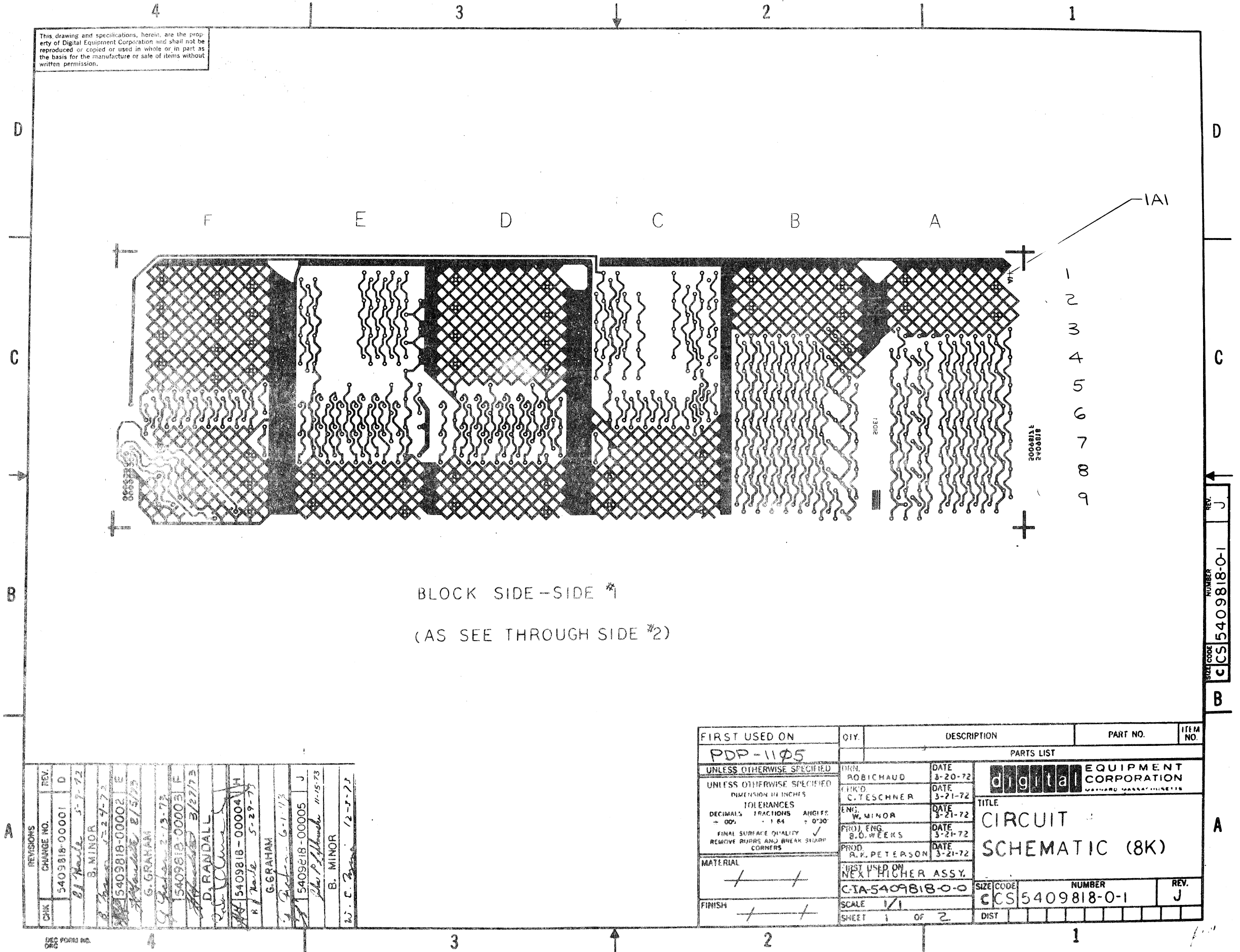
5509081-0-10

FIRST USED ON OPT/MOD	
11/05	
REVISIONS	REV.
	CHANGE NO.
	CHK

SPEC# 9200160-94 (BLACK)

DRN. D. Mattson	DATE 5/1/72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHK'D B. J. Cropper	DATE 5/1/72	TITLE	
ENG. A. Terlin	DATE 5-23-72	MAINT MODULE OVERLAY (11/05-KM2)	
PROD. R. V. Peterson	DATE 5/24/72	NEXT HIGHER ASSY	
C-IA-5509081-0-0		SIZE CODE A SS	NUMBER 5509081-0-10
SCALE		REV.	
SHEET OF		DIST. 6	

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BLOCK SIDE-SIDE *1
(AS SEE THROUGH SIDE *2)

REV.	CHG. NO.	REV.
D	5409818-00001	1
E	5409818-00002	2
F	5409818-00003	3
G	5409818-00004	4
H	5409818-00005	5
J	5409818-00006	6

FIRST USED ON PDP-11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED	PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± .010 ± .030	TITLE CIRCUIT SCHEMATIC (8K)			
FINAL SURFACE QUALITY REMOVE RIPS AND BREAK SHARP CORNERS	REV. J			
MATERIAL	CIRCUIT SCHEMATIC (8K)			
FINISH	CIRCUIT SCHEMATIC (8K)			
FIRST USED ON NEXT HIGHER ASSY.		CIRCUIT SCHEMATIC (8K)		REV. J
SCALE 1/1		CIRCUIT SCHEMATIC (8K)		REV. J
SHEET 1 OF 2		CIRCUIT SCHEMATIC (8K)		REV. J

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4 3 2 1

D C B A

F E D C B A

1 2 3 4 5 6 7 8 9

1A1

SOLDER SIDE-SIDE #2

REV.	CHG. NO.	CHK.

FIRST USED ON	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP-1105				

UNLESS OTHERWISE SPECIFIED	DATE	
DRG. ROBICHAUD	3-20-72	
CHK'D C. TESCHNER	3-21-72	
ENG. W. MINOR	3-21-72	
PRD. B.D. WEEKS	3-21-72	
PRD. P.K. PETERSON	3-21-72	

UNLESS OTHERWISE SPECIFIED	DATE	
DRG. ROBICHAUD	3-20-72	
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ENG. W. MINOR	3-21-72	
PRD. B.D. WEEKS	3-21-72	
PRD. P.K. PETERSON	3-21-72	

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PRD. P.K. PETERSON	3-21-72	

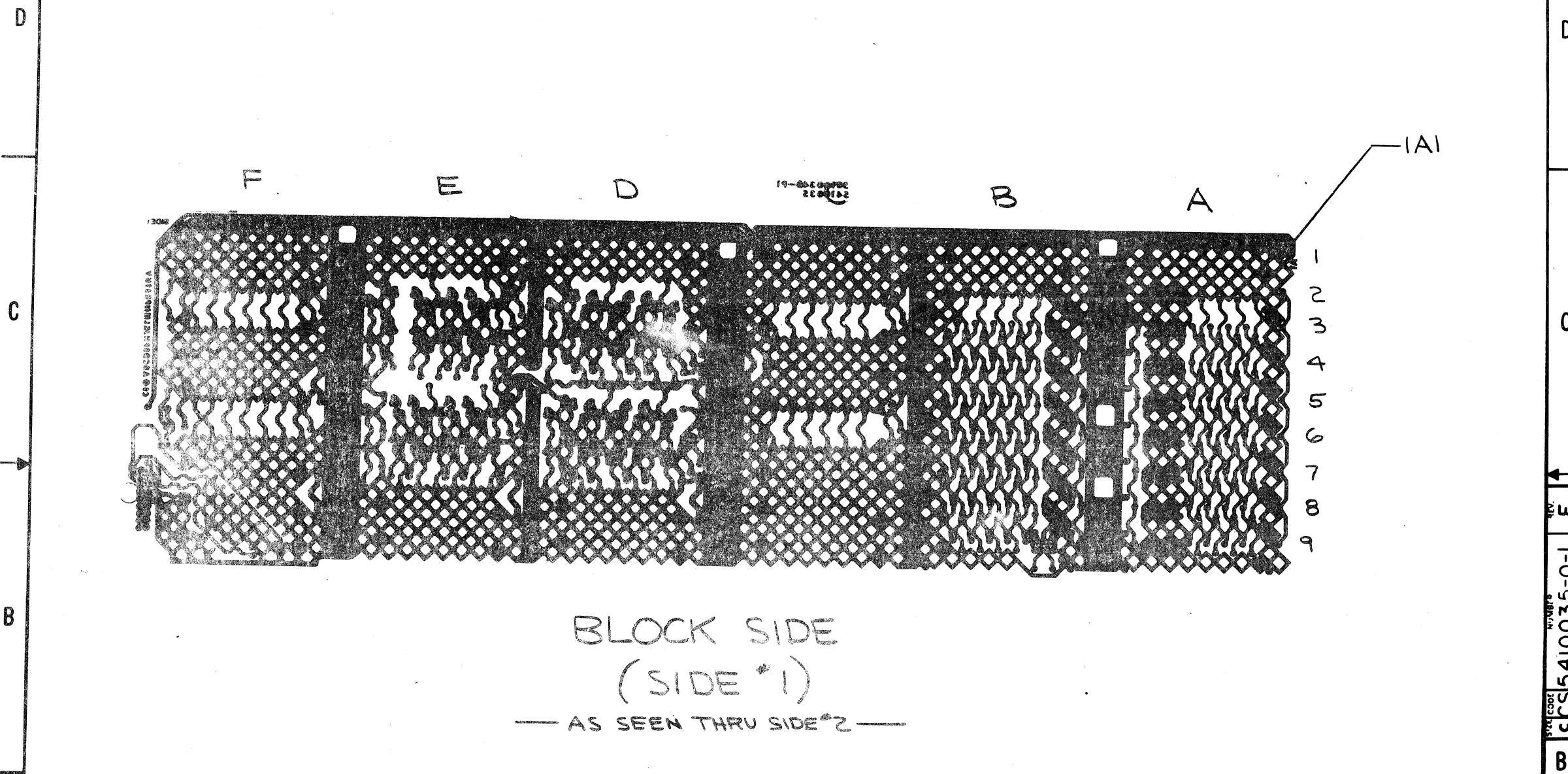
UNLESS OTHERWISE SPECIFIED	DATE	
DRG. ROBICHAUD	3-20-72	
CHK'D C. TESCHNER	3-21-72	
ENG. W. MINOR	3-21-72	
PRD. B.D. WEEKS	3-21-72	
PRD. P.K. PETERSON	3-21-72	

UNLESS OTHERWISE SPECIFIED	DATE	
DRG. ROBICHAUD	3-20-72	
CHK'D C. TESCHNER	3-21-72	
ENG. W. MINOR	3-21-72	

SOLDER SIDE-SIDE #2

FIRST USED ON	QTY.	DESCRIPTION	PART NO.	REV. NO.
PDP-1105				
UNLESS OTHERWISE SPECIFIED	DRAWN ROBICHAUD	DATE 5-20-72	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHECKED C. TESCHNER	DATE 5-21-72	digital EQUIPMENT CORPORATION MARLBOROUGH MASSACHUSETTS	
TOLERANCES	ENG. W. MINOR	DATE 3-21-72	TITLE	
DECIMALS .1 INCHES ANGLES + .001 + .1° ± 0'30"	PROD. ENG. B.D. WEEKS	DATE 5-21-72	CIRCUIT	
FINAL SURFACE QUALITY ✓ REMOVE BURRS AND BREAK SHARP CORNERS	PROD. A.K. PETERSON	DATE 5-21-72	SCHEMATIC (8K)	
MATERIAL	FIRST USED ON NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
/ /	UTA-5409818-0-0	C/C/S	5409818-0-1	J
FINISH	SCALE 1/1			
/ /	SHEET 2 OF 2			

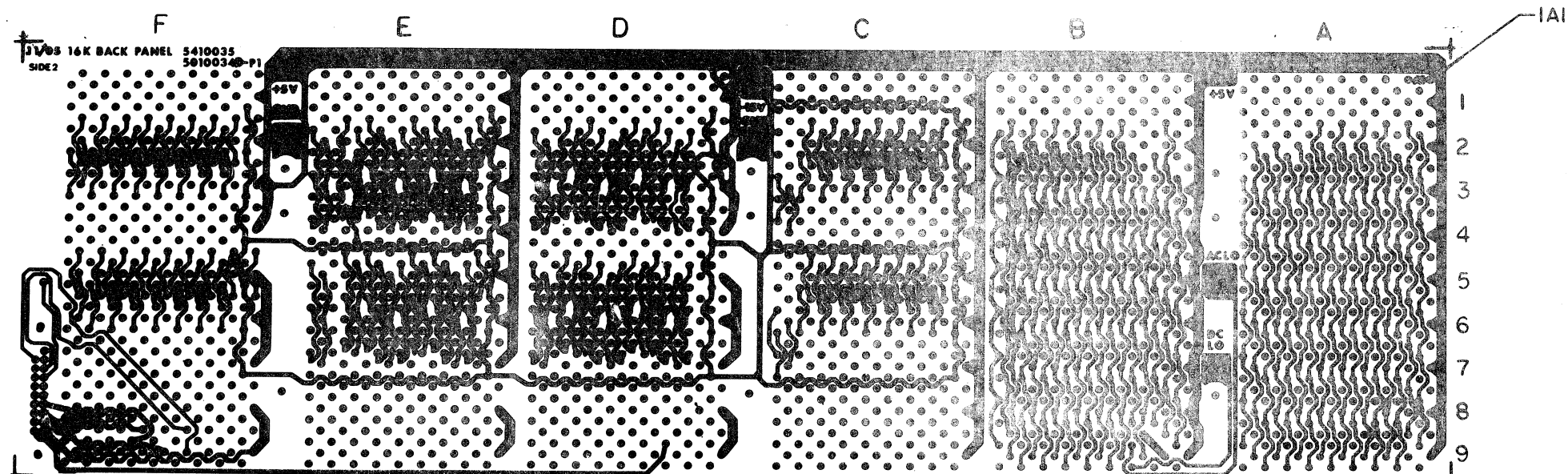
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REVISIONS		REV	DATE
CHK	CHANGE NO.	5410035-00001	2/1/73
G. GRAHAM		2/1/73	
C. G. Graham		2-12-73	
5410035-00002		C	3/9/73
D. RANDALL		3/9/73	
5410035-00003		D	5-25-73
G. GRAHAM		5-25-73	
G. Graham		6-1-73	
5410035-00004		E	7/1/73
D. RANDALL		7/1/73	
5410035-00005		F	7/2/73
B. MINOR		11-15-73	
W. E. Brown		11-21-73	

FIRST USED ON OPTION/ MODEL		QTY	DESCRIPTION	PART NO	ITEM NO
PDP-1105					
UNLESS OTHERWISE SPECIFIED		PARTS LIST			
UNLESS OTHERWISE SPECIFIED		digital EQUIPMENT CORPORATION			
TOLERANCES		TITLE			
DEFINITIONS: TOLERANCES ANGLES		CIRCUIT			
- .001 - .005 - .010 - .020 - .030 - .040 - .050 - .060 - .070 - .080 - .090 - .100 - .125 - .150 - .175 - .200 - .250 - .300 - .350 - .400 - .450 - .500 - .562 - .625 - .700 - .750 - .800 - .875 - .937 - 1.000 - 1.125 - 1.250 - 1.406 - 1.562 - 1.719 - 1.875 - 2.000 - 2.250 - 2.500 - 2.812 - 3.125 - 3.500 - 3.906 - 4.375 - 4.844 - 5.312 - 5.781 - 6.250 - 6.719 - 7.188 - 7.656 - 8.125 - 8.594 - 9.062 - 9.531 - 10.000 - 10.469 - 10.938 - 11.406 - 11.875 - 12.344 - 12.812 - 13.281 - 13.750 - 14.219 - 14.688 - 15.156 - 15.625 - 16.094 - 16.562 - 17.031 - 17.500 - 17.969 - 18.438 - 18.906 - 19.375 - 19.844 - 20.312 - 20.781 - 21.250 - 21.719 - 22.188 - 22.656 - 23.125 - 23.594 - 24.062 - 24.531 - 25.000 - 25.469 - 25.938 - 26.406 - 26.875 - 27.344 - 27.812 - 28.281 - 28.750 - 29.219 - 29.688 - 30.156 - 30.625 - 31.094 - 31.562 - 32.031 - 32.500 - 32.969 - 33.438 - 33.906 - 34.375 - 34.844 - 35.312 - 35.781 - 36.250 - 36.719 - 37.188 - 37.656 - 38.125 - 38.594 - 39.062 - 39.531 - 40.000 - 40.469 - 40.938 - 41.406 - 41.875 - 42.344 - 42.812 - 43.281 - 43.750 - 44.219 - 44.688 - 45.156 - 45.625 - 46.094 - 46.562 - 47.031 - 47.500 - 47.969 - 48.438 - 48.906 - 49.375 - 49.844 - 50.312 - 50.781 - 51.250 - 51.719 - 52.188 - 52.656 - 53.125 - 53.594 - 54.062 - 54.531 - 55.000 - 55.469 - 55.938 - 56.406 - 56.875 - 57.344 - 57.812 - 58.281 - 58.750 - 59.219 - 59.688 - 60.156 - 60.625 - 61.094 - 61.562 - 62.031 - 62.500 - 62.969 - 63.438 - 63.906 - 64.375 - 64.844 - 65.312 - 65.781 - 66.250 - 66.719 - 67.188 - 67.656 - 68.125 - 68.594 - 69.062 - 69.531 - 70.000 - 70.469 - 70.938 - 71.406 - 71.875 - 72.344 - 72.812 - 73.281 - 73.750 - 74.219 - 74.688 - 75.156 - 75.625 - 76.094 - 76.562 - 77.031 - 77.500 - 77.969 - 78.438 - 78.906 - 79.375 - 79.844 - 80.312 - 80.781 - 81.250 - 81.719 - 82.188 - 82.656 - 83.125 - 83.594 - 84.062 - 84.531 - 85.000 - 85.469 - 85.938 - 86.406 - 86.875 - 87.344 - 87.812 - 88.281 - 88.750 - 89.219 - 89.688 - 90.156 - 90.625 - 91.094 - 91.562 - 92.031 - 92.500 - 92.969 - 93.438 - 93.906 - 94.375 - 94.844 - 95.312 - 95.781 - 96.250 - 96.719 - 97.188 - 97.656 - 98.125 - 98.594 - 99.062 - 99.531 - 100.000					
MATERIAL		CIRCUIT			
FINISH		SCHEMATIC (16K)			
SCALE 1/1		NUMBER			
SHEET 1 OF 2		CCS 5410035-0-1			
		REV. F			

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SOLDER SIDE
(SIDE 2)

A	REVISES		REV.
	CHANGE NO.		
	CHK		

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	REV. NO.
PDP11/05			PARTS LIST	
UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED TOLERANCES DECIMALS FRACTIONS ANGLES = .001 = .001 = 90° SURF SURFACE QUALITY REWORK DIMS AND BDR SHIP DIMENSIONS MATERIAL	DRAWN <i>R. Cook</i> CHECKED <i>C. Schaefer</i> ENG. <i>J. J. Smith</i> PROD. ENG. <i>R. J. White</i> FINISH <i>R. J. Peterson</i> NEXT DRAWING ASSY	DATE <i>5/8/72</i> DATE <i>5-8-72</i> DATE <i>5-11-72</i> DATE <i>5-11-72</i> DATE <i>5-11-72</i> DATE <i>5/8/72</i>	digital EQUIPMENT CORPORATION VICTOR, CALIF. - U.S.A.	
	E-A-5410035-0-0	SHEET 2 OF 2	TITLE CIRCUIT SCHEMATIC	(16 K)
FIGURES		SIZE CODE NUMBER REV. CCS 5410035-0-1 F		
		DIST		

SIZE	CASE	NUMB	REV.
C	CS5410035-0-1	F	

1B

REF		ETCH WIRE LIST	SERIAL 7-2-B	5
I		ETCHED CIRCUIT BOARD	5010328	4
REF		MODULE ECO HISTORY	B-MH-591032906	3
REF		ASSY/DRILLING HOLE LAYOUT	E-AH-591032915	2
REF		X-Y COORDINATE HOLE LOCATION	K-CO-591032904	1
QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO

PARTS LIST									
ETCH BOARD REV	B								

DRAWN BY <i>[Signature]</i>	DATE 7-2-8	DIGITAL EQUIPMENT CORPORATION MILFORD NEW HAMPSHIRE 03055	TITLE
CHECKED BY <i>[Signature]</i>	DATE 7-2-8		CIRCUIT SCHEMATIC (1105 10.5)
DESIGNED BY <i>[Signature]</i>	DATE 7-2-8		
PREPARED BY <i>[Signature]</i>	DATE 7-2-8		
NEXT HIGHER ASSY DIA-700241-0-0			
DEC NO.	EIA NO.	REV.	

CONVERSION CHART	SCALE NONE	SHEET 1 OF 1	NO. DCS5410329-0-1	REV. A
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