

**digital**

Digital Equipment Corporation  
Maynard, Massachusetts

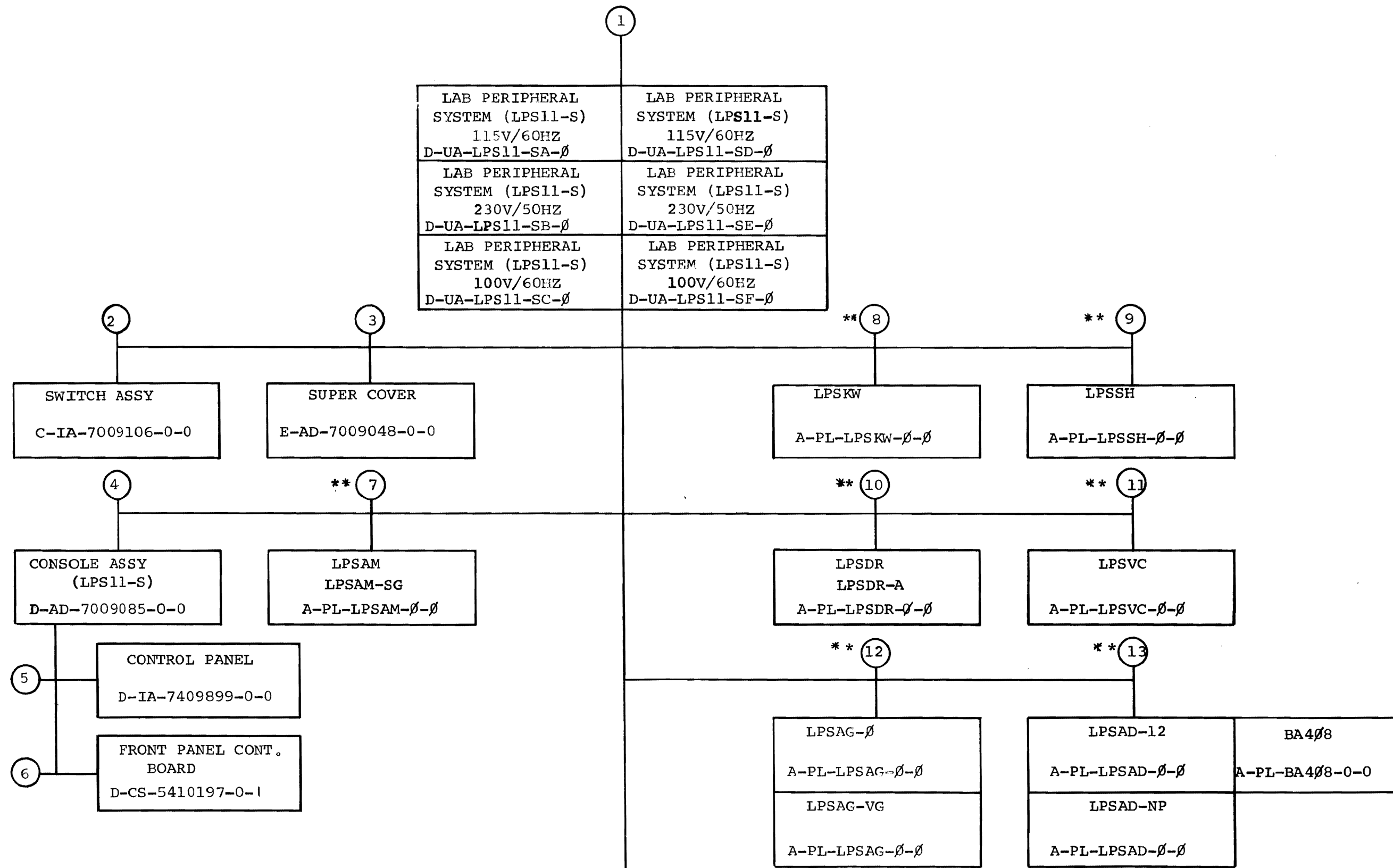
LPS11  
laboratory peripheral  
system  
engineering drawings



**laboratory data products**





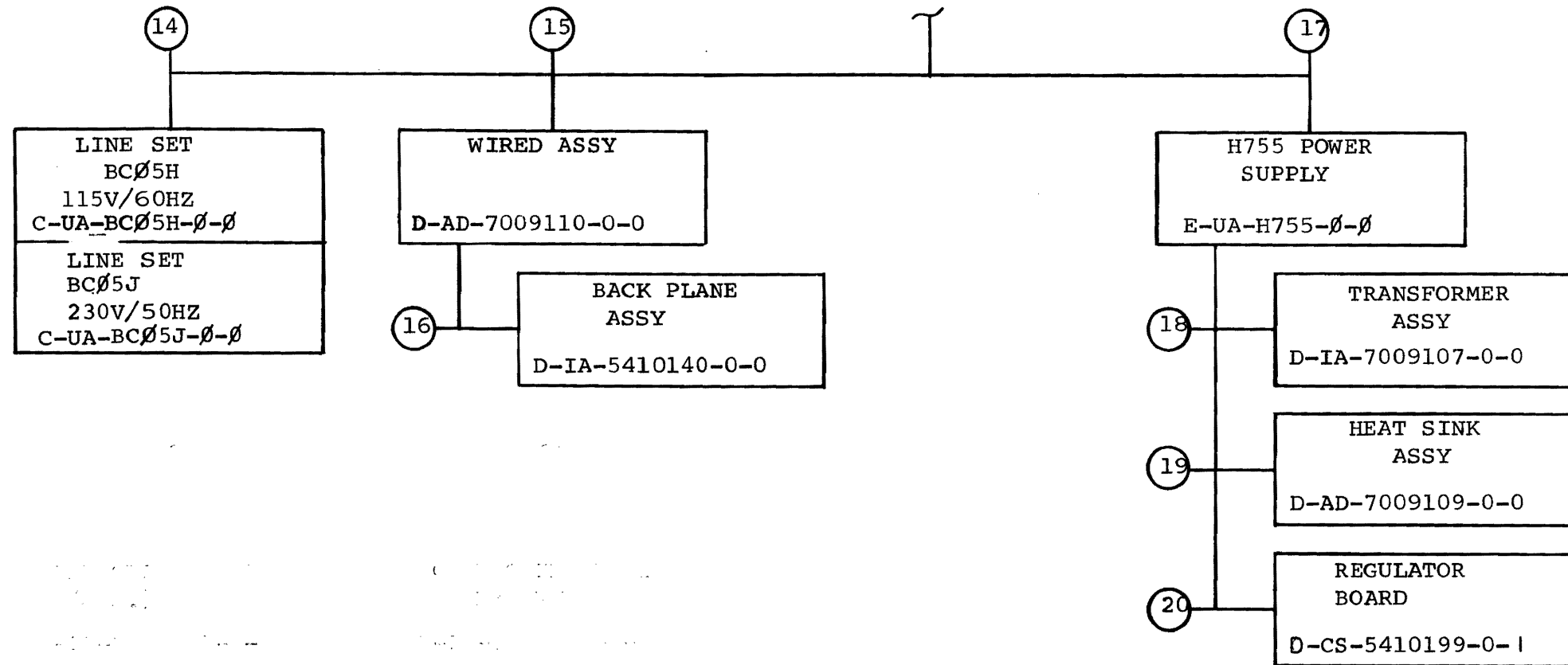


CONT SHEET 3 OF 5

\*\*ASTERISK INDICATES OPTIONAL UNIT VARIATION

TITLE	SIZE	CODE	NUMBER	REV
LAB PERIPHERAL SYSTEM (LPS11-S)	B	DU	LPS11-S	K

CONT FROM SHEET 2 OF 5



TITLE	SHEET	SIZE	CODE	NUMBER	REV
LAB PERIPHERAL SYSTEM (LPS11-S)	4 OF 7	B	DD	LPS11-S	K

CUSTOMER PRINT SET		ELECTRICAL						CUSTOMER PRINT SET		ELECTRICAL					
LPS11-S	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	LPS11-S	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
	X	1	K-WL-LPS11-S-WL	D	1	LAB PERIPHERAL SYSTEM (L.P.S.)		X		7	D-CS-A407-0-1	#	1	8 CHAN. MULTIPLEXER	
X			D-MU-LPS11-S-1	C	1	MODULE UTILIZATION		X			B-CS-G728-0-1	#	1	JUMPER CARD	
X			D-IC-LPS11-S-2		1	CABLE CONFIGURATION		X			D-CS-A408-0-1	#	1	8 CHAN SWITCH GAIN MUX.	
X			D-BD-LPS11-S-3		1	UNIBUS TO LPS11-S									
X			D-BD-LPS11-S-4		1	LPS11-S SYSTEM		X		8	D-CS-M7016-0-1	#	1	REAL TIME CLOCK	
X			D-BD-LPS11-S-5		1	LPSKW									
X			D-BD-LPS11-S-6	B	1	LPSDR									
X			D-BD-LPS11-S-7		1	LPSAD-NP		X		9	D-CS-A406-0-1	#	1	SAMPLE & HOLD	
X			D-BD-LPS11-S-8	B	1	LPSAD-12									
X			D-BD-LPS11-S-9		1	LPSVC									
	X		A-SP-LPS11-S-10			LAB PERIPHERAL SYSTEM (LPS11-S)		X		10	D-CS-M7017-0-1	#	1	DIGITAL I/O	
X			D-SP-GT40-0-2	#	4	LPS11-S ENG. SPEC.		X			D-CS-M7023-0-1	#	1	DIGITAL I/O	
X			A-AL-LPS11-S-11	C	1	ACCESSORY LIST									
			D-UA-BC11A-6-0		1	UNIBUS CABLE		x		11	D-CS-M7019-0-1	#	1	SCOPE CONTROL	
	X		A-SP-LPS11-S-12		21	BASIC UNIT CHECKOUT PROCEDURE		X			D-CS-A625-0-1	#	1	DUAL D/A CONVERTER	
X			B-CS-G727-0-1	#	1	BUS GRANT CONTINUITY									
	X		A-SP-LPS11-S-13		6	LPS ANALOG CALIBRATION PROCEDURE									
X			D-CS-M996-0-1	#	1	CONNECTOR SHIELD BOARD		X		12	D-CS-A242-0-1	#	1	4 CHAN. PREAMP.	
X			A-SP-LPS11-S-15		3	LPS11-S CABINET MOUNTING PROC.		X			D-CS-A241-0-1	#	1	MULTI-GAIN 4 CHAN. PREAMP.	
X			D-CS-M7015-0-1	#	1	LPS UNIBUS INTERFACE									
	X		A-SP-LPS11-S-14	A	47	LPS11-S ACCEPTANCE PROC.									
	X		A-SP-LPSDR-A-2	#	**	LPSDR-A CHECKOUT PROCEDURE		X		13	D-CS-M7018-0-1	#	1	A/D MODULE	
	X		A-SP-LPSAM-SG-2	#	**	BA408 CHECKOUT PROCEDURE		X			D-CS-A804-0-1	#	1	A/D CONVERTER	
	X		A-SP-LPSAM-0-1	#	**	LPSAM ENG. SPEC.					D-CS-A406-0-1		1	SAMPLE & HOLD	
	X		A-SP-LPSAM-SG-1	#	**	BA408 ENG. SPEC.					B-CS-G728-0-1		1	JUMPER CARD	
	X		A-SP-LPSKW-0-1	#	**	LPSKW ENG. SPEC.					D-CS-A407-0-1		1	8 CHAN. MULTIPLEXER	
	X		A-SP-LPSKW-0-2	#	**	LPSKW CHECKOUT PROCEDURE		X			D-CS-M7020-0-1	#	1	DMA INTERFACE	
	X		A-SP-LPSSH-0-1	#	**	LPSSH ENG. SPEC.					D-CS-A408-0-1		1	8 CHAN SWITCH GAIN MUX.	
	X		A-SP-LPSDR-A-1	#	**	LPSDR-A ENG. SPEC.									
	X		A-SP-LPSDR-0-1	#	**	LPSDR ENG. SPEC.									
	X		A-SP-LPSDR-0-2	#	**	LPSDR CHECKOUT PROCEDURE									
	X		A-SP-LPSVC-0-1	#	**	LPSVC ENG. SPEC.		X		16	D-CS-5410140-0-1	#	1	BACK PLANE ASSY	
	X		A-SP-LPSVC-0-2	#	**	LPSVC CHECKOUT PROCEDURE					5010139-0-0		1	ETCH CIRCUIT BOARD	
	X		A-SP-LPSAG-0-1	#	**	LPSAG-0 ENG. SPEC.									
	X		A-SP-LPSAG-VG-1	#	**	LPSAG-VG ENG. SPEC.									
	X		A-SP-LPSAD-12-1	#	**	LPSAD-12 ENG. SPEC.		X		20	D-CS-5410199-0-1	#	1	REGULATOR BOARD	
	X		A-SP-LPSAD-12-2	#	**	LPSAD-12 CHECKOUT PROCEDURE					5010198		1	ETCH CIRCUIT BOARD	
	X		A-SP-LPSAD-NP-1	#	**	LPSAD-NP ENG. SPEC.									
	X		A-SP-LPSAD-NP-2	#	**	LPSAD-NP CHECKOUT PROCEDURE									
X		6	D-CS-5410197-0-1	#	1	FRONT PANEL CONT. BD.									
			5010196		1	ETCH CIRCUIT BOARD									

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

TITLE: LAB PERIPHERAL SYSTEM (LPS11-S)  
SHEET 5 OF 7  
SIZE: B  
CODE: DD  
NUMBER: LPS11-S  
REV: K

CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET		MECHANICAL						
LPS11-S	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	LPS11-S	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X		1	D-UA-LPS11-S-Ø	D	3	LAB PERIPHERAL SYSTEM (LPS11-S)				5	D-IA-7409899-0-0		1	CONTROL PANEL	
X			A-PL-LPS11-S-Ø	D	3	LAB PERIPHERAL SYSTEM LPS11-S(PL)					C-SS-7409899-0-1		1	SILK SCREEN	
			E-IA-7409458-0-0		4	CHASSIS									
			C-MD-7409460-0-0		1	COVER, TOP									
			D-IA-7409533-1-0		1	COVER, SIDE				6	D-CS-5410197-0-1		1	FRONT PANEL CONT. BD.	
			D-IA-7409875-0-0		1	PANEL, REAR MTG.									
	X		E-IA-7009108-0-0	#	1	H755 P.S. HARNESS ASSY									
			B-MD-7411168-0-0		1	RETAINER CONN. BLOCK FRONT	X			7	A-PL-LPSAM-Ø-Ø	#	1	LPSAM AND LPSAM-SG	
			B-MD-7411167-0-0		1	RETAINER CONN. BLOCK REAR					A4Ø7		1	8 CHAN. MULTIPLEXER	
			B-MD-7410695-2-0		1	TAB, PROTECTIVE (L.H.)					G728		1	JUMPER CARD	
			B-MD-7410695-1-0		1	TAB, PROTECTIVE (R.H.)	X				7009086-ØH		1	CABLE ASSY, PANEL MTG.	
			A-DC-5309900-0-0		1	POWER CONTROL DECAL (23ØV)					A4Ø8		1	8 CHAN SWITCH GAIN MUX.	
			A-DC-5309899-0-0		1	POWER CONTROL DECAL (115V)									
			C-PS-1210698-0-0		1	GUIDE, CARD CENTER									
			C-MD-7410557-0-0		1	ANGLE, SUPPORT	X			8	A-PL-LPSKW-Ø-Ø	#	1	LPSKW	
			D-MD-7410694-0-0		1	FOAM, INSULATING					M7Ø16		1	REAL TIME CLOCK	
			D-IA-7409459-0-0		1	BRACKET, CHASSIS SLIDE (L.H.)									
			C-IA-7409449-0-0		1	BRACKET, CHASSIS SLIDE (R.H.)									
			1210945		4	CHASSIS SLIDE									
			B-MD-7409816-0-0		1	SHIPPING BRACKET	X			9	A-PL-LPSSH-Ø-Ø	#	1	LPSSH	
			D-IA-7410717-0-0		1	COVER, SIDE-TABLE TOP					A4Ø6		1	SAMPLE & HOLD	
X			D-UA-BC11A-6-Ø	#	1	UNIBUS CABLE									
X			D-UA-BCØ5P-1Ø-Ø	#	1	LPSVC TO TEK SCOPES									
X			D-UA-BCØ5R-1Ø-Ø	#	1	LPSVC TO TEK 5Ø3									
X			D-UA-BCØ5S-1Ø-Ø	#	1	LPSVC TO DISPLAYS, BNC CONNS.	X			10	A-PL-LPSDR-Ø-Ø	#	1	LPSDR AND LPSDR-A	
			C-IA-7411303-0-0		1	CARD GUIDE, RH (REWORK)					M7Ø17		1	DIGITAL I/O	
			C-IA-7411273-0-0		1	CARD GUIDE, LH (REWORK)					7009086-ØJ		1	CABLE ASSY, PANEL MTG.	
	X	2	C-IA-7009106-0-0	#	1	SWITCH ASSY					7009086-ØM		1	CABLE ASSY, PANEL MTG.	
		3	E-AD-7009048-0-0		1	SUPER COVER ASSY					M7023		1	LPSDR-A DIGITAL I/O	
			D-MD-7410570-0-0		1	EXTRUSION, RUNNER									
			D-MD-7410569-0-0		1	EXTRUSION, SIDE									
			C-MD-7410561-0-0		1	REAR EXTRUSION BRKT. (L.H.)	X			11	A-PL-LPSVC-Ø-Ø	#	1	LPSVC	
			C-MD-7410560-0-0		1	REAR EXTRUSION BRKT. (R.H.)					M7Ø19		1	SCOPE CONTROL	
			D-MD-7410559-0-0		1	PLATE, LIFT					A625		1	DUAL A/D CONVERTER	
			D-IA-7410504-0-0		1	TOP COVER					7009086-Ø1		1	CABLE ASSY, PANEL MTG.	
											D-UA-BC05N-1Ø-Ø	#	1	CABLE ASSY (VR2Ø-VR14)	
	X	4	D-AD-7009085-0-0	#	1	CONSOLE ASSY (LPS11-S)									
			D-MD-7409960-0-0		1	BEZEL, REWORK									
			C-IA-7410503-0-0		1	FRAME ASSY	X			12	A-PL-LPSAG-Ø-Ø	#	1	LPSAG-Ø	
			B-MD-7410693-0-0		1	STRIP, FILLER					A242		1	4 CHAN. PREAMP	
			C-MD-7409654-0-0		1	STRIP, MTG					A-PL-LPSAG-0-0		1	LPSAG-VG	
											A241		1	MULTI-GAIN 4 CHAN. PREAMP.	

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

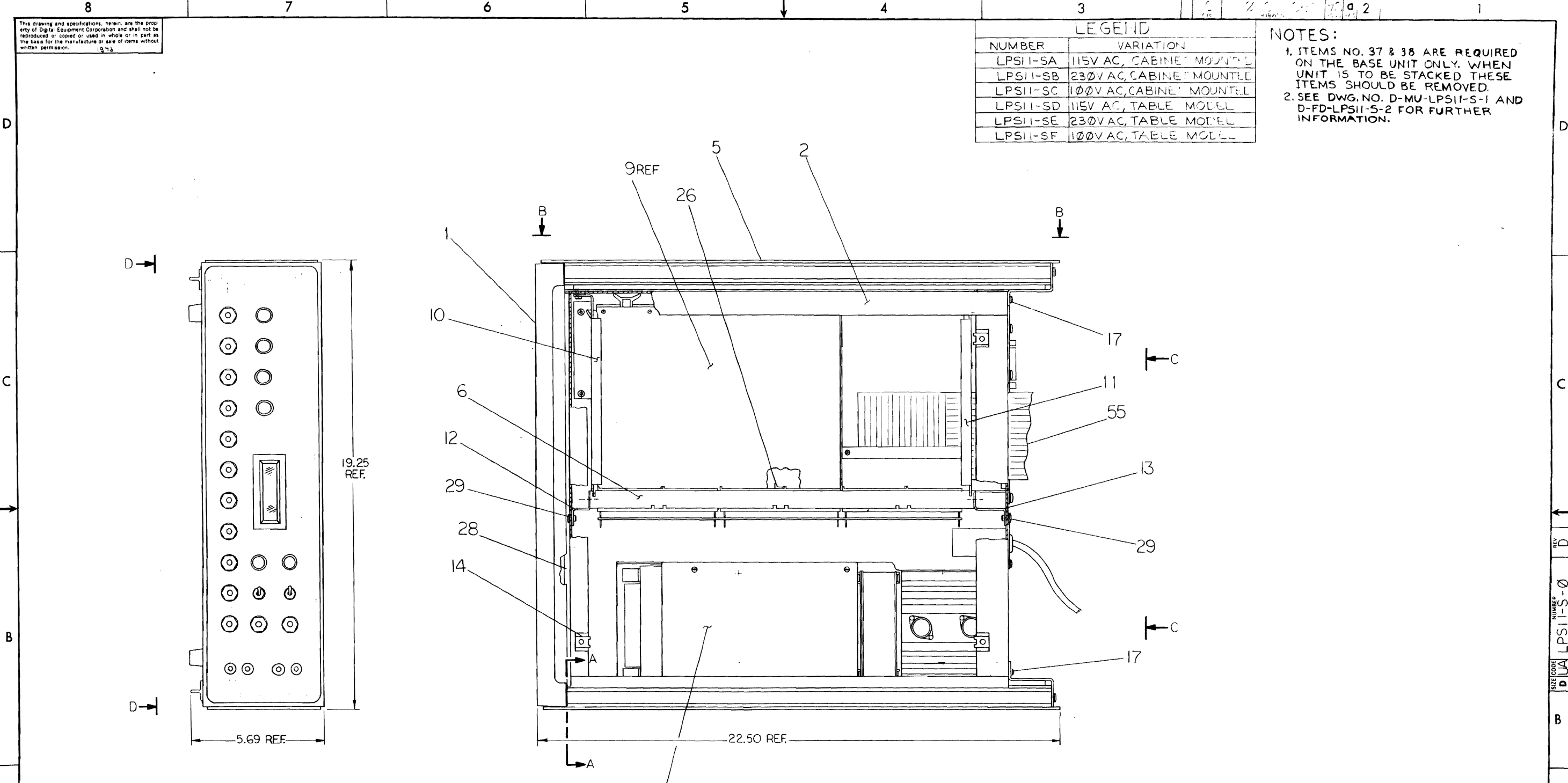
TITLE  
LAB PERIPHERAL SYSTEM (LPS11-S)  
SHEET 6 OF 7  
SIZE CODE  
B DD  
NUMBER  
LPS11-S  
RFV  
K

CUSTOMER PRINT SET				MECHANICAL					CUSTOMER PRINT SET				MECHANICAL					
LPS11-S	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	LPS11-S	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE			
X		13	A-PL-LPSAD- $\emptyset$ - $\emptyset$	#	1	LPSAD-12				20	D-CS-5410199-0-1		1	REGULATOR BOARD				
			M7 $\emptyset$ 18		1	A/D MODULE												
			A8 $\emptyset$ 4		1	A/D CONVERTER												
			A4 $\emptyset$ 6		1	SAMPLE & HOLD												
			G728		1	JUMPER CARD												
			A4 $\emptyset$ 7		1	8 CHAN. MULTIPLEXER												
			A-PL-LPSAD- $\emptyset$ - $\emptyset$		1	LPSAD-NP												
			M7 $\emptyset$ 20		1	DMA INTERFACE												
X			A-PL-BA4 $\emptyset$ 8-0-0	#	1	BA408												
			A408		1	8 CHAN SWITCH GAIN MUX.												
X		14	C-UA-BC $\emptyset$ 5H- $\emptyset$ - $\emptyset$	#	1	LINE SET (BC $\emptyset$ 5H) (115V/6 $\emptyset$ HZ)												
X			C-UA-BC $\emptyset$ 5J- $\emptyset$ - $\emptyset$	#	1	LINE SET (BC $\emptyset$ 5J) (23 $\emptyset$ V/5 $\emptyset$ HZ)												
X		15	D-AD-7009110-0-0	#	2	WIRED ASSY												
			E-PS-1211439-0-0		1	LOGIC FRAME (11/05)												
			E PS 1210258-0-0		1	288 PIN CONN BLOCK												
			E PS 1211425-0-0		1	72 PIN CONN BLOCK												
		16	D-IA-5410140-0-0		1	BACK PLANE ASSY												
X		17	E-UA-H755- $\emptyset$ - $\emptyset$	#	1	H755 POWER SUPPLY ASSY												
			E-IA-7409979-0-0		1	CHASSIS, POWER SUPPLY												
			C-IA-7410623-0-0		1	HOLD DOWN, CAPACITOR					A-PI-3700080-0-0			LPS 11 Packaging Instructions				
X		18	D-IA-7009107-0-0	#	1	TRANSFORMER ASSY												
X		19	D-AD-7009109-0-0	#	3	HEAT SINK ASSY												
			1210131		1	POWER SUPPLY HEATSINK												
			C-MD-7410616-0-0		1	HEATSINK BASE PLATE												
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		LAB PERIPHERAL SYSTEM (LPS11-S)		SHEET 7 OF 7		SIZE CODE		NUMBER		REV
												B DD		LPS11-S		K		

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1973

LEGEND	
NUMBER	VARIATION
LPSII-SA	115V AC, CABINET MOUNTED
LPSII-SB	230V AC, CABINET MOUNTED
LPSII-SC	100V AC, CABINET MOUNTED
LPSII-SD	115V AC, TABLE MODEL
LPSII-SE	230V AC, TABLE MODEL
LPSII-SF	100V AC, TABLE MODEL

NOTES:  
 1. ITEMS NO. 37 & 38 ARE REQUIRED ON THE BASE UNIT ONLY. WHEN UNIT IS TO BE STACKED THESE ITEMS SHOULD BE REMOVED.  
 2. SEE DWG. NO. D-MU-LPSII-S-1 AND D-FD-LPSII-S-2 FOR FURTHER INFORMATION.



TOP VIEW  
 (ITEM NO. 3 & TOP OF SUPER COVER ASS'Y HAVE BEEN REMOVED)

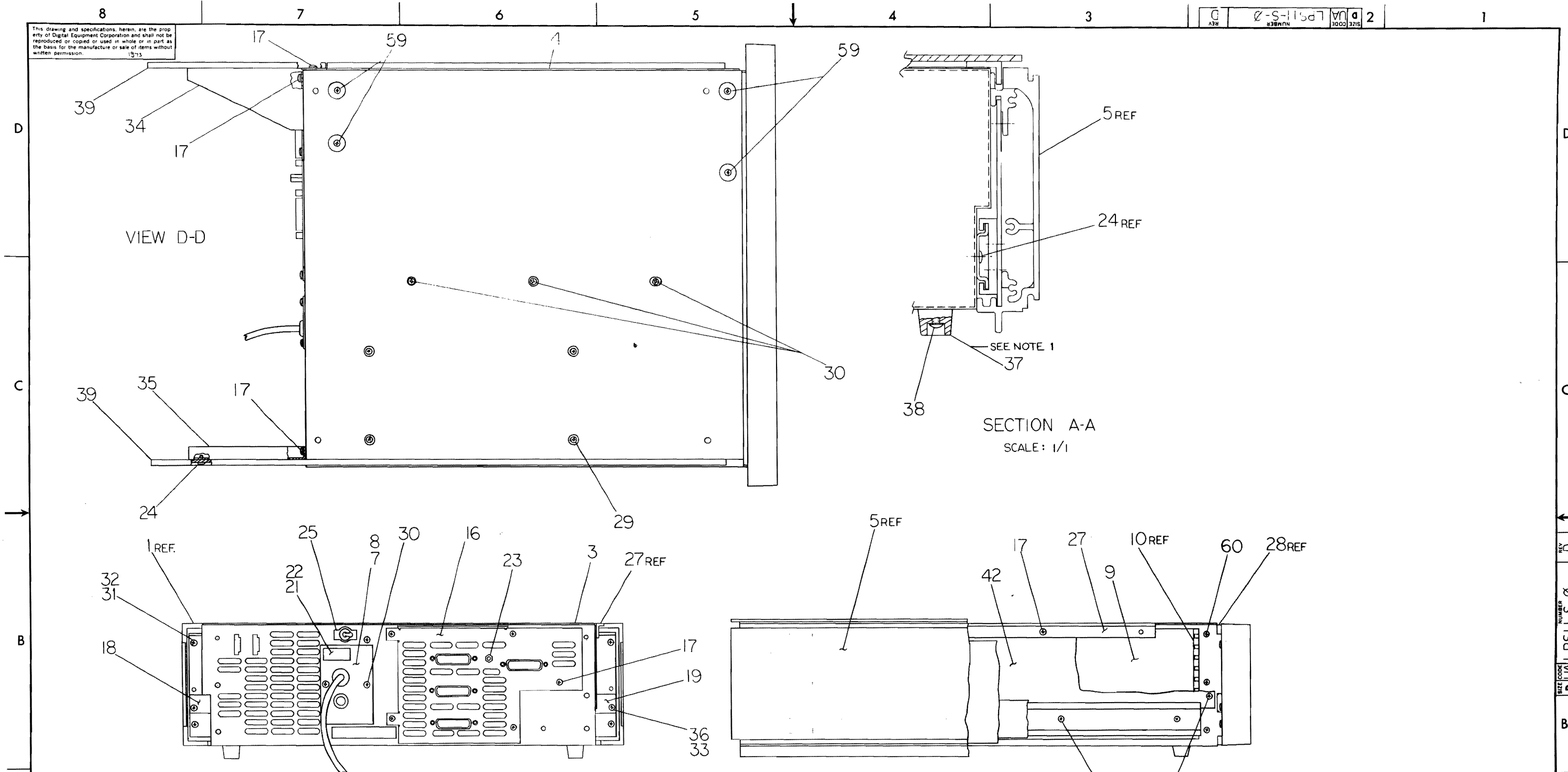
REV.	CHANGE NO.	DATE	BY	CHK'D.
1	LPSIIS-00004	A	D. K. CRABBE	
2	LPSIIS-00005	B	D. K. CRABBE	
3	LPSIIS-00008	C	D. K. CRABBE	
4	LPSIIS-00010	D	D. K. CRABBE	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPSII-S				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	DRN	DATE	DATE
.XXX - .005		Carl McGee	11-14-72	
.XX - .02	±0°30'	CHK'D.	DATE	
.X - .1		ENG.	DATE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROJ. ENG.	DATE	
		R. D. Dan	11-30-72	
MATERIAL	NEXT HIGHER ASSY.	PROD.	DATE	
—H—	B-DD-LPSII-S		12-1-73	
FINISH	SCALE 1/2	TITLE		
—H—	SHEET 1 OF 3	LAB PERIPHERAL SYSTEM (LPSII-S)		
		SIZE CODE	NUMBER	REV
		DUA	LPSII-S-0	D

BRUNING 40-107 15848  
 DEC FORM 100  
 DRI 100-A

REV. D  
 NUMBER LPSII-S-0  
 SIZE CODE DUA

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VIEW D-D

SECTION A-A  
SCALE: 1/1

VIEW C-C  
(SUPER COVER ASSY  
NOT SHOWN)

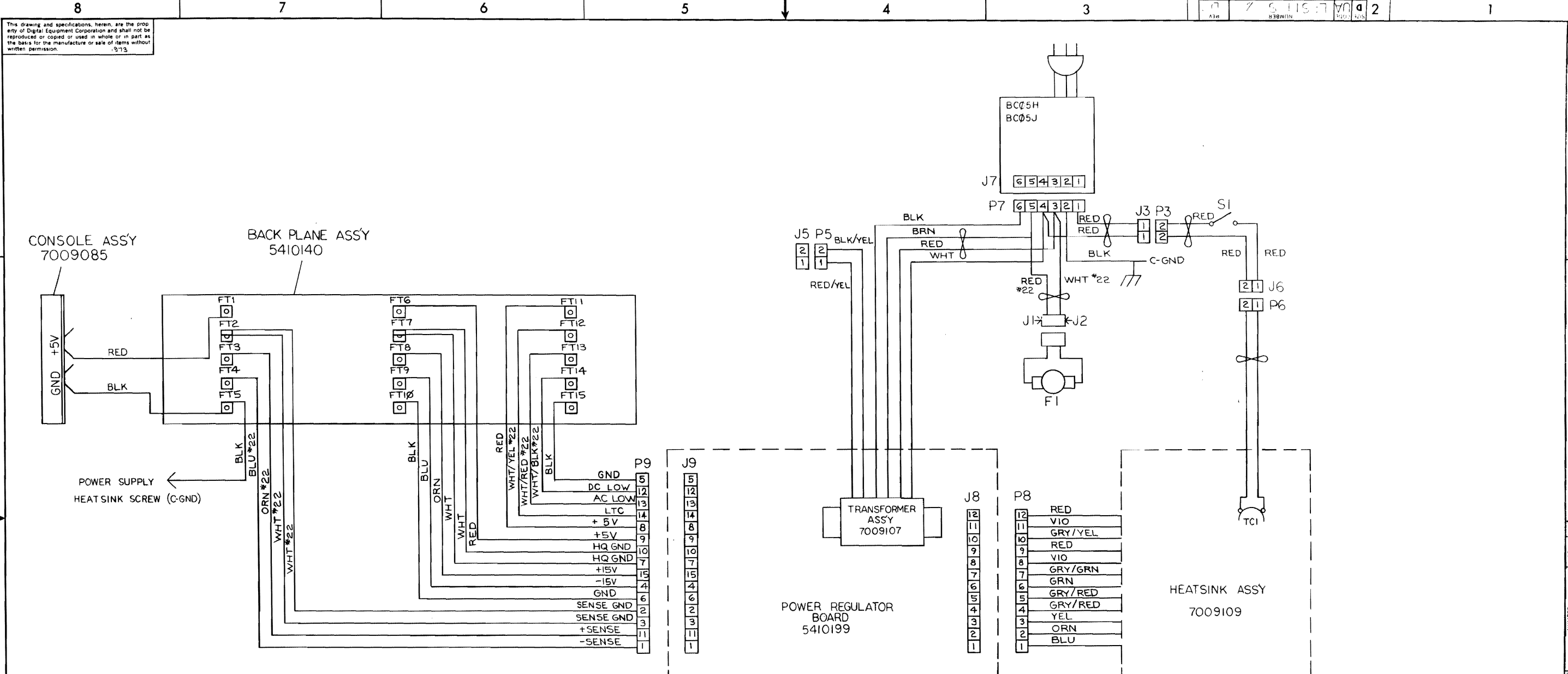
VIEW B-B

BRUNING 40-107 15868	REV
CHG	CHANGE NO.
CHK	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11-S		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES.	DRN. <i>CBM/Coy</i>	DATE 11-16-72	 <b>digital</b> EQUIPMENT CORPORATION <small>MAYNARD MASSACHUSETTS</small>	
TOLERANCES	CHK'D.	DATE		
DECIMALS ANGLES	ENG. <i>[Signature]</i>	DATE		
XXX = .005 XX = .02 X = .1	PROJ. ENG. <i>[Signature]</i>	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. <i>[Signature]</i>	DATE	TITLE	
MATERIAL	NEXT HIGHER ASSY.		LAB PERIPHERAL SYSTEM (LPS11-S)	
FINISH	B-DD-LPS11-S	SCALE 1/2	SIZE CODE	NUMBER
	SHEET 2 OF 3		DUA	LPS11-S-0
			DIST.	REV. D

REV D  
NUMBER  
DUAL LPS11-S-0

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- NOTES:
- FOR 230V OPERATION: INSTALL BC05J.  
FOR 115V OPERATION: INSTALL BC05H.
  - FOR 100V OPERATION: REMOVE BROWN TRANSFORMER WIRE AND RED FAN WIRE FROM P7-5 CUT CRIMP OFF.  
REMOVE WHT TRANSFORMER WIRE AND RED J3-2 WIRE FROM P7-4 CUT CRIMP OFF.  
REMOVE RED/YEL TRANSFORMER WIRE FROM P5-1 CUT CRIMP OFF.  
REMOVE BLK/YEL TRANSFORMER WIRE FROM P5-2 CUT OFF CRIMP.  
INSTALL CRIMP ON BROWN WIRE AND PLACE IN P5-1.  
INSTALL CRIMP ON WHITE WIRE AND PLACE IN P5-2.  
INSTALL CRIMP ON RED/YEL AND RED FAN WIRES AND PLACE IN P7-5.  
INSTALL CRIMP ON BLK/YEL AND RED J3-2 WIRES AND PLACE IN P7-4.
  - ALL WIRES ARE #18AWG UNLESS OTHERWISE NOTED.

REV	
CHG	
CHK	
REVISIONS	
CHANGE NO	
DEC FORM NO	
DRW 100-A	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11-S				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN C/M/G	DATE 11-22-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	ANGLES	ENG.	TITLE	
XXX = .005	±0° 30'	PROJ. ENG. A. White	LAB PERIPHERAL SYSTEM (LPS11-S)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. R. De...	DATE 12/14/72		
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV
FINISH	B-DD-LPS11-S	DUA	LPS11-S-0	D
	SCALE NONE	SHEET 3 OF 3	DIST	

REV D  
NUMBER LPS11-S-0  
SIZE CODE DUA

**DIGITAL EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS  
**PARTS LIST**

MADE BY C.B. MCCOY	CHECKED <i>R. G. Galle</i>	SECTION
DATE 11/17/72	DATE 12-6-72	
ENG <i>R. G. Galle</i>	PROD <i>R. Davis</i>	ISSUED SECT.
DATE 12-6-72	DATE 12/7/72	

QUANTITY / VARIATION

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	LPS11-SA	LPS11-SB	LPS11-SC	LPS11-SD	LPS11-SE	LPS11-SF						
1	D-AD-7009085-0-0	CONSOLE ASSY (LPS11-S)	1	1	1	1	1	1						
2	E-IA-7409458-0-0	CHASSIS	1	1	1	1	1	1						
3	C-MD-7409460-0-0	COVER, TOP	1	1	1	1	1	1						
4	D-IA-7409533-1-0	COVER, SIDE	1	1	1	-	-	-						
5	E-AD-7009048-0-0	SUPER COVER ASSY (LPS)	-	-	-	1	1	1						
6	D-AD-7009110-0-0	WIRED ASSY	1	1	1	1	1	1						
7	C-UA-BC05H-0-0	LINE SET BC05H (115V/60HZ)	1	-	1	1	-	1						
8	C-UA-BC05J-0-0	LINE SET BC05J (230V/50HZ)	-	1	-	-	1	-						
9	D-MU-LPS11-S-1	MODULE UTILIZATION	1	1	1	1	1	1						
10	C-IA-7411303-0-0	CARD GUIDE R.H. (REWORK)	1	1	1	1	1	1						
11	C-IA-7411273-0-0	CARD GUIDE L.H. (REWORK)	1	1	1	1	1	1						
12	B-MD-7411168-0-0	RET. CONN. BLOCK FRONT	1	1	1	1	1	1						
13	B-MD-7411167-0-0	RET. CONN. BLOCK REAR	1	1	1	1	1	1						
14	9008196	CLIP-ON RECPT. -SOUTHCO #82-47-104-15	4	4	4	4	4	4						
15	E-UA-H755-0-0	H755 POWER SUPPLY	1	1	1	1	1	1						
16	D-IA-7409875-0-0	PANEL, REAR MTG.	1	1	1	1	1	1						
17	9009191	SCREW, PHL. PAN HD. NYLOK #8-32 X 1/4 LG	19	19	19	17	17	17						
18	B-MD-7410695-1-0	TAB, PROTECTIVE (R.H.)	1	1	1	1	1	1						
19	B-MD-7410695-2-0	TAB, PROTECTIVE (L.H.)	1	1	1	1	1	1						
20	E-IA-7009108-0-0	H755 P.S. HARNESS ASSY	1	1	1	1	1	1						
21	A-DC-5309900-0-0	POWER CONTROL DECAL (230V)	-	1	-	-	1	-						
22	A-DC-5309899-0-0	POWER CONTROL DECAL (115V)	1	-	1	1	-	1						

TITLE LAB PERIPHERAL SYSTEM (LPS11-S)	ASSY NO. D-UA-LPS11-S-0	SIZE A	CODE PL	NUMBER LPS11-S-0	REV. D	ECO NO. LPS11S-00010
SHEET 1 OF 3		DIST. 6				

**DIGITAL EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS  
**PARTS LIST**

MADE BY C.B. MCCOY	CHECKED <i>R. G. Galle</i>	SECTION
DATE 11-17-72	DATE 12-6-72	
ENG <i>R. G. Galle</i>	PROD <i>R. Davis</i>	ISSUED SECT.
DATE 12-6-72	DATE 12/7/72	

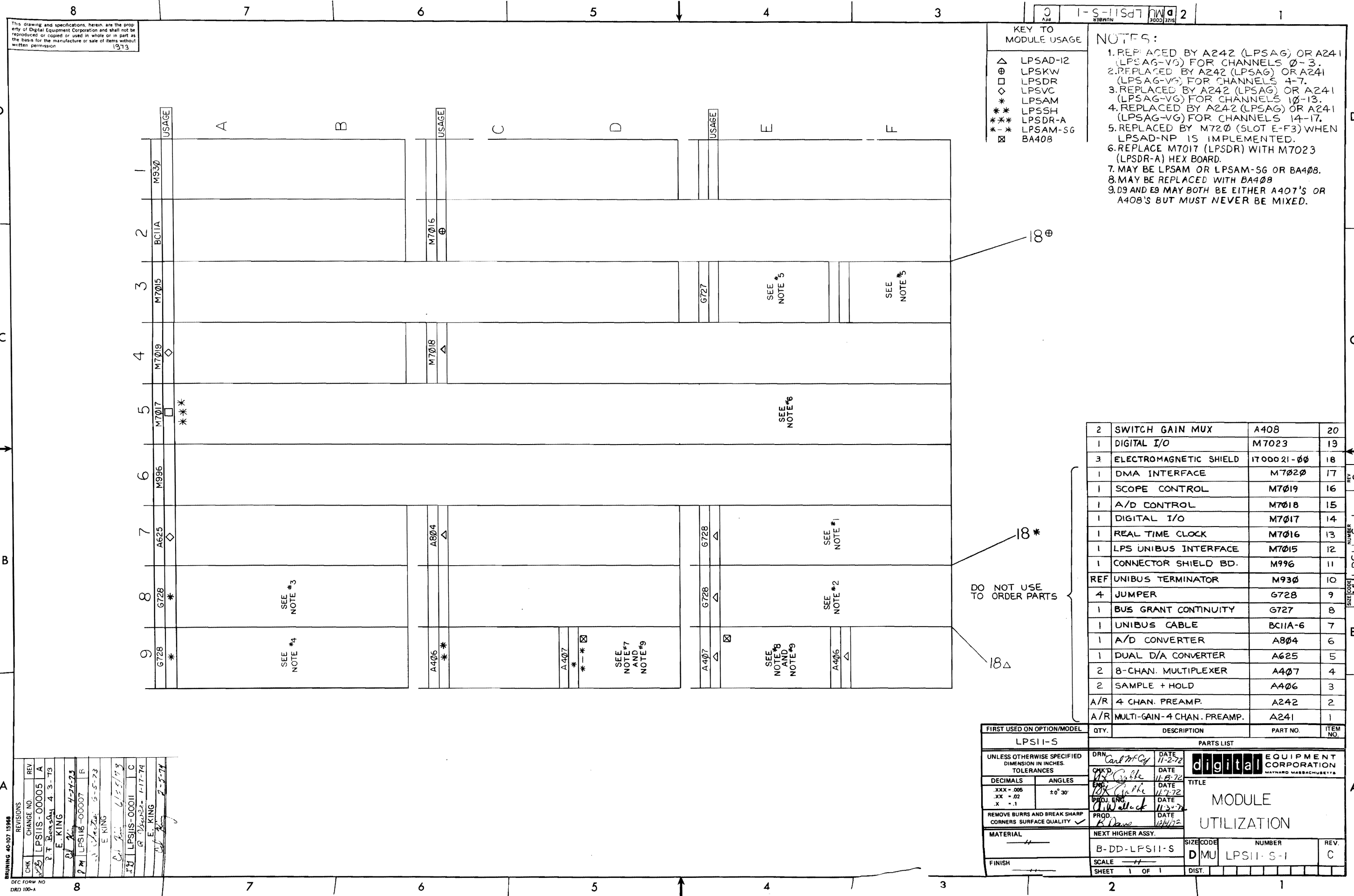
QUANTITY / VARIATION

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	LPS11-SA	LPS11-SB	LPS11-SC	LPS11-SD	LPS11-SE	LPS11-SF						
23	9009265-0	BINDING POST #208 HERMAN SMITH	1	1	1	1	1	1						
24	9009224	SCREW, SLOT. PAN HD. #8-32 X 1/4 LG	10	10	10	8	8	8						
25	C-IA-7009106-0-0	SWITCH ASSY	1	1	1	1	1	1						
26	C-PS-1210698-0-0	GUIDE, CARD CENTER	1	1	1	1	1	1						
27	C-MD-7410557-0-0	ANGLE, SUPPORT	-	-	-	1	1	1						
28	D-MD-7410694-0-0	FOAM, INSULATING	1	1	1	1	1	1						
29	9009192	SCREW, PHL. PAN HD NYLOK #8-32 X 3/8 LG	6	6	6	6	6	6						
30	9009186	SCREW, PHL. PAN HD NYLOK #6-32 X 5/16 LG	5	5	5	5	5	5						
31	9009019-3	SCREW, PHL. TRUSS HD #10-32 X 1/4 LG	4	4	4	4	4	4						
32	9007651	WASHER, EXT. TOOTH LOCK #10	4	4	4	4	4	4						
33	9006026-3	SCREW, PHL. TRUSS HD #6-32 X 3/4 LG	2	2	2	2	2	2						
34	D-IA-7409459-0-0	BRACKET, CHASSIS SLIDE (L.H.)	1	1	1	-	-	-						
35	C-IA-7409449-0-0	BRACKET, CHASSIS SLIDE (R.H.)	1	1	1	-	-	-						
36	9007649	WASHER, EXT. TOOTH LOCK #6	2	2	2	2	2	2						
37	9009267	BUMPER, RECESS #18-W ATLANTIC	-	-	-	4	4	4						
38	9006039-3	SCR, PHL TRUSS HD #8-32 X 1/2 LG SST	-	-	-	4	4	4						
39	1210945	CHASSIS SLIDE	PR	PR	PR	-	-	-						
40	B-MD-7409816-0-0	SHIPPING BRACKET	2	2	2	-	-	-						
41	9006035-1	SCREW, PHL. PAN HD #8-32 X 1/4 LG	2	2	2	-	-	-						
42	D-IA-7410717-0-0	COVER, SIDE	-	-	-	1	1	1						
43	D-UA-BC05P-0-0	LPSVC TO TEK SCOPES	A/RA	RA	RA	RA	R	A/RA	RA					
44	D-UA-BC05R-0-0	LPSVC TO TEK 503	A/R	A/RA	RA	RA	RA	RA	RA					

TITLE LAB PERIPHERAL SYSTEM (LPS11-S)	ASSY NO. D-UA-LPS11-S-0	SIZE A	CODE PL	NUMBER LPS11-S-0	REV. D	ECO NO.
SHEET 2 OF 3		DIST. 6				

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS <b>PARTS LIST</b>				QUANTITY / VARIATION																
MADE BY C.B. MCCOY		CHECKED <i>OK Cable</i>		SECTION																
DATE 11-17-72		DATE 12-6-72		ISSUED SECT.																
ENG <i>OK Cable</i>		PROD <i>R Daw</i>																		
DATE 12-6-72		DATE 12/7/72																		
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION		LPS11-SA	LPS11-SB	LPS11-SC	LPS11-SD	LPS11-SE	LPS11-SF											
45	D-UA-BC05-0-0	LPSVC TO DISPLAYS, BNC CONN.		A/R	A/R	A/R	A/R	A/R	A/R											
46	A-PL-LPSDR-0-0	LPSDR		↑	↑	↑	↑	↑	↑											
47	A-PL-LPSKW-0-0	LPSKW																		
48	A-PL-LPSVC-0-0	LPSVC																		
49	A-PL-LPSSH-0-0	LPSSH																		
50	A-PL-LPSAM-0-0	LPSAM																		
51	A-PL-LPSAG-0-0	LPSAG-0																		
52	A-PL-LPSAG-0-0	LPGAG-VG																		
53	A-PL-LPSAD-0-0	LPSAD-12		↓	↓	↓	↓	↓	↓											
54	A-PL-LPSAD-0-0	LPSAD-NP		A/R	A/R	A/R	A/R	A/R	A/R											
55	BC11A-6	UNIBUS CABLE		1	1	1	1	1	1											
56	G727	BUS GRANT CONTINUITY		1	1	1	1	1	1											
57	M996	CONNECTOR SHIELD BOARD		1	1	1	1	1	1											
58	M7015	LPS UNIBUS INTERFACE		1	1	1	1	1	1											
59	9008181-1	SCR. PHL. PAN HD. TYPE F# 6-32X.50 LG		6	6	6	6	6	6											
60	9009525-1	SCR. PHL. PAN. HD. TYPE F#6-32X.38 LG		4	4	4	4	4	4											
TITLE				ASSY NO.		SIZE		CODE		NUMBER		REV.		ECO NO.						
LAB PERIPHERAL SYSTEM (LPS11-S)				D-UA-LPS11-S-0		A		PL		LPS11-S-0		D								
SHEET 3 OF 3				DIST.		6														

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KEY TO MODULE USAGE

- △ LPSAD-12
- ⊕ LPSKW
- LPSDR
- ◇ LPSVC
- \* LPSAM
- \*\* LPSAH
- \*\*\* LPSDR-A
- \*-\* LPSAM-SG
- ⊗ BA408

- NOTES:
1. REPLACED BY A242 (LPSAG) OR A241 (LPSAG-VG) FOR CHANNELS 0-3.
  2. REPLACED BY A242 (LPSAG) OR A241 (LPSAG-VG) FOR CHANNELS 4-7.
  3. REPLACED BY A242 (LPSAG) OR A241 (LPSAG-VG) FOR CHANNELS 10-13.
  4. REPLACED BY A242 (LPSAG) OR A241 (LPSAG-VG) FOR CHANNELS 14-17.
  5. REPLACED BY M720 (SLOT E-F3) WHEN LPSAD-NP IS IMPLEMENTED.
  6. REPLACE M7017 (LPSDR) WITH M7023 (LPSDR-A) HEX BOARD.
  7. MAY BE LPSAM OR LPSAM-SG OR BA408.
  8. MAY BE REPLACED WITH BA408.
  9. D9 AND E9 MAY BOTH BE EITHER A407'S OR A408'S BUT MUST NEVER BE MIXED.

QTY.	DESCRIPTION	PART NO.	ITEM NO.
2	SWITCH GAIN MUX	A408	20
1	DIGITAL I/O	M7023	19
3	ELECTROMAGNETIC SHIELD	1700021-00	18
1	DMA INTERFACE	M7020	17
1	SCOPE CONTROL	M7019	16
1	A/D CONTROL	M7018	15
1	DIGITAL I/O	M7017	14
1	REAL TIME CLOCK	M7016	13
1	LPS UNIBUS INTERFACE	M7015	12
1	CONNECTOR SHIELD BD.	M996	11
REF	UNIBUS TERMINATOR	M930	10
4	JUMPER	G728	9
1	BUS GRANT CONTINUITY	G727	8
1	UNIBUS CABLE	BC11A-6	7
1	A/D CONVERTER	A804	6
1	DUAL D/A CONVERTER	A625	5
2	B-CHAN. MULTIPLEXER	A407	4
2	SAMPLE + HOLD	A406	3
A/R	4 CHAN. PREAMP.	A242	2
A/R	MULTI-GAIN-4 CHAN. PREAMP.	A241	1

DO NOT USE TO ORDER PARTS

BRUNING 40-107 1568

CHK	CHANGE NO.	REV
1	LPSIIS-00005	A
2	4-3-73	
3	4-3-73	
4	4-3-73	
5	4-3-73	
6	4-3-73	
7	4-3-73	
8	4-3-73	
9	4-3-73	
10	4-3-73	
11	4-3-73	
12	4-3-73	
13	4-3-73	
14	4-3-73	
15	4-3-73	
16	4-3-73	
17	4-3-73	
18	4-3-73	
19	4-3-73	
20	4-3-73	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPSII-S				

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN	DATE	EQUIPMENT CORPORATION
DECIMALS	Carl McCoy	11-2-72	digital CORPORATION MAYNARD, MASSACHUSETTS
ANGLES	11/8/72	11-8-72	
.XXX - .005	11/9/72	11-9-72	
.XX - .02	11/30/72	11-30-72	
.X - .1	12/4/72	12-4-72	

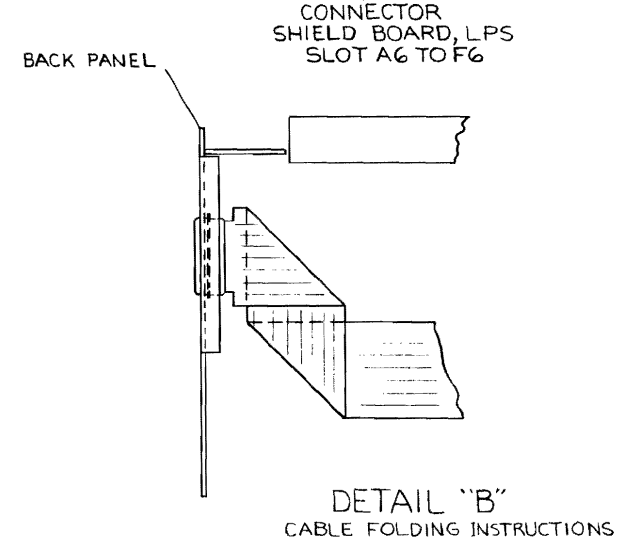
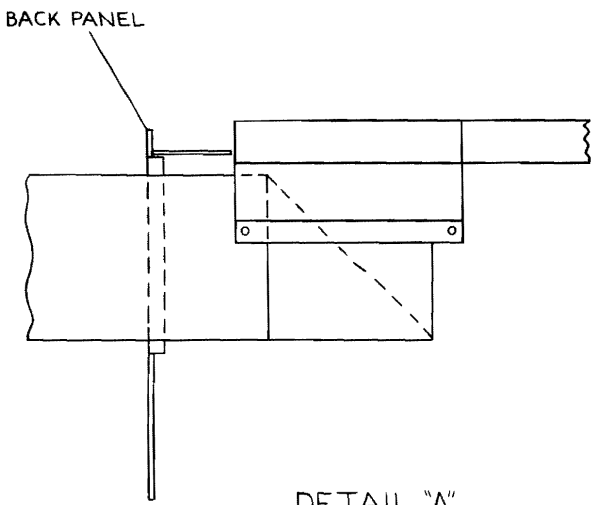
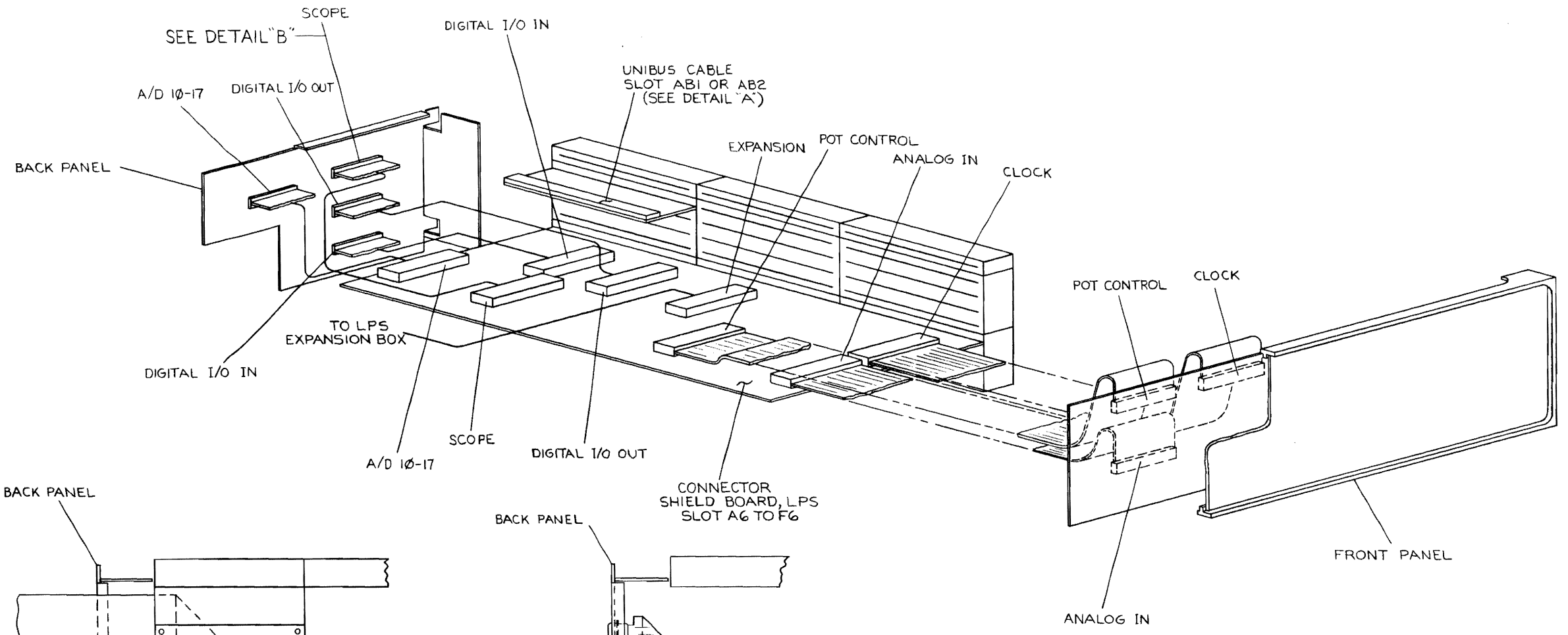
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
	B-DD-LPSII-S	DMU	LPSII-S-1	C

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ. ENG.	DATE	TITLE
✓	W. Waller	11-30-72	MODULE UTILIZATION

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SIZE CODE: D I C LPS11-S-2  
 NUMBER: 2

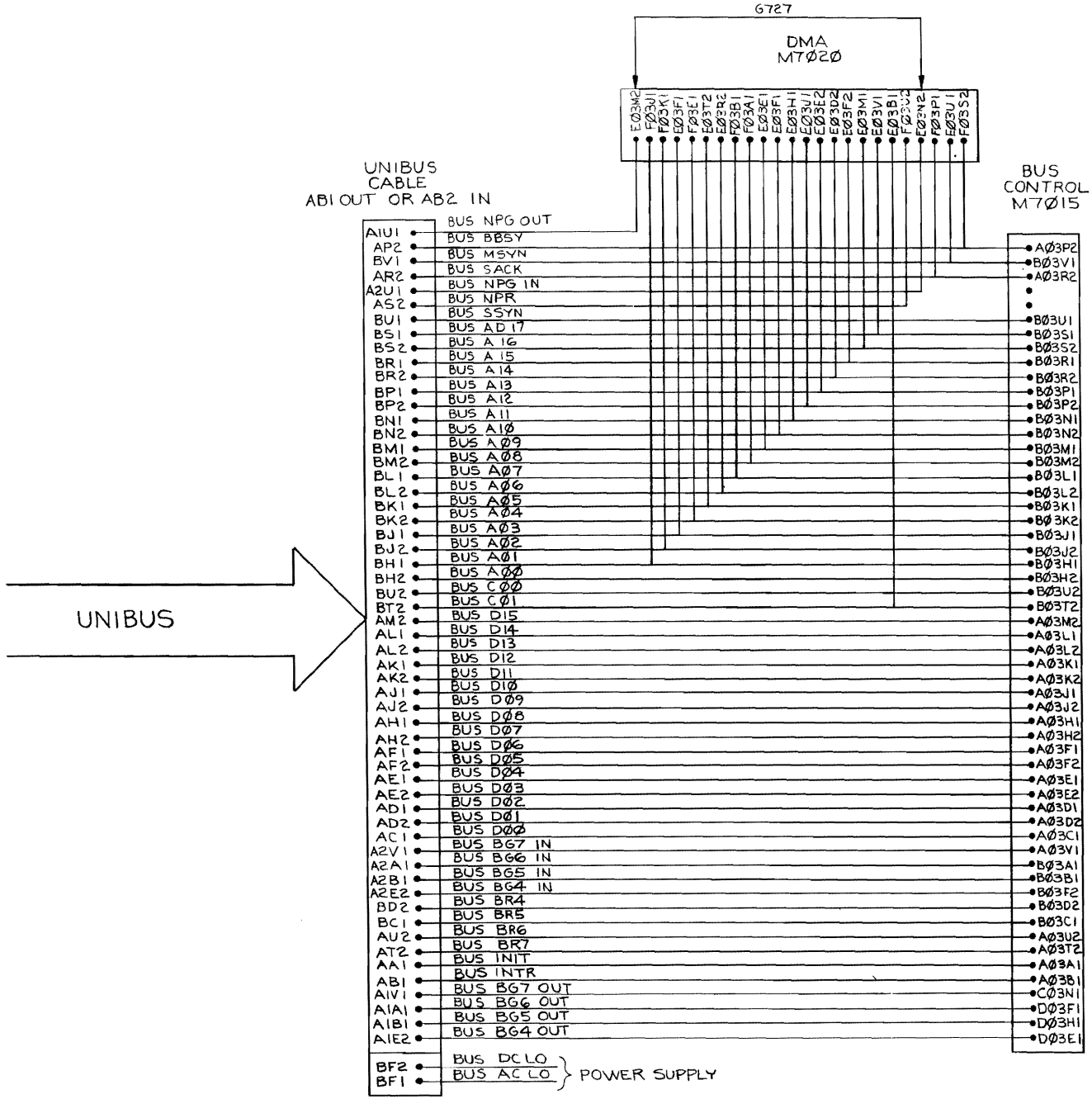


FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11-S				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
.XXX = .005	±0° 30'	DRN. <i>CBM/Gj</i> DATE 11-6-72	 digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS TITLE CABLE CONFIGURATION	
.XX = .02		CHK'D. <i>W. G. G.</i> DATE 11-28-72		
.X = .1		ENG. <i>W. G. G.</i> DATE 11-30-72		
		PROJ. ENG. <i>A. W. G.</i> DATE 11-21-72		
		PROD. <i>R. Davis</i> DATE 11-21-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓				
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH	B-DD-LPS11-S		D I C	LPS11-S-2
	SCALE	NONE		
	SHEET	1 OF 1	DIST.	

REV.	CHANGE NO.

DEC FORM NO. DRD 102-B

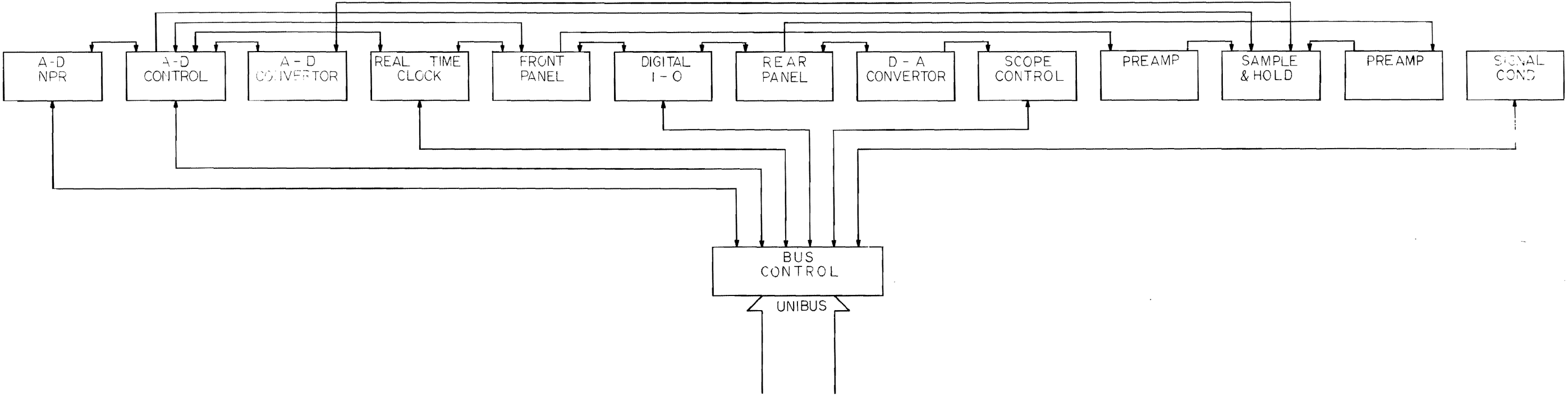
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REV	
CHK	
CHANGE NO	
REVISIONS	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11-S				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES.	DRN <i>CBM</i>	DATE 11-8-78	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
TOLERANCES	CHK'D <i>CBM</i>	DATE 11-7-78	TITLE	
DECIMALS .XXX = .005	ENG <i>WJ</i>	DATE 11-30-78	UNIBUS TO LPS11-S	
ANGLES ± 0° 30'	PROJ. ENG. <i>WJ</i>	DATE 11-30-78	REV.	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. <i>R. Davis</i>	DATE 12/14/78	SIZE CODE NUMBER	
MATERIAL	NEXT HIGHER ASSY.		D	BD LPS11-S-3
FINISH	SCALE			
	SHEET OF			

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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11-S				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN <i>CBM/Coy</i>	DATE 11-9-72	<b>digital</b> EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
		CHK'D <i>R. Smith</i>	DATE	
DECIMALS	ANGLES	ENG. <i>Ch. Key</i>	DATE 11-30-72	TITLE <b>LPS11-S SYSTEM</b>
.XXX = .005	±0° 30'	PROJ. ENG. <i>Ch. W. Dink</i>	DATE 11-30-72	
.XX = .02		PROD. <i>R. Darn</i>	DATE 12-19-72	
.X = .1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓				
MATERIAL	NEXT HIGHER ASSY.			
FINISH	B-DD-LPS11-S		SIZE CODE <b>D BD</b>	NUMBER LPS11-S-4
	SCALE	SHEET 1 OF 1		DIST.

REV.	CHANGE NO.	REVISIONS

DEC 1972 FORM NO 102-B

REV. NUMBER LPS11-S-4

A

8 7 6 5 4 3 2 1

D

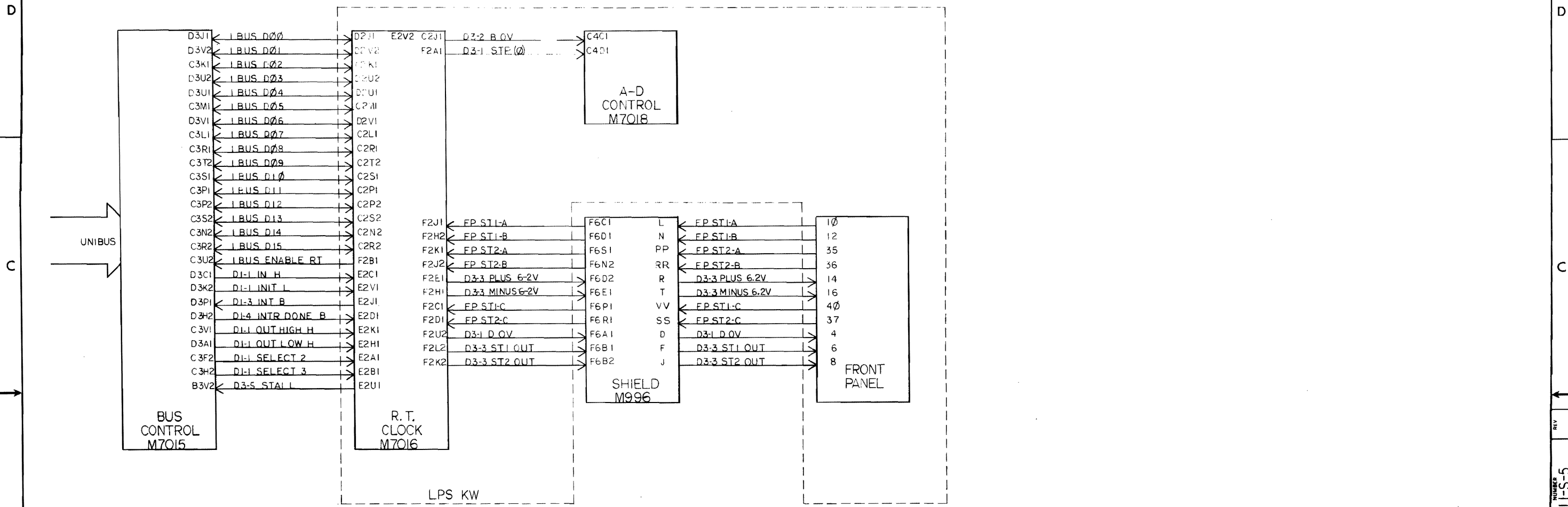
C

B

A

8 7 6 5 4 3 2 1

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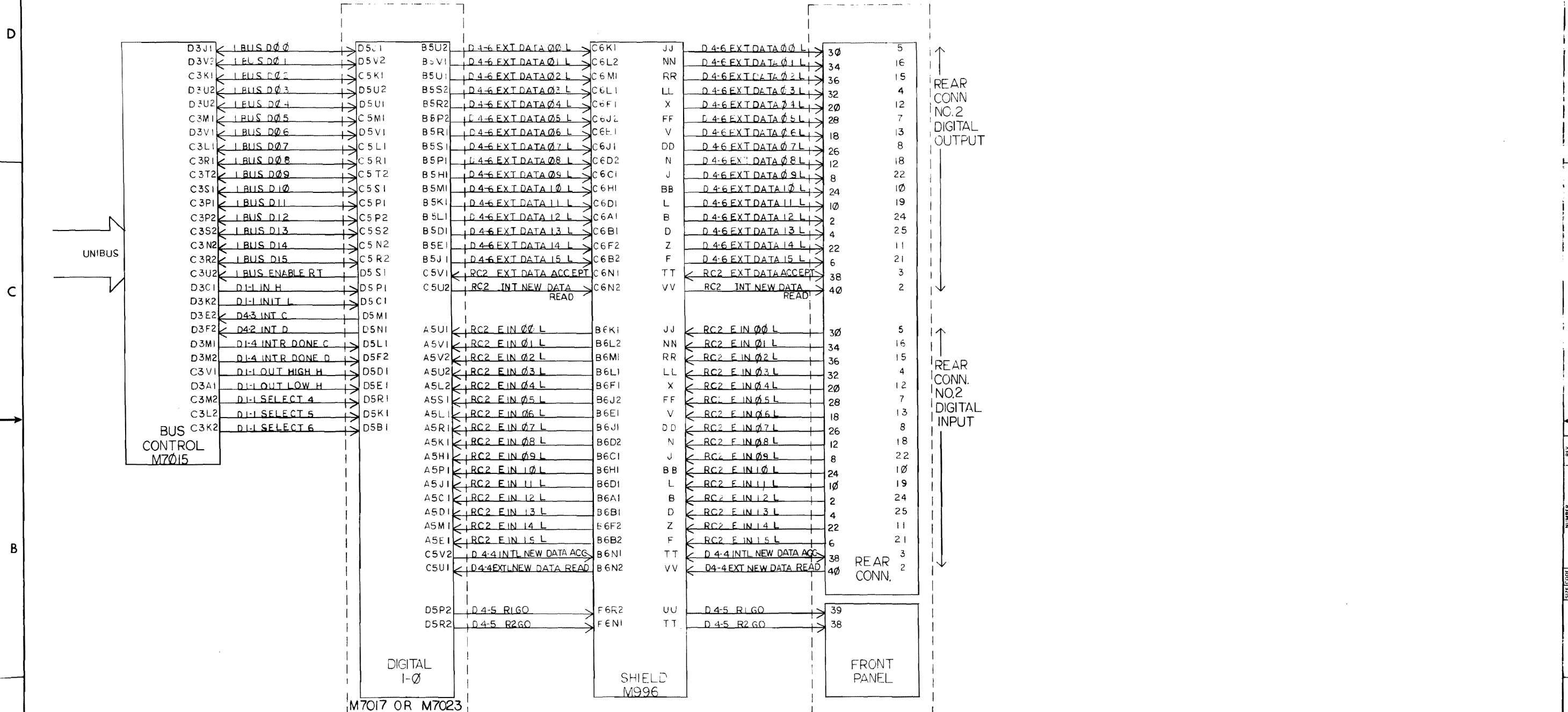
BRUNING 40-522 15840	REVISIONS	REV
CHK	CHANGE NO	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11-S		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN E. MOLLER 10-72	DATE 11-30-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS .XXX = .005 .XX = .02 .X = .1	ENGR D. King	DATE 11-30-72	TITLE LPSKW	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ ENG D. Walcott	DATE 11-30-72		
MATERIAL	PROD R. Davis	DATE 12/1/72		
FINISH	NEXT HIGHER ASSY.	SIZE CODE NUMBER REV.		
	B-DD-LPS11-S	D	BD	LPS11-S-5
	SCALE	SHEET OF		

REV LPS11-S-5

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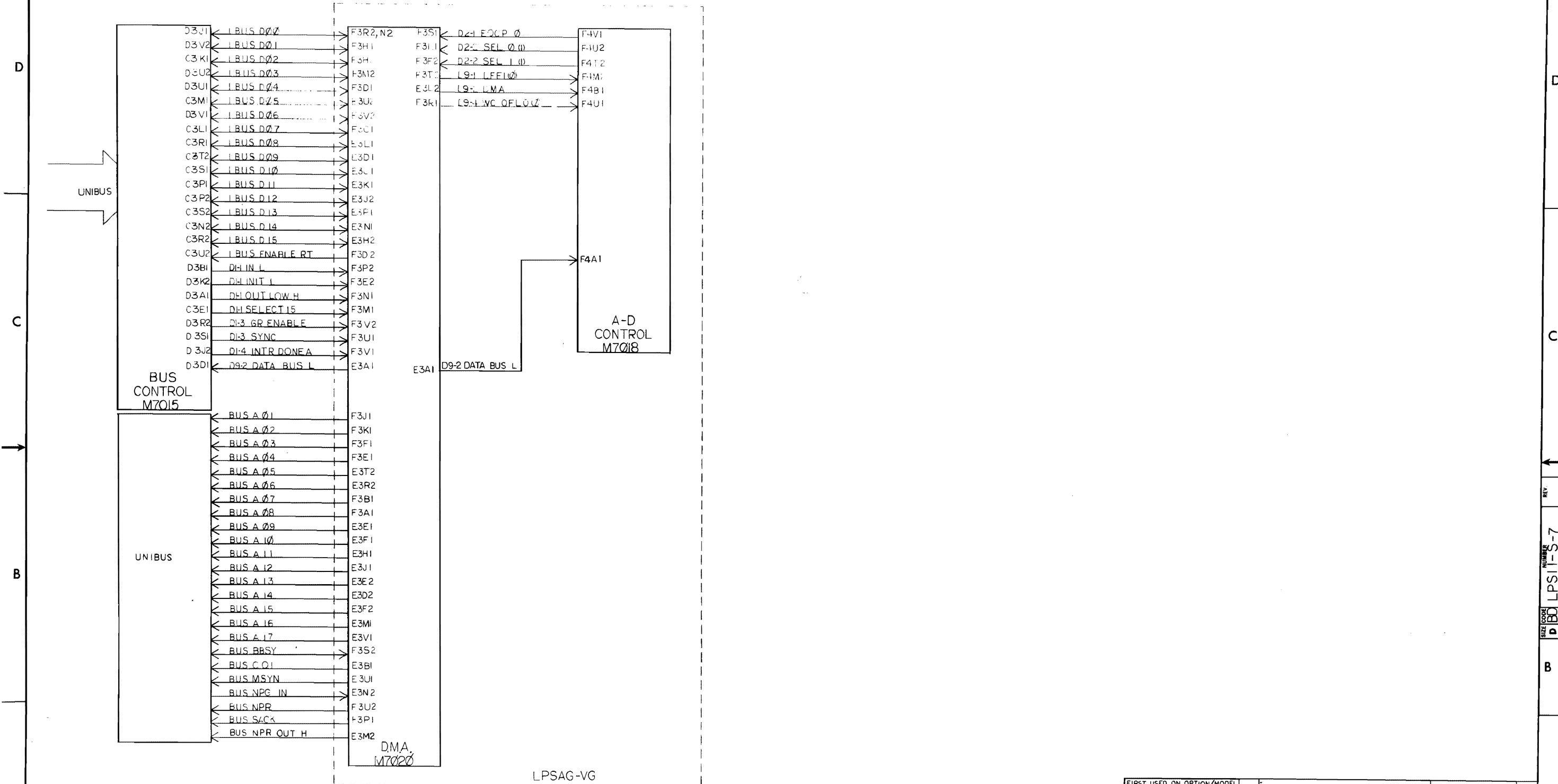
8 9-S-115-6



BRUNING 40-522 15840	REV	DATE
CHK	CHANGE NO	
LPSIIS-0006	A	5-7-73
E. KING		6-5-73
LPSIIS-0001	B	1-13-74
E. KING		7-5-74

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPSII-S				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES				
DECIMALS	ANGLES	DATE	PARTS LIST	
.XXX + .005	± 0° 30'	10-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
.XX - .02		11-30-72	TITLE	
X - 1		11-30-72	LPSDR	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓				
MATERIAL	NEXT HIGHER ASSY.	PRQD.	DATE	
	B-DD-LPSII-S			
FINISH	SCALE	SHEET	OF	DIST.
		1	1	

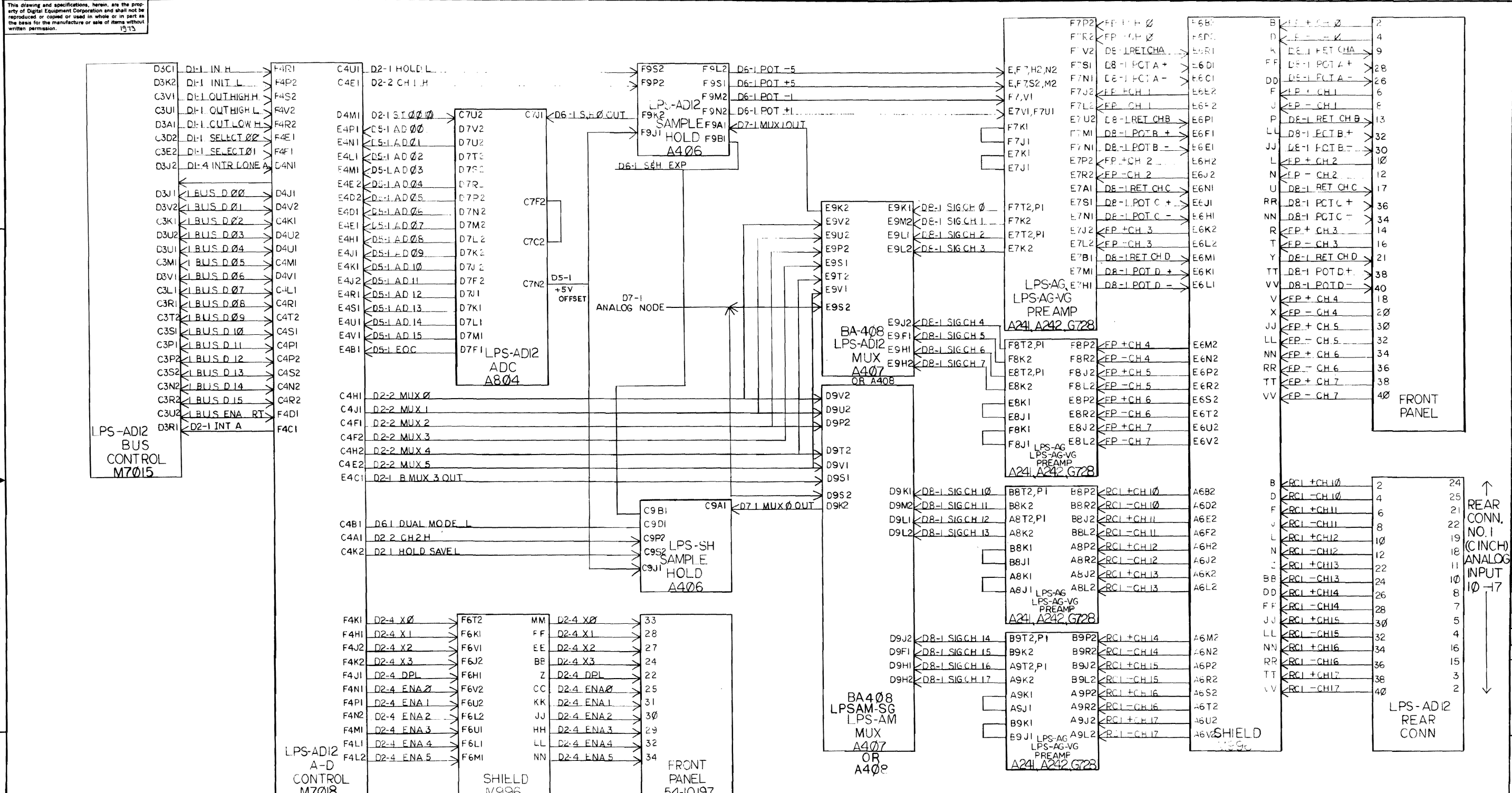
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REV	
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL LPS11-S	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	TITLE	
DIMENSION IN INCHES			LPSAD-NP	
TOLERANCES	ENG	DATE		
DECIMALS FRACTIONS ANGLES				
± .005 ± 1/64 ± 0°30'	PROJ. ENGR.	DATE		
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS	PROD.	DATE		
MATERIAL				
FINISH				
NEXT HIGHER ASSY		SCALE		
B-DD-LPS11-S		SHEET 1 OF 1		
SIZE CODE		NUMBER		
DBD		LPS11-S-7		
DIST.		REV.		

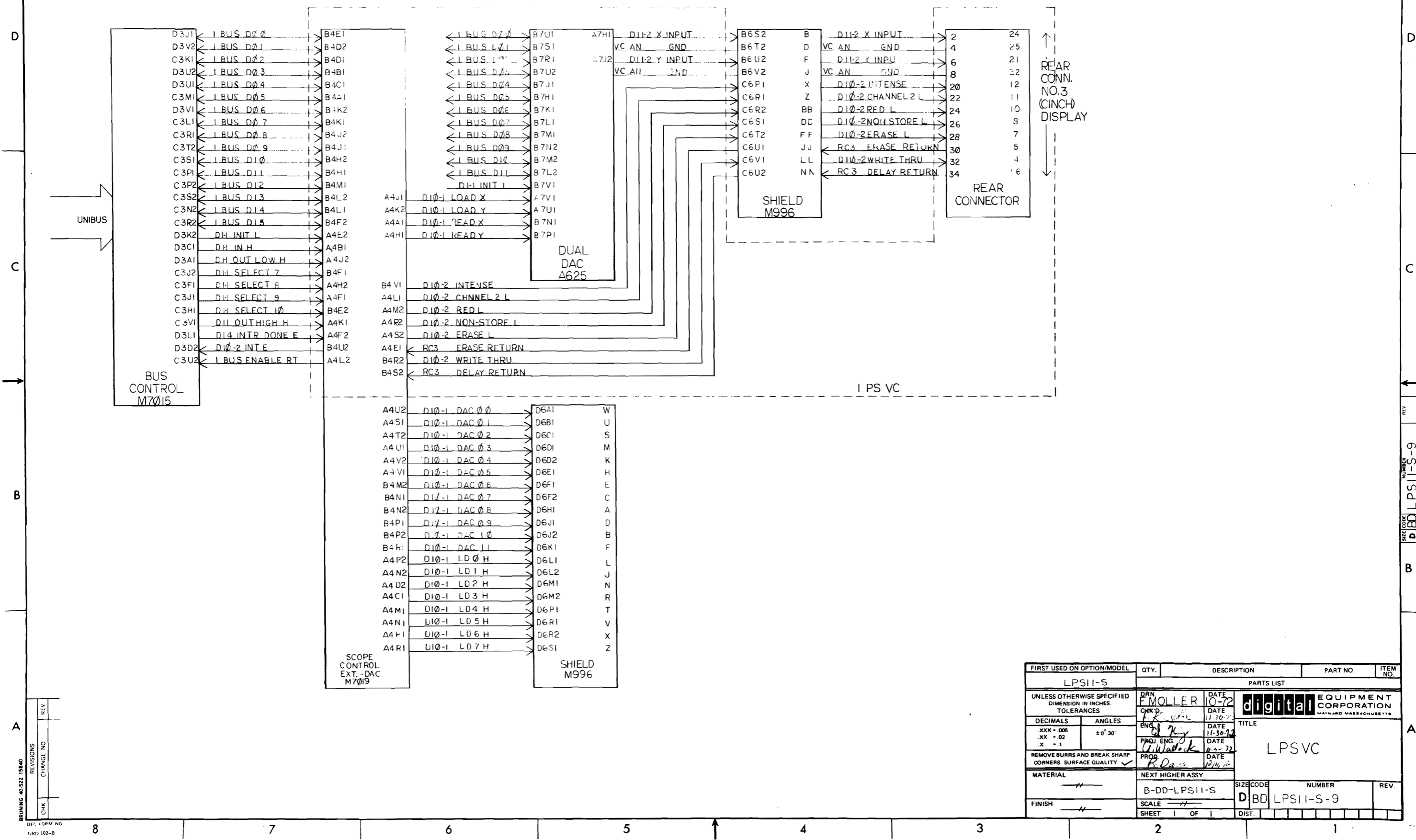
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1973



CHK	CHANGE NO	REV
	LPSIIS-00005	A
	4-3-73	
	1-24-73	
	LPSIIS-00011	B
	1-18-74	
	8-5-74	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPSII-S				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED		DRN	DATE	
DIMENSION IN INCHES		F. MOLLER	10-72	
TOLERANCES		CHK'D	DATE	
DECIMALS FRACTIONS ANGLES			11-30-72	
± .005 ± .1/64 ± .030		ENG	DATE	
REMOVE BURRS AND BREAK SHARP CORNERS		PROJ ENR	DATE	
			11-30-72	
MATERIAL		PROD	DATE	
			12/1/72	
FINISH		NEXT HIGHER ASSY		
		B-DD-LPSII-S		
SCALE		SIZE CODE	NUMBER	REV.
SHEET OF 1		D	LPSII-S-8	B

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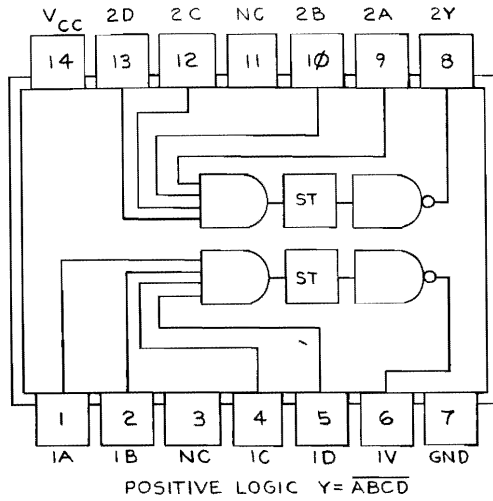
REV	CHANGE NO	REVISIONS

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPSII-S				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN. F. MOLLER 10-72	DATE 11-30-72	 <b>digital</b> EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>
DECIMALS	ANGLES	CHK'D. [Signature]	DATE 11-30-72	
.XXX - .005	± 0° 30'	ENG. [Signature]	DATE 11-30-72	
.XX - .02		PROJ. ENG. [Signature]	DATE 11-30-72	
.X - .1		PROJ. [Signature]	DATE 11-30-72	
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY		TITLE <b>LPSVC</b>		
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE NUMBER REV.		
FINISH	B-DD-LPSII-S	D BD LPSII-S-9		
SCALE		SHEET 1 OF 1		
DIST.				

REV. NUMBER LPSII-S-9

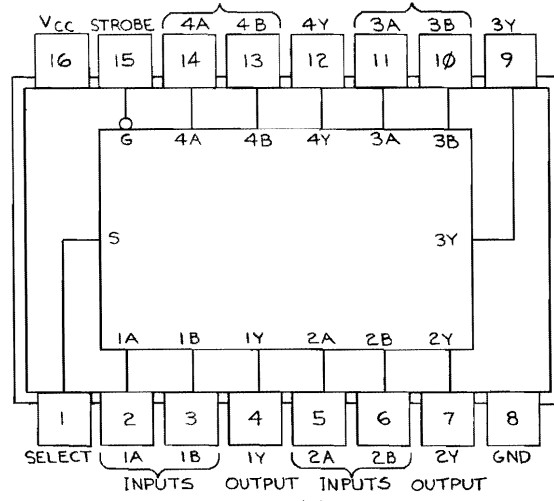
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SN7413  
1909989  
DUAL NAND SCHMITT TRIGGER



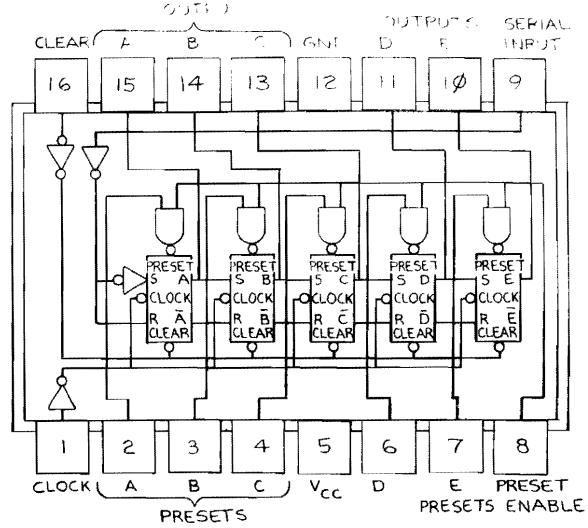
POSITIVE LOGIC  $Y = \overline{ABCD}$

SN74157  
1910655  
QUAD 2 TO 1 MULTIPLEXER



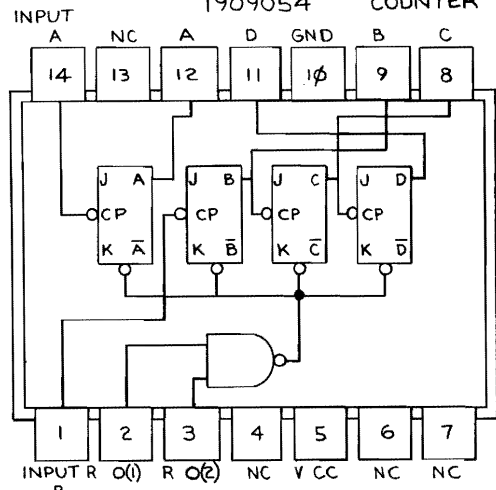
INPUTS		OUTPUT	
STROBE	SELECT	A	B
H	X	X	X
L	L	L	X
L	L	H	X
L	H	X	L
L	H	X	H

POSITIVE LOGIC:  
LOW LOGIC LEVEL AT S SELECTS A INPUTS.  
HIGH LOGIC LEVEL AT S SELECTS B INPUTS.



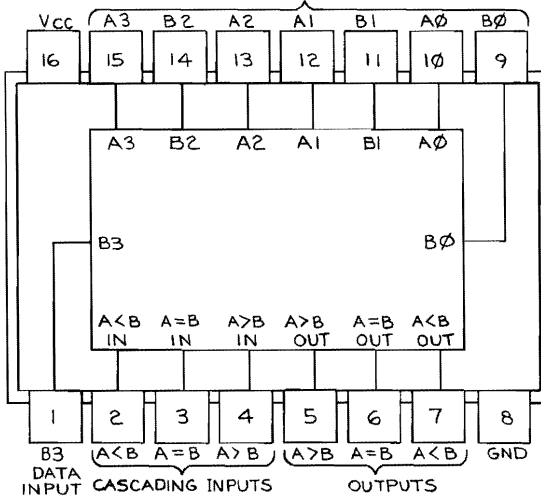
SN7496  
1910363  
5-BIT  
SHIFT REG.

SN7493  
1909054  
4-BIT BINARY COUNTER



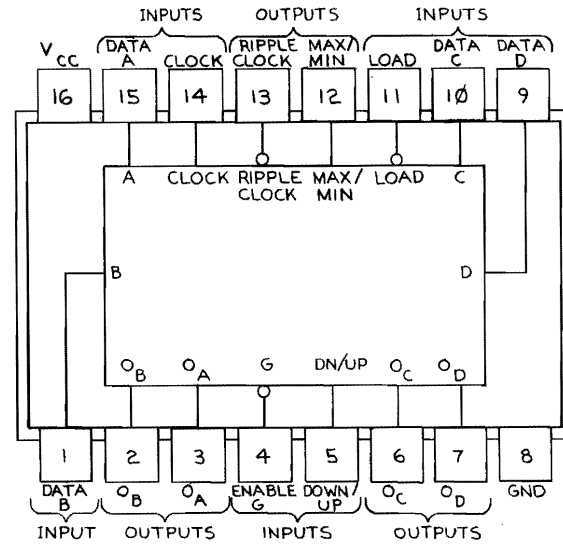
COUNT	OUTPUT			
	D	C	B	A
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

SN7485  
1910224  
4-BIT MAGNITUDE COMPARATOR



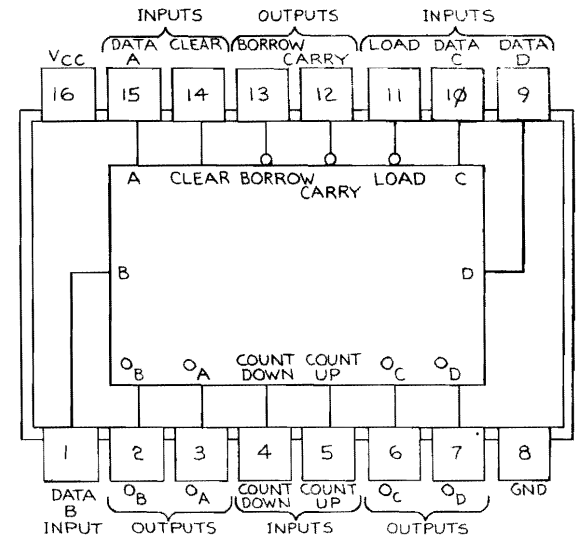
COMPARING INPUTS				CASCADING INPUTS			OUTPUTS		
A3, B3	A2, B2	A1, B1	A0, B0	A>B	A<B	A=B	A>B	A<B	A=B
A3>B3	X	X	X	X	X	X	H	L	L
A3<B3	X	X	X	X	X	X	L	L	L
A3=B3	A2>B2	X	X	X	X	X	H	L	L
A3=B3	A2<B2	X	X	X	X	X	L	L	L
A3=B3	A2=B2	A1>B1	X	X	X	X	H	L	L
A3=B3	A2=B2	A1<B1	X	X	X	X	L	L	L
A3=B3	A2=B2	A1=B1	A0>B0	X	X	X	H	L	L
A3=B3	A2=B2	A1=B1	A0<B0	X	X	X	L	L	L
A3=B3	A2=B2	A1=B1	A0=B0	H	L	L	L	H	L
A3=B3	A2=B2	A1=B1	A0=B0	L	L	H	L	L	H

SN74191  
1910096  
SYNC UP/DWN COUNTER



ASYNCHRONOUS INPUTS: LOW INPUTS TO LOAD SETS  $Q_A=A$ ,  $Q_B=B$ ,  $Q_C=C$ , AND  $Q_D=D$

SN74193  
1910098  
4-BIT UP/DWN COUNTER



LOGIC: LOW INPUTS TO LOAD SETS  $Q_A=A$ ,  $Q_B=B$ ,  $Q_C=C$  AND  $Q_D=D$

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
GT40				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN CHKD ENG PROJ. ENG.	DATE DATE DATE DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS ANGLES			TITLE BASE DIAGRAMS	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD SHEET	DATE	SIZE CODE NUMBER REV.	
MATERIAL	NEXT HIGHER ASSY.		D SP GT40-0-2	
FINISH	SCALE		SHEET 1 OF 4	

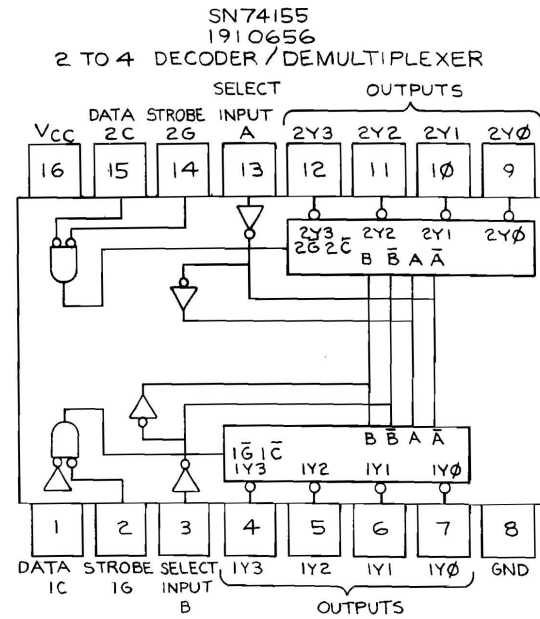
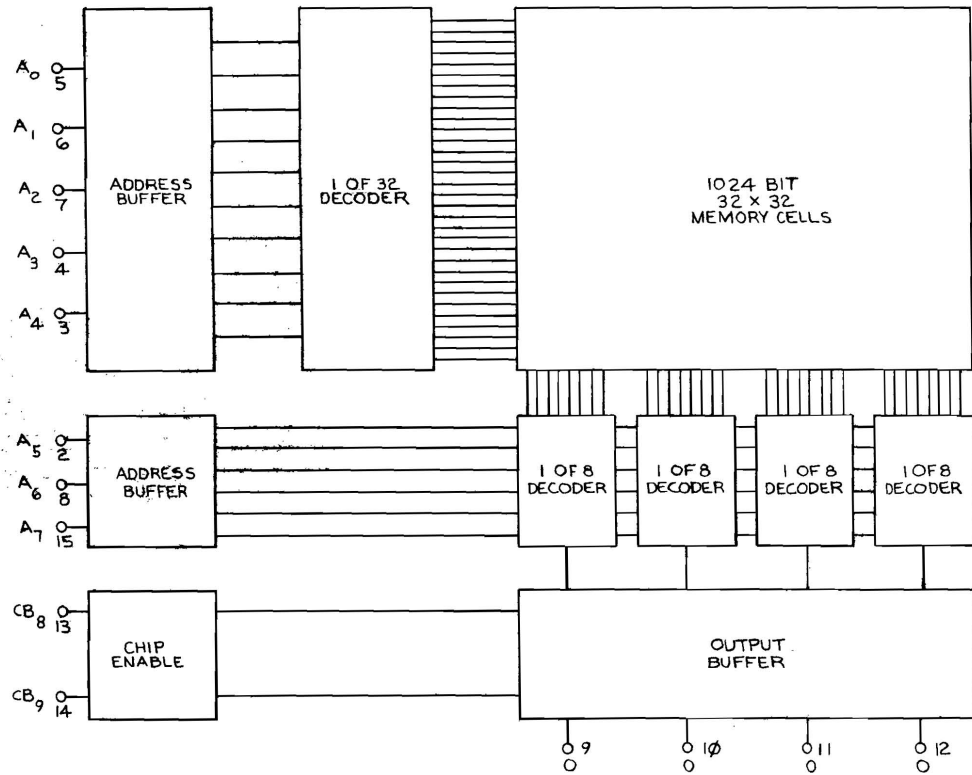
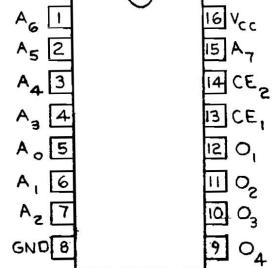
REV. 1  
CHANGE NO.  
CHK  
DEC FORM NO. DRD 100-A

REV. 1  
GT40-0-2

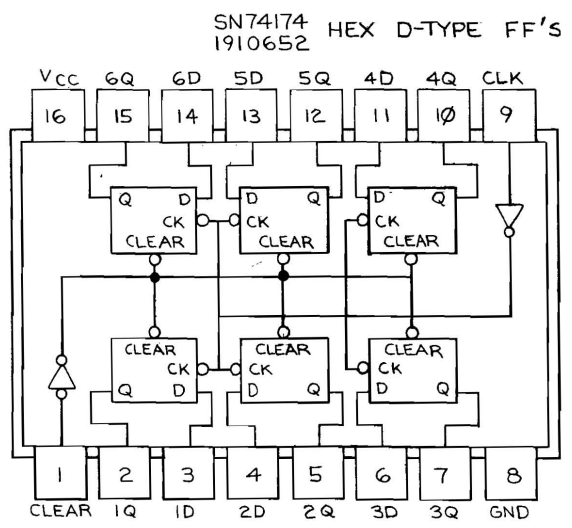


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1M 5603  
23000A2-03  
PROGRAMMABLE READ ONLY MEMORY

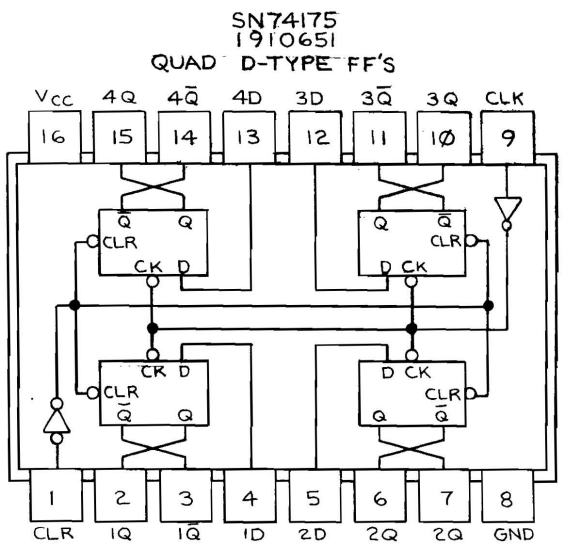
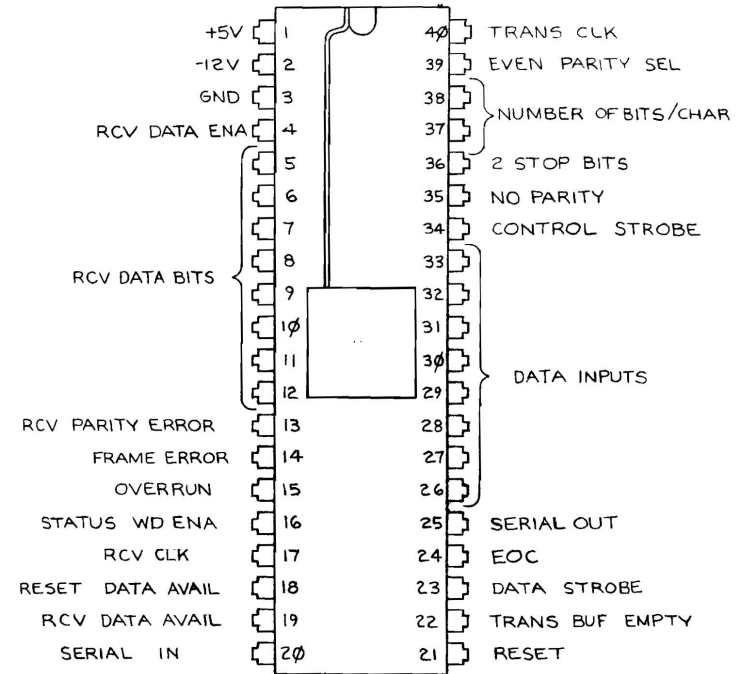


INPUTS			OUTPUTS				
SELECT	STROBE	DATA	1Y0	1Y1	1Y2	1Y3	
B	A	1G	1C	1Y0	1Y1	1Y2	1Y3
X	X	H	X	H	H	H	H
L	L	L	H	H	H	H	H
L	H	L	H	H	H	H	H
H	L	L	H	H	L	L	L
H	H	L	H	H	L	L	L
X	X	X	L	H	H	H	H



POSITIVE LOGIC: SEE FUNCTION TABLE

UART  
1910459  
UNIVERSAL ASYNC. RECEIVER TRANSMITTER

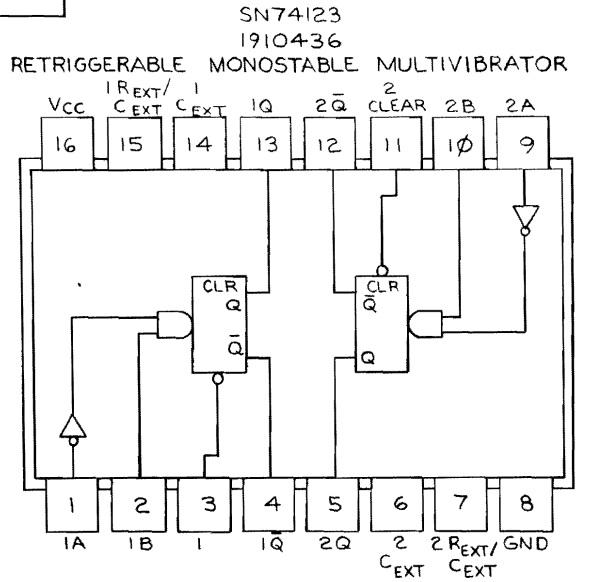


POSITIVE LOGIC: SEE FUNCTION TABLE

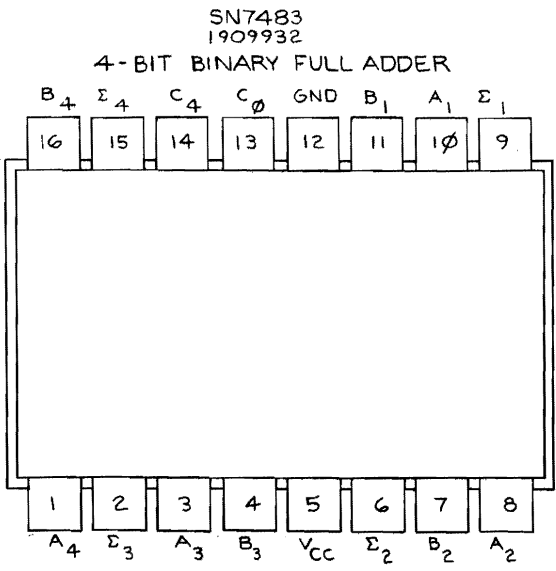
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
GT40		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN. <i>CBM/Cy</i>	DATE 9-25-72	 <b>digital EQUIPMENT CORPORATION</b> <small>MAYNARD, MASSACHUSETTS</small>	
DECIMALS	CHK'D. <i>[Signature]</i>	DATE 10-2-72		
ANGLES	ENG. <i>[Signature]</i>	DATE 10/3/72		
XXX = .005 XX = .02 X = .1	PROJ. ENG. <i>[Signature]</i>	DATE 10/3/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. <i>[Signature]</i>	DATE 10/24/72	TITLE <b>BASE DIAGRAMS</b>	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
FINISH	B-DD-GT40-0	SCALE	DSP	GT40-0-2
	SHEET 3 OF 4	DIST.		

REV.	CHANGE NO.

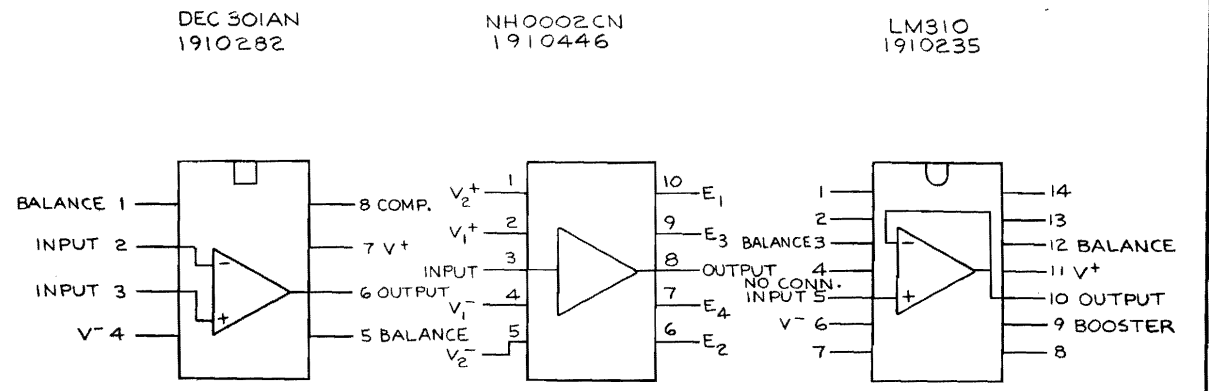
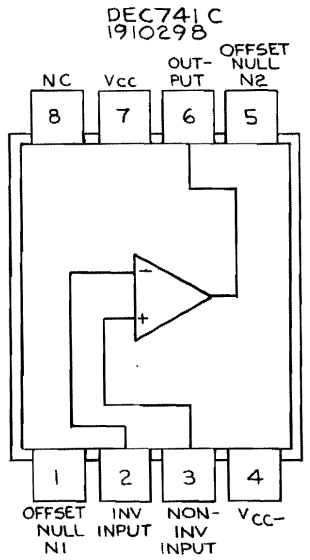
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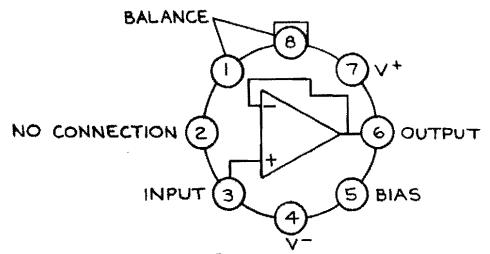
POSITIVE LOGIC  
LOW INPUT TO CLEAR RESETS Q TO LOW LEVEL AND INHIBITS DATA INPUTS.



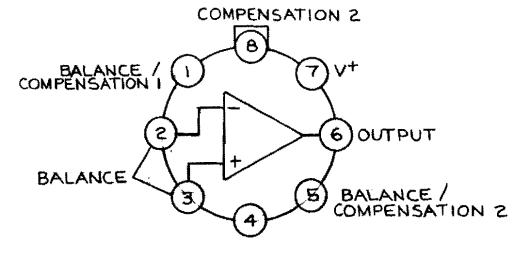
INPUT		OUTPUT							
		WHEN C <sub>0</sub> =0				WHEN C <sub>0</sub> =1			
		WHEN C <sub>2</sub> =0				WHEN C <sub>2</sub> =1			
A <sub>1</sub>	B <sub>1</sub>	A <sub>2</sub>	B <sub>2</sub>	Σ <sub>1</sub>	Σ <sub>2</sub>	C <sub>2</sub>	Σ <sub>1</sub>	Σ <sub>2</sub>	C <sub>2</sub>
0	0	0	0	0	0	0	1	0	0
0	0	0	1	0	0	0	0	1	0
0	0	1	0	0	1	0	1	0	0
0	0	1	1	0	1	0	0	1	0
0	1	0	0	0	1	0	1	0	0
0	1	0	1	0	1	0	0	1	0
0	1	1	0	0	1	0	0	0	1
0	1	1	1	0	1	0	1	0	1
1	0	0	0	1	0	1	0	0	1
1	0	0	1	1	0	1	0	0	1
1	0	1	0	1	0	1	1	0	0
1	0	1	1	1	0	1	0	0	1
1	1	0	0	1	0	1	1	0	1
1	1	0	1	1	0	1	0	1	1
1	1	1	0	1	0	1	0	1	1
1	1	1	1	1	0	1	1	1	1



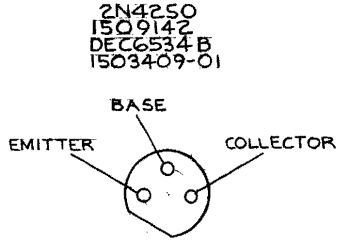
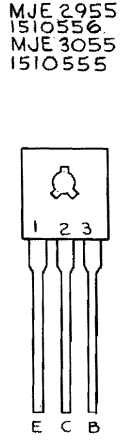
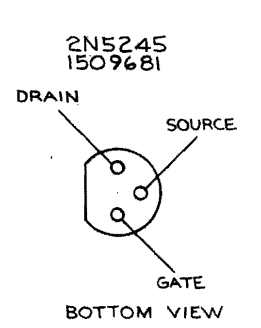
NOTE: PIN 6 CONNECTED TO BOTTOM OF PACKAGE.



NOTE: PIN 4 CONNECTED TO CASE.  
LM302  
1909343



LM318  
1910735



FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
GT40		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN 9-26-72	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	CHK'D 10-2-72	DATE	TITLE	
ANGLES	ENG 10/12	DATE	BASE DIAGRAMS	
XXX - .005	PROJ. ENG. 11/3/72	DATE	MATERIAL	
.XX - .02	PROD. 11/2/72	DATE	NEXT HIGHER ASSY.	
X - .1			FINISH	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			SCALE	
			SHEET 4 OF 4	
			DIST.	
			REV.	
			SIZE CODE	
			NUMBER	
			GT40-0-2	

DEC FORM NO DRD 100-A

**DIGITAL EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS

**ACCESSORY LIST**

**LEGEND**

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

**QUANTITY / VARIATION**

MADE BY E. King  
 DATE 1-10-73  
 CHECKED *Ed King*  
 DATE 1-26-73  
 SECTION  
 ENG *Ed King*  
 DATE 1-10-73  
 PROD *R Davis*  
 DATE 1/30/73  
 ISSUED SECT.

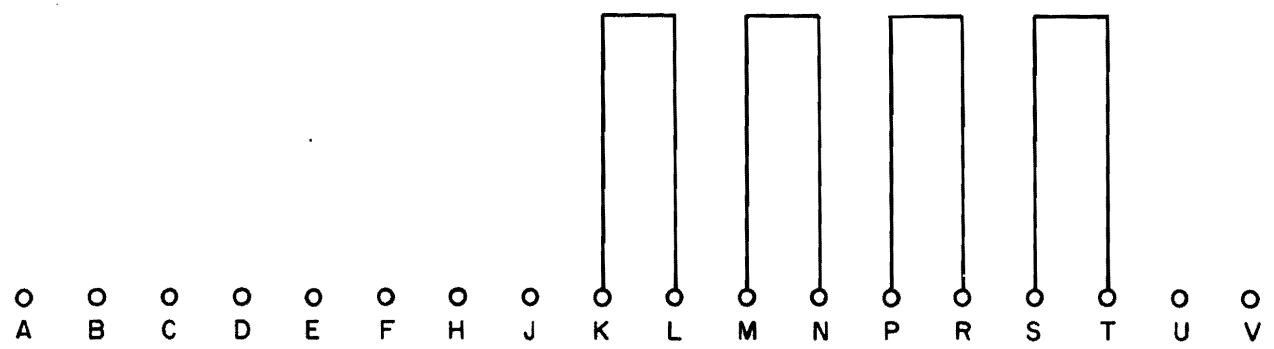
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	LPS11-S	LPSAD-12	LPSKW	LPSAM/LPSAM-SG	LPSDR/LPSDR-A	LPSVC	KIT CHECK	INSTALLATION CHECK	
										BY	DATE
1	B-DD-LPS11-S	Engineering Prints	1								
2	DEC#-11-HLPMA-A-D	Maintenance Manual	1								
3	DEC#-11-HLPUA-A-D	Users Manual	1								
4		LPS11 Pocket Reference	1								
5	MAINDEC-11-DZLPC-A	LPS Test I Diagnostics	1								
6	MAINDEC-11-DZLPD-A	LPS Test II Diagnostics	1								
7	MAINDEC-11-DZQAC-A	GTP Overlay	1								
8	1209430	Plug, PHONE Switchcraft #90		8	5						
9	1205886	Cinch Connect Conn., Plug #DB25-P				1	2	1			
10	1205885	Hood, DB51226-1				1	2	1			
11	BC11A-6	UNIBUS Cable 6 FT.	1								
18	MAINDEC-11-DZLPI-A	LPSDR-A DIGITAL I/O TEST	1								
		Note: The following items must be added when shipped as a Field Add-On									
12	90-06713,	NYLON WASHERS .437X.187X.032	16								
13	90-08440-0-0	NYLON BUSHINGS .230/.248X.190/.210X.125	8								
14	90-06565	KEP NUTS 10-32 X 3/8	8								
15	90-07651	10 EXTERNAL TOOTH LOCK WASHERS	8								
16	90-06073-3	10-32X1/2 TRUSS HEAD SCREWS	8								
17	90-07036	CATERPILLAR GROMMET 122-37-2500	1FT								

TITLE LPS11-S ACCESSORY LIST	ASSY. NO. <i>---</i>	SIZE CODE <b>A AL</b>	NUMBER LPS11-S-11	REV <b>C</b>	ECC NO LPS11-S-0001
SHEET 1 OF 1		DIST.			

REV.	NUMBER	CS	B
	G727-0-1		



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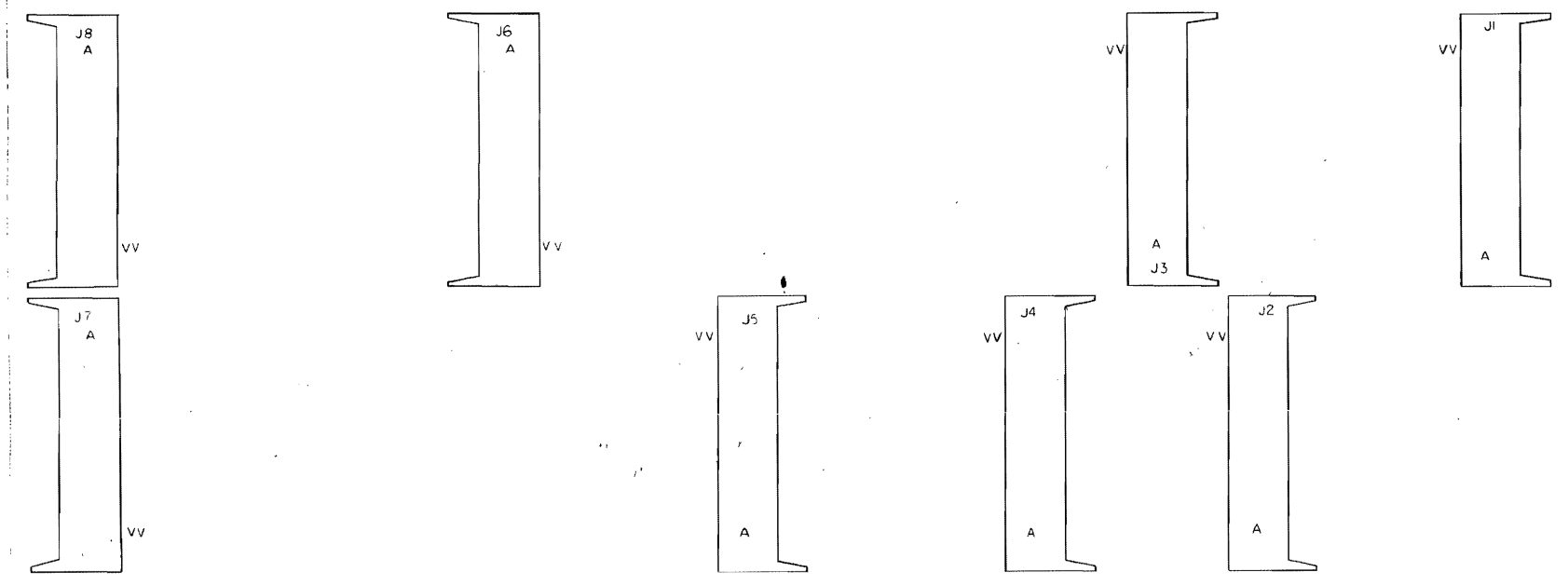
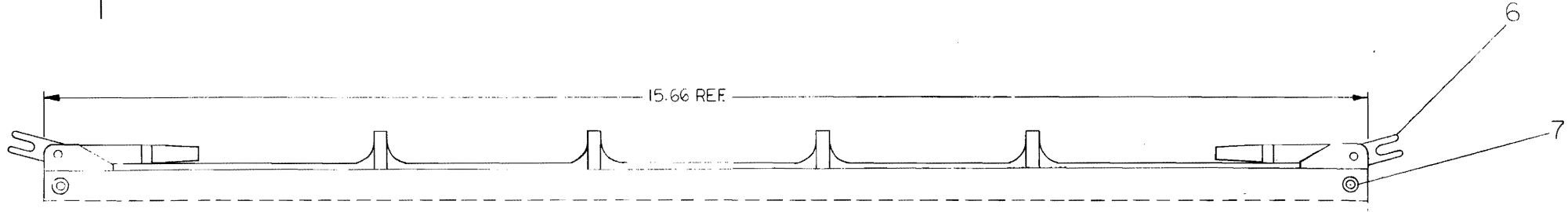
REVISIONS CHK CHG NO. REV.	DRN. <i>BUTLER</i>	DATE <i>11-19-69</i>	TRANSISTOR & DIODE CONVERSION CHART				 EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE GRANT CONTINUITY G727			
	CHK'D <i>P. J. Smith</i>	DATE <i>6-FEB-70</i>	DEC	EIA	DEC	EIA		SIZE	CODE	NUMBER	REV.
	ENG. <i>P. E. Johnson</i>	DATE <i>1/23/70</i>						B	CS	G727-0-1	
	PROD.	DATE						PRINTED CIRCUIT REV. <i>A</i>			



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QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
12		EYELET	9006732	7
1		HANDLE	1210711	6
8	J1 THRU J8	CONNECTOR 40P RT ANG.	1209941	5
1		ETCHED CIRCUIT BOARD	5010250	4
REF		MODULE ECO HISTORY	B-MH-M996-0-6	3
REF		ASSY /DRILLING HOLE LAYOUT	D-AH-M996-0-5	2
REF		X-Y COORDINATE HOLE LOCATION	K-CO-M996-0-4	1

IC TYPE	GND	+ 5V

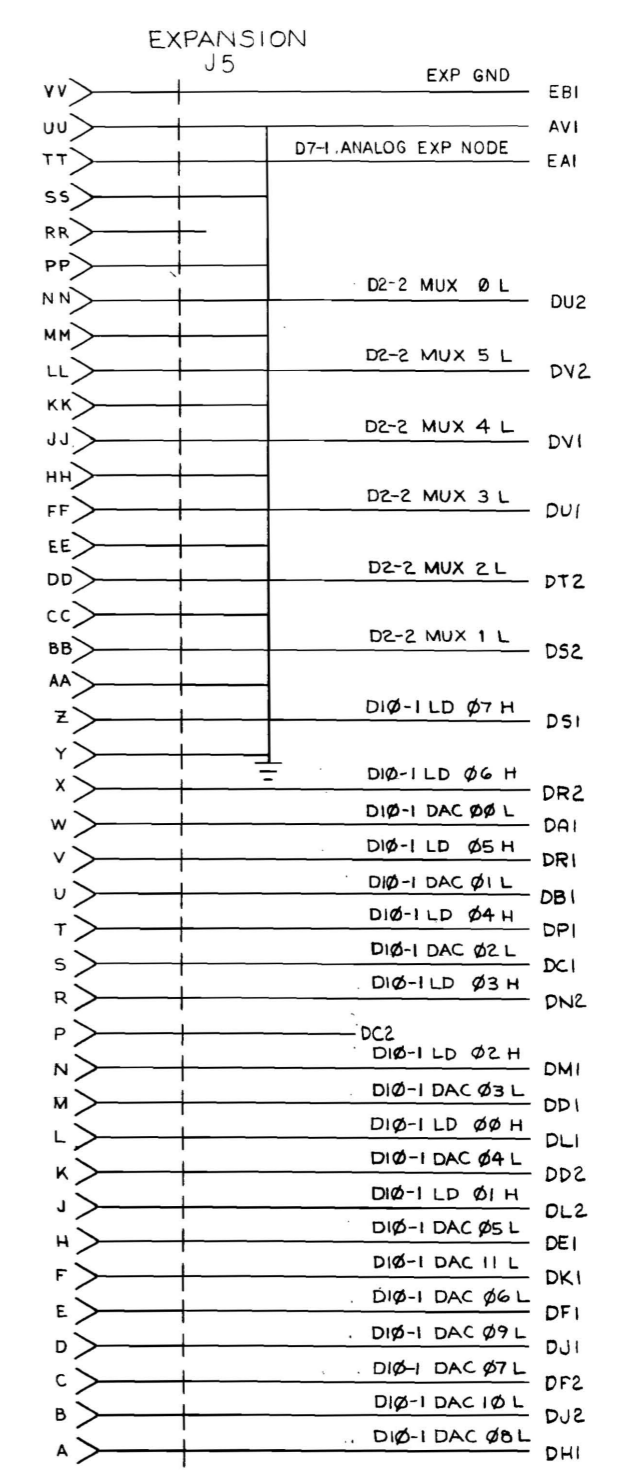
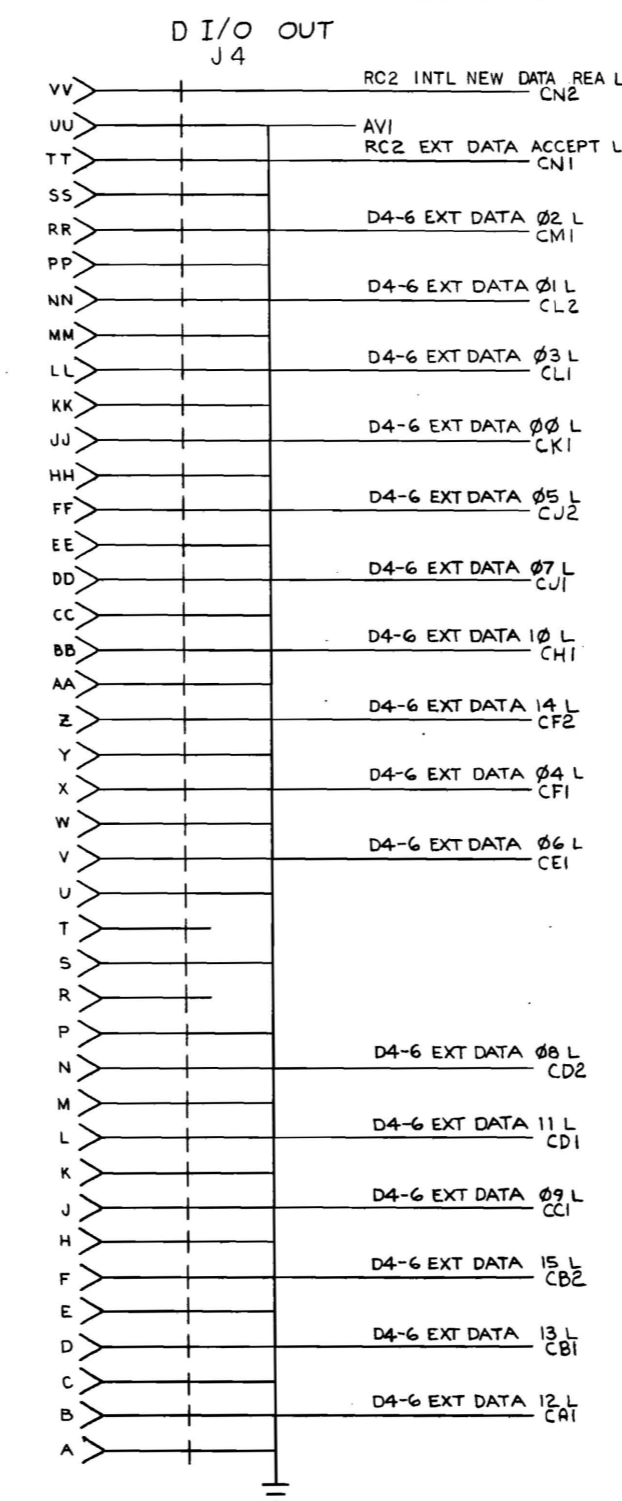
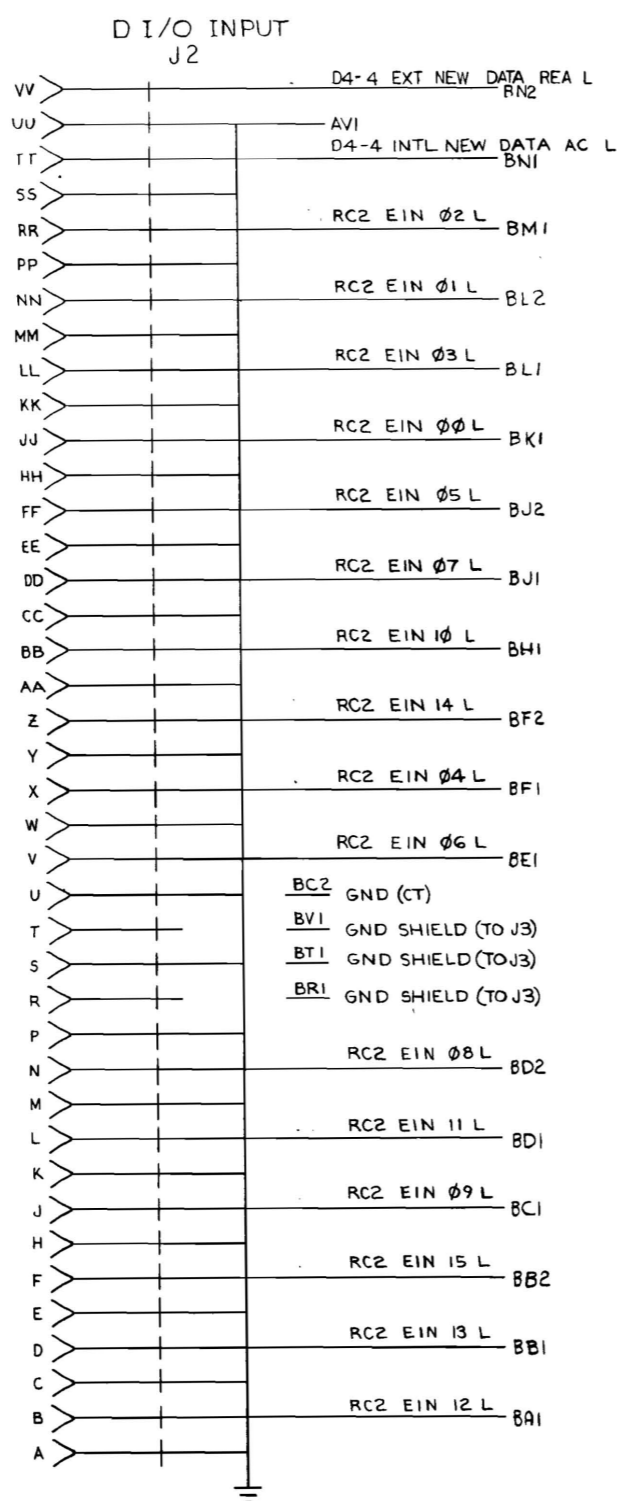
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

**IC PIN LOCATIONS**

FIRST USED ON OPTION MODEL		PARTS LIST	
LPS11-S		ETCH BOARD REV D	
DRN. <i>C. King</i>	DATE 9-11-72	<p><b>digital EQUIPMENT CORPORATION</b> MAYNARD, MASSACHUSETTS</p> <p>TITLE <b>CONNECTOR SHIELD BOARD</b></p> <p>SIZE CODE NUMBER REV. DCS M996-0-1 D</p>	
CHK'D. <i>T. H. H. H.</i>	DATE 11-19-72		
ENG. <i>J. H. H.</i>	DATE 11-17-72		
PROD. ENG. <i>J. H. H.</i>	DATE 11-17-72		
PROD. <i>J. H. H.</i>	DATE 11-17-72		
NEXT HIGHER ASSY		D-UA-LPS11-S 2	
DEC NO.	EIA NO.	DEC NO.	EIA NO.
SEMICONDUCTOR CONVERSION CHART			
SCALE NONE		SHEET 1 OF 4	

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1-0-962W 50 2

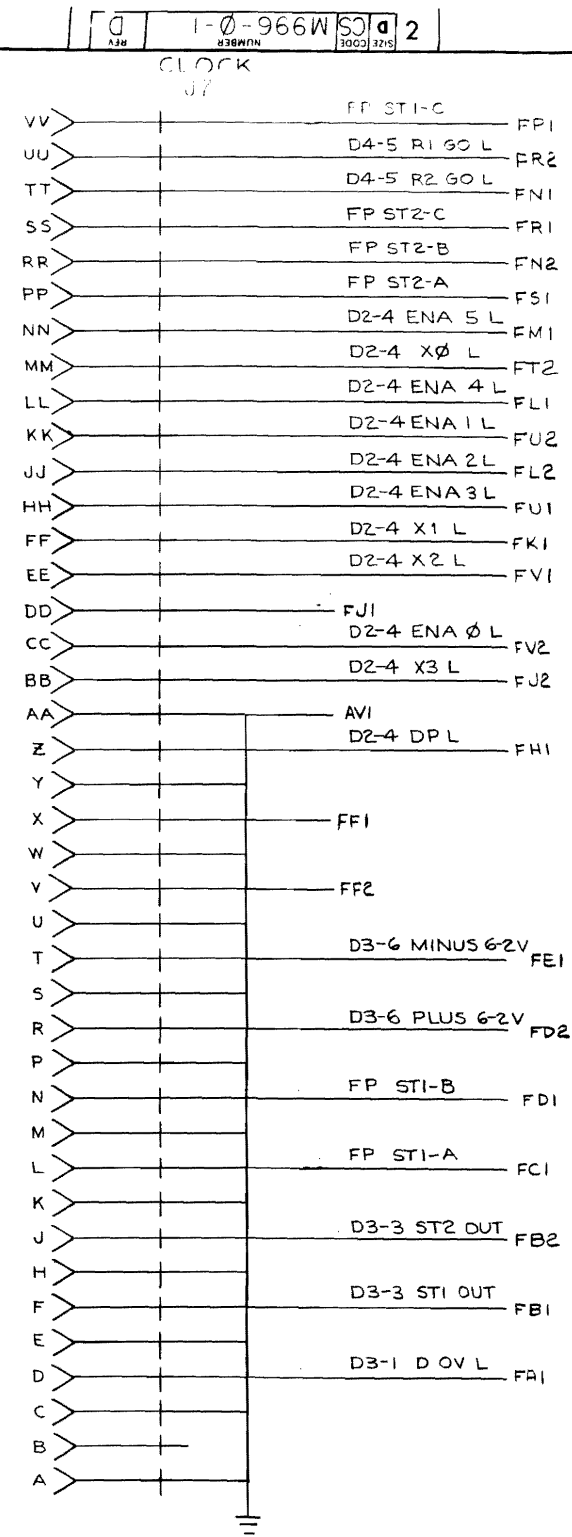
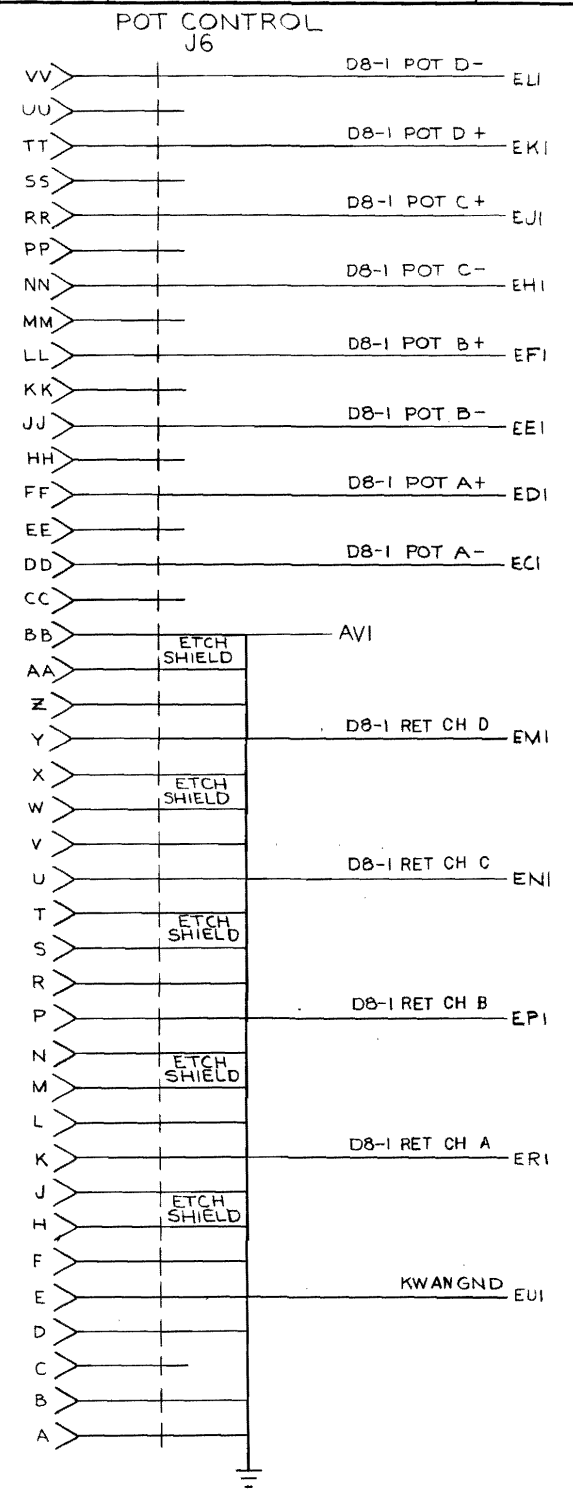
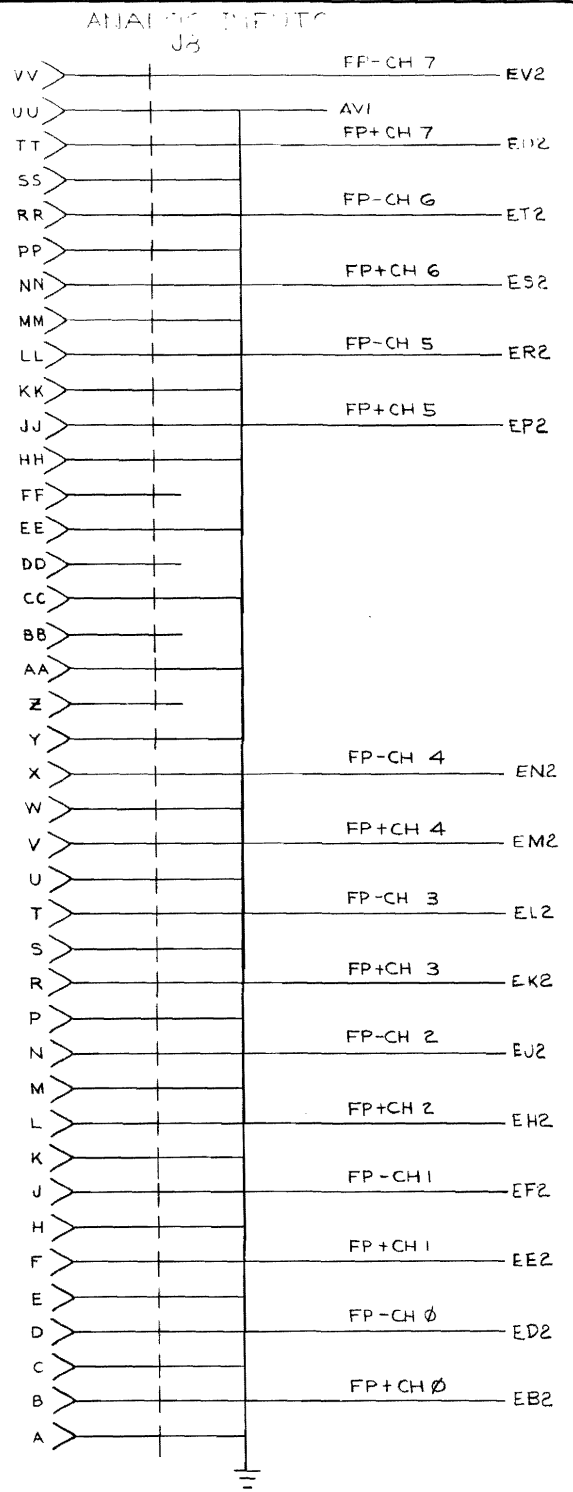


BRUNING 40-522 15840
REVISIONS
CHK CHANGE NO. REV

DEC FORM NO DRD 102-B

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11-S				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN. <i>CBW</i> DATE 10-11-72	<b>digital</b> EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	ANGLES	CHK'D. <i>WANEY MOORE</i> DATE 11-19-72		
.XXX - .005	± 0° 30'	ENG. <i>W. Wadsworth</i> DATE 11-15-72		
.XX - .02		PROJ. ENG. <i>W. Wadsworth</i> DATE 11-15-72		
.X - .1		PRD. <i>W. Wadsworth</i> DATE 11-15-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			TITLE <b>CONNECTOR SHIELD BOARD</b>	
MATERIAL		NEXT HIGHER ASSY.	SIZE CODE	NUMBER
FINISH			DCS	M996-0-1
			SCALE	REV.
			SHEET 2 OF 4	D
			DIST.	

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D  
C  
B  
A

D  
C  
B  
A

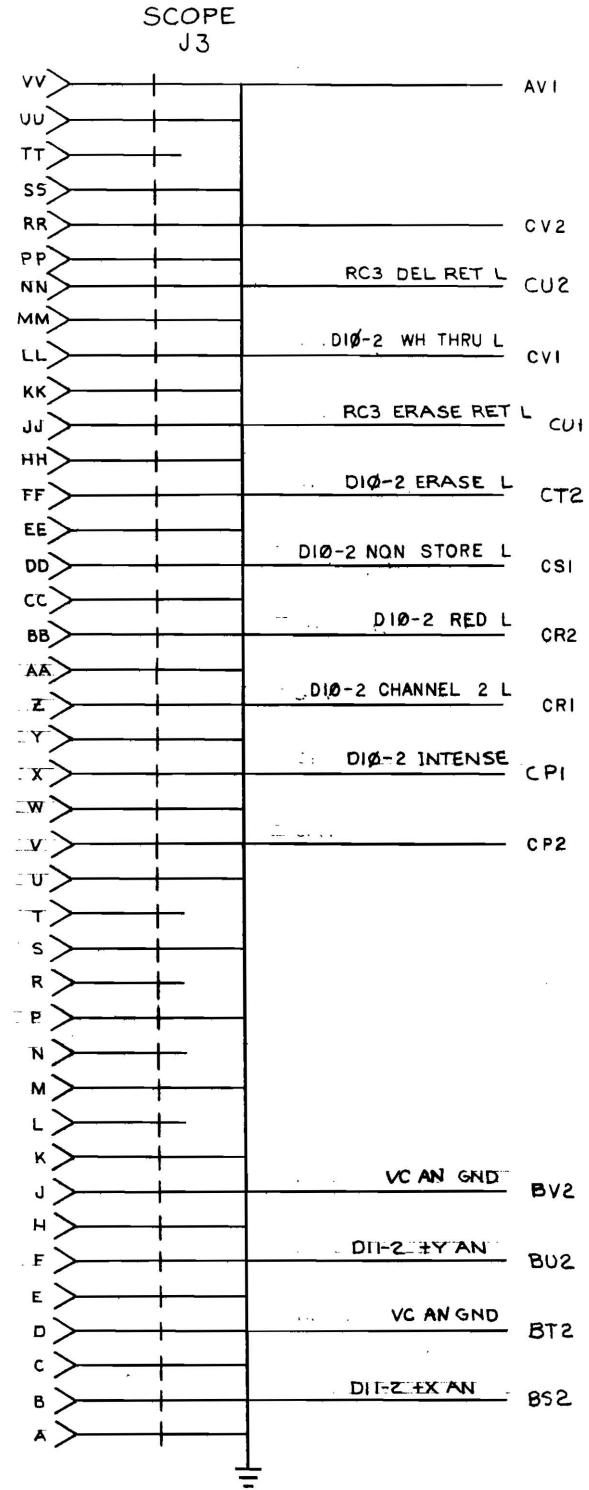
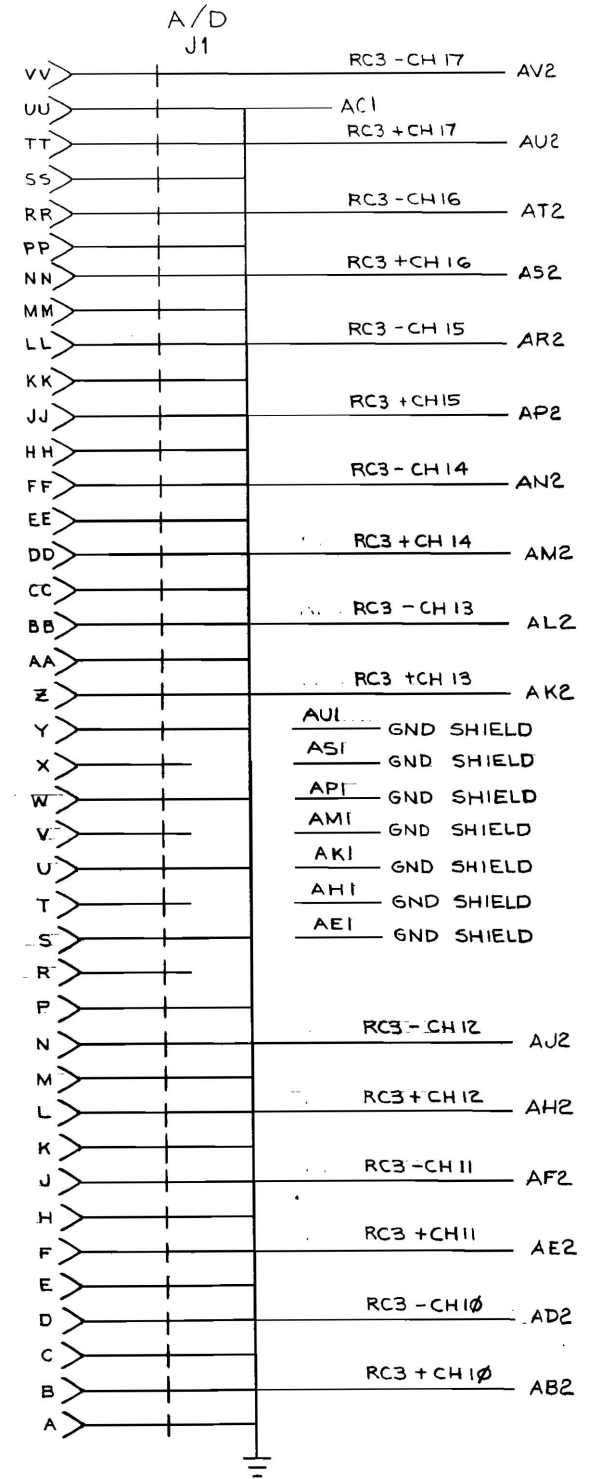
BRUNING 40-522 15840

REV	
CHANGE NO	
CHK	

DEC FORM NO DRD 102-B

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11-S				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN <i>CBM/Cy</i> DATE <i>10-11-72</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS .xxx = .005	ANGLES 10° 30'	CHK'D <i>WANCY MOORE</i> DATE <i>11-1-72</i>	TITLE	
.xx = .02		ENG. <i>W. K. D.</i> DATE <i>11-1-72</i>	CONNECTOR SHIELD BOARD	
.x = .1		PROJ. ENG. <i>W. K. D.</i> DATE <i>11-1-72</i>	MATERIAL	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD. <i>W. K. D.</i> DATE <i>11-1-72</i>	NEXT HIGHER ASSY.	
			D-UA-LPS11-S-0	
FINISH		SCALE	SIZE CODE	NUMBER
		SHEET 3 OF 4	D CS	M996-0-1
			DIST.	REV. D

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FIRST USED ON OPTION/MODEL LPS11-S	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN. <i>CBM</i>	DATE <i>10-11-72</i>	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	CHK'D. <i>FRANCY MOORE</i>	DATE <i>11-17-72</i>	TITLE CONNECTOR SHIELD BOARD	
ANGLES	ENG. <i>W. W. ...</i>	DATE <i>11-17-72</i>	SIZE CODE DCS M996-0-1	
.XXX = .006 .XX = .02 X = .1	PROJ. ENG. <i>W. W. ...</i>	DATE <i>11-17-72</i>	NUMBER M996-0-1	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. <i>W. W. ...</i>	DATE <i>11-17-72</i>	REV. D	
MATERIAL	NEXT HIGHER ASSY.		SCALE	
FINISH	D-UA-LPS11-S		SHEET 4 OF 4	

BRUNING 40-322 15840  
DEC FORM NO DRD 102-B

REV D  
NUMBER M996-0-1  
SIZE CODE DCS

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NOTES:

NOTES:

1. JUMPERS INSTALLED IN SPLIT LUGS:  
Ø = A10, A6, A9, A11, A7, A5 + D2-D5 + D8  
1 = A12, A8

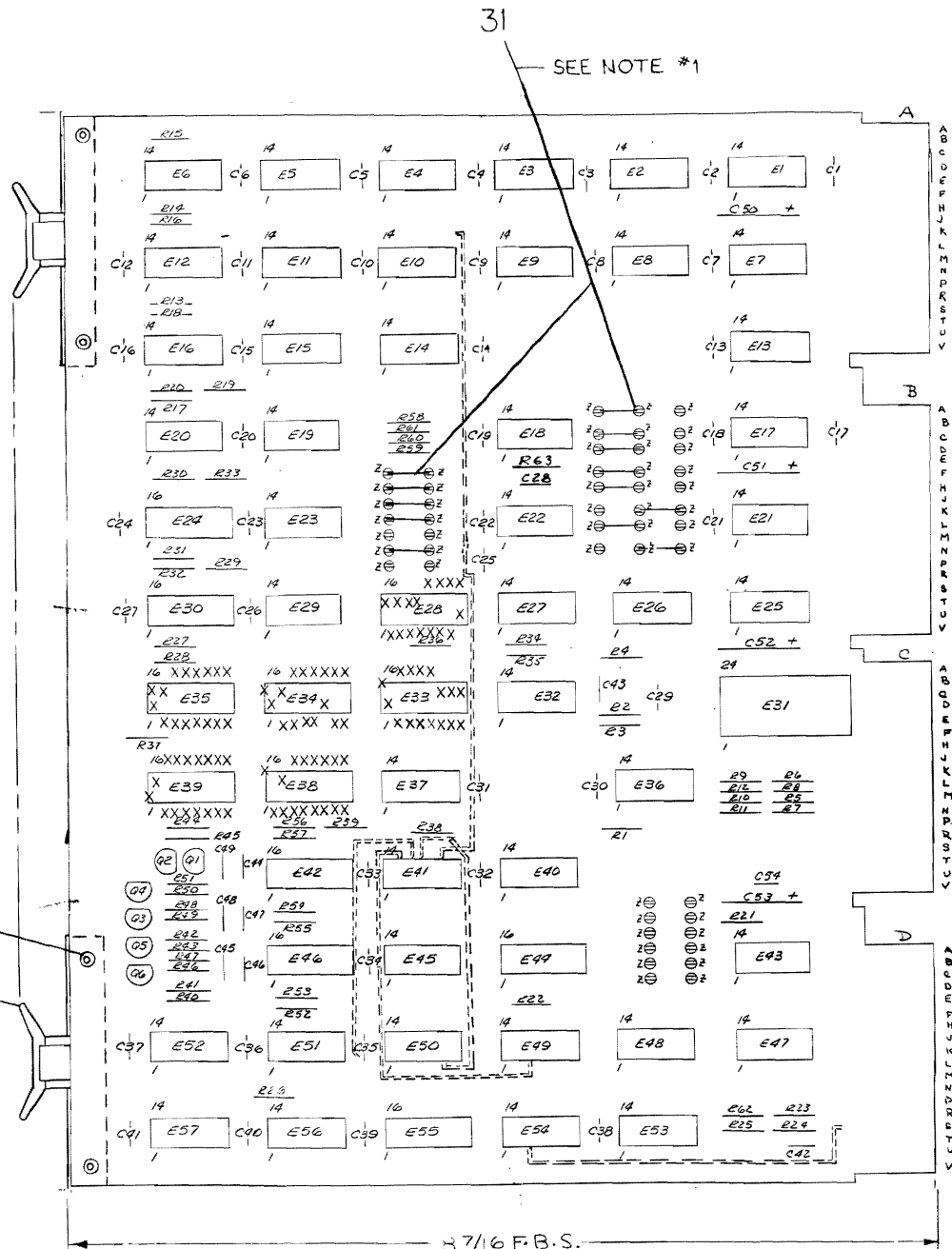
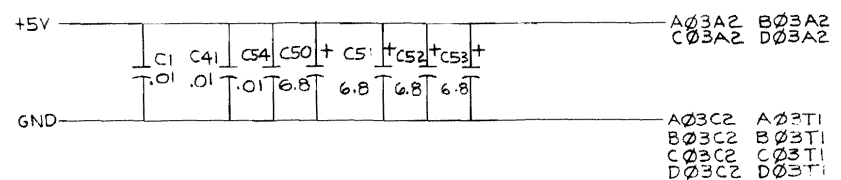


Table with 5 columns: QTY, REF DESIGNATION, DESCRIPTION, PART NO., ITEM NO. Lists various components like capacitors, resistors, and transistors with their respective quantities and part numbers.

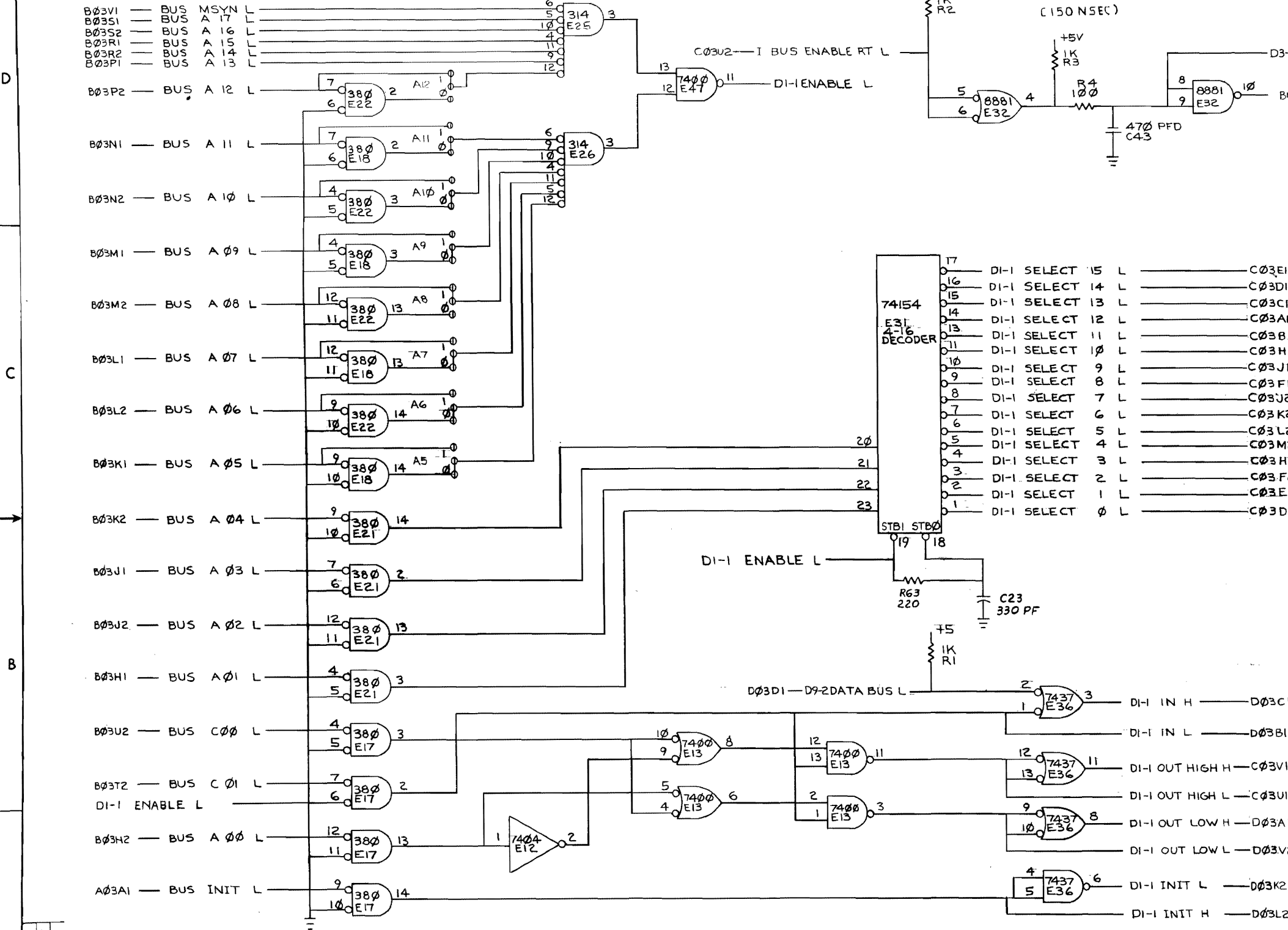
IC PIN LOCATIONS table with columns for IC TYPE, GND, and +5V. Lists part numbers like DEC 7483, DEC 74174, DEC 380A, DEC 314A, DEC 74154, DEC 8235, DEC 384.

REVISIONS table with columns for CHK, CHANGE NO., REV. Lists revision history with names like E.D. KING, E. KING, and dates.

Administrative and technical information including: FIRST USED ON OPTION MODEL (LPS11), ETCH BOARD REV (C), DRN (8-15-72), DATE (8-15-72), TITLE (UNIBUS INTERFACE), SEMICONDUCTOR CONVERSION CHART, and SHEET 1 OF 6.

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**NOTES:**  
 1.  $\phi$  = SPLIT LOG.  
 2. JUMPLERS: A12-A5 ARE BUS ADDRESS SELECT JUMPLERS. PLACE EITHER IN (1) SIDE OR (2) SIDE.  
 EXAMPLE:  
 A12, A8 = (1) } 170400  
 A11, A10, A9, A7, A6, A5 = (2) } STARTING ADDRESS.

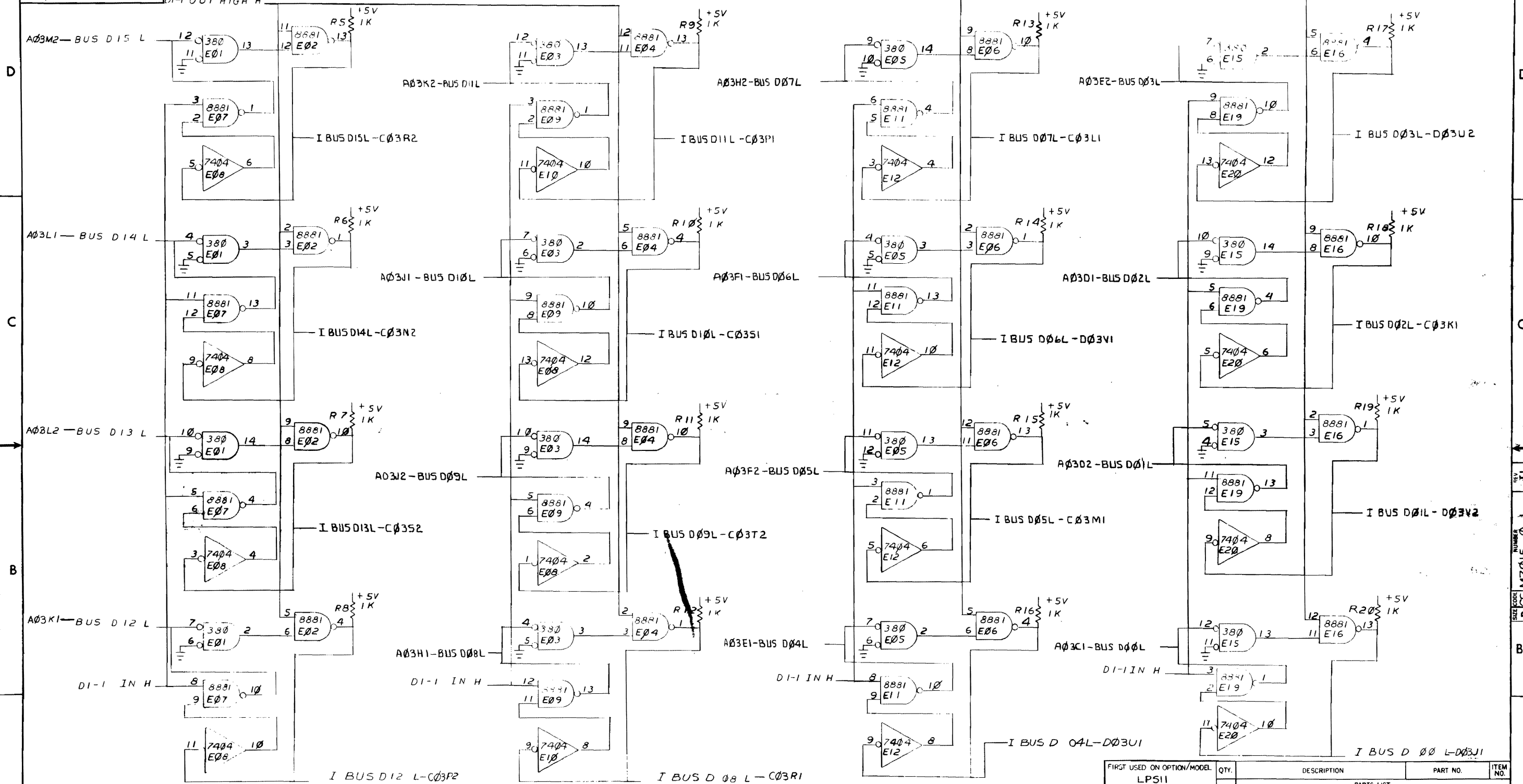


REV	CHANGE NO	REVISIONS

FIRST USED ON OPTION/MODEL LPS11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN C.M.C.	DATE 8-14-72	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS .XXX = .005 .XX = .02 .X = .1	CHK'D C. H. King	DATE 8-21-72	TITLE UNIBUS INTERFACE (ADDRESS CONTROL)	
ANGLES ±0° 30'	ENG C. H. King	DATE 9-1-72	MATERIAL	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ. ENG. A. Wallack	DATE 9-1-72	NEXT HIGHER ASSY. M7015	
FINISH	PRGD. R. Davis	DATE 9-1-72	D-UA-LPS11-0-0	
SCALE			SIZE CODE NUMBER DCS M7015-0-1	
SHEET 2 OF 6			REV. H	

REV. H  
DCS M7015-0-1

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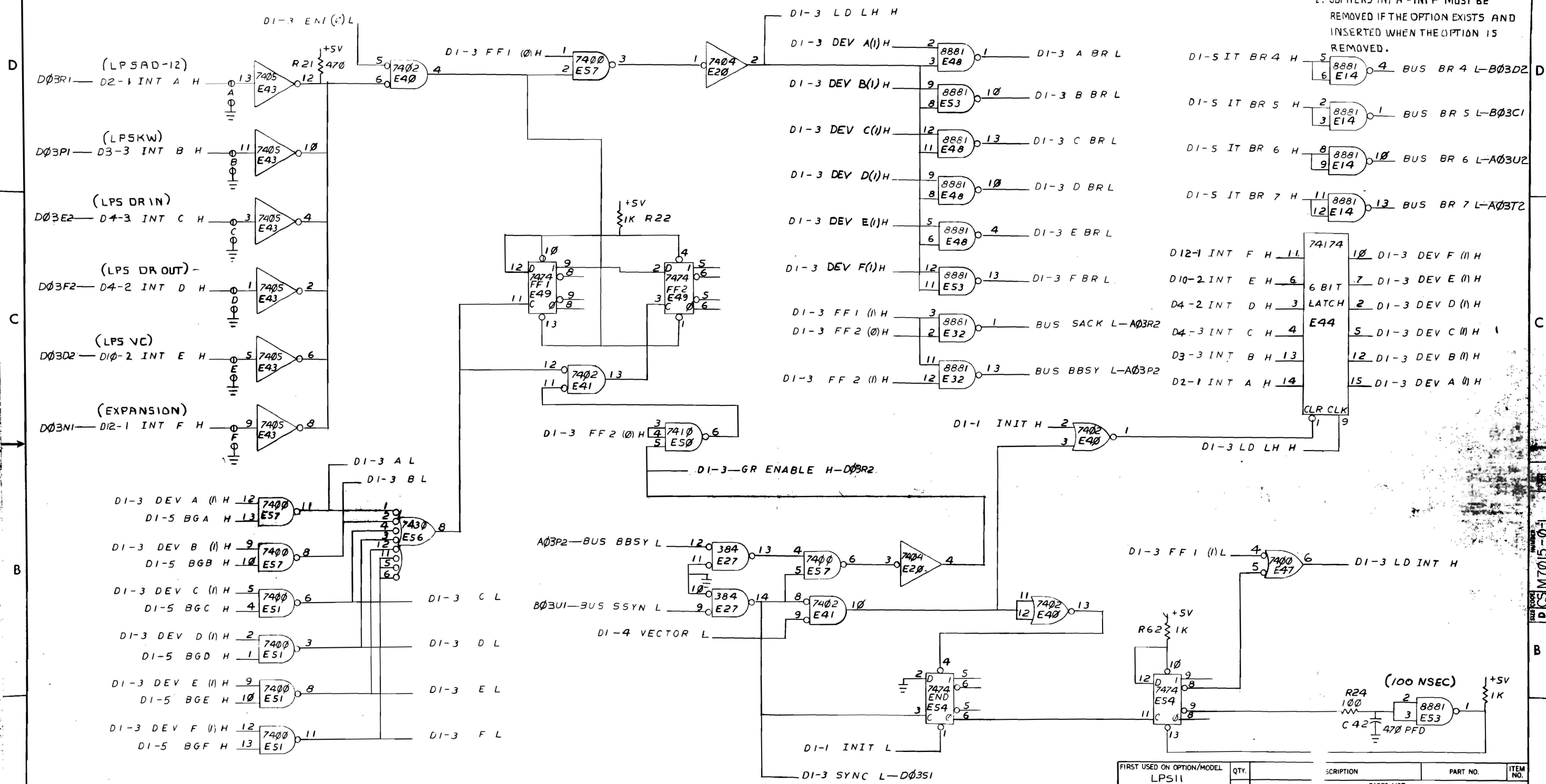


REV	
CHG	
CHK	
REVISIONS	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. ED KING	DATE 4-18-72	digital EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED	CHKD. J. King	DATE 8-20-72	MAYNARD, MASSACHUSETTS	
DIMENSION IN INCHES	ENG. J. King	DATE 7-1-72	TITLE	
TOLERANCES	PROJ. ENG. J. King	DATE 9-1-72	UNIBUS INTERFACE (INTERNAL BUS)	
DECIMALS FRACTIONS ANGLES	PROD. R. Davis	DATE 9-25-72	M7015	
= 000 = 1/64 = 0°30'			DI-2	
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS			D-1A-LPS11-0-0	
MATERIAL	NEXT HIGHER ASSY		SIZE CODE	NUMBER
			DCS M7015 - 0 - 1	REV
FINISH	SCALE		DIST	
	SHEET 3 OF 6			

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NOTE: 1. Ø = SPLIT LUGS  
 2. JUMPERS INT A-INTF MUST BE REMOVED IF THE OPTION EXISTS AND INSERTED WHEN THE OPTION IS REMOVED.



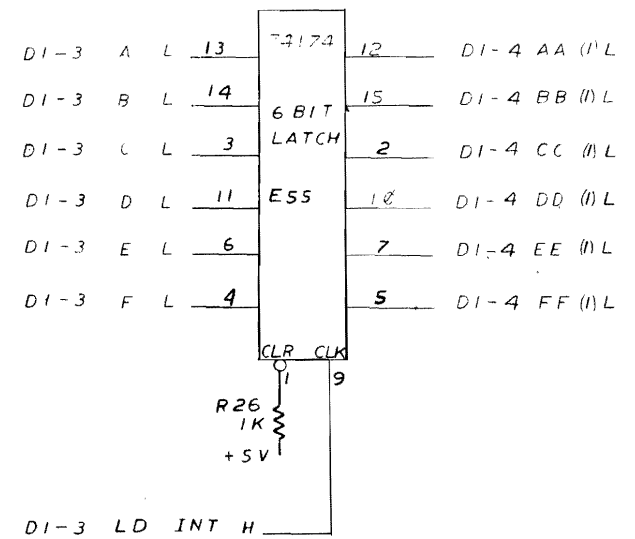
REV	CHANGE NO.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRAWN ED KING	DATE 4-1-72	DIGITAL EQUIPMENT CORPORATION ATLANTIC MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D. <i>[Signature]</i>	DATE 8-2-72	TITLE: UNIBUS INTERFACE (INTERFJPT I)	
DIMENSION IN INCHES	ENG'D. <i>[Signature]</i>	DATE 9-1-72	M7015 NUMBER DI-3	
TOLERANCES	PROJ. ENG. <i>[Signature]</i>	DATE 9-1-72	SIZE CODE DCS M7015-0-1	
DECIMALS	PROD. <i>[Signature]</i>	DATE 9/5/72	SCALE	
FRACTIONS	NEXT HIGHER ASSY		SHEET 4 OF 6	
ANGLES	D-UA-LPS11-0-0		DIST.	
± .005				
± .005				
± .030				
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
FINISH				

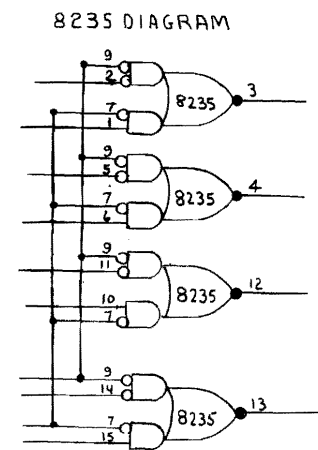
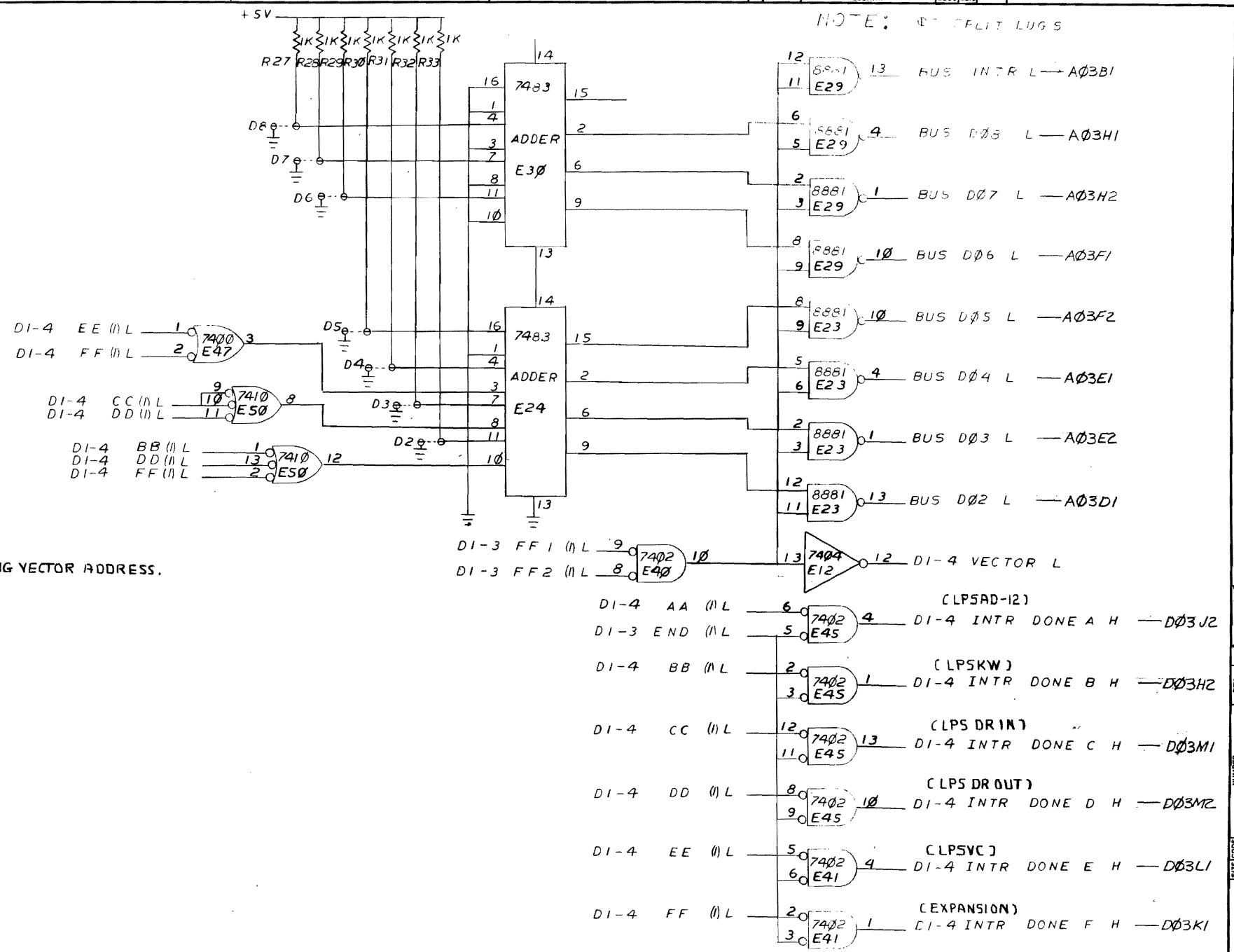
DCS M7015-0-1

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H 1-7-9102W501 2



NOTE 1: JUMPERS D8-D2 ARE THE FLOATING VECTOR ADDRESS SELECTION JUMPERS. INSERT FOR A (0), DELETE FOR A (1)  
 EXAMPLE: D8, D5, D4, D3, D2 = (0) } 300 = STARTING VECTOR ADDRESS.  
 D7, D6 = (1)



- DI-4 AA (1) L (6) (LPSAD-12) DI-4 INTR DONE A H — D03J2
- DI-3 END (1) L (5) (LPSKW) DI-4 INTR DONE B H — D03H2
- DI-4 BB (1) L (2) (LPSDRIM) DI-4 INTR DONE C H — D03M1
- DI-4 CC (1) L (12) (LPSDR OUT) DI-4 INTR DONE D H — D03M2
- DI-4 DD (1) L (8) (LPSVC) DI-4 INTR DONE E H — D03L1
- DI-4 EE (1) L (5) (EXPANSION) DI-4 INTR DONE F H — D03K1

REV.	
CHK	
CHG	
NO.	

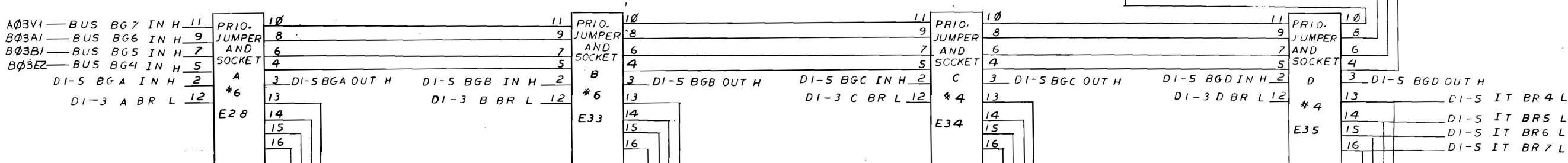
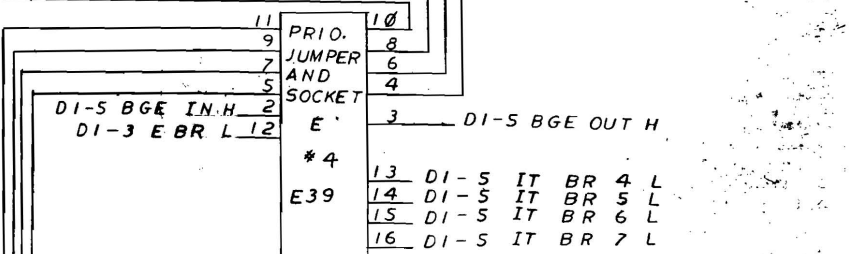
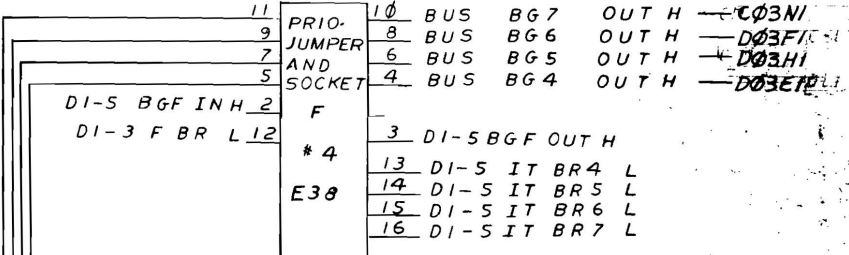
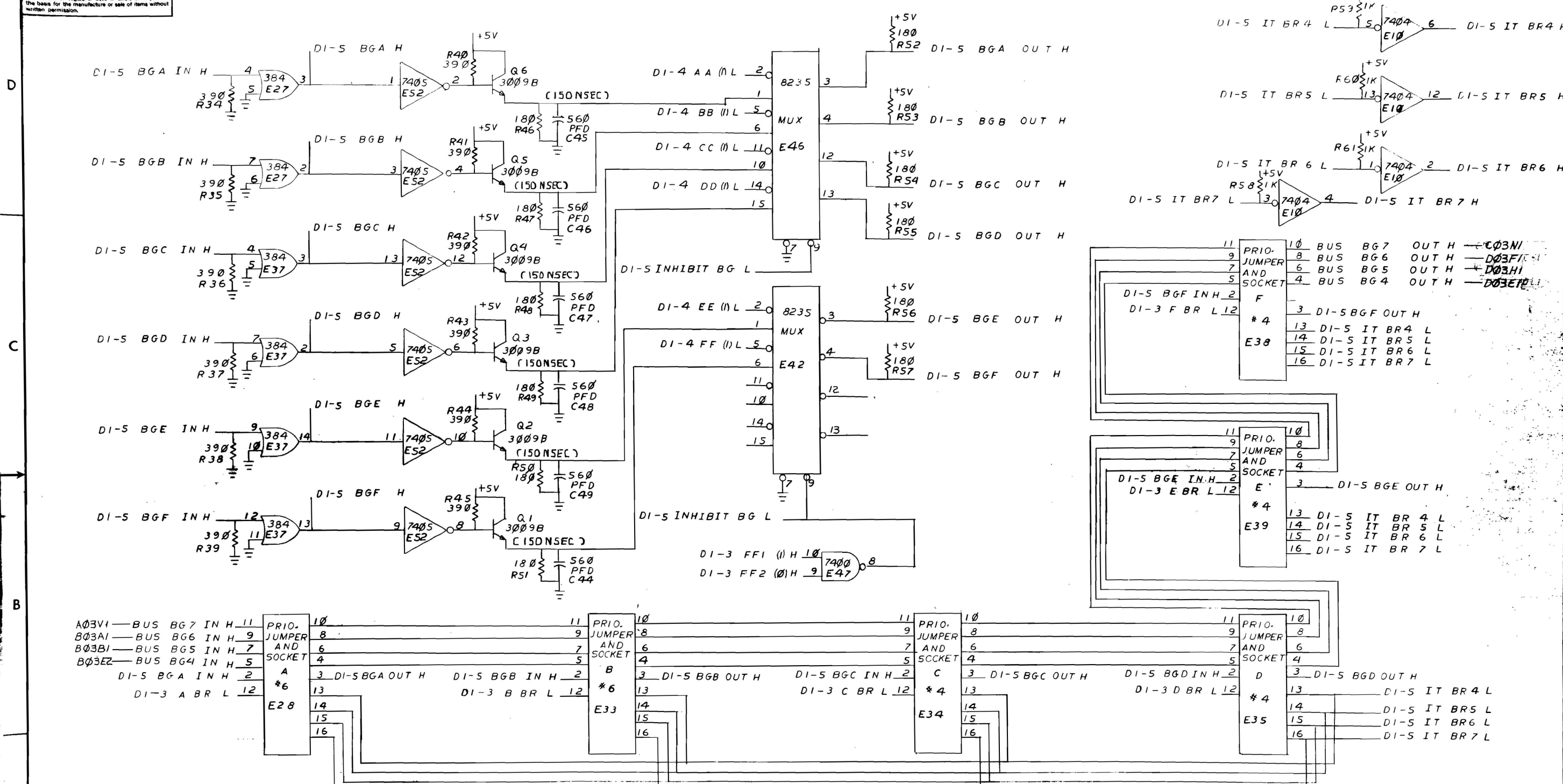
FIRST USED ON OPTION/MODEL  
LPS11

DO NOT SCALE DRAWING  
 UNLESS OTHERWISE SPECIFIED  
 DIMENSION IN INCHES  
 TOLERANCES  
 DECIMALS FRACTIONS ANGLES  
 ± .005 ± 1/64 ± 0°30'  
 FINAL SURFACE QUALITY  
 REMOVE BURRS AND BREAK SHARP CORNERS  
 MATERIAL —  
 FINISH —

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN: ED KING	DATE: 4-21-72	<b>digital</b> EQUIPMENT CORPORATION MATTAPOISETT, MASSACHUSETTS TITLE: UNIBUS INTERFACE (INTERRUPT 2) M7015 SIZE CODE: DCS M7015-0-1 NUMBER: 014 SCALE: H SHEET 5 OF 6	
CHKD: J. Hails	DATE: 8-30-72		
ENG: C. King	DATE: 9-7-72		
PROL ENG: G. Wallack	DATE: 9-7-72		
PROD: R. Davis	DATE: 9/3/72		
NEXT HIGHER ASSY: D-UA-LPS11-0-0			

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1-0-S10/LW 2



REV	CHANGE NO

FIRST USED ON OPTION/MODEL  
LPS 11

DO NOT SCALE DRAWING	UNLESS OTHERWISE SPECIFIED
TOLERANCES	ANGLES
DECIMALS ± .005	FRACTIONS ± 1/64
FINAL SURFACE QUALITY	REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL	FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.

DRN	ED KING	DATE	6-21-72
CHK'D	<i>[Signature]</i>	DATE	8-30-72
ENG	<i>[Signature]</i>	DATE	9-1-72
PROJ. ENG.	<i>[Signature]</i>	DATE	9-1-72
PROD.	<i>[Signature]</i>	DATE	9/3/72

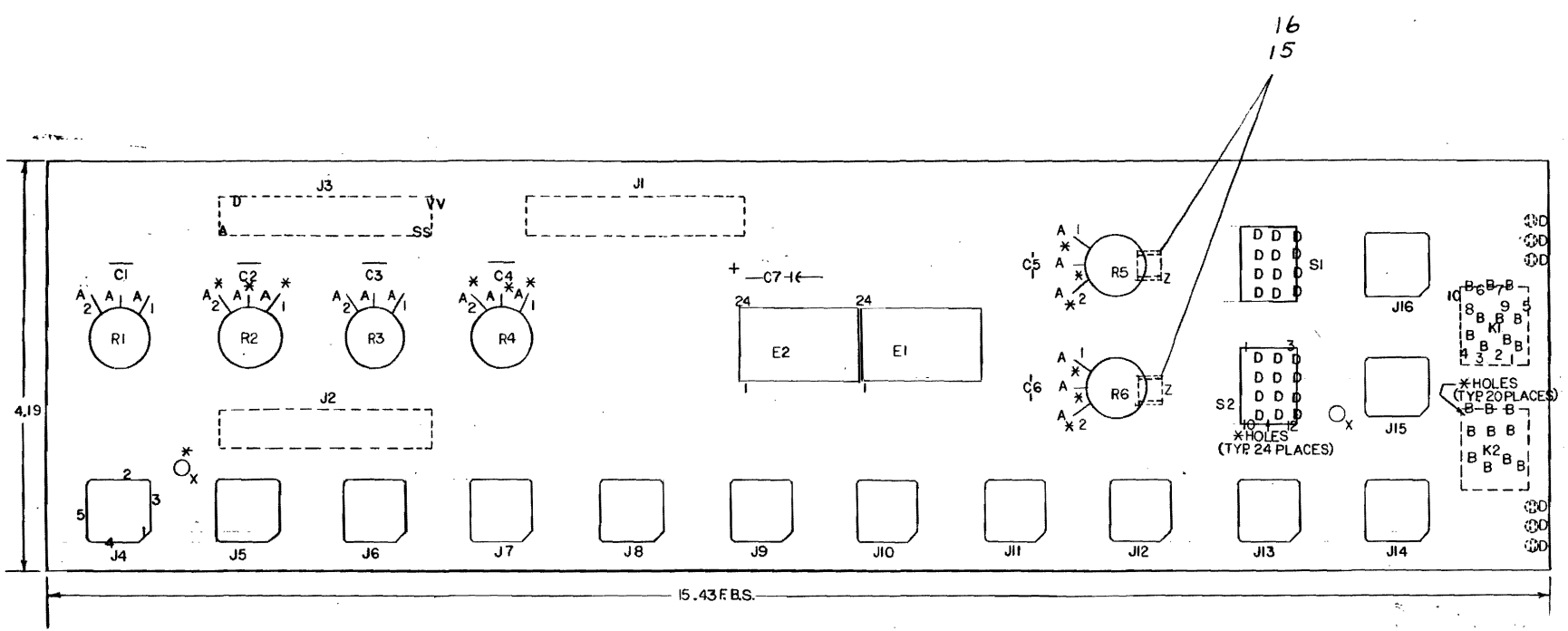
  

PARTS LIST	
digital EQUIPMENT CORPORATION	MAYNARD, MASSACHUSETTS
TITLE	UNIBUS INTERFACE (GRANT AND SELECT)
REQUS	DI-5
M7015	SIZE CODE
DICS M7015	DIST.

REV. H  
NUMBER M7015-0-1  
DICS

**NOTES:**

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2	EYELET #654-5	9009000	16	
2	Z FASTON TAB #41290	9007113-0	15	
6	D SPLIT LUG *M-1033	9006735	14	
REF	R5, R6 POT, 5K, 1 TURN	1311089-0	13	
REF	R1 THRU R4 POT, 5K, 10 TURN	1311097-0	12	
REF	S1, S2 SWITCH, 4PDT. PC MT #7401	1211080	11	
2	E1, E2 SOCKET IC 24 LOW	1210693	10	
13	J4 THRU J16 PC MT. PHONE JACK #411B	1211081-0	9	
REF	J1, J2, J3 CONN. 40 SOCKET 3417-0000	1210073	8	
REF	K1, K2 RELAY SOCKET P.C. BOARD	1209359-01	7	
1	C7 CAP. 6.8Mf 10% 35V TANT	1005306	6	
6	C1 THRU C6 CAP. .01mf 20% 100V DISC	1001610	5	
1	ETCHED CIRCUIT BOARD	5010196	4	
REF	MODULE ECO HISTORY	B-MH-5410197-0-6	3	
REF	ASSY/DRILLING HOLE LAYOUT	E-AH-5410197-0-5	2	
REF	X-Y COORDINATE HOLE LOCATION	K-CO-5410197-0-4	1	
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

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

FIRST USED ON OPTION MODEL: LPSI-5

ETCH BOARD REV: C

digital EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

TITLE: FRONT PANEL CONNECTOR

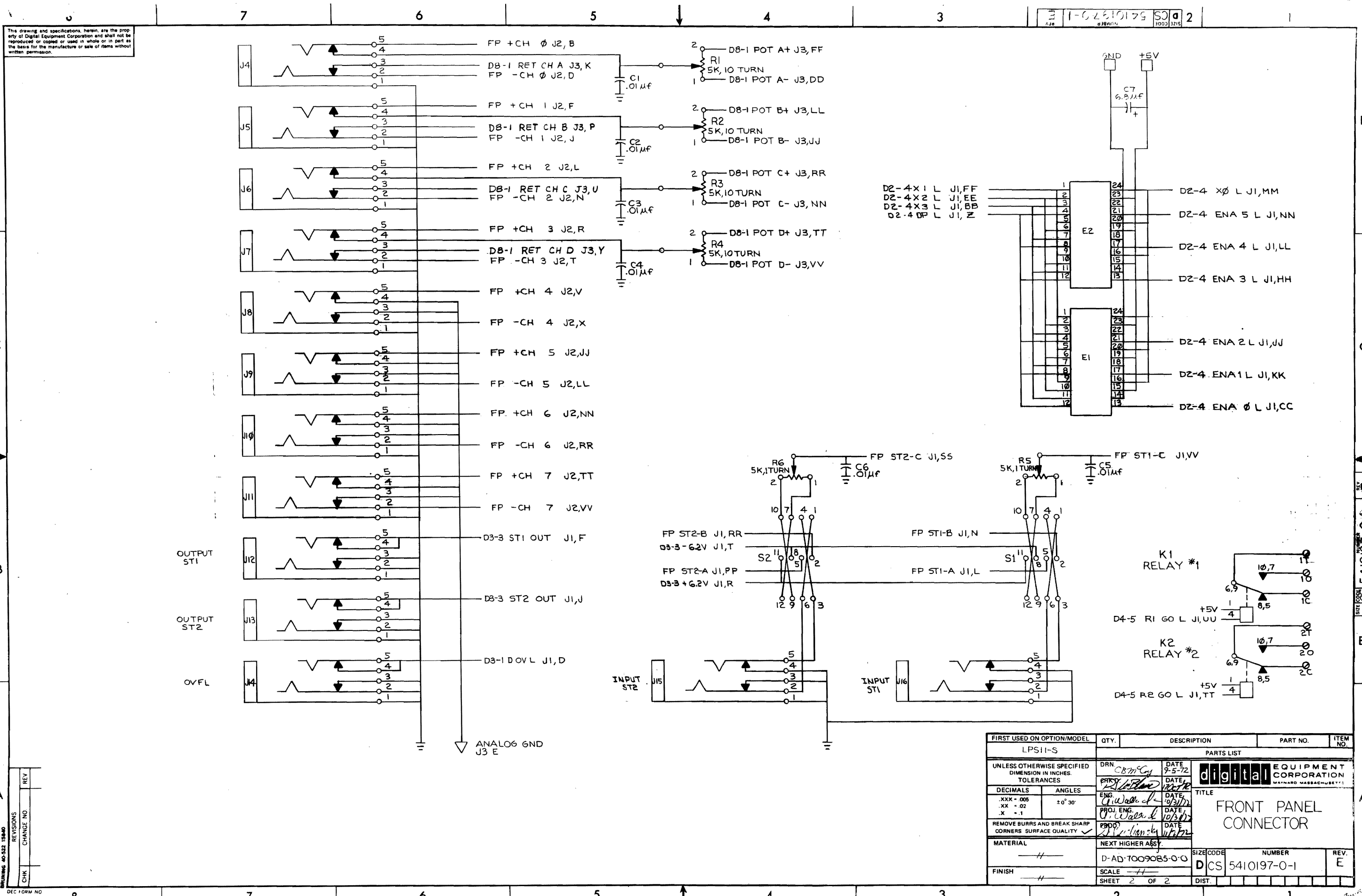
DRN: CBM/Cy DATE: 8-30-72  
CHK'D: R/L/B/... DATE: 10/17/72  
ENG: W... DATE: 10/17/72  
PROJ. ENG: J... DATE: 10/17/72  
REV. D: B... DATE: 10/17/72

SCALE: NONE  
SHEET 1 OF 2

SIZE CODE: DCS  
NUMBER: 5410197-0-1  
REV. E

SEMICONDUCTOR CONVERSION CHART

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REV	CHANGE NO	REV

DEC FORM NO DRD 102-B

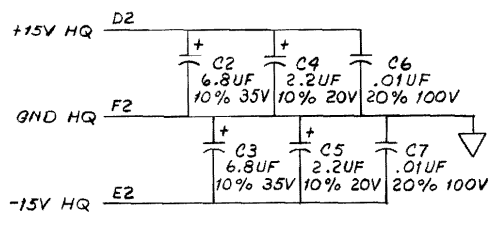
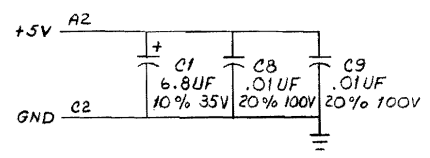
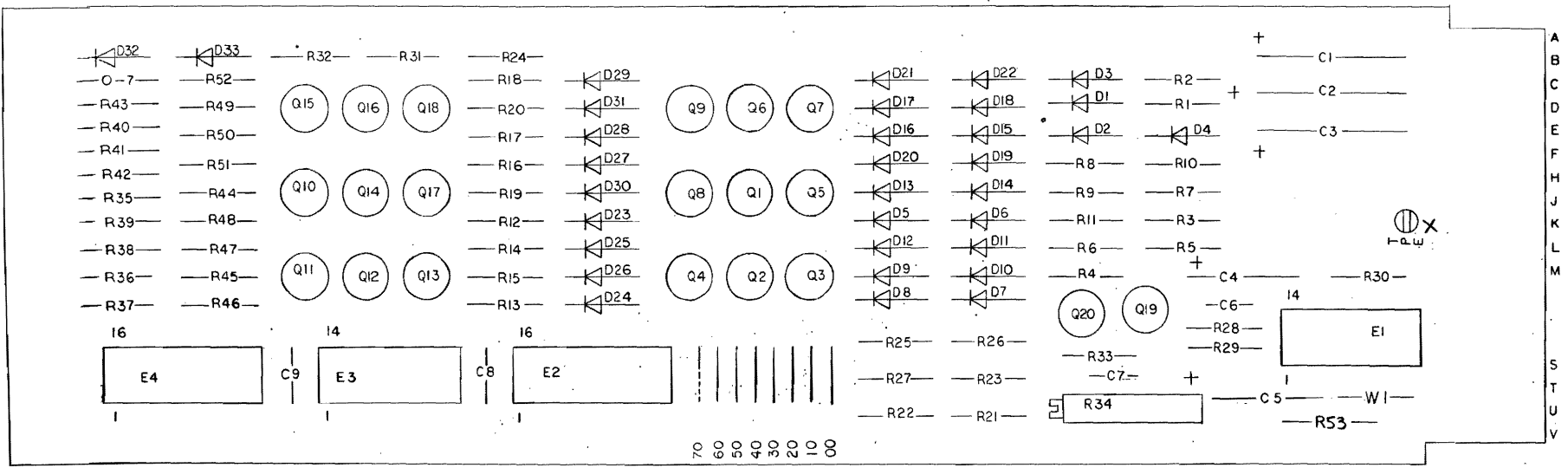
REV E  
5410197-0-1

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**NOTES:**

REV. 2  
 DCS A407-0-1  
 3000 3125

REF	DESCRIPTION	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
	X-Y COORDINATE HOLE LOCATION		K-20-A407-0-0			1
	ASSY/PLATING HOLE LAYOUT		D-AH-A407-0-5			2
	MODULE ECO HISTORY		B-MH-A407-0-6			3
	ETCHED CKT BOARD		5010217			4
4	C6 THRU C9		CAP. .01UF 20% 100V DISC		1001610-01	5
2	C4, C5		CAP. 2.2UF 10% 20V TANT		1032627	6
3	C1, C2, C3		CAP. 6.8UF 10% 35V TANT		1005306	7
18	D5 THRU D22		DIODE IN4004		1105196	8
4	D1 THRU D4		DIODE IN4732A		1105138	9
11	D23 THRU D33		DIODE D664		1100114	10
9	R35 THRU R43		RES. 1.5K 5% 1/4W		1300391	11
9	R21 THRU R29		RES. 3.3K 5% 1/4W		1300439	12
9	R12 THRU R20		RES. 4.7K 5% 1/4W		1300447	13
1	R33		RES. 1.2K 5% 1/4W		1301320	14
5	R1, R2, R30 THRU R32		RES. 180 5% 1/4W		1301322	15
9	R44 THRU R52		RES. 560 5% 1/4W		1301890	16
1	R34		RES. 1K 10% 3/4W 76 PR.		1309143-07	17
9	R3 THRU R11		RES. 47 1% 1/4W FUSIBLE		1310881-2	18
9	Q10 THRU Q18		TRANS. DEC 6534D		1503409-00	19
2	Q19, Q20		TRANS. DEC 6531		1509338	20
9	Q1 THRU Q9		TRANS. 2N5245		1509681	21
1	E2		IC DEC 8251		1909594	22
1	E3		IC DEC 7417		1909929	23
1	E4		IC DEC 74145		1910047	24
1	E1		IC LM 310-D		1910235	25
2			EYELET *QS-4-7 STIMPSON		9006732	26
1			SPLIT LUG *M-1033		9006735	27
1			HANDLE, FLIPCHIP-AMBER		9008337-0	28
10			INSULATED JUMPER L-2007-1		9009185	29
1	R53		RES. 20K 5% 1/4W		1302391	30



IC TYPE	GND	+ 5V
74145	8	16
8251	8	16

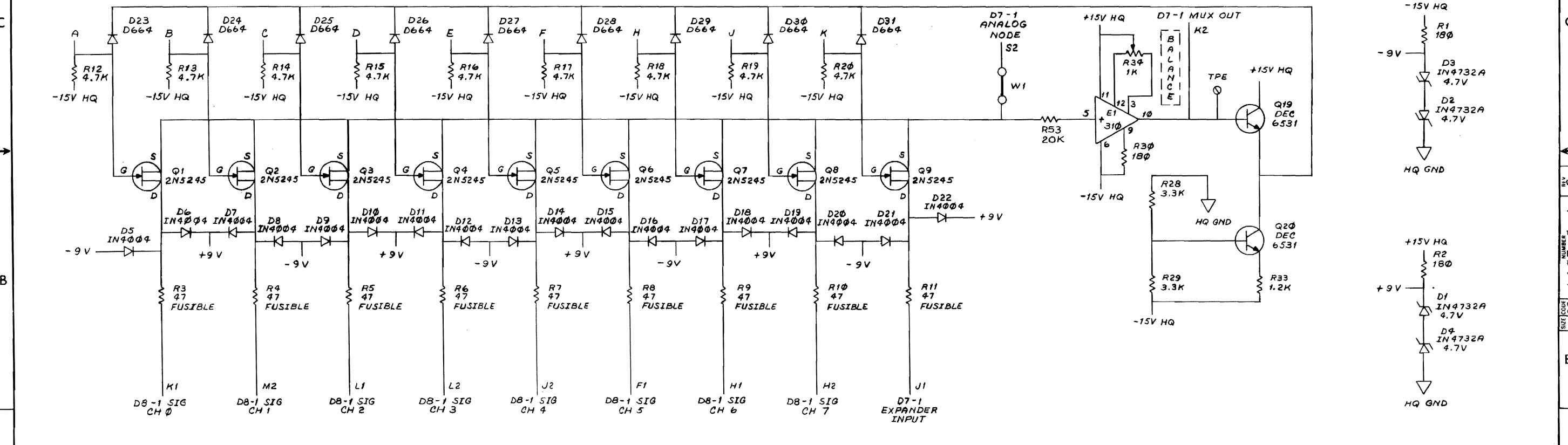
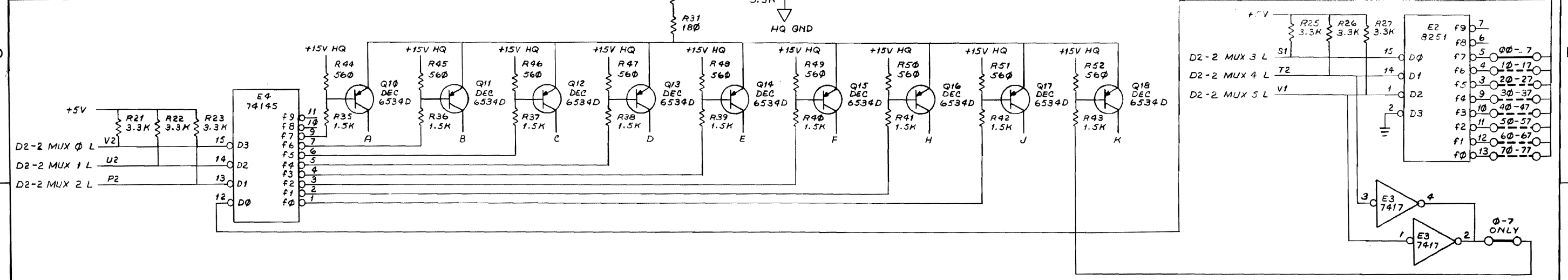
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

**IC PIN LOCATIONS**

FIRST USED ON OPTION MODEL		PARTS LIST	
QTY	REF DESIGNATION	DESCRIPTION	PART NO.
	2N5245	NONE	
	IN4732A	NONE	
	IN4004	NONE	
	DEC 6534D	MPS6534	
	DEC 6531	MPS6531	
	D664	IN3606	

DRN. J. LIPCON	DATE 10-18-72	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. J. LIPCON	DATE 12-07-72	
ENGR. J. LIPCON	DATE 11-15-72	
PROL. ENGR. J. LIPCON	DATE 11-15-72	
TITLE <b>8 CHANNEL MULTIPLEXER (D7-0)</b>		SIZE CODE DCS A407-0-1
SCALE SHEET 1 OF 2		

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 DIGITAL EQUIPMENT CORPORATION

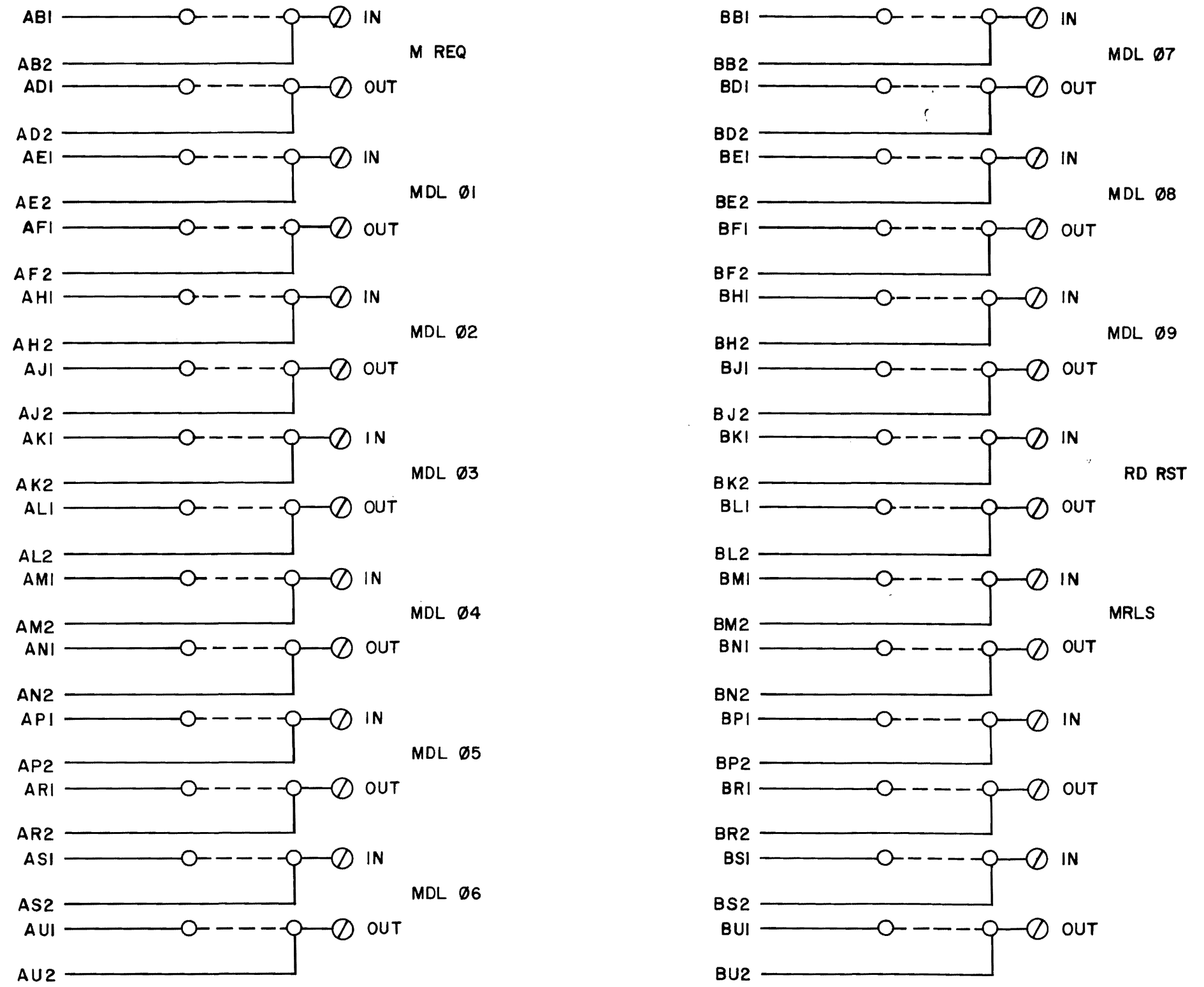


- NOTES:
- CLIP JUMPERS "0-7", "10-17", ..., ETC NOT IN USE. e.g. - IF MODULE IS ASSIGNED TO CHANNELS 0-7, REMOVE JUMPERS "10-17", "20-27", "30-37", "40-47", "50-57", "60-67" AND "70-77".
  - IF MODULE IS ASSIGNED TO CHANNELS 0-7, LEAVE JUMPER "0 TO 7 ONLY" INTACT. IF MODULE IS ASSIGNED TO CHANNELS 10 TO 17 OR HIGHER, JUMPER "0-7 ONLY" MUST BE REMOVED.
  - JUMPER "W1" MUST BE REMOVED ON CHANNEL 0-7 MULTIPLEXER IF DUAL SAMPLE AND HOLD (LPSSH) IS INSTALLED.
  - FUSIBLE RESISTORS, R3 - R11, WILL BLOW OPEN WHEN OVERVOLTAGE IS APPLIED TO CH0, CH1, ... ETC.

REVISIONS  
 CHANGE NO. REV.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		<b>digital</b> CORPORATION MAYNARD, MASSACHUSETTS		
DECIMALS .XXX - .005 .XX - .02 .X - .1	ANGLES ±0° 30'	DRN: J. Vincent DATE: 10-13-72 CHK'D: [Signature] DATE: 11/2/72 ENG: [Signature] DATE: 11/2/72 BRD. ENG: [Signature] DATE: 11/2/72 PROD: [Signature] DATE: 11/2/72	TITLE 8 CHANNEL MULTIPLEXER (D7-1)	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE NUMBER REV. DCS A407-0-1 C		
FINISH	SCALE	SHEET 2 OF 2		

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UNLESS OTHERWISE INDICATED:  
 ○--○ INDICATES JUMPERS  
 ⊗ INDICATES SPLIT LUGS

REVISIONS	CHK/CHG NO.	REV.	DRN. ALLAN RITCEY	DATE 1-21-70	TRANSISTOR & DIODE CONVERSION CHART				<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE JUMPER CARD G728				
				CHK'D <i>S. Whitcomb</i>	DATE 2-9-70	DEC	EIA	DEC		EIA	SIZE	CODE	NUMBER	REV.
				ENG. <i>J. G. Lohr</i>	DATE 3-11-70						B	CS	G728-0-1	
				POP. <i>K. Silverman</i>	DATE 9/27/70						PRINTED CIRCUIT REV.    A			

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NOTES:  
1. N.C. INDICATES NO CONNECTION, NOT A SIGNAL.

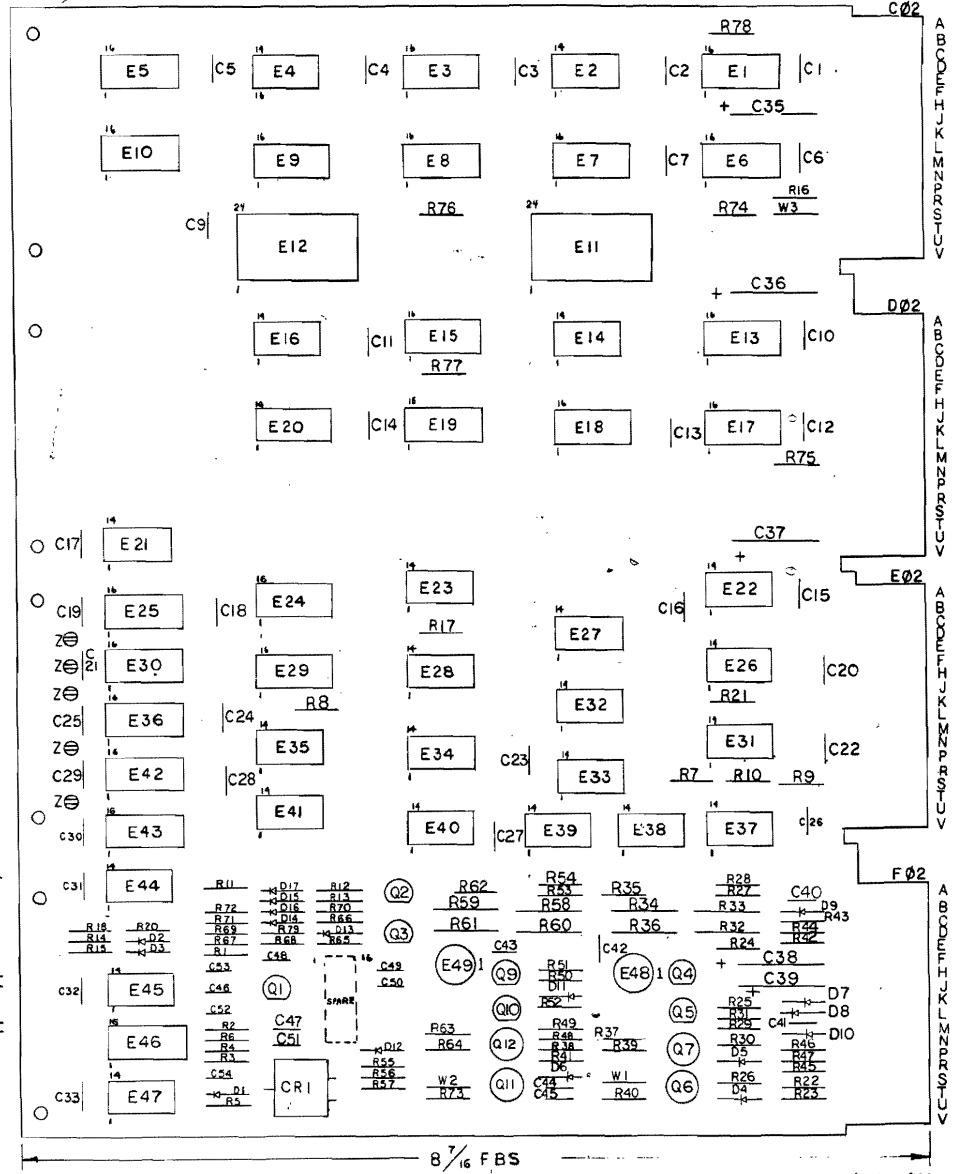
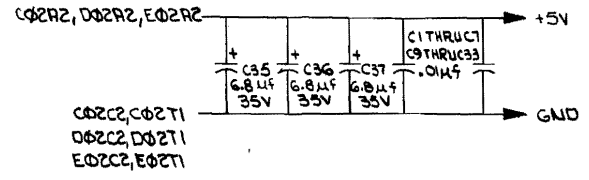


Table with columns: QTY, REF DESIGNATION, DESCRIPTION, PART NO., ITEM NO. It lists various components such as IC DEC 7486, resistors, capacitors, and diodes.

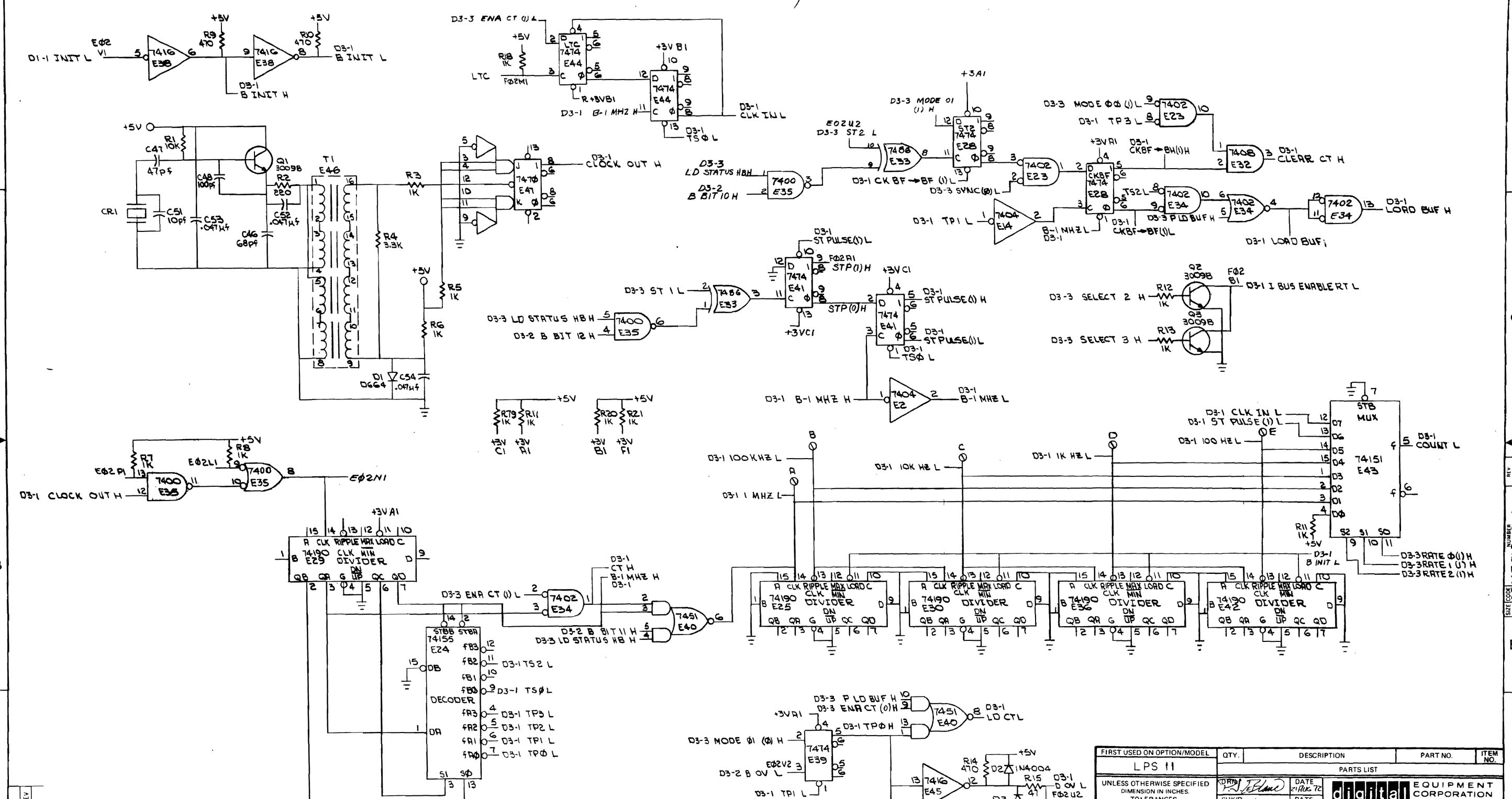
Table with columns: IC TYPE, GND, +5V. It lists IC types and their corresponding pin locations for GND and +5V.

Table with columns: CHK, CHANGE NO., REV. It contains revision information for the drawing.

Table with columns: DEC NO., EIA NO., DEC NO., EIA NO. It contains semiconductor conversion chart information.

Complex block containing digital equipment corporation logo, title 'R.T. CLOCK LPSKW', and other project details.

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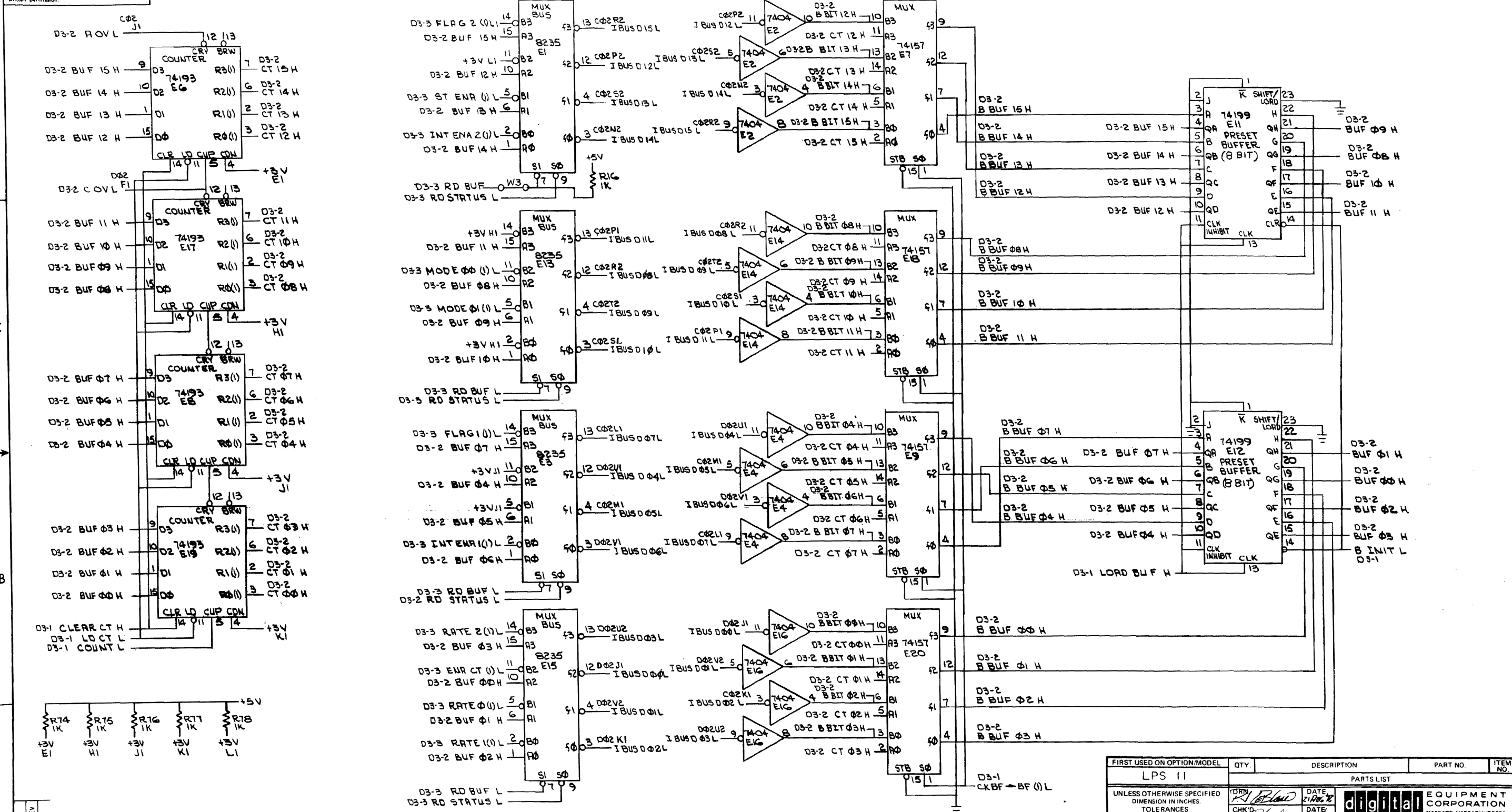


REV	CHANGE NO	REVISIONS

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS II				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES				
DECIMALS	ANGLES	TITLE		
.XXX = .005	± 0° 30'	R.T. CLOCK LPSKW D3-1		
.XX = .02		MATERIAL NEXT HIGHER ASSY.		
.X = .1		FINISH		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		SCALE NONE		
SHEET 2 OF 4		DIST.		

REV E  
NUMBER  
D CS M7016-0-1  
SIZE LOCAL

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REV	CHANGE NO.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS II		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES				
DECIMALS	ANGLES	TITLE		
.XXX = .005	± 0° 30'	R.T. CLOCK LPSKW		
.XX = .02		D3-2		
.X = .1		DCS M7016-0-1		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL		NEXT HIGHER ASSY.		
FINISH		SCALE NONE	SHEET 3 OF 4	DIST.

REV. NO. 1  
NUMBER DCS M7016-0-1

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1-0-9102W5012

D

C

B

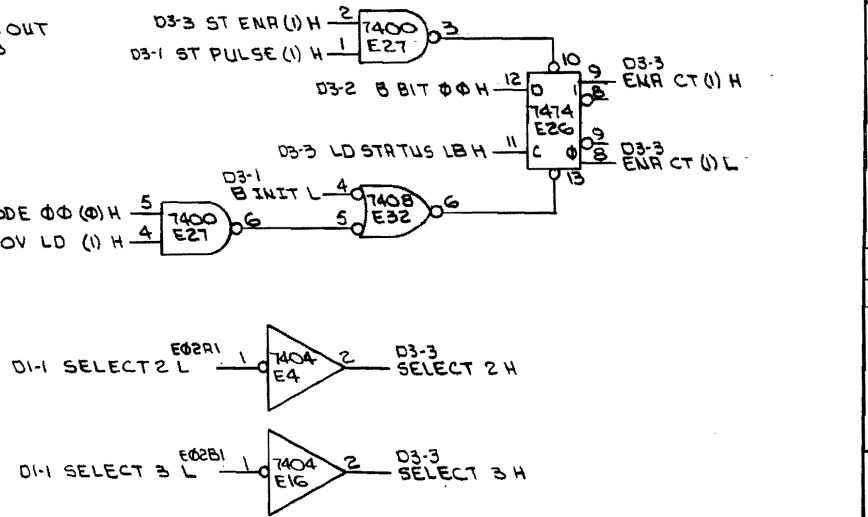
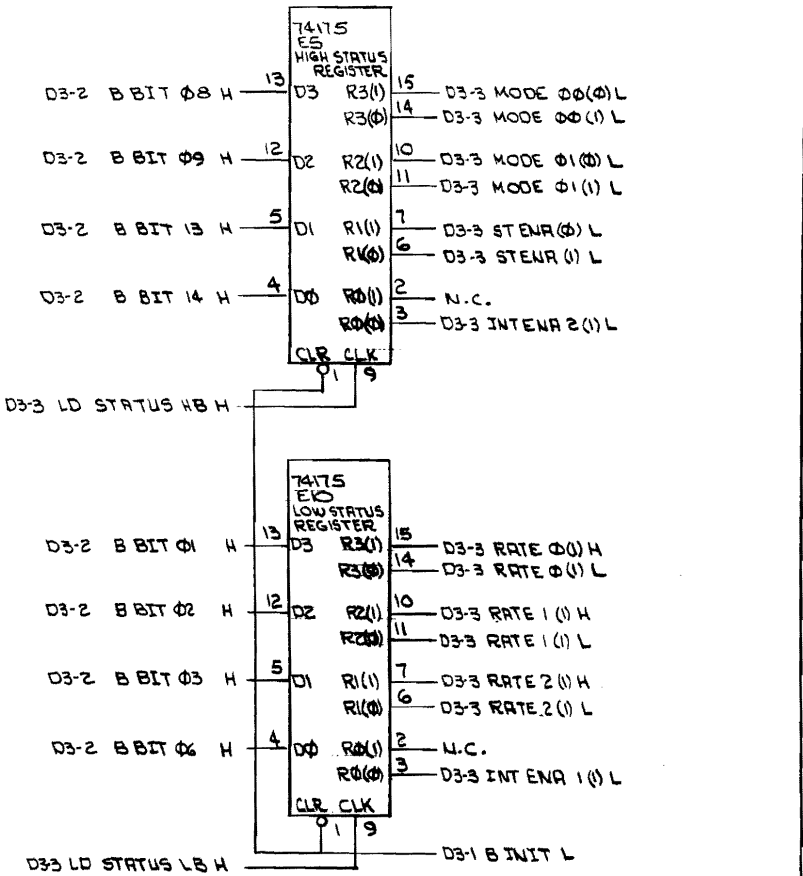
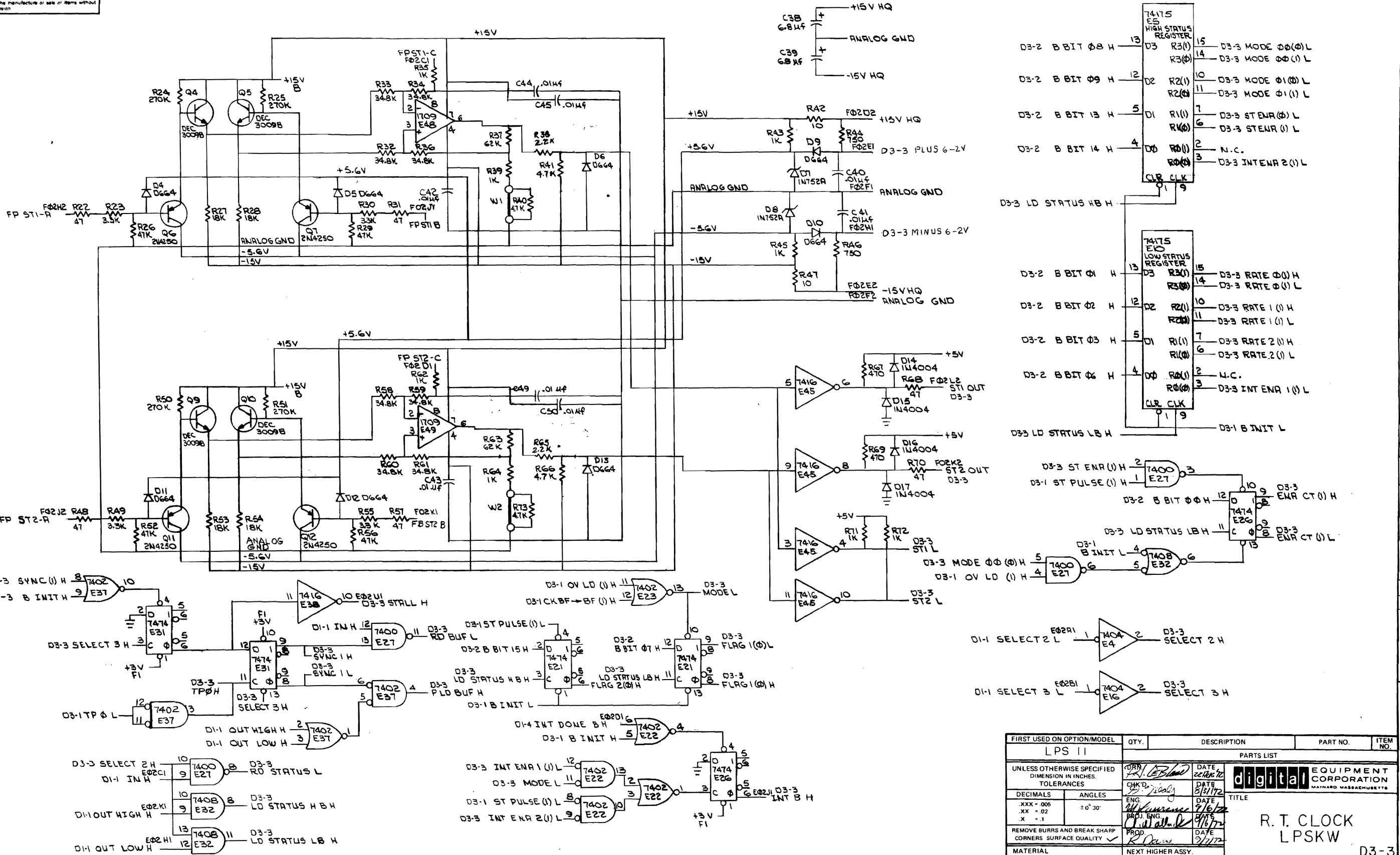
A

D

C

B

A



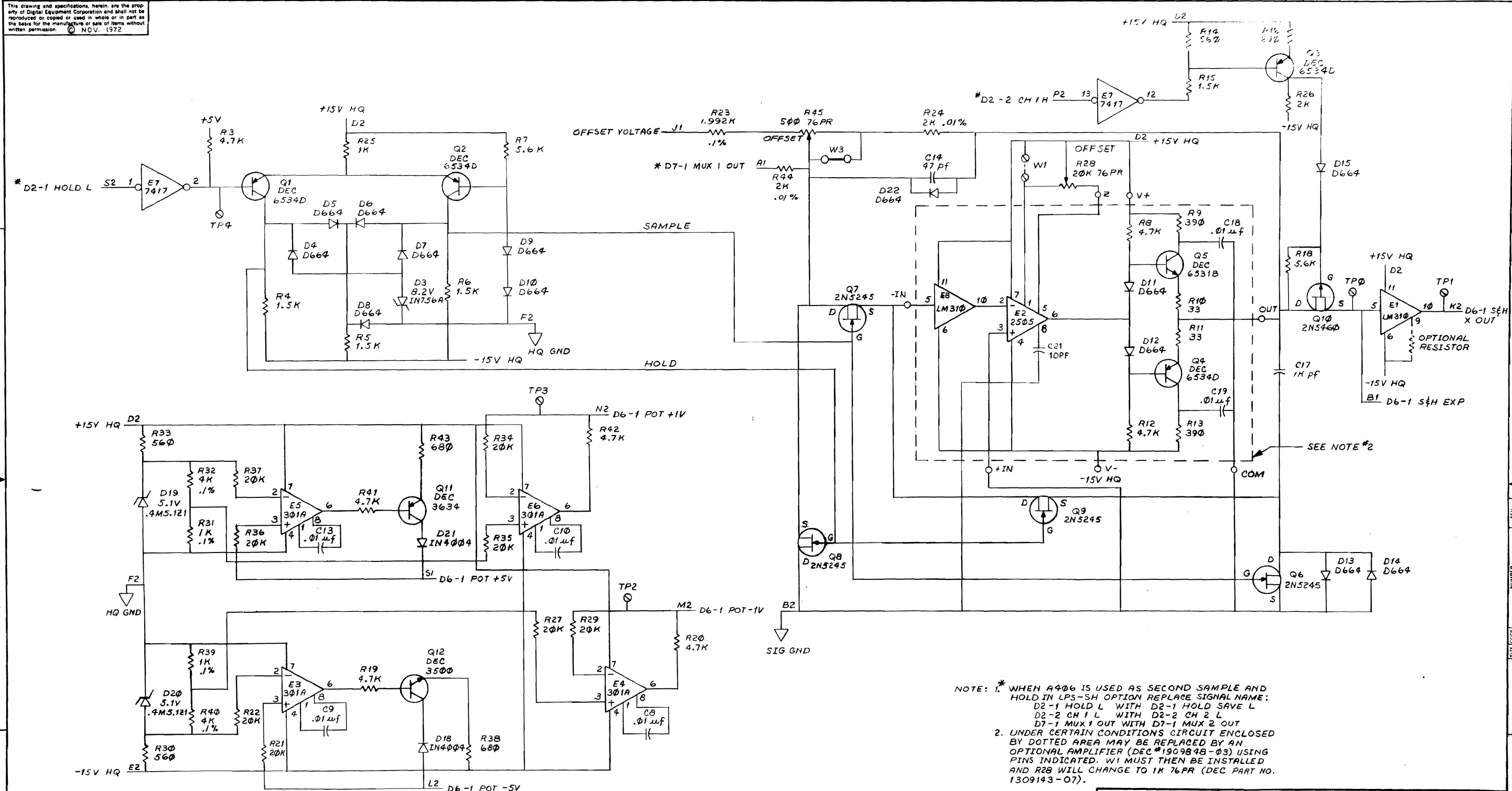
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS II		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DATE 2/16/72	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	CHK'D. 2/16/72	TITLE	
.XXX - .005	± 0° 30'	ENG. 2/16/72	R. T. CLOCK	
.XX - .02		BRD. ENG. 2/16/72	LPSKW	
.X - .1		PROD. 2/16/72	D3-3	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			SIZE CODE	NUMBER
MATERIAL		NEXT HIGHER ASSY.	DCS M7016-0-1	
FINISH		SCALE NONE		REV. E
		SHEET 4 OF 4	DIST.	

BRUNING 40-522 15840  
DEC 1964 NG  
DRD 102-B

REV. E  
NUMBER  
DCS M7016-0-1



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NOTE: 1. \* WHEN A406 IS USED AS SECOND SAMPLE AND HOLD IN LPS-SH OPTION REPLACE SIGNAL NAME: D2-1 HOLD L WITH D2-1 HOLD SAVE L D2-2 CH 1 L WITH D2-2 CH 2 L D7-1 MUX 1 OUT WITH D7-1 MUX 2 OUT  
 2. UNDER CERTAIN CONDITIONS CIRCUIT ENCLOSED BY DOTTED AREA MAY BE REPLACED BY AN OPTIONAL AMPLIFIER (DEC #1909848-03) USING PINS INDICATED. W1 MUST THEN BE INSTALLED AND R28 WILL CHANGE TO 1K 76PR (DEC PART NO. 1309143-07).

REV	NO
CHANGE NO	
CHK	

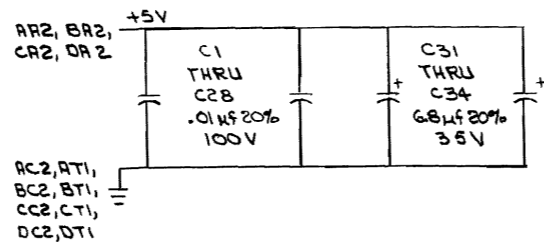
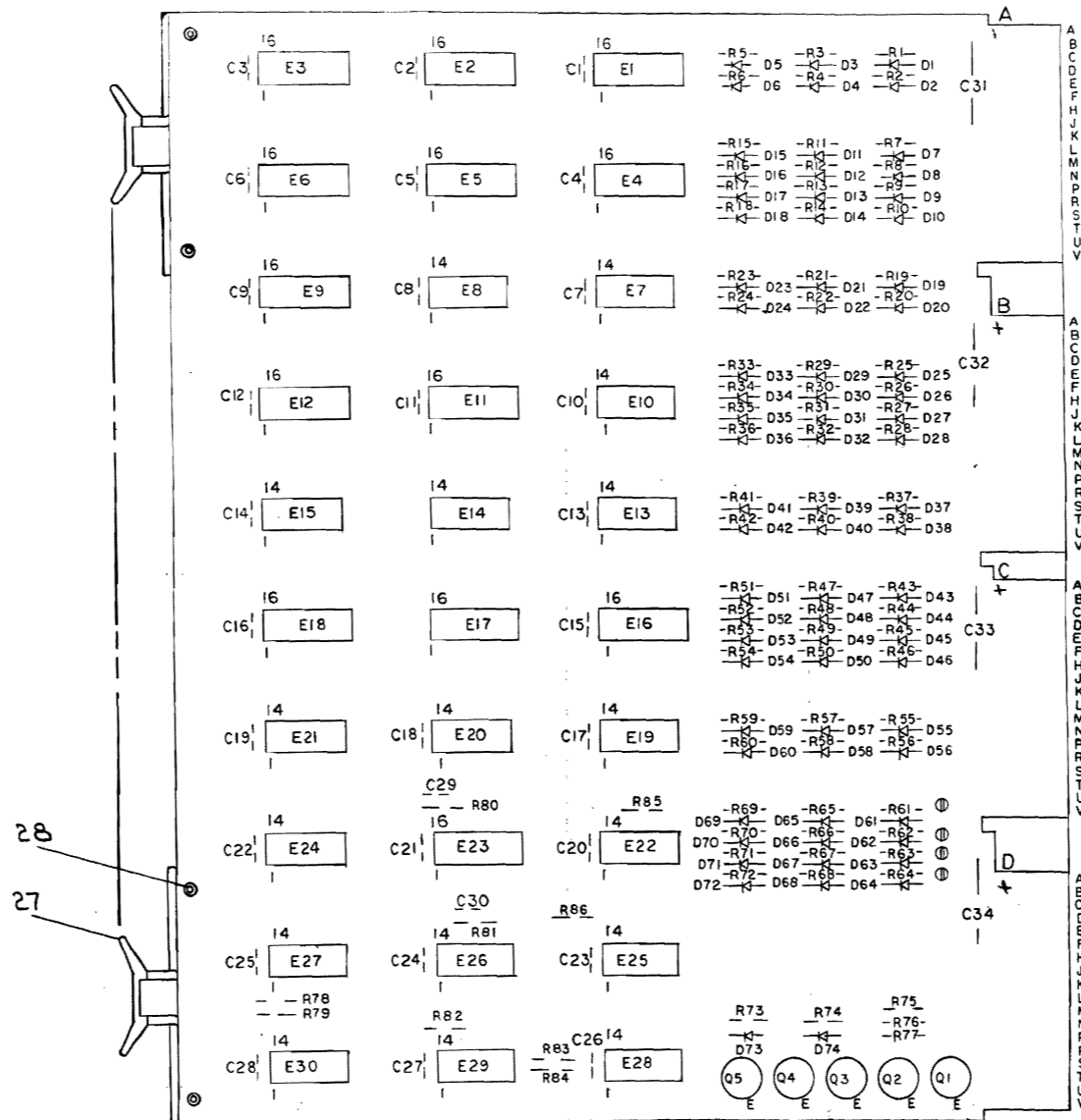
DEC FORM NO. DRD 102-B

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
A406		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN <i>J. Vincent</i> DATE 10-27-72		
DECIMALS	ANGLES	CHK'D <i>J. Vincent</i> DATE 11-1-72		
.XXX - .005	10° 30'	ENG. <i>J. Vincent</i> DATE 12/11/72		
.XX - .02		PROJ. ENG. <i>J. Vincent</i> DATE 12/11/72		
.X - .1		PROD. <i>J. Vincent</i> DATE	TITLE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH	SCALE		DCS	A406-0-1
SHEET 2 OF 2			DIST.	REV. D

REV. D  
DCS A406-0-1

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**NOTES:**



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
4		SPLIT LUG #M-1033	9006135	29
8		EYELET #GS4-7 STIMPSON	9006732	28
4		HANDLE, FLIP-CHIP (MARGENTA)	9008337-06	27
2	E20, E28	I.C. DEC 8881	1909105	26
4	E2, E5, E12, E17	I.C. DEC 8235	1909935	25
8	E13, E14, E15, E16, E18	I.C. DEC 74175	1910651	24
4	E24, E27, E29, E30	I.C. DEC 7474	1905547	23
1	E23	I.C. DEC 74123	1910436	22
3	E1, E4, E15	I.C. DEC 7404	1909686	21
4	E10, E13, E22	I.C. DEC 7416	1909928	20
1	E25	I.C. DEC 7408	1910155	19
1	E26	I.C. DEC 7402	1909004	18
2	E19, E21	I.C. DEC 7400	1904515	17
3	Q1, Q2, Q3	TRANSISTOR DEC 3009B	1503100	16
2	Q4, Q5	TRANSISTOR DEC 2219	1501811	15
2	R80, R81	RES. 10K 10% 1/4 W	1300481	14
18	R1, R3, R5, R7, R9, R11, R13, R15, R17, R19, R21, R23, R29, R31, R33, R35, R61, R63	RES. 3.3K 5% 1/4 W	1300439	13
10	R3, R7B, R83, R86	RES. 1K 5% 1/4 W	1300363	12
20	R25, R27, R31, R33, R41, R43, R45, R47, R49, R51, R53, R55, R57, R59, R65, R67, R69, R71, R73, R75	RES 470Ω 5% 1/4 W	1300316	11
36	R2, R4, R6, R8, R10, R12, R14, R16, R18, R20, R22, R24, R26, R28, R30, R32, R34, R36, R38, R40, R42, R44, R46, R48, R50, R52, R54, R56, R58, R60, R62, R64, R66, R68, R70, R72	RES 47Ω 1% 1/4 W FUSIBLE	1310881-2	10
2	D73, D74	DIODE D664	1100114	9
12	D1-D72	DIODE 1N4004	1105796	8
4	C31, C32, C33, C34	CAP. 6.8 μF 20% 35V	1000067	7
28	C1-C28	CAP. .01 μF 20% 100V	1001610-01	6
2	C29, C30	CAP. 330 pF 5% 100V	1000023	5
1		ETCHED CIRCUIT BOARD	5010172	4
REF		MODULE ECO HISTORY	8-MH-M7017-0-6	3
REF		PBSY/DRILLING HOLE LAYOUT	0-9H-M7017-0-5	2
REF		X-Y COORDINATE HOLE LOCATION	K-60-M7017-0-4	1

DEC NO.	REV	IC TYPE	GND	+5V
DEC 8235	B	16		
DEC 74123	B	16		
DEC 74175	B	16		
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE				
IC PIN LOCATIONS				

**REVISIONS**

CHK	CHANGE NO.	REV
3-22-73	1	B
3-22-73	2	B
3-22-73	3	B

**SEMICONDUCTOR CONVERSION CHART**

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

**PARTS LIST**

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1		ETCHED CIRCUIT BOARD	5010172	4
1		MODULE ECO HISTORY	8-MH-M7017-0-6	3
1		PBSY/DRILLING HOLE LAYOUT	0-9H-M7017-0-5	2
1		X-Y COORDINATE HOLE LOCATION	K-60-M7017-0-4	1

**digital EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS

**DIGITAL I/O LPSDR**

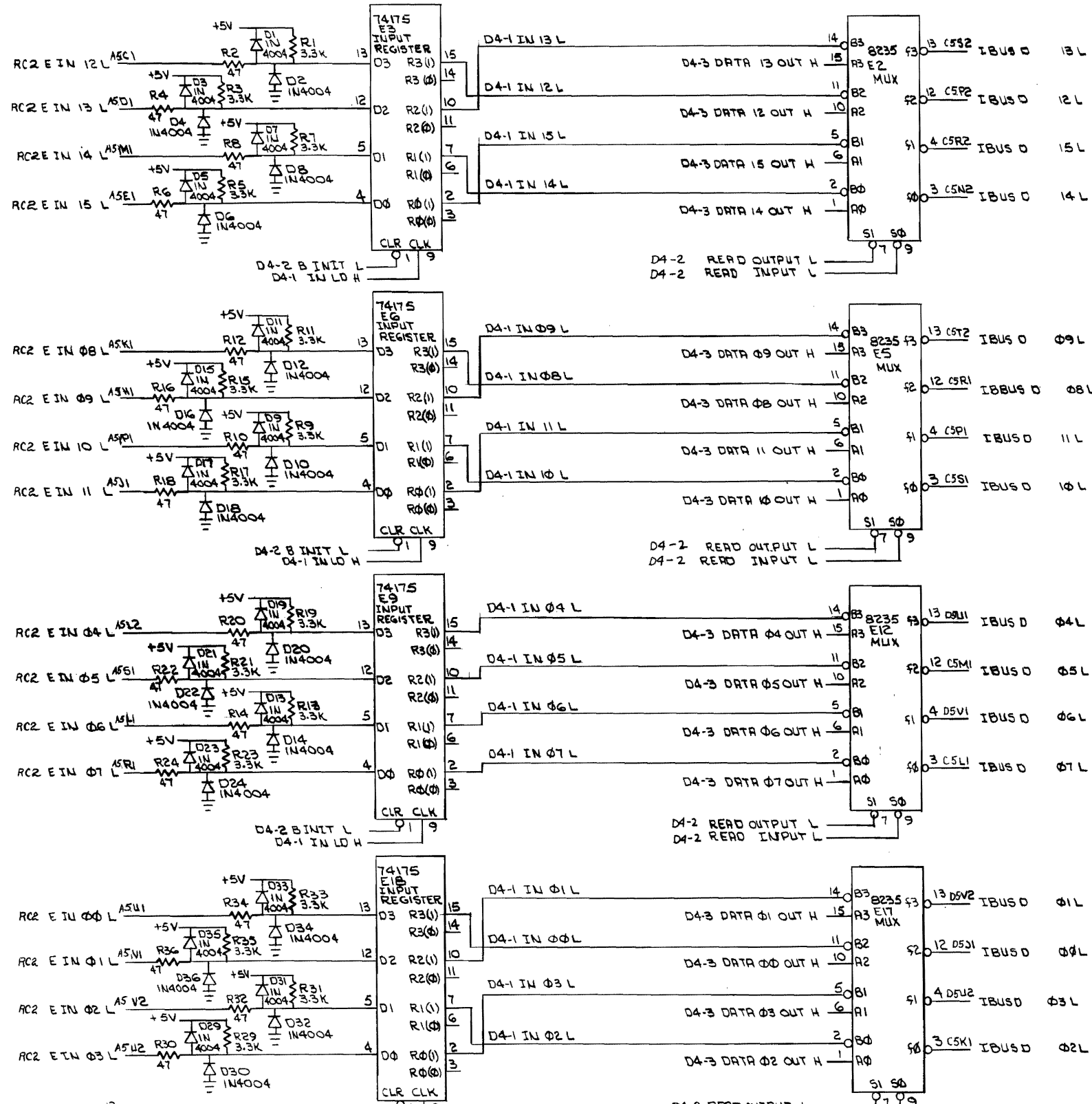
DATE: 12/16/72  
CHK'D: 11/10/72  
ENG: 10/19/72  
PRD. ENG: 10/19/72  
PRD.: 10/19/72

SCALE: NONE  
SHEET: 1 OF 4

SIZE CODE: DCS M7017-0-1  
NUMBER: B  
REV: B

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NOTE:  
ALL 47 OHM RESISTORS ARE FUSIBLE AND WILL BLOW OPEN WHEN OVER VOLTAGE IS APPLIED TO THE INPUT OR OUTPUT.

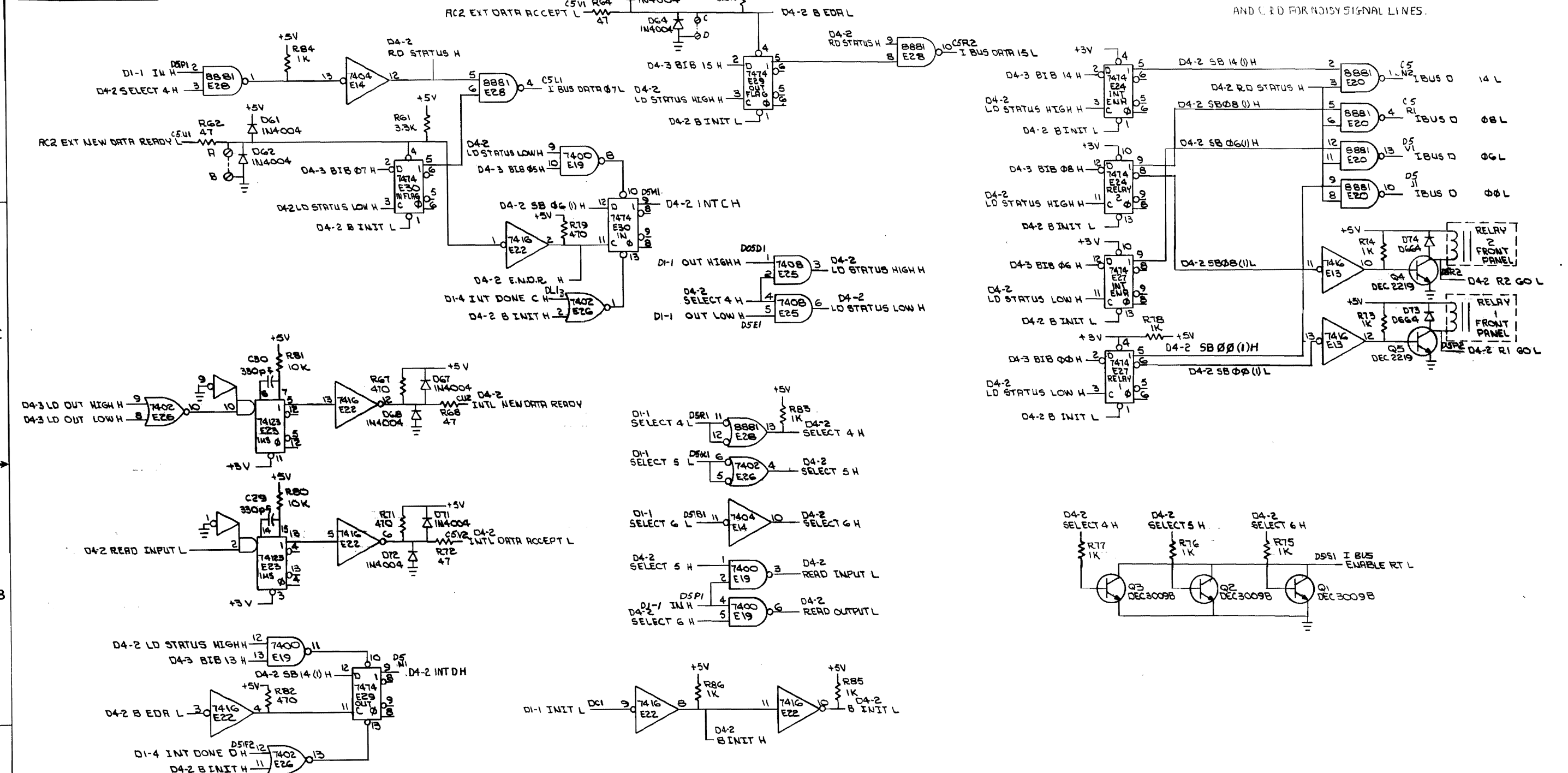


FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS II		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DATE 8/16/72	TITLE DIGITAL I/O (INPUT BUFFER) LPSDR	
DECIMALS	ANGLES	CHK'D: [Signature]	DATE 8-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
.XXX - .005	±0° 30'	ENG. [Signature]	DATE 8-72	
XX - .02		PROJ. ENG. [Signature]	DATE 8/16/72	
X - .1		PROD. [Signature]	DATE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER D4-1
FINISH	SCALE NONE	DCSM7017-0-1		REV. B
SHEET 2 OF 4		DIST.		

BRUNING 40-522 15840	REV	NO
REVISIONS	CHANGE NO	
CHK		

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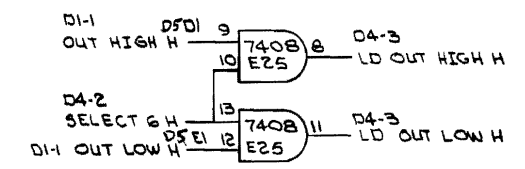
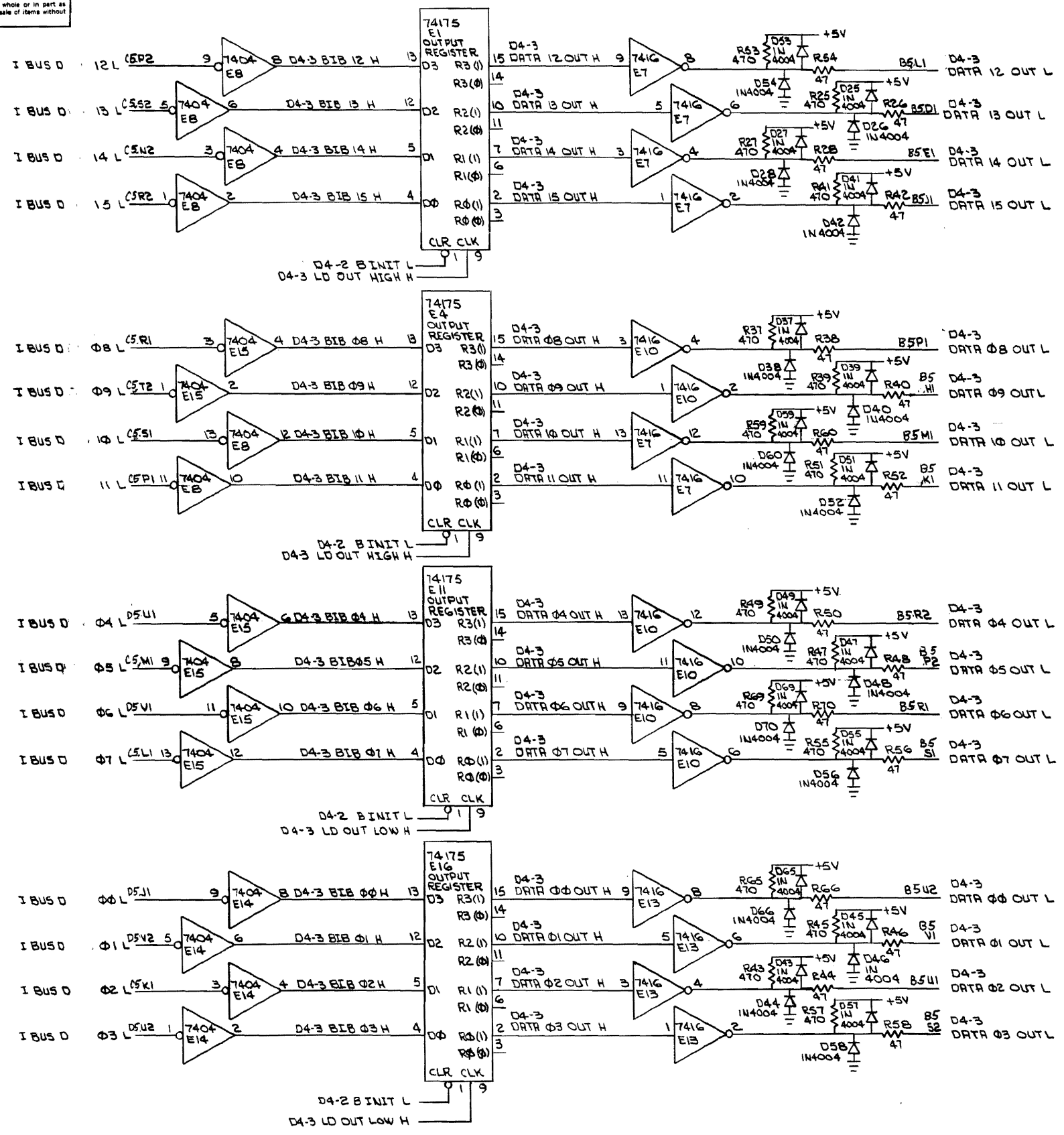
NOTE:  
A CAP CAN BE ADDED ACROSS LUGS A & B  
AND C & D FOR NOISY SIGNAL LINES.



REV	CHANGE NO.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS II				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DATE 23/10/72	DATE 9-28-72	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS .XXX - .005 ANGLES ±0° 30'	CHK'D BY HOORE	DATE 10-19-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	ENG. M. J. CLAWSON	DATE 10-19-72	TITLE <b>DIGITAL I/O (CONTROLLER) LPSDR</b>	
	PROJ. ENG. M. J. CLAWSON	DATE 10-19-72		
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH	SCALE NONE		DCS M7017-0-1	B
	SHEET 3 OF 4		DIST.	

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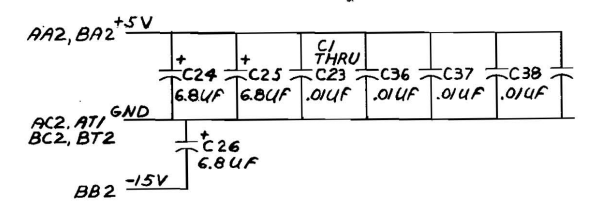
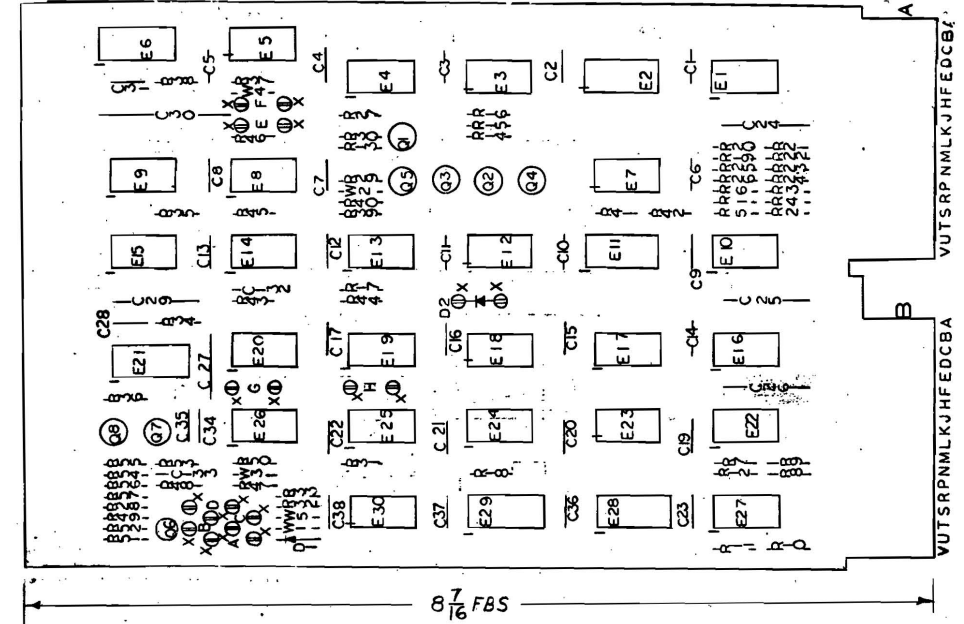


REV	CHANGE NO

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS II		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DATE 2/25/72	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	CHK'D. FRANK MOORE	DATE 2-25-72	TITLE DIGITAL I/O
.XXX = .005	± 0° 30'	ENG. Michael Sullivan	DATE 10-18-72	(OUTPUT BUFFER)
.XX = .02		PROD. ENG. [Signature]	DATE 10-20-72	LPSDR
.X = .1		PROD.	DATE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL		NEXT HIGHER ASSY.	SIZE CODE	NUMBER D4-3
FINISH		SCALE NONE	DCS M7017-0-1	REV. B
		SHEET 4 OF 4	DIST.	

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**NOTES:**  
 1. FOR STANDARD CONFIGURATION USE JUMPERS:  
 W1, W3, W4 & W5.



IC TYPE	GND	+5V
DEC7475	12	5
DEC74123	8	16
DEC74175	8	16
DEC8251	8	16

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

IC PIN LOCATIONS	
1	16
2	15
3	14
4	13
5	12
6	11
7	10
8	9
9	8
10	7
11	6
12	5
13	4
14	3
15	2
16	1

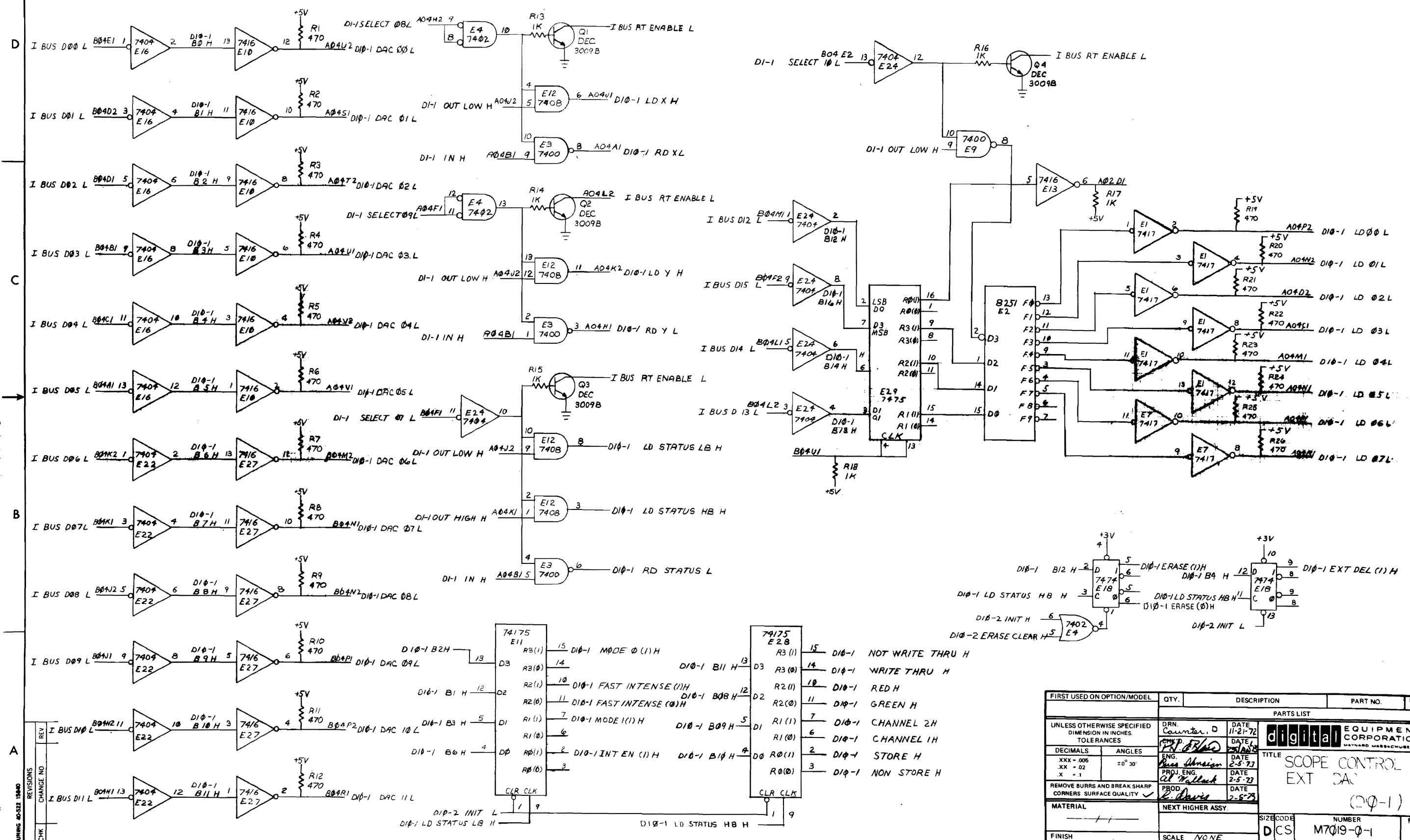
CHK	CHANGE NO.	REV
<input checked="" type="checkbox"/>	1	A
<input checked="" type="checkbox"/>	2	B
<input checked="" type="checkbox"/>	3	C

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

DRN. <i>S. Charlier</i>	DATE 11/30/72		TITLE <b>SCOPE CONTROL &amp; EXT DAC</b>
CHK'D <i>[Signature]</i>	DATE 11/30/72		
ENG. <i>[Signature]</i>	DATE 2-5-73		
PROJ. ENG. <i>[Signature]</i>	DATE 2-5-73		
PRP. <i>[Signature]</i>	DATE 2-5-73		
NEXT HIGHER ASSY		SCALE NONE	REV. D
SEMICONDUCTOR CONVERSION CHART		SHEET 1 OF 3	

REF	DESCRIPTION	PART NO.	ITEM NO.
REF	X-Y COORDINATE HOLE LOCATION	K-CO-M7019-0-4	1
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M7019-0-5	2
REF	MODULE ECO HISTORY	B-MH-M7019-0-6	3
1	ETCHED CIRCUIT BOARD	5010195	4
27	C1 THRU C17, C19 THRU C23, C34 THRU C38	CAP .01 MFD 20% 100V DISC	1001610-01
1	C33	CAP 10 MMF 5% 100V DM	1000006
2	C32, C28	CAP 470 MMF 5% 100V DM	1000024
1	C29	CAP .033 MFD 10% 100V MYLAR	1000050
1	C30	CAP .22 MFD 10% 100V MYLAR	1000037
1	C31	CAP 100 MMD 100V	1000016
3	C24 THRU C26	CAP 6.8 UF 20% 35V TANT	1000067
1	C27	CAP .01 MFD 10% 100V	1005784
2	D1 D2	DIODE D664	110014
25	R1 THRU R12, R19 THRU R28, R30, THRU R42, R47	RES 470 5% 1/4W	1300316
13	R13 THRU R18, R27 R29 R38 R35, R45, R48, R51	RES 1K 5% 1/4W	1900365
2	R31, R38	RES 33K 10% 1/4W	1300510
2	R32, R44	RES 5.8K 5% 1/4W	1301874
1	R33	RES 6.8K 5% 1/4W	1301423
1	R34	RES 18K 10% 1/4W	1300498
1	R37	RES 22K 5% 1/4W	1301808
2	R38, R52	RES 12K 5% 1/4W	1300488
1	R43	RES 39K 5% 1/4W	1302514
1	R50	RES 1.2K 5% 1/4W	1901320
1	R53	RES 100 5% 1/4W	1300228
3	R54, R55 R28	RES 390 5% 1/4W	1300389
3	R48, R49, R58	RES 2.2K 5% 1/4W	1300417
1	R57	RES 47 5% 1/4W	1300202
6	Q1 THRU Q5, Q7	TRANS DEC 3009B	1503100
1	Q8	TRANS DEC 6534D	1503409
1	Q8	TRANS 2N4313	1505715
3	E18, E22, E24	IC DEC 7404	1909888
1	E2	IC DEC 8251	1909594
2	E11, E28	IC DEC 74178	1910851
2	E6, E21	IC DEC 74123	1910438
1	E15	IC DEC 8015	1909713
2	E14, E26	IC DEC 9001	1909373
3	E5, E8, E18	IC DEC 7474	1905547
3	E17, E23, E30	IC DEC 8081	1909705
1	E25	IC DEC 7410	1905578
4	E3, E9, E19, E20	IC DEC 7400	1905575
1	E12	IC DEC 7408	1910155
1	E4	IC DEC 7402	1909904
3	E1, E7, E10, E13, E27	IC DEC 7418	1909928
1	E29	IC DEC 7475	1909950
2		HANDLE, FLIP CHIP, MAGENTA	9008337-08
18		SPLIT LUGS	9008735
4		EYELET	9008732
2	E1, E7	IC DEC 7417	1909929
5	W1-W5	INSULATED JUMPERS	9009185

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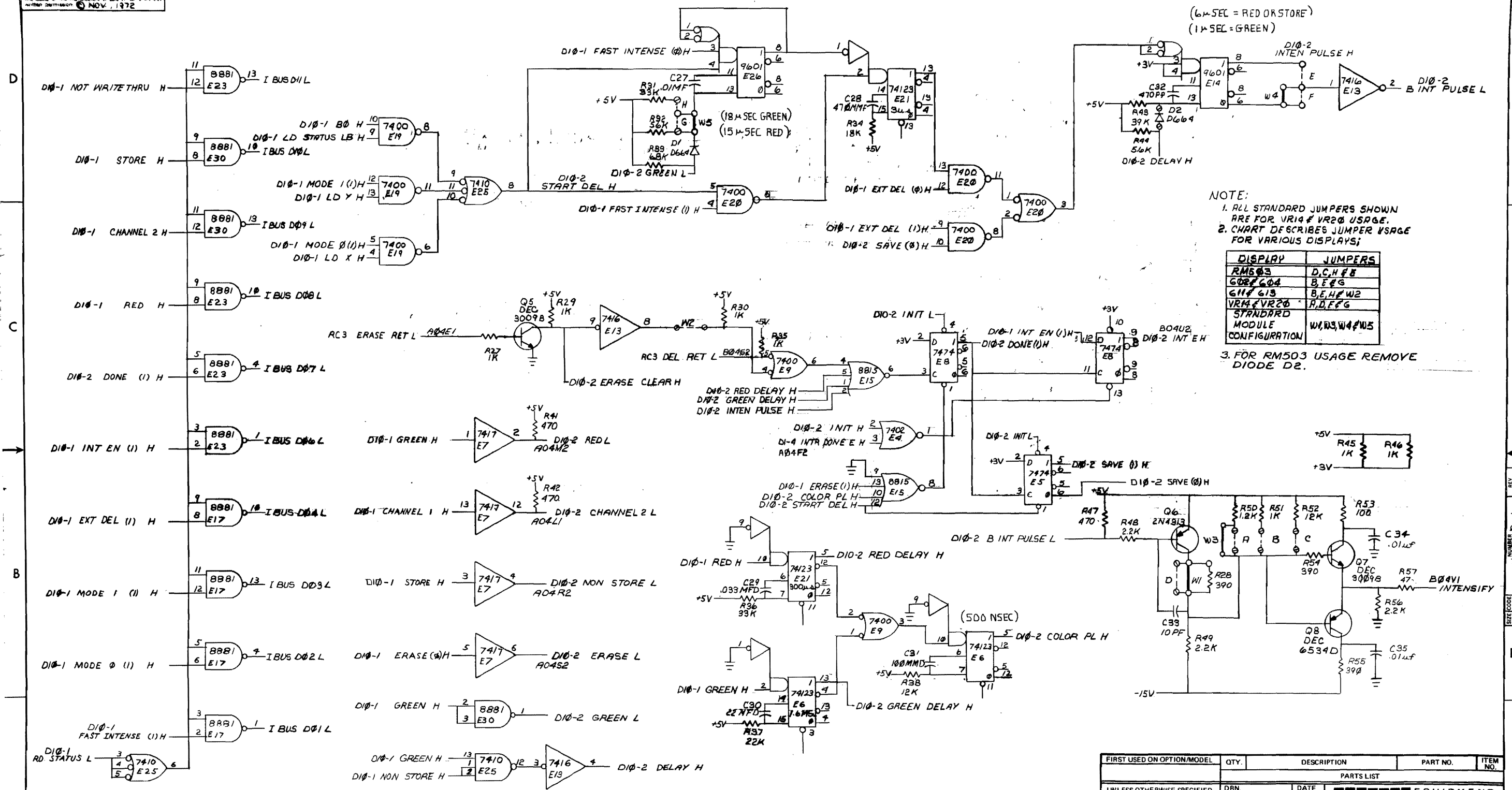


REV	NO	DATE
1	1	11-21-72
2	1	2-5-73
3	1	2-5-73
4	1	2-5-73

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES				
DECIMALS		ANGLES	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
XXX - .005		±0° 30'	TITLE SCOPE CONTROL EXT DAC (DI-1)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL NEXT HIGHER ASSY.				
FINISH				
SCALE NONE		SIZE CODE DCS		NUMBER M7019-0-1
SHEET 2 OF 3		DIST		REV D

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1-0-6102W 50 2



NOTE:  
 1. ALL STANDARD JUMPERS SHOWN ARE FOR VR14 & VR20 USAGE.  
 2. CHART DESCRIBES JUMPER USAGE FOR VARIOUS DISPLAYS;

DISPLAY	JUMPERS
RM503	D,C,H,F
GM604	B,E,G
GM613	B,E,H,W2
VR14 & VR20	A,D,E,G
STANDARD MODULE CONFIGURATION	W1,W3,W4,W5

3. FOR RM503 USAGE REMOVE DIODE D2.

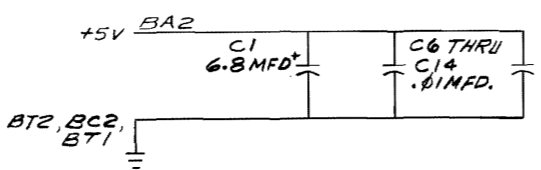
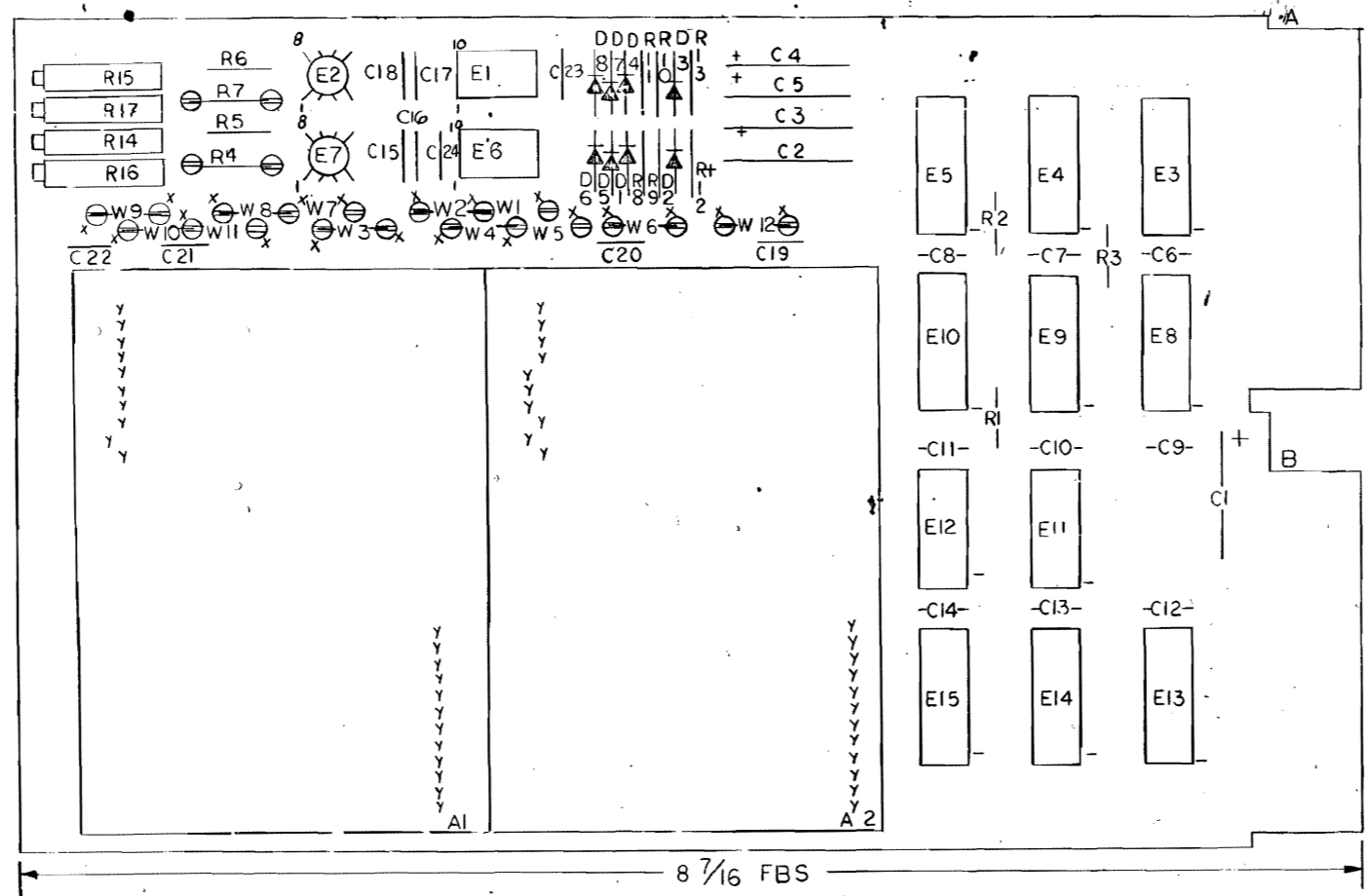
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. <i>S. Clatten</i> DATE 11-72	DATE 11-72	<b>digital</b> EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	CPK P. <i>S. Clatten</i> DATE 2-5-73	DATE 2-5-73		
ANGLES	ENG. <i>Steve Hanson</i> DATE 2-5-73	DATE 2-5-73		
.XXX - .005 .XX - .02 .X - .1	PROJ ENG. <i>Ed Willard</i> DATE 2-5-73	DATE 2-5-73		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. <i>S. Clatten</i> DATE 2-5-73	DATE 2-5-73		
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH	SCALE NONE		DCS	M7019-0-1
	SHEET 3 OF 7		DIST.	REV. D

REVISIONS  
 CHANGE NO.  
 REV.

REV. D  
 NUMBER 0-1  
 M7019-0-1  
 DCS

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**NOTES:**  
1. FOR STD CONFIGURATION USE JUMPERS W2, W3, W4, W6, W8, W9, W10 & W12.



A/R	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
		#22 WIRE, AWG		9107560-01	27
2		R4, R7	RES. 820, 5%, 1/4W	13-01775	26
					25
2		C23, C24	CAP. 27pf, 100V, 5% DM	10-01739	24
24			SPLIT LUG	9006735	23
2			EYELET	9006732	22
1			HANDLE FLIP CHIP AMBER	9008337-0	21
2		R1, R2	DEC. DAC	A6000	20
2		E2, E7	I.C. DEC. 2505	1911144	19
6		E4, E5, E9, E10, E14, E15	I.C. DEC. 74175	1910651	18
2		E1, E6	I.C. DEC. 0002	1910446	17
3		E3, E8, E13	I.C. DEC. 8235	1909935	16
2		E11, E12	I.C. DEC 7404	1909686	15
2		R12, R13	RES. 47, 1%, 1/4W	1310881-02	14
2		R14, R15	RES. 20K, 10%, 3/4W, 76PR	1309143-11	13
2		R16, R17	RES. 500, 10%, 3/4W, 76PR	1309143-06	12
2		R5, R6	RES. 909, 1%, 1/8W	1302685	11
3		D1 THRU D3	RES. 1K, 5%, 1/4W	1300365	10
4		D4 THRU D8	RES. 390, 5%, 1/4W	1300309	9
4		D1 THRU D4	DIODE 1N4004	1105796	8
4		D5 THRU D8	DIODE 1N752A, 5%, 40W	1102808	7
17		C6 THRU C22	CAP. .01MFD., 20%, 100V	1001610-08	6
5		C1 THRU C5	CAP. 6.8MFD., 10%, 35V	1005306	5
1			ETCHED CIRCUIT BOARD	5010274	4
REF			MODULE ECO HISTORY	B-MH-A625-0-6	3
REF			ASSY./DRILLING HOLE LAYOUT	D-AH-A625-0-5	2
REF			X-Y COORDINATE HOLE LOC.	K-CO-A625-0-4	1

REV	DATE	BY	CHKD	DESCRIPTION
DEC 8235	8	16		
DEC 74175	8	16		
IC TYPE	GND	+5V		

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

IC PIN LOCATIONS

FIRST USED ON OPTION MODEL: LPS11

ETCH BOARD REV: 1

DATE: 12/21/72  
 CHK'D: D. D. Reed  
 ENG: J. Schuman  
 PROJ. ENG: J. Hallack  
 PROD: J. Davis

DATE: 2-5-73  
 DATE: 2-5-73  
 DATE: 2-5-73

REVISIONS:  
 A625-0001  
 CHANGE NO. REV

SEMICONDUCTOR CONVERSION CHART

DEC NO.	EIA NO.	DEC NO.	EIA NO.
		1N4004	NONE
		1N752A	NONE

SCALE: 1/4" = 1"

SHEET 1 OF 3

digital EQUIPMENT CORPORATION  
 MAYNARD, MASSACHUSETTS

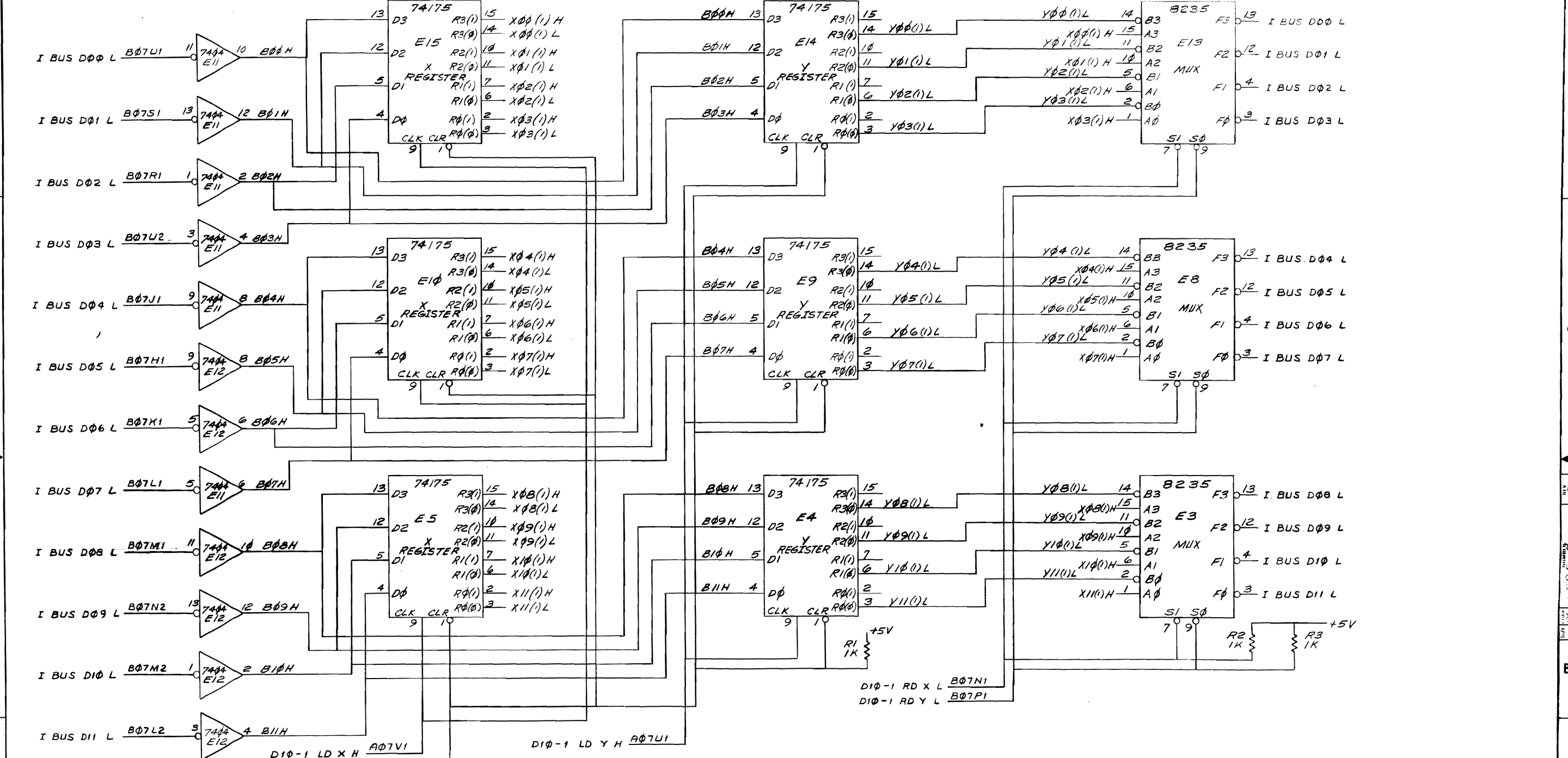
TITLE: DUAL DAC (A625)

SIZE CODE: DCS A625-0-1

NUMBER: 1

REV: C

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+5V  
R1 1K  
R2 1K  
R3 1K

D10-1 RD X L B07N1  
D10-1 RD Y L B07P1

D10-1 LD X H A07V1  
D1-1 INIT L B07V1

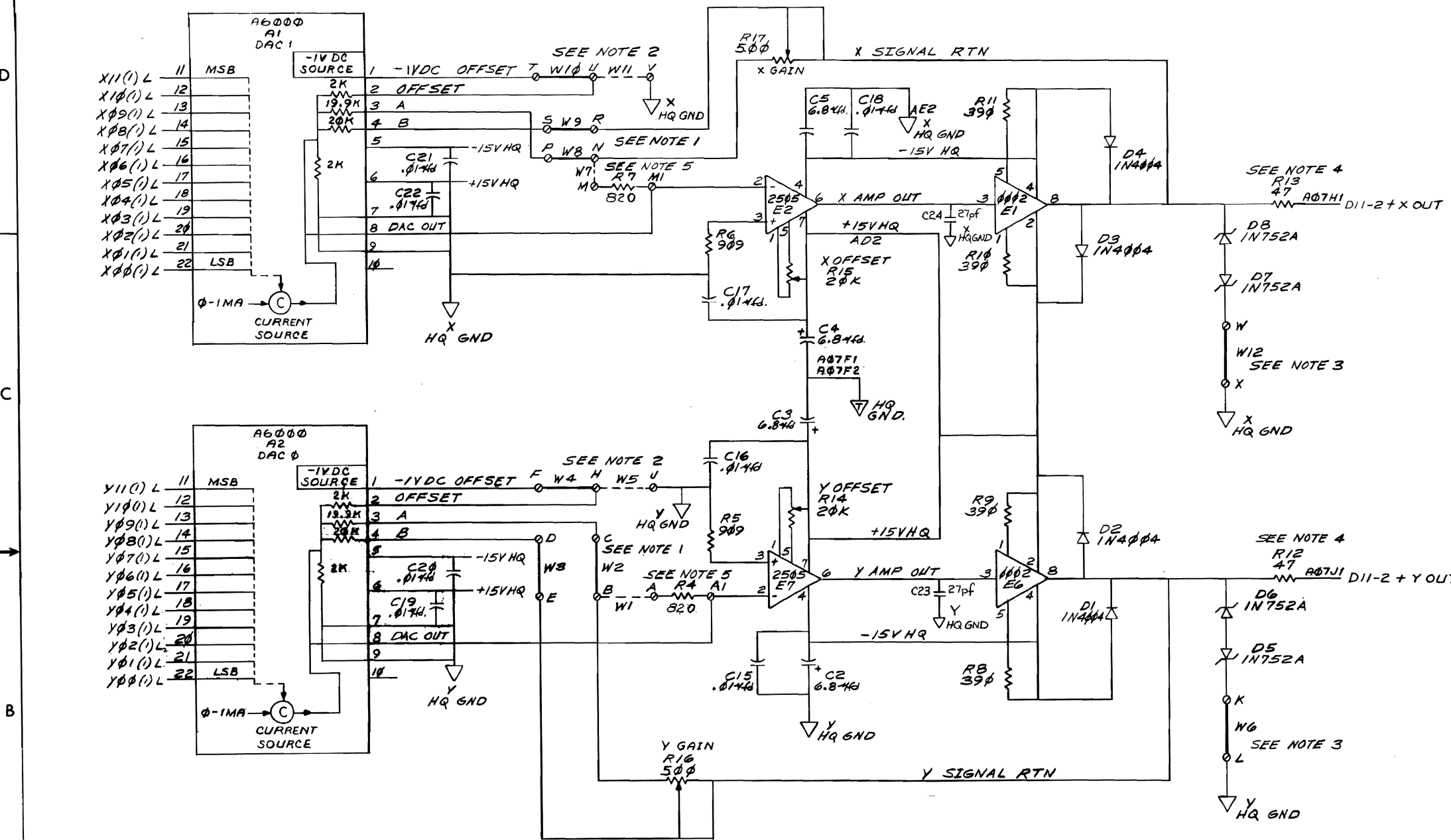
D10-1 LD Y H A07W1

REGISTERS

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
LPS11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN <i>Patricia</i>	DATE 12/12/72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS .XXX ± .006 ANGLES ± 0'30"	CHK'D <i>Patricia</i>	DATE 1/11/73	TITLE DUAL DAC (A625)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	ENG <i>Chris Anderson</i>	DATE 2-5-73	NUMBER D11-1	
MATERIAL	PROJ ENG <i>Cliff Wallack</i>	DATE 2-5-73	REV. C	
FINISH	PROD. <i>Patricia</i>	DATE 2-5-73	SCALE 1/4"	
	NEXT HIGHER ASSY.	SIZE CODE DCS	SHEET 2 OF 3	
		DIST		

REV	CHANGE NO	DATE

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NOTES:

1. SETUP GAINS
 

GAIN	JUMPERS		BIPOLAR OUTPUT	UNIPOLAR OUTPUT
	Y	X		
20	W2	W3	±10V	DO NOT USE
10	W2, W3	W8, W9	±5V	0 → 10V
1	W1	W7	±1/2V	0 → 1V
2. SETUP POLARITY
 

POLARITY	JUMPERS	
	Y	X
UNIPOLAR	W5	W11
BIPOLAR	W4	W10
3. W6 AND W12 MUST BE INSTALLED WHEN A VR14 OR VR20 IS USED. FOR OTHER APPLICATIONS, W6 AND W12 SHOULD BE INSTALLED WHEN OUTPUT DOES NOT EXCEED ±6.3V.
4. FUSABLE RESISTORS, 1/4W, 1%. (R13, R12)
5. THE 820 OHM, R4 AND R7 MAY BE REMOVED AND THE GAIN RATES CHANGED BY INSERTING DIFFERENT VALUES OF RESISTANCE BETWEEN SPLIT LUGS A-A1 AND M-M1.
6. ALL JUMPERS SHOWN IN PLACE ARE FOR VR14 OR VR20 USAGE (BIPOLAR GAIN OF 10).

REV	NO
CHK	CHANGE NO

AMPS & DRIVERS

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS 11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN <i>Platt</i>	DATE <i>4/1/72</i>	EQUIPMENT CORPORATION NAYARD MASSACHUSETTS	
DECIMALS .XXX - .005 ANGLES ±0° 30'	CHKD <i>Bob O'Neil</i>	DATE <i>1/11/73</i>		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	ENG <i>Buss</i>	DATE <i>2-8-73</i>	TITLE DUAL DAC (A625) D11-2	
	PROJ. ENG. <i>W. Walack</i>	DATE <i>2-5-73</i>		
MATERIAL	PROD. <i>R. Davis</i>	DATE <i>2-5-73</i>	SIZE CODE	NUMBER
FINISH			DCS	A625-0-1
			SHEET	3 OF 3
			DIST.	

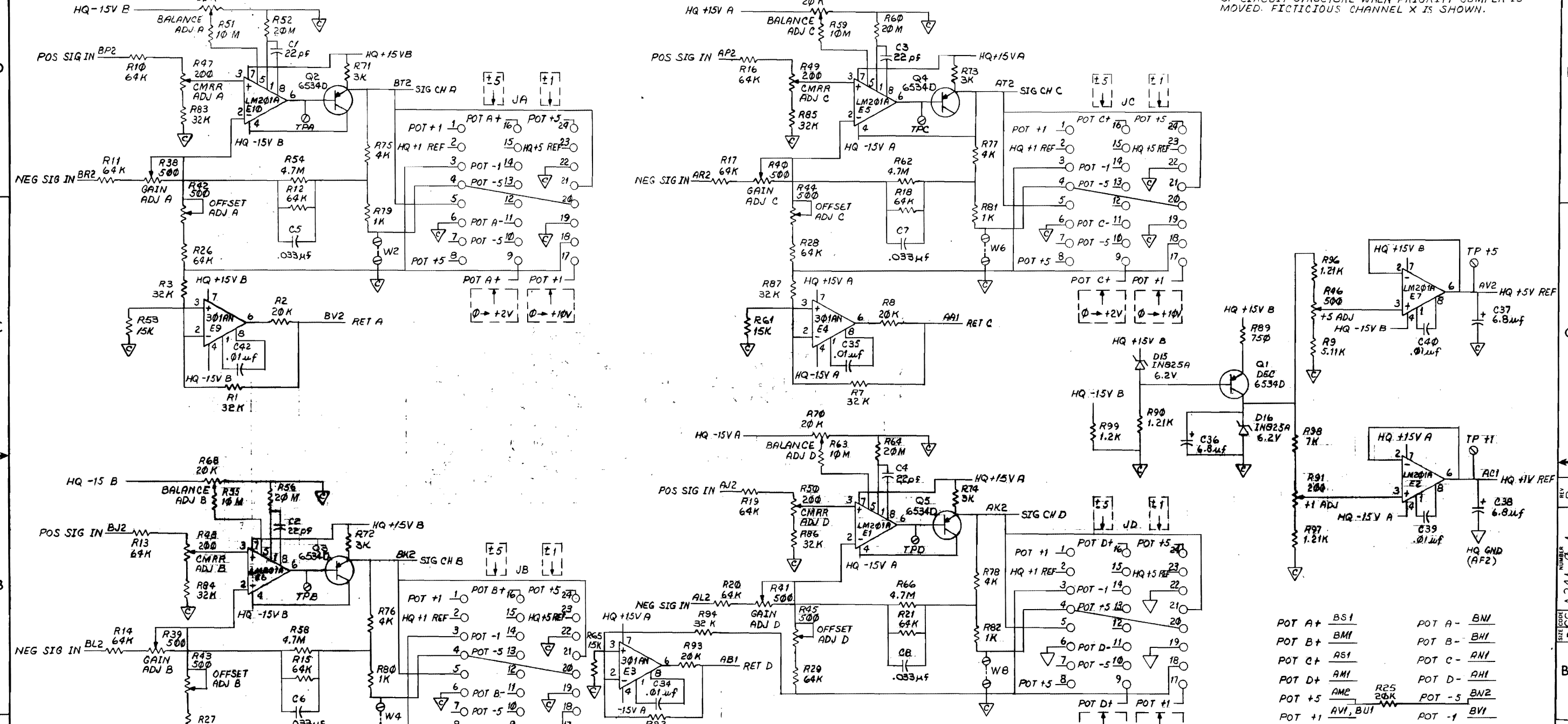






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NOTE:  
1. JUMPER INTERCONNECTION TABLE BELOW SHOWS ALTERATION OF CIRCUIT STRUCTURE WHEN PRIORITY JUMPER IS MOVED. FICTITIOUS CHANNEL X IS SHOWN.



REV	CHANGE NO

SIGNAL	PURPOSE	TO (PIN)			
		±1 RANGE	0→+2 RANGE	±5 RANGE	0→+10 RANGE
BOTTOM OF 1K RESISTOR (4,20)	GAIN	HQ GND (22)	HQ GND (6)	OP AMP PIN 6 (5)	OP AMP PIN 6 (21)
OFFSET CHANNEL X (3,18)	OFFSET	HQ GND (19)	HQ +1 REF (2)	HQ GND (6)	HQ +5 REF (23)
POT X + (9,16)	FRONT PANEL POT BIAS	POT +1 (17)	POT +1 (1)	POT +5 (8)	POT +5 (24)
POT X - (11)	FRONT PANEL POT BIAS	POT -1 (14)	POT -1 (14)	POT -5 (10)	POT -5 (13)

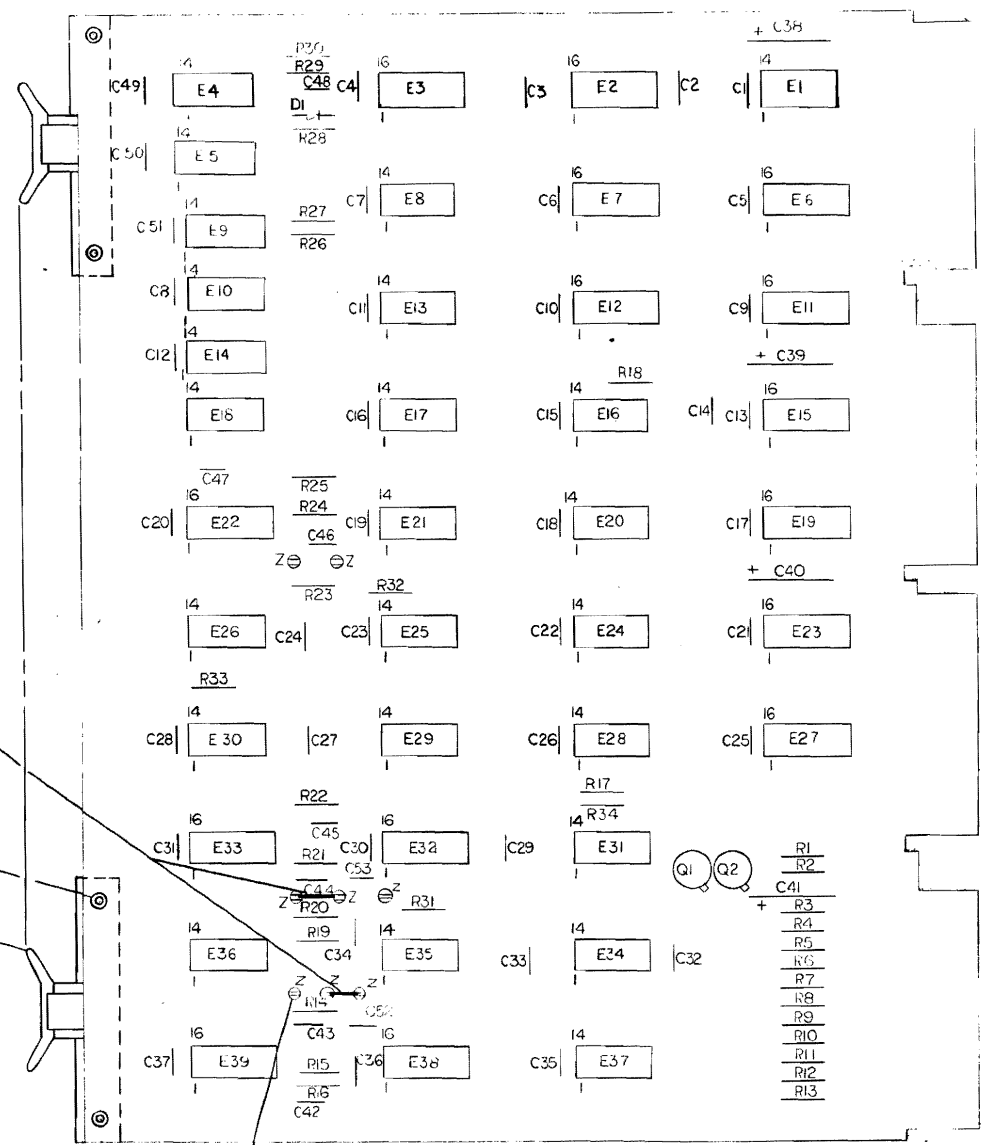
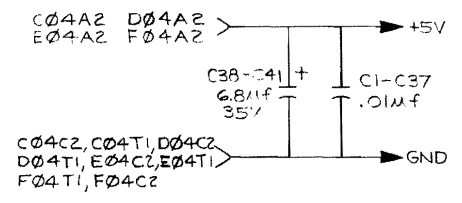
POT A+	BS1	POT A-	BN1
POT B+	BM1	POT B-	BH1
POT C+	BS1	POT C-	CN1
POT D+	AM1	POT D-	DH1
POT +5	AMP	POT -5	BN2
POT +1	AV1, BU1	POT -1	BV1

FIRST USED ON OPTION/MODEL	LPS11-S	QTY.		DESCRIPTION		PART NO.		ITEM NO.	
PARTS LIST									
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES									
DECIMALS	ANGLES	TITLE							
.XXX - .005	±0° 30'	4 CHANNEL 4 GAIN PREAMP							
.XX - .02		REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY							
.X - .1		MATERIAL							
FINISH									
MATERIAL									
FINISH									
SCALE									
SHEET 2 OF 2									
DIST.									
DISTRIBUTION									

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**NOTES:**

1. INSTALL JUMPER WIRES IN SPLIT LUGS AS SHOWN.



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	C43	CAP. 4700 PF, 5%, 100V, D.M.	1001333	36
1	E1	I.C. DEC 7416	1909928	35
2	Q1, Q2	TRANSISTOR DEC 3009 B	1503100	34
8		EYELET GS4-7 STIMPSON	9006732	33
4		HANDLE, FLIP-CHIP MAGENTA	9008337-06	32
8		SPLIT LUGS	9006735	31
1	D1	DIODE D664	1100114	30
1	R29	RES 470 5% 1/4 W	1300316	29
1	R28	RES 220 5% 1/4 W	1300271	28
4	R16, R22, R24, R25	RES 4.7K 5% 1/4 W	1300447	27
2	R14, R21	RES 10K 5% 1/4 W	1300479	26
11	R3 THRU R13	RES 270 5% 1/4 W	1301972	25
15	R1, R2, R15, R17 THRU R20, R23, R26, R27, R30 THRU R34	RES 1K 5% 1/4 W	1300365	24
1	E38	I.C. DEC 7442	1910046	23
1	E28	I.C. DEC 7408	1910155	22
3	E22, E33, E39	I.C. DEC 74123	1910436	21
5	E14, E16, E21, E25, E26	I.C. DEC 7474	1905547	20
1	E29	I.C. DEC 7410	1905576	19
5	E10, E17, E18, E20, E4	I.C. DEC 7402	1909004	18
4	E8, E31, E36, E13	I.C. DEC 7404	1909686	17
4	E6, E11, E15, E19	I.C. DEC 8235	1909935	16
5	E9, E24, E30, E35, E5	I.C. DEC 7400	1905575	15
7	E2, E3, E7, E12, E29, E27, E32	I.C. DEC 74175	1910651	14
2	E34, E37	I.C. DEC 7417	1909929	13
1	C53	CAP. 3300 PF, 5%, 100V, DM	1002423	12
1	C44	CAP. 820 PF, 5%, 100V, DM	1000027	11
2	C42, C45	CAP. 39 PF 5% 100V DM	1000010	10
2	C46, C47	CAP. 560 PF 5% 100V DM	1000025	9
1	C48	CAP. 330 PF 5% 100V DM	1000023	8
4	C38 THRU C41	CAP. 6.8 UF 10% 35V TANT	1005306	7
40	C1 THRU C37, C49, C50, C51	CAP. .01 UF 20% 100V DISC	1001610	6
1	C52	CAP. 1000 PF 5% 100V DISC	1000042	5
1		ETCHED CIRCUIT BOARD	5010173	4
REF		MODULE ECO HISTORY	B-MH-M7018-0-6	3
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-M7018-0-5	2
REF		X-Y COORDINATE HOLE LOCATION	K-CO-M7018-0-4	1

IC TYPE	GND	+5V
DEC 7442	8	16
DEC 74123	8	16
DEC 8235	8	16
DEC 74175	8	16
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.		

REV	DATE	BY	DESCRIPTION
1	1/19/74	E. KING	INITIALS
2	1/19/74	E. KING	INITIALS
3	3/22/73	E. KING	INITIALS
4	3/22/73	E. KING	INITIALS
5	11/30/72	A. WALLACK	INITIALS
6	11/30/72	A. WALLACK	INITIALS
7	11/30/72	A. WALLACK	INITIALS
8	11/30/72	A. WALLACK	INITIALS
9	11/30/72	A. WALLACK	INITIALS
10	11/30/72	A. WALLACK	INITIALS
11	11/30/72	A. WALLACK	INITIALS
12	11/30/72	A. WALLACK	INITIALS
13	11/30/72	A. WALLACK	INITIALS
14	11/30/72	A. WALLACK	INITIALS
15	11/30/72	A. WALLACK	INITIALS
16	11/30/72	A. WALLACK	INITIALS
17	11/30/72	A. WALLACK	INITIALS
18	11/30/72	A. WALLACK	INITIALS
19	11/30/72	A. WALLACK	INITIALS
20	11/30/72	A. WALLACK	INITIALS
21	11/30/72	A. WALLACK	INITIALS
22	11/30/72	A. WALLACK	INITIALS
23	11/30/72	A. WALLACK	INITIALS
24	11/30/72	A. WALLACK	INITIALS
25	11/30/72	A. WALLACK	INITIALS
26	11/30/72	A. WALLACK	INITIALS
27	11/30/72	A. WALLACK	INITIALS
28	11/30/72	A. WALLACK	INITIALS
29	11/30/72	A. WALLACK	INITIALS
30	11/30/72	A. WALLACK	INITIALS
31	11/30/72	A. WALLACK	INITIALS
32	11/30/72	A. WALLACK	INITIALS
33	11/30/72	A. WALLACK	INITIALS
34	11/30/72	A. WALLACK	INITIALS
35	11/30/72	A. WALLACK	INITIALS
36	11/30/72	A. WALLACK	INITIALS

FIRST USED ON OPTION/MODEL: LPS11

ETCH BOARD REV: C

DRN: CB McCay DATE: 8/23/72  
 CHG: M. King DATE: 7/5/72  
 ENG: M. King DATE: 7/5/72  
 PROD: R. Davis DATE: 9/7/72

digital EQUIPMENT CORPORATION  
 MAYNARD, MASSACHUSETTS

TITLE: A/D CONTROL

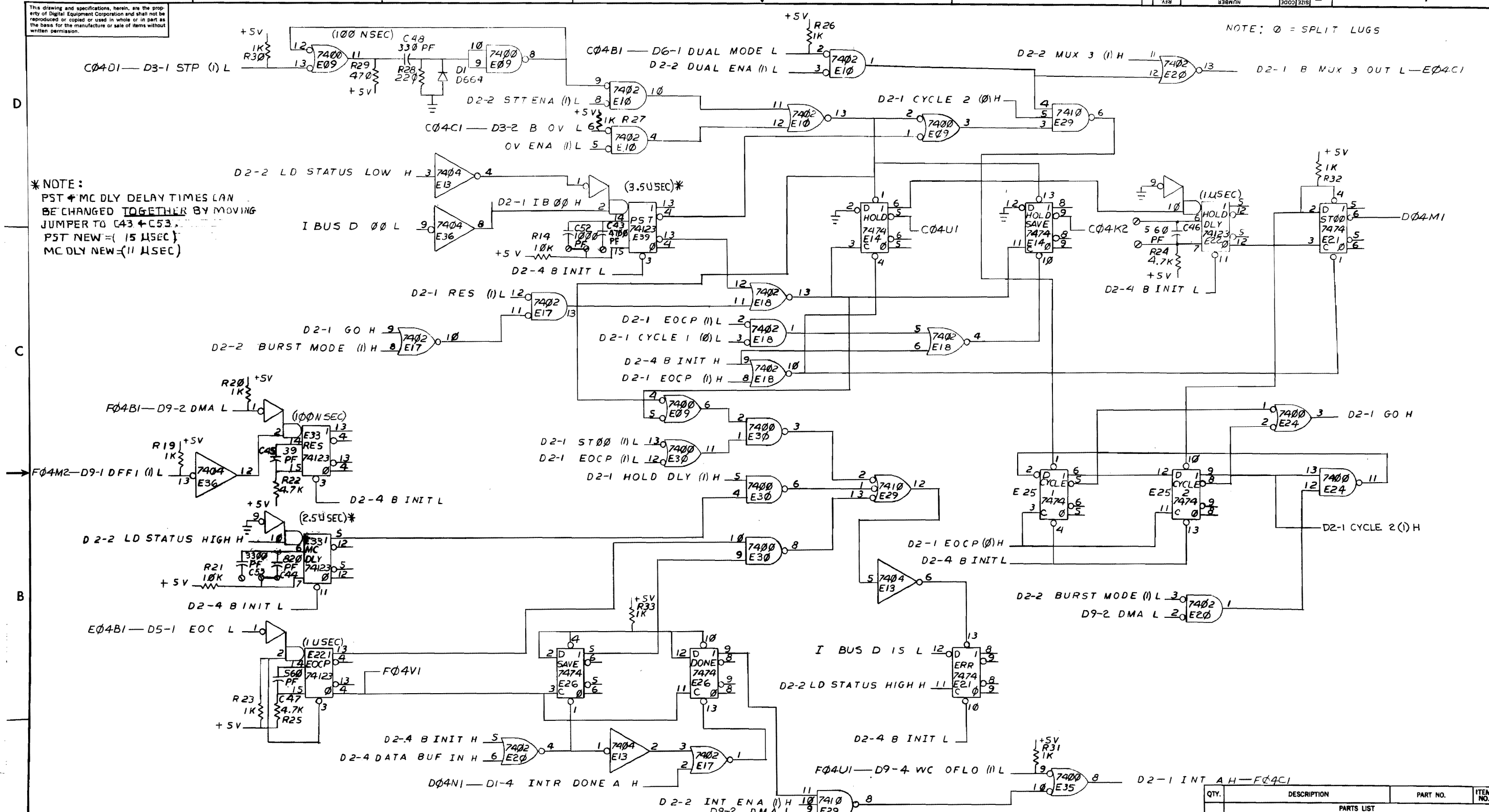
SIZE CODE: D CS M7018-0-1 NUMBER: 1 REV: D

SHEET 1 OF 5

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1-0-8102W50 2

NOTE: Ø = SPLIT LUGS



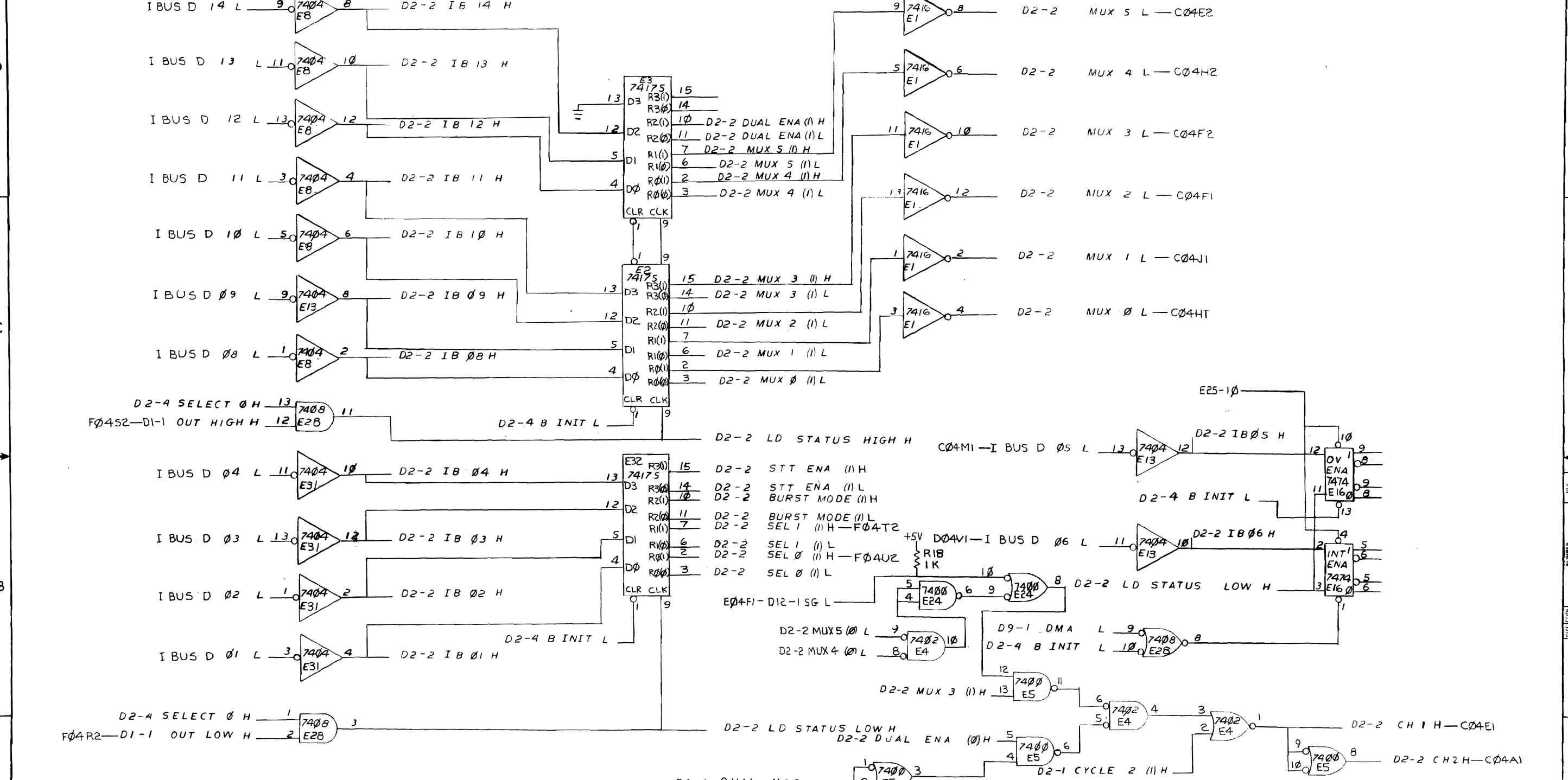
\* NOTE:  
 PST + MC DLY DELAY TIMES CAN  
 BE CHANGED TOGETHER BY MOVING  
 JUMPER TO C43 + C53.  
 PST NEW = (15 µSEC)  
 MC DLY NEW = (11 µSEC)

REV.	CHANGE NO.

FIRST USED ON OPTION / MODEL LPS11		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± 1/64 ± 0°30' FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		DRN: ED KING DATE: 5-24-72 CHKD: [Signature] DATE: 7-2-72 ENG: [Signature] DATE: 7-2-72 PROJ. ENG: [Signature] DATE: 7-8-72 PROD: [Signature] DATE: 7/7/72		PARTS LIST digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TITLE A/D CONTROL				DATE: 7-2-72		REV. D	
MATERIAL —H—				NEXT HIGHER ASSY D-UA-LPS11-0-0		SIZE CODE DICS M7018-0-1	
FINISH —H—				SCALE SHEET 2 OF 5		NUMBER D2-1	

REV. D  
 NUMBER M7018-0-1  
 SIZE CODE DICS

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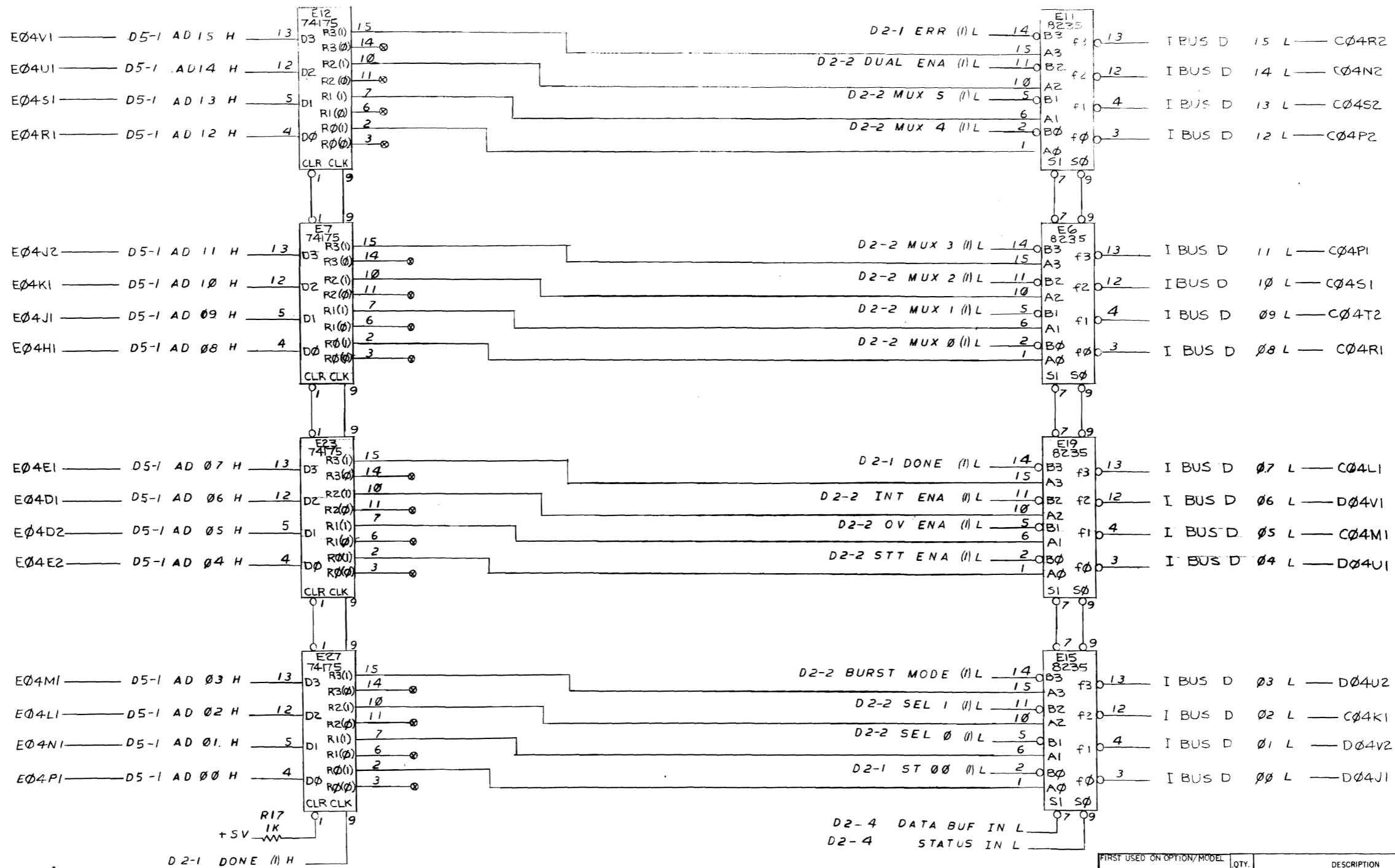
REV	CHANGE NO.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED		DRN	DATE	
UNLESS OTHERWISE SPECIFIED		CHK'D	DATE	
DIMENSION IN INCHES		ENG.	DATE	
TOLERANCES		PROJ. ENG.	DATE	
DECIMALS FRACTIONS ANGLES		PROJ. ENG.	DATE	<b>A/D CONTROL</b>
= .005 ± 1/64 ± 0°30'		PROJ. ENG.	DATE	
FINAL SURFACE QUALITY		PROJ. ENG.	DATE	
REMOVE BURRS AND BREAK SHARP CORNERS		PROJ. ENG.	DATE	
MATERIAL		FIRST USED ON		
FINISH		D-UA-LPS11-0-0		
		SCALE	NUMBER	REV.
		SHEET 3 OF 5	DCS M7018-0-1	D

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NOTE: ⊗ = PADS

1-0-8102 W 2



REV	
CHANGE NO	
CHK	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	ED KING	5-24-72		
UNLESS OTHERWISE SPECIFIED	CHW	7-5-72		
DIMENSION IN INCHES	ENG	9-6-72	TITLE	
TOLERANCES	PROJ. ENG.	9-6-72	A/D CONTROL	
DECIMALS FRACTIONS ANGLES	PROD	9-7-72		
± .005 ± .164 ± 0°30'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	FIRST USED ON	D-3		
-H-	D-UA-LPS11-0-0	SIZE CODE	NUMBER	REV
FINISH	SCALE	D/CS	M7018-0-1	D
-H-	SHEET 4 OF 5	DIST.		

REV D NUMBER M7018-0-1

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1-0-8102LW SC 2

D

C

B

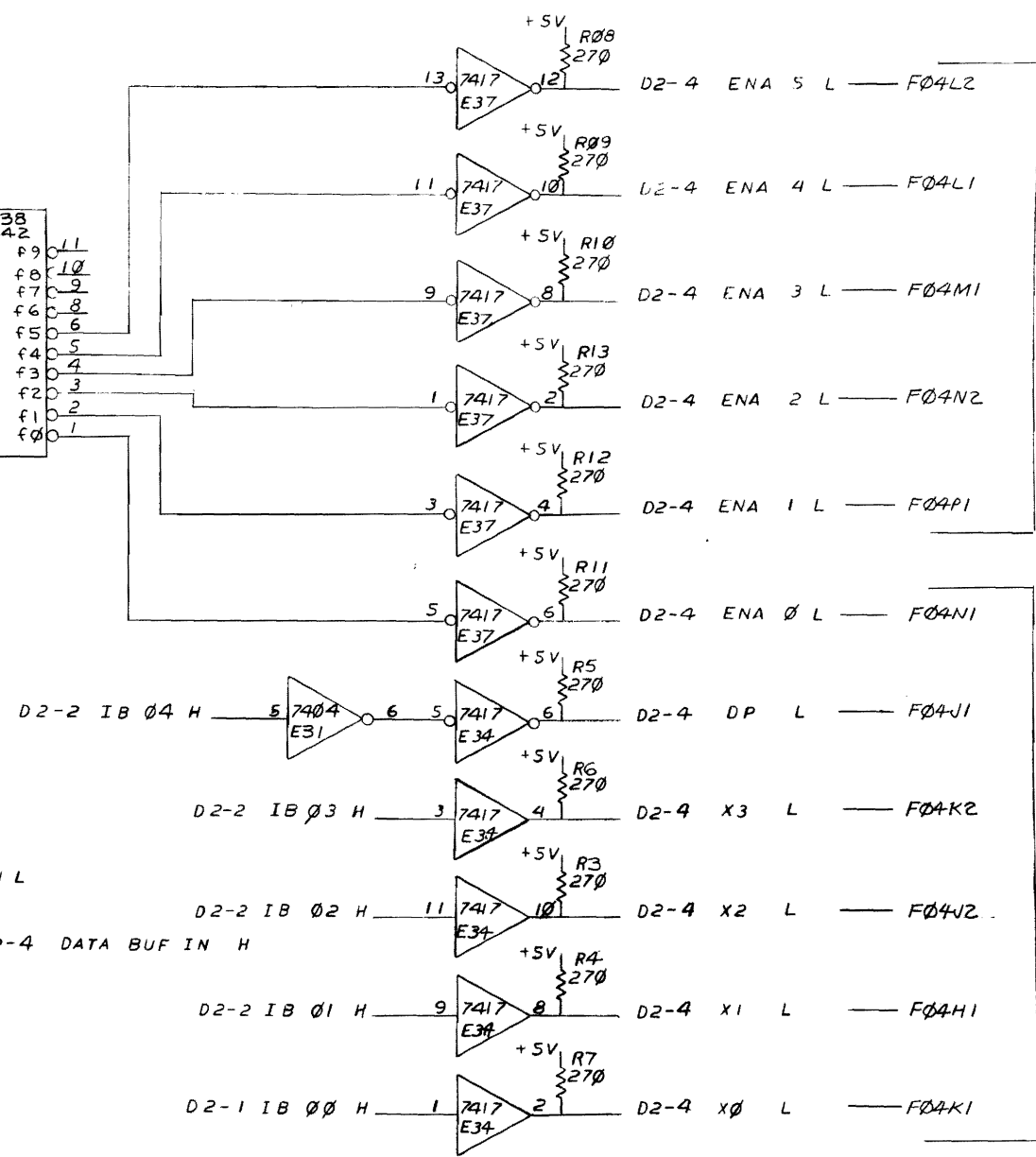
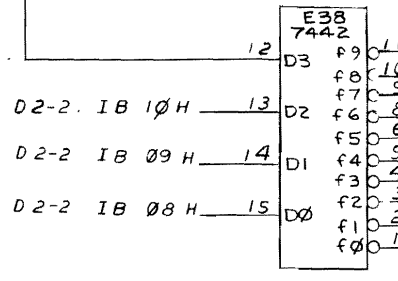
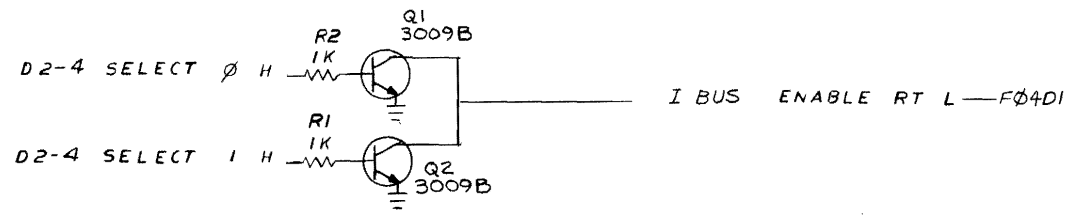
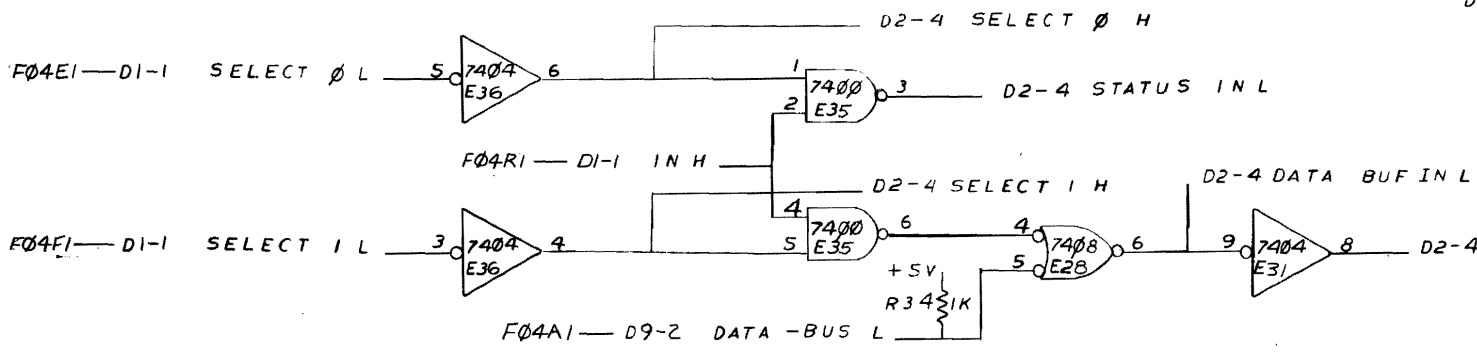
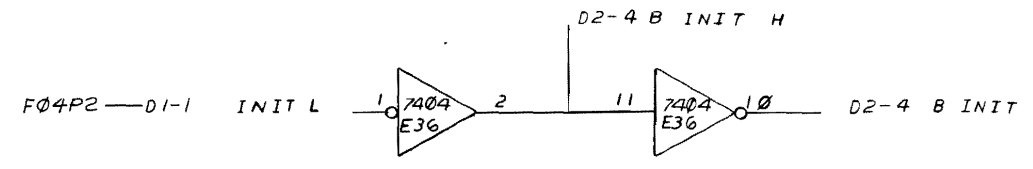
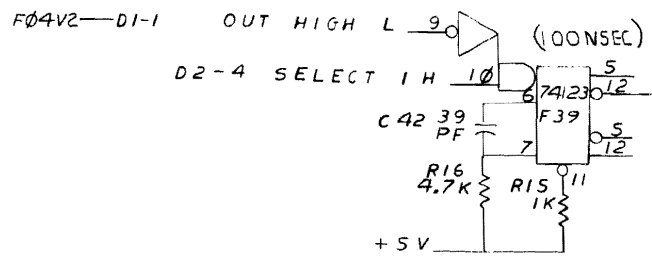
A

D

C

B

A



LED DIGIT SELECTION

LED CHARACTER SELECTION

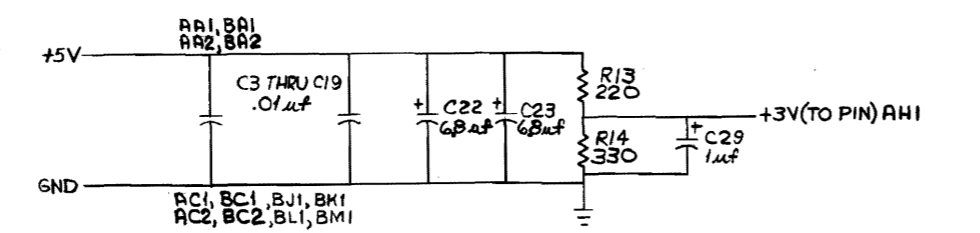
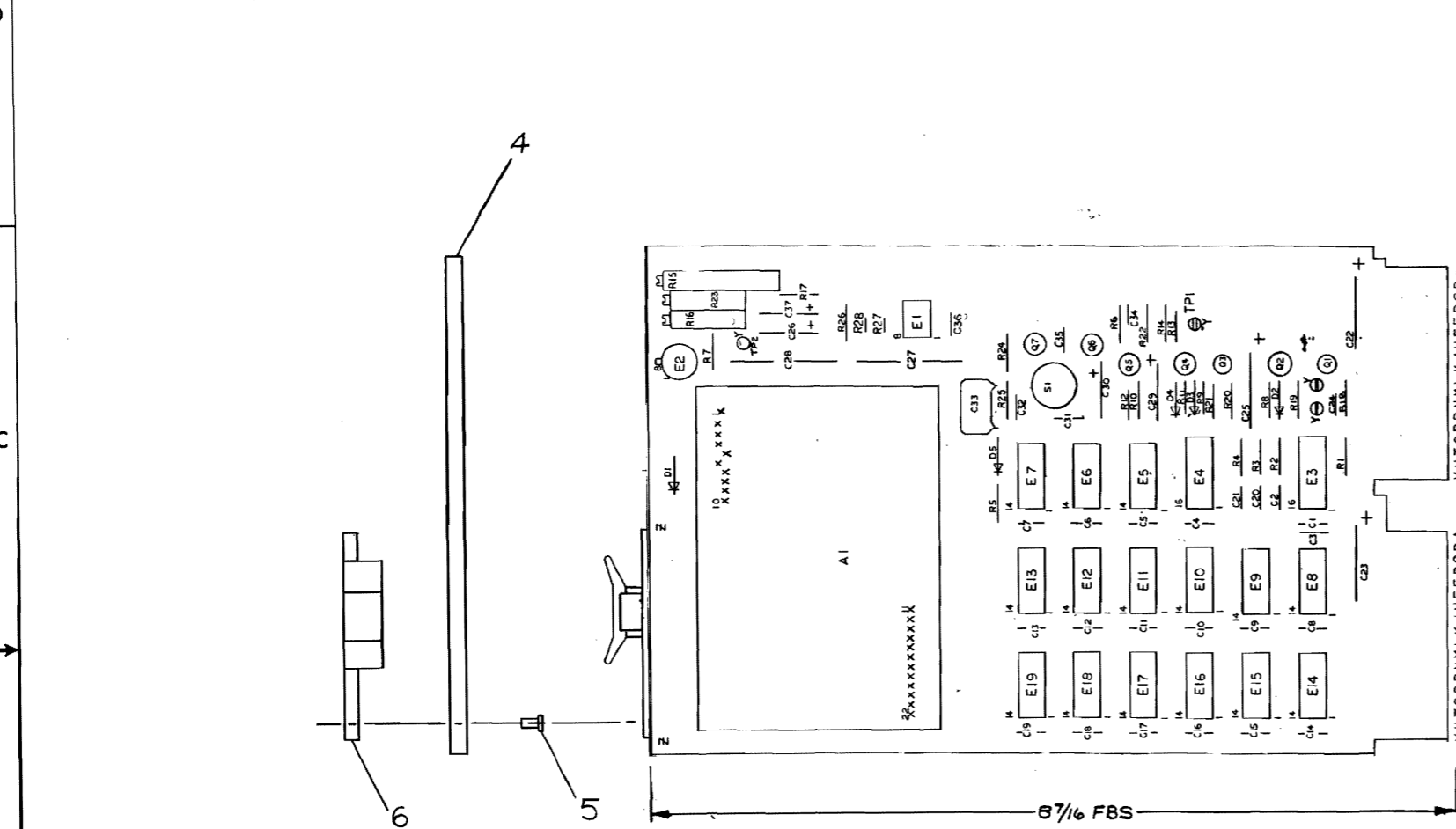
FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
LPS11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN ED KING	DATE 5-24-72	digital EQUIPMENT CORPORATION WAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE 7-5-72	TITLE	
DIMENSION IN INCHES	ENG	DATE 9-6-72	A/D CONTROL	
TOLERANCES	PROJ ENG	DATE 9-6-72	D2-4	
DECIMALS FRACTIONS ANGLES	PROJ	DATE 7/1/72	D-UA-LPS11-0-0	
= .005 = 1/64 = 0°30'	R Dams		SIZE CODE	NUMBER
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS			DCS	M7018-0-1
MATERIAL			SCALE	REV
-H-				D
FINISH			SHEET 5 OF 5	
			DIST.	

REV D  
 M7018-0-1  
 D

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**NOTES:**

8  
7  
6  
5  
4  
3  
2  
1



DEC 74123	B	16
IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.		
IC PIN LOCATIONS		

DEC FORM NO. DRD-135A

REF	DESCRIPTION	PART NO.	ITEM NO.
REF	MODULE ECO HISTORY	B-MH-AB04-B-6	1
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-AB04-B-5	2
REF	X-Y COORDINATE HOLE LOCATION	K-CO-AB04-B-4	3
1	ETCHED CIRCUIT BOARD	5010194	4
2	EYELET	9006732	5
1	HANDLE, FLIP CHIP (AMBER)	9008337-0	6
1	R23 POT 50K 1/4W 10% (76PR)	1309143-13	7
1	R16 POT 2K 1/4W 10% (76PR)	1309143-08	8
1	R15 POT 200 1/4W 20% (76PR)	1309408	9
1	R14 RESISTOR 330 1/4W 5%	1300295	10
1	R13 RESISTOR 220 1/4W 5%	1300271	11
2	R7, R8 RESISTOR 3K 1/4W 5%	1300432	12
1	R9 RESISTOR 1.5K 1/4W 5%	1300391	13
2	R5, R11 RESISTOR 1K 1/4W 5%	1300365	14
2	R10, R12 RESISTOR 750 1/4W 5%	1301401	15
1	R20 RESISTOR 2K 1/8W 1% MF	1302715	16
1	R17 RESISTOR 3.16 1/8W 1% MF	1303045	17
1	R8 RESISTOR 22K 1/4W 5%	1301808	18
1	R19 RESISTOR 64K 1/8W 0.1% MF	1305515	19
1	R1 RESISTOR 10K 1/4W 5%	1302465	20
2	R22, R18 RESISTOR 4K 1/8W 1% MF	1305127	21
3	R2, R3, R4 RESISTOR 5.11K 1/8W 1% MF	1304854	22
1	E2 IC LM211	1911290	23
2	E3, E4 IC DEC 74123	1910436	24
1	E6 IC DEC 7404	1909888	25
3	E9, E11, E13 IC DEC 7495	1909055	26
1	E7 IC DEC 7401	1905580	27
3	E8, E10, E12 IC DEC 7400	1905575	28
7	E5, E4, E15, E6, E17, E18, E19 IC DEC 7474	1905547	29
4	SPLIT LUG	9006735	30
1	Q5 TRANSISTOR DEC 2N4250	1509142	31
4	Q2, Q4, Q6, Q7 TRANSISTOR DEC 3009B	1503100	32
2	Q1, Q3 TRANSISTOR T18-50	1509013	33
1	S1 SWITCH, PC 2 POLE 5 POS	1209806	34
1	D3 DIODE, ZENER IN749A	1109977	35
4	D1, D2, D4, D5 DIODE D664	1100114	36
1	C33 CAP 2700PF 100V 5% DM	1001837	37
2	C27, C28 CAP 0.1UF 100V 10% MYLAR	1002342	38
1	C32 CAP 1000PF 100V 5% DM	1000042	39
1	C2 CAP 80PF 100V 5% DM	1000014	40
2	C22, C23 CAP 6.8UF 35V 10% TANT	1005306	41
1	C25 CAP 15UF 20V 10% TANT	1004812	42
4	C26, C29, C30, C37 CAP 1UF 35V 10% TANT	1001776	43
19	C1, C3 THRU C19, C31 CAP .01UF 100V 20% DISC	1001610-01	44
1	C24 CAP 180PF 100V 5% DM	1000020	45
1	C21 CAP 4.7PF 100V 5% DM	1000011	46
2	C20, C34 CAP 10PF 100V 5% DM	1000006	47
1	A1 DAC 12 BITS	A8000	48
2	C35, C36 CAP, 100PF 100V 5% DM	1000016	49
1	E1 IC LM201A	1911143	50
1	R24 RES. 5.6K 1/4W 5%	1301874	51
1	R21 RES. 1.1K 1/4W 5%	1301475	52
1	R25 RES. 68 1/4W 5%	1300219	53
1	R28 RES. 1K .3W .01% MF	1305509	54
1	R27 RES. 5K .3W .01% MF	1309985-07	55
1	R26 RES. 820 1/4W 5%	1301775	56

FIRST USED ON OPTION MODEL  
LPS

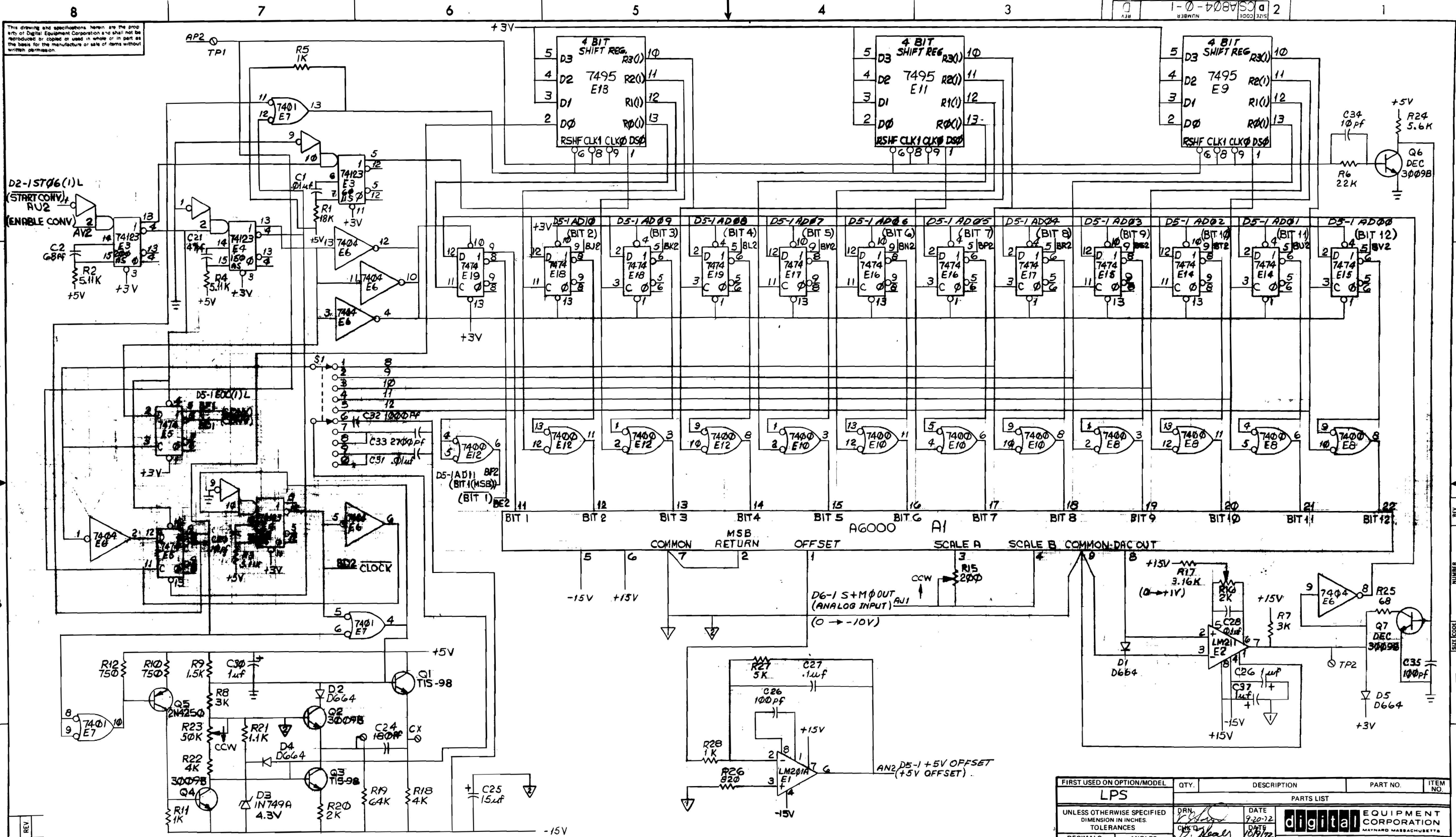
PARTS LIST  
ETCH BOARD REV D

DRN	DATE		TITLE <b>12 BIT A/D CONVERTER</b> D5-0
CHK'D	DATE		
ENG	DATE		
PROJ. ENG	DATE		
PROD. DATE	DATE		
NEXT HIGHER ASSY		SIZE CODE	NUMBER
SCALE		DICS A804-0-1	REV. D
SHEET 1 OF 2		DIST.	

SEMICONDUCTOR CONVERSION CHART

DEC NO.	EIA NO.	DEC NO.	EIA NO.
D664	IN3606		

DEC FORM NO. DRD-135A



NOTE: CLOCK TIMES CAN BE LENGTHENED BY ADDING A CAP. ACROSS CX SPLIT LUGS.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN. <i>[Signature]</i>	DATE 9-20-72	<b>digital</b> EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
DECIMALS .XXX - .005	ANGLES ±0° 30'	CHK. <i>[Signature]</i>	DATE 9/27/72	
.XX - .02		ING. <i>[Signature]</i>	DATE 11/17/73	
X - 1		PROVING <i>[Signature]</i>	DATE 11/17/73	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD. <i>[Signature]</i>	DATE 1/17/73	
MATERIAL		NEXT HIGHER ASSY.		
FINISH		SCALE 2 OF 2	SHEET 2 OF 2	
		SIZE CODE DCS	NUMBER A804-0-1	REV. D

### 12 BIT A/D CONVERTER

DS-1

BRUNING 4052X 15840  
 DEC ORM NO 102-B  
 REV. CHANGE NO.

SIZE (FOR NUMBER) DCS A804-0-1 REV. D

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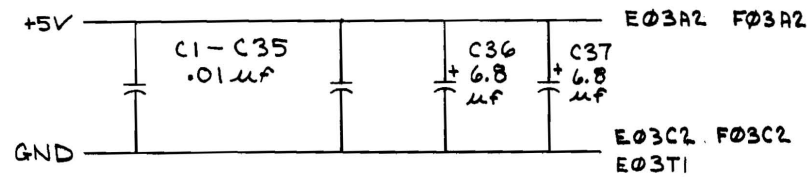
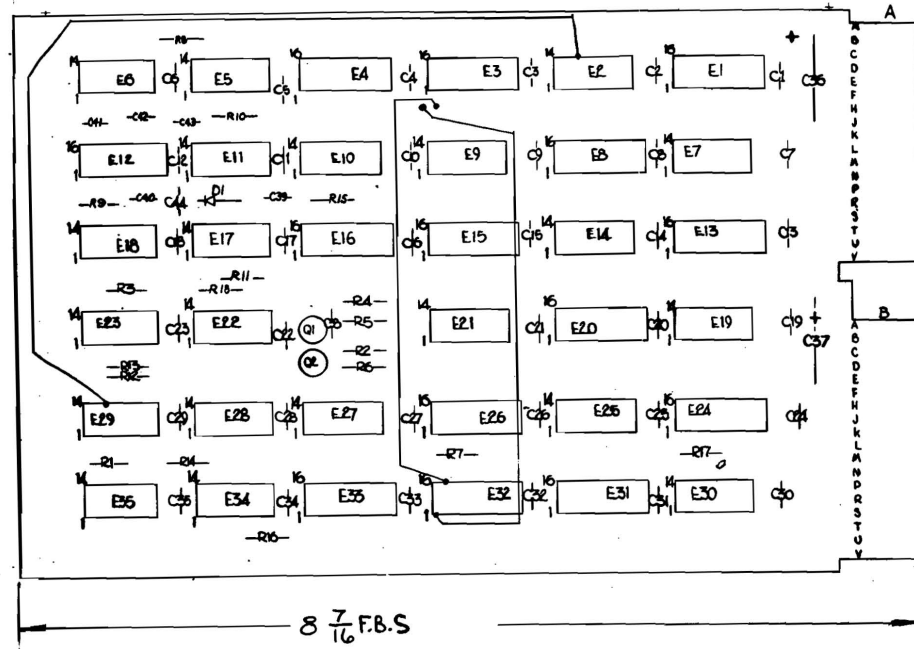
**NOTES:**

1. PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE OPTION. MODULE REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE FIRST LETTER, AND CONVERTING THE FIRST LETTER ACCORDING TO THE PIN NOTED ON EACH.

1-0-0202M7020-0-1

A/R		X-Y COORDINATE HOLE LOCATION	K-CO-M7020-B-4	1
A/R		ASSY/DRILLING HOLE LAYOUT	D-AH-M7020-B-5	2
A/R		MODULE ECO HISTORY	B-MH-M7020-B-6	3
1		ETCHED CIRCUIT BOARD	501089	4
1	C40	CAP 47 PF 5% 100V	1000011	5
2	C44, C39	CAP 330 PF 5% 100V	1000023	6
1	C38	CAP 560 PF 5% 100V	1000025	7
3	C41, C42, C43	CAP 1000 PF 5% 100V	1000042	8
2	C36, C37	CAP 6.8 UF 10% 35V	1005306	9
35	C1 THRU C35	CAP .01 UF 20% 100V	1001610-01	10
1	D1	DIODE D664	1100114	11
1	R11	RES 470 5% 1/4W	1300316	12
1	R18	RES 330 5% 1/4W	1300285	13
2	R3, R4	RES 390 5% 1/4W	1300309	14
10	R16, R17, R8, R12, R13, R14, R15, R6, R1, R7	RES 1K 5% 1/4W	1300365	15
1	R9	RES 4.7K 5% 1/4W	1300447	16
2	R5, R2	RES 180 5% 1/4W	1301322	17
1	R10	RES 20K 5% 1/4W	1302381	18
2	Q1, Q2	TRANSISTOR DEC 3009B	1503100	19
4	E5, E6, E29, E28	IC DEC 7474	1905547	20
1	E18	IC DEC 7402	1909004	21
1	E35	IC DEC 74H11	1909267	22
1	E23	IC DEC 304	1909486	23
7	E9, E2, E14, E25, E11, E21, E27	IC DEC 7404	1909686	24
7	E30, E19, E7, E17, E34, E22, E10	IC DEC 8881	1909705	25
4	E16, E8, E20, E31	IC DEC 8235	1909835	26
8	E13, E1, E4, E32, E24, E3, E15, E26	IC DEC 74193	1910018	27
1	E12	IC DEC 74123	1910436	28
1	E33	IC DEC 74155	1910656	29
4		EYELETS	9008732	30
2		HANDLE FLIP CHIP MAGENTA	9008337-06	31

**PIN NOMENCLATURE**  
MODULE MULTIPLEXER



DEC NO.	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
DEC 384	1	8			
DEC 8235	8	16			
DEC 74193	8	16			
DEC 74123	8	16			
DEC 74155	8	16			
IC TYPE	GND	+5V			
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.					
IC PIN LOCATIONS					

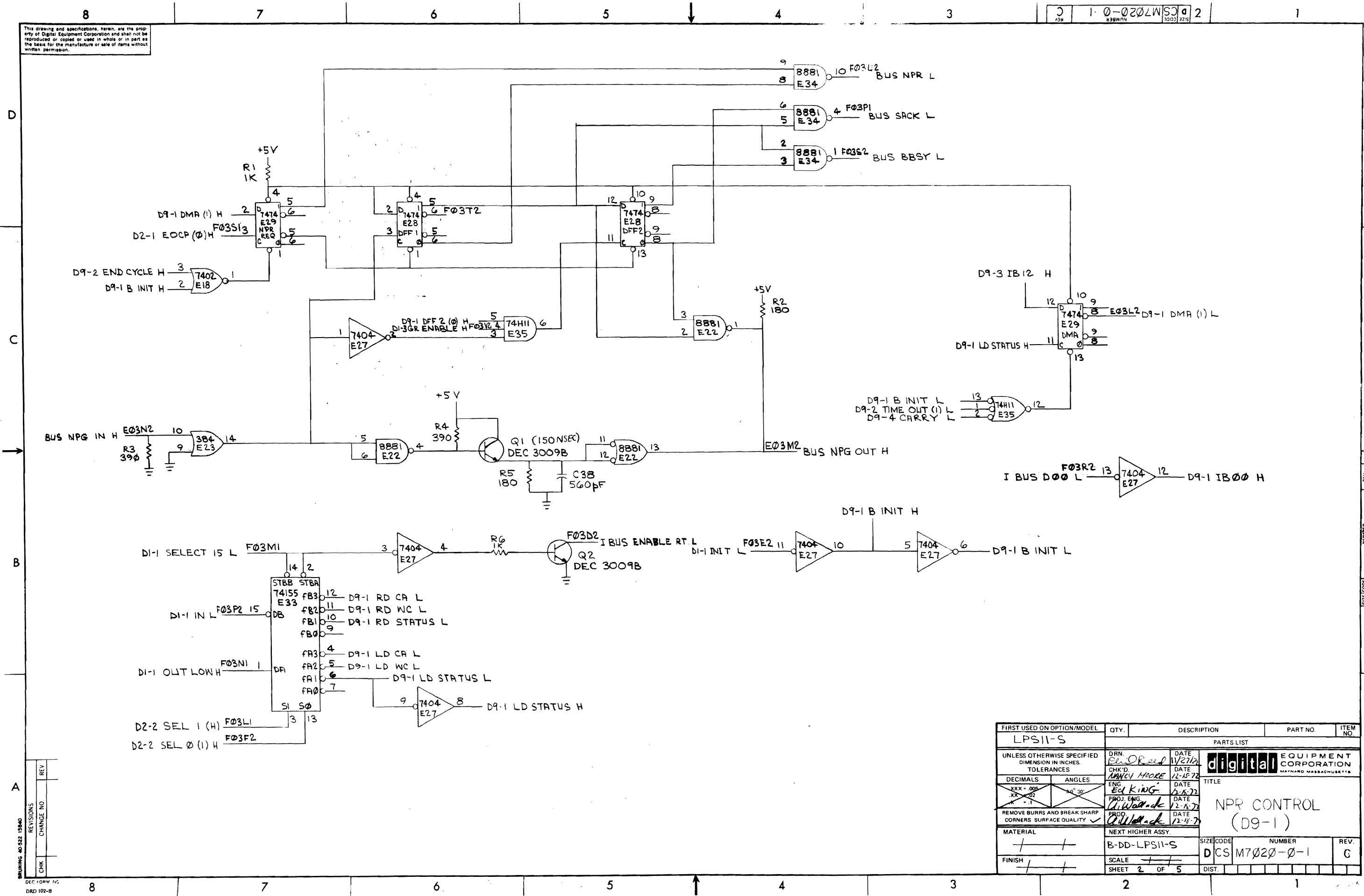
REV	CHANGE NO.	REV
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1

FIRST USED ON OPTION MODEL  
LPS11-S

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.															
PARTS LIST																			
	D664	IN3606																	
	3009B	2N3009B																	
<table border="1"> <tr> <td>DRN</td> <td>DATE</td> <td>12/1/72</td> </tr> <tr> <td>CHK'D</td> <td>DATE</td> <td>12/15/72</td> </tr> <tr> <td>ENG</td> <td>DATE</td> <td>12/18/72</td> </tr> <tr> <td>PROJ. ENG.</td> <td>DATE</td> <td>12/19/72</td> </tr> <tr> <td>PRD.</td> <td>DATE</td> <td>12/11/72</td> </tr> </table>					DRN	DATE	12/1/72	CHK'D	DATE	12/15/72	ENG	DATE	12/18/72	PROJ. ENG.	DATE	12/19/72	PRD.	DATE	12/11/72
DRN	DATE	12/1/72																	
CHK'D	DATE	12/15/72																	
ENG	DATE	12/18/72																	
PROJ. ENG.	DATE	12/19/72																	
PRD.	DATE	12/11/72																	
TITLE: <b>NPR CONTROL</b>																			
<table border="1"> <tr> <td>SIZE</td> <td>CODE</td> <td>NUMBER</td> <td>REV.</td> </tr> <tr> <td>DCS</td> <td>M7020-0-1</td> <td></td> <td>C</td> </tr> </table>					SIZE	CODE	NUMBER	REV.	DCS	M7020-0-1		C							
SIZE	CODE	NUMBER	REV.																
DCS	M7020-0-1		C																
SCALE: 1 OF 5																			
SEMICONDUCTOR CONVERSION CHART																			

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REV 1 0-020LWSJ 2



REV	CHANGE NO

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.															
LPS11-S																			
PARTS LIST																			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES.		<table border="1"> <tr> <td>DRN.</td> <td>DATE</td> <td rowspan="4" style="text-align: center; vertical-align: middle;"><b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS</td> </tr> <tr> <td>CHK'D.</td> <td>DATE</td> </tr> <tr> <td>ENG.</td> <td>DATE</td> </tr> <tr> <td>PROJ. ENG.</td> <td>DATE</td> </tr> </table>			DRN.	DATE	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	CHK'D.	DATE	ENG.	DATE	PROJ. ENG.	DATE						
DRN.	DATE	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS																	
CHK'D.	DATE																		
ENG.	DATE																		
PROJ. ENG.	DATE																		
DECIMALS	ANGLES	TITLE																	
XXX - .005	90° 30'	NPR CONTROL (D9-1)																	
XX - .02																			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		<table border="1"> <tr> <td>MATERIAL</td> <td>NEXT HIGHER ASSY.</td> <td>SIZE CODE</td> <td>NUMBER</td> <td>REV.</td> </tr> <tr> <td>+</td> <td>B-DD-LPS11-S</td> <td>DCS</td> <td>M7020-0-1</td> <td>G</td> </tr> <tr> <td>FINISH</td> <td>SCALE</td> <td colspan="3">SHEET 2 OF 5</td> </tr> </table>			MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.	+	B-DD-LPS11-S	DCS	M7020-0-1	G	FINISH	SCALE	SHEET 2 OF 5		
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.															
+	B-DD-LPS11-S	DCS	M7020-0-1	G															
FINISH	SCALE	SHEET 2 OF 5																	

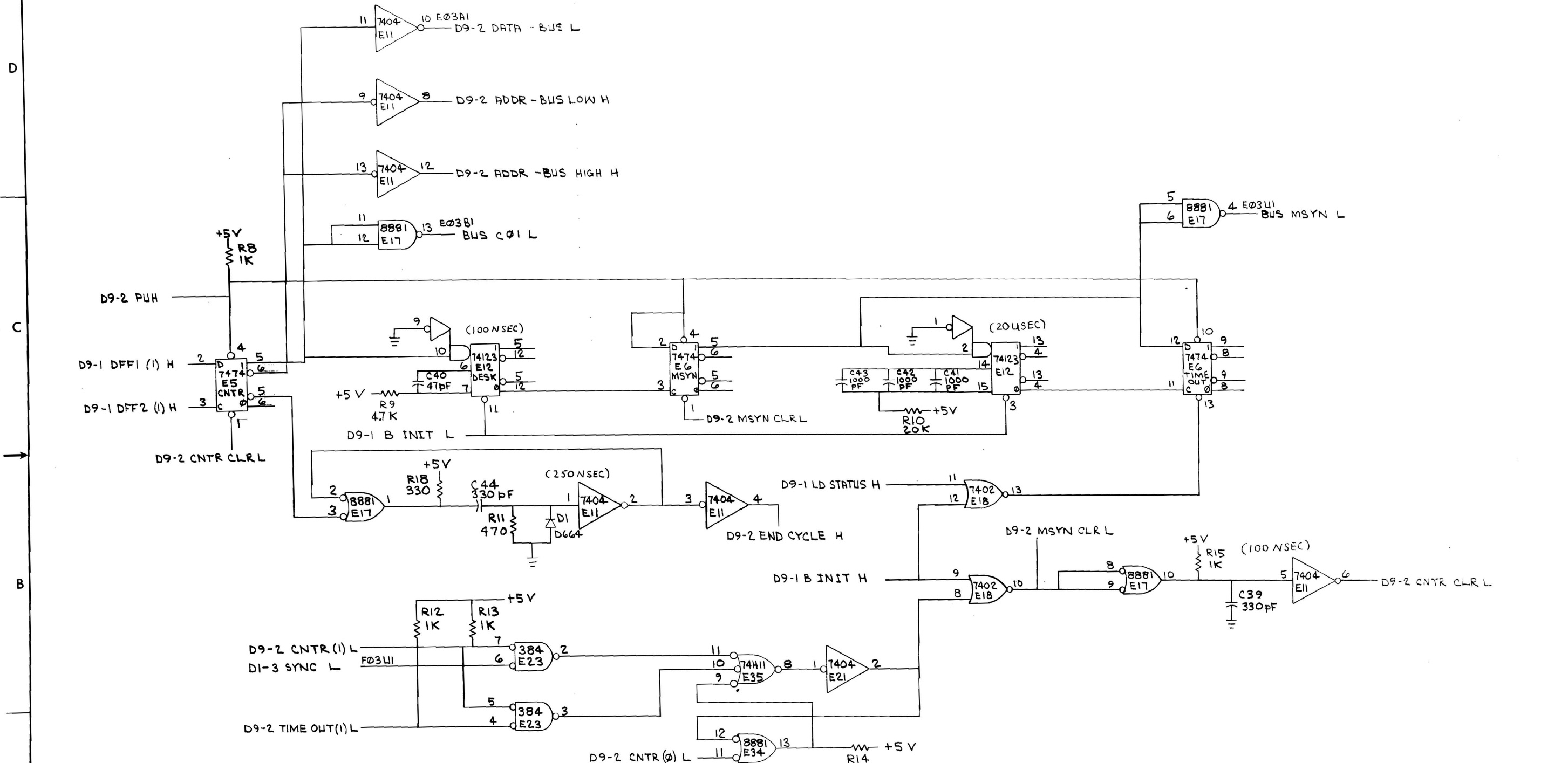
BRUNING 40-522 15840

DEC FORM NO DRD 102-B

REV C  
NUMBER  
DCS M7020-0-1

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1-0-0202W50 2



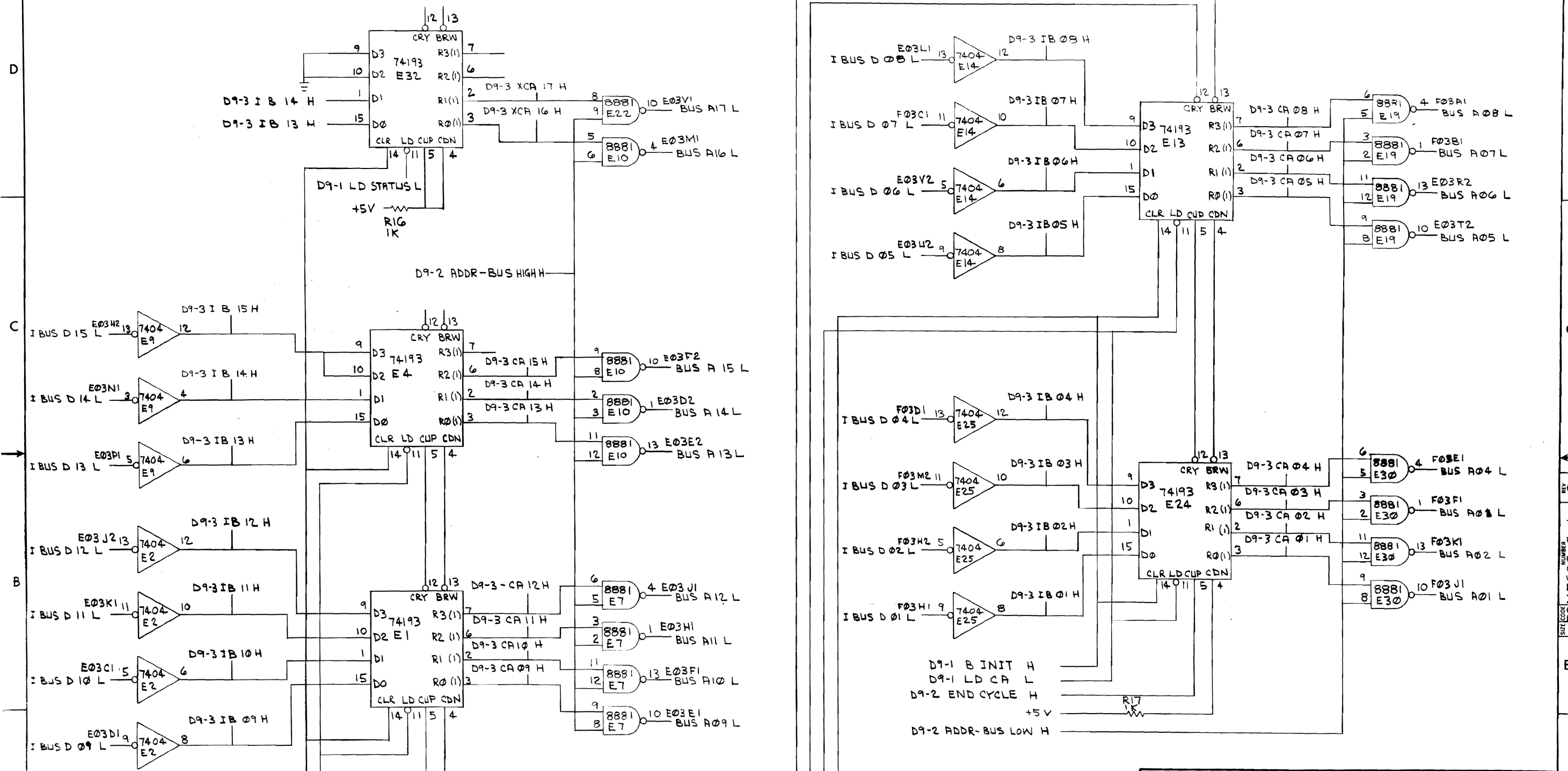
REV	CHANGE NO.

DEC FORM NO. DRD 102-B

FIRST USED ON OPTION/MODEL LPS11-S	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	DRN <i>Paul King</i>	DATE 11/28/72	 DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
XXX - .005	± 0° 30'	CHK'D MAJORY MOORE	DATE 12-15-72	
XX - .02		ENG. ED KING	DATE 12-18-72	
X - .1		PROJ. ENG. <i>Chas. A. King</i>	DATE 12-15-72	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROD. <i>Chas. A. King</i>	DATE 2-1-73	TITLE NPR CONTROL (D9-2)
MATERIAL ++	NEXT HIGHER ASSY.	B-DD-LPS11-S	SIZE CODE DCS	NUMBER M7420-0-1
FINISH ++		SCALE ++	SHEET 3	REV C

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1-0-02021WCS 2

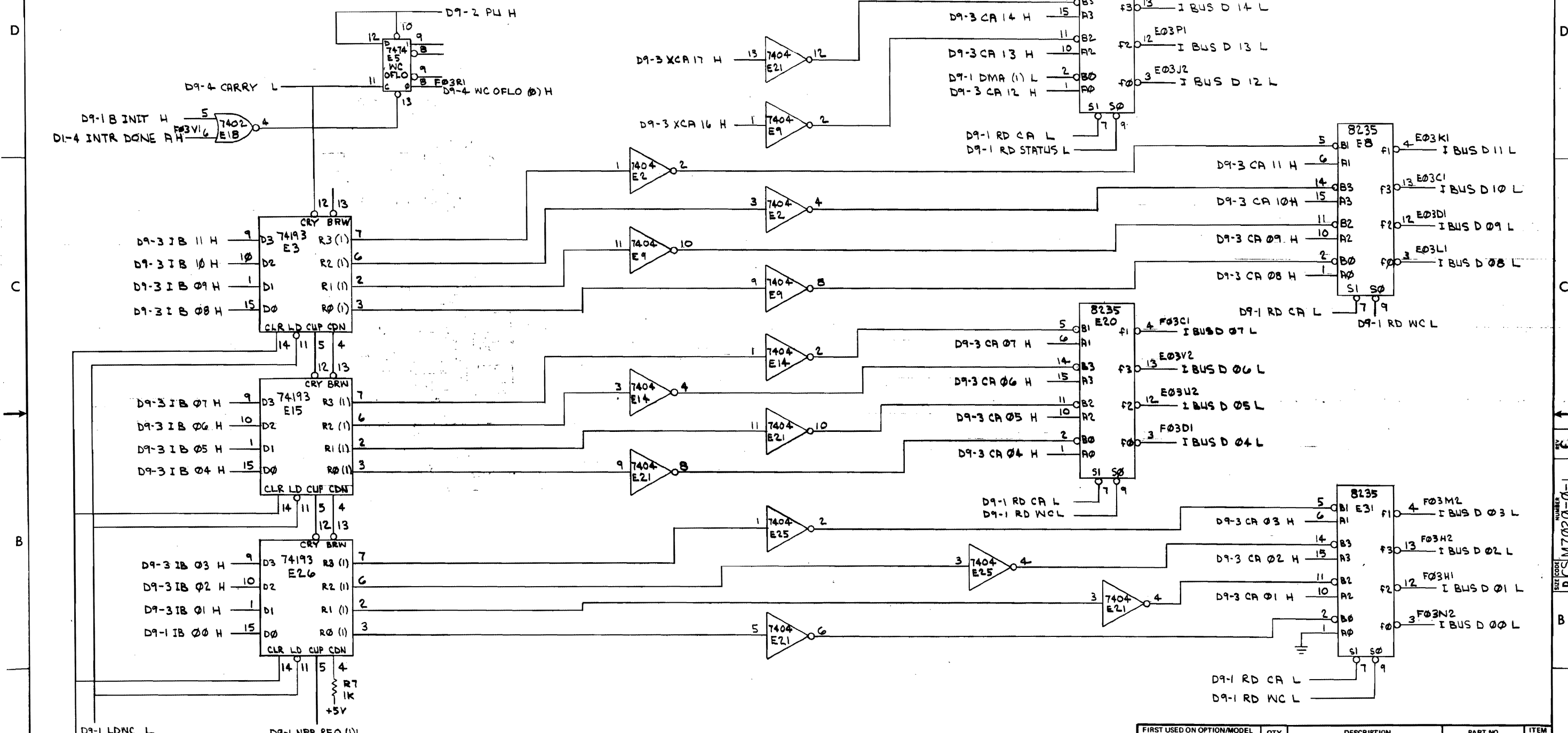


FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11-S				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. <i>R. O. Reed</i>	DATE 12/7/72	 <b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	CHK'D. <i>NANCY MOORE</i>	DATE 12/13/72		
ANGLES	ENG. <i>E. O. KING</i>	DATE 12-14-72		
XXX - .005	PROJ. ENG. <i>G. J. WALKER</i>	DATE 12-18-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. <i>G. J. WALKER</i>	DATE 12-18-72	TITLE <b>NPR CONTROL (D9-3)</b>	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
FINISH	B-DD-LPS11-S	D	CS M7020-0-1	C
	SCALE			
	SHEET 4 OF 5	DIST.		

REVISIONS  
 CHANGE NO.  
 DATE

REV. C  
 NUMBER  
 CS M7020-0-1

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REV	CHG	NO

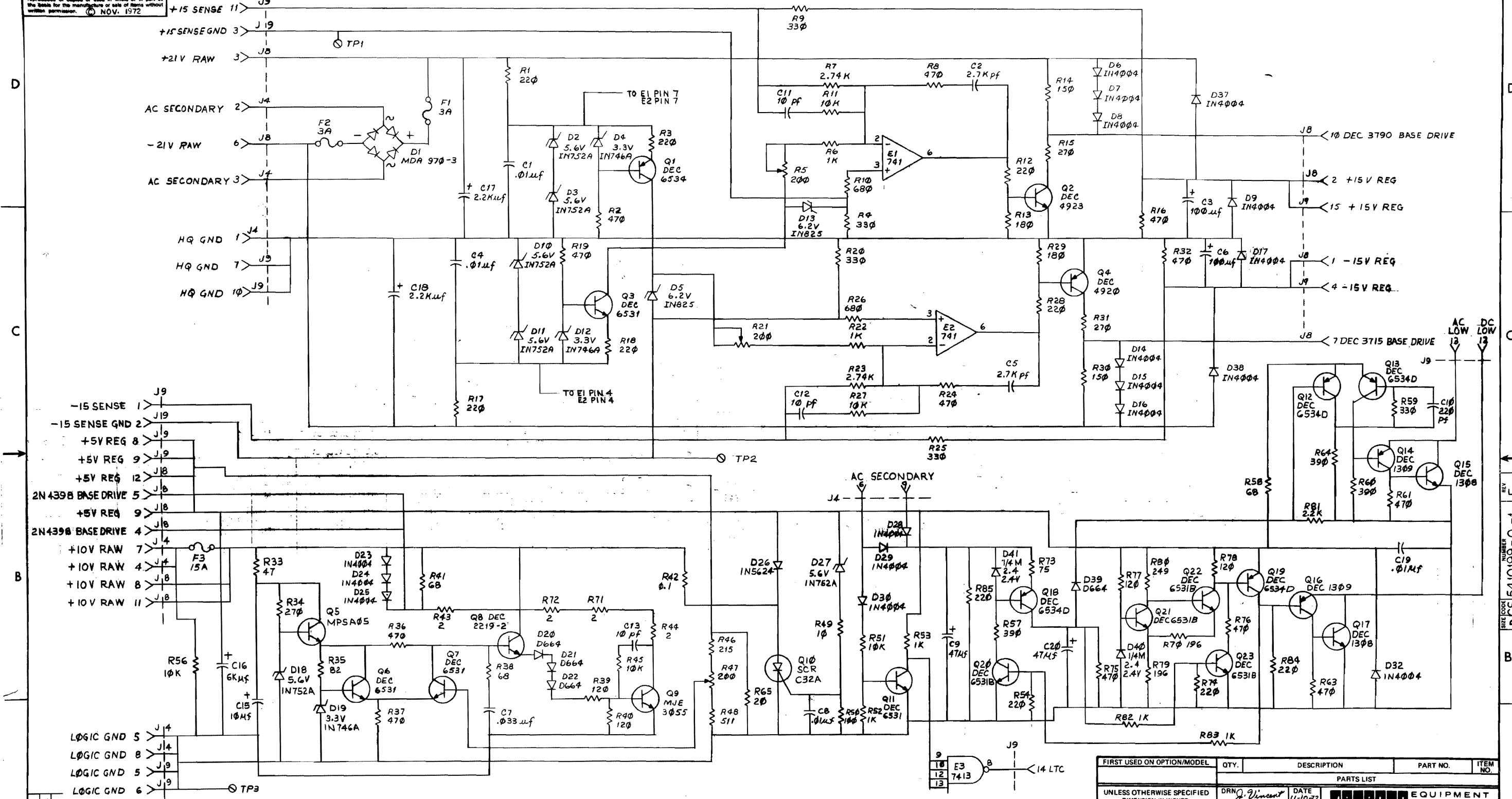
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11-S				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	PRN. <i>Ed King</i>	DATE 12/1/72	<b>digital</b> CORPORATION NATHAN MASSACHUSETTS	
DECIMALS	CHK'D. <i>MINY MOORE</i>	DATE 12-15-72		
ANGLES	ENG. <i>ED KING</i>	DATE 12/1/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ. ENG. <i>D. W. ...</i>	DATE 12/1/72		
	PROD. <i>D. W. ...</i>	DATE 12/1/72		
MATERIAL	NEXT HIGHER ASSY.	TITLE <b>NPR CONTROL (D9-4)</b>		
FINISH	B-DD-LPS11-S			
	SCALE			
	SHEET 5 OF 5	SIZE CODE	NUMBER	REV.
		DCS M7020-0-1		C
		DIST.		







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REV	REVISIONS

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	TITLE		
.XXX - .005	±0° 30'	REGULATOR BOARD LPS POWER SUPPLY		
.XX - .02				
X - .1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL		NEXT HIGHER ASSY.		
FINISH		SCALE		
		SHEET 3 OF 3		
		DIST.		

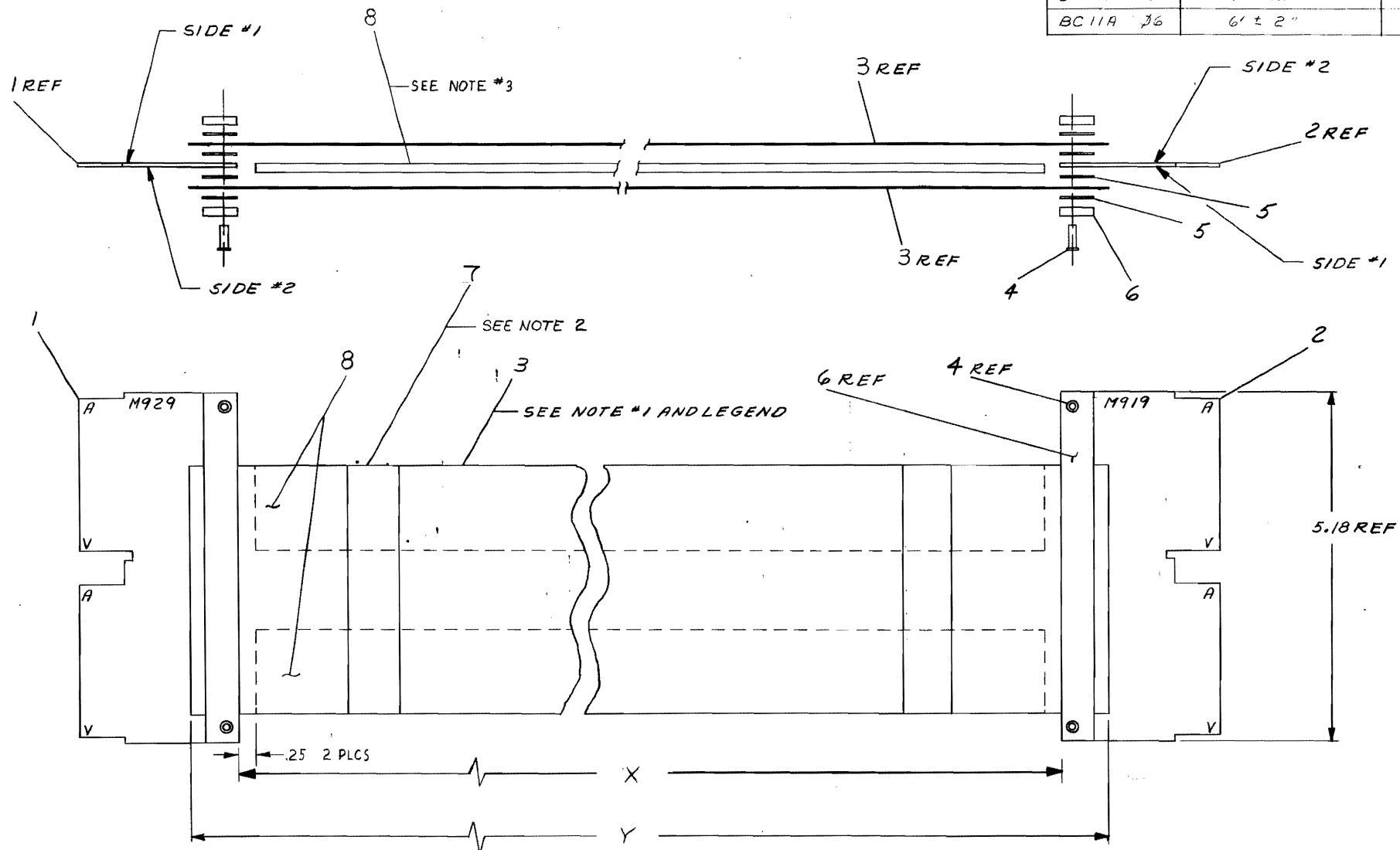
REV. 0-1 F  
NUMBER 5410199-0-1  
SIZE 10x14

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LEGEND		
NUMBER	DIM "X" VARIATION	DIM "Y" (PRECUT) REF
BC11A - 02	2' ± .05"	2'1.5"
BC11A - 03	3' ± 1"	3'1.5"
BC11A - 04	4' ± 1"	4'1.5"
BC11A - 05	5' ± 1"	5'1.5"
BC11A - 0F	8.6" ± 2"	8'7.5"
BC11A - 10	10' ± 2"	10'1.5"
BC11A - 15	15' ± 3"	15'1.5"
BC11A - 25	25' ± 3"	25'1.5"
BC11A - 3F	6" ± .05"	7.5"
BC11A - 36	6' ± 2"	6'1.5"

**NOTES:**

- VARIATIONS AND LENGTHS SHOWN IN LEGEND ARE STANDARD. OTHER THAN STANDARD VARIATIONS WILL BE SPECIFIED BY ALPHANUMERIC DESIGNATION. FOR LENGTHS OTHER THAN FOOT INCREMENTS FROM ONE (1) FOOT THRU NINE (9) FEET, ELEVEN (11) INCHES.  
 A=1" G=7"  
 B=2" H=8"  
 C=3" J=9"  
 D=4" K=10"  
 E=5" L=11"  
 F=6"  
 EXAMPLE: BC11A - 3D = 3'4". LENGTHS WILL BE IN FOOT INCREMENTS FROM TEN (10) FEET ON, AND WILL BE SPECIFIED BY THE CORRESPONDING NUMERICAL DESIGNATION. EXAMPLE: BC11A - 11 = 11 FEET. THE TOLERANCE ON DIMENSION "X" WILL BE 2% OF THE FOOT INCREMENT.
- FLEXPRINTS TO BE BOUND TOGETHER BY WRAPPING WITH BLACK ELECTRICAL TAPE (ITEM 7) EVERY 18 INCHES.
- INSTALL 2 PIECES OF FOAM TAPE (ITEM 8) BETWEEN FLEX PRINT CABLES AS SHOWN.



REV	CHANGE NO.	REV
A	BC11A-0001	A
B	BC11A-0002	B
C	BC11A-0003	C
D	BC11A-0004	D
E	BC11A-0005	E

QTY.	DESCRIPTION	PART NO.	ITEM NO.
8	GRAY FOAM	9008881	8
7	BLK ELECTRICAL TAPE	9009260	7
6	CLAMP, CABLE	C-5C-120976400	6
5	TAPE #432 1/2W X 3 11/16LG	9007834	5
4	EYELET GS-1-11 STIMSON	9006750	4
3	CABLE "FLEXPRINT"	1700002-01	3
2	EXT. BUS CONN	A-PL-M919-0-0	2
1	BUS CONN	A-PL-M929-0-0	1

FIRST USED ON OPTION/MODEL  
PDP11

DO NOT SCALE DRAWING	UNLESS OTHERWISE SPECIFIED
TOLERANCES	DECIMALS FRACTIONS ANGLES
± .005 ± 1/64 ± 0°30'	
FINAL SURFACE QUALITY	REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL	
FINISH	

DATE	11/19/69	DATE	11/19/69
CHK'D	R. Buss	DATE	11/19/69
ENG.	C. Blau	DATE	11/19/69
PROJ. ENG.	C. Blau	DATE	11/19/69
DATE	11/19/69	DATE	11/19/69
NEXT HIGHER ASSY			
D-UA-11/20-0-0			
SCALE	1/1	SHEET	1 OF 1

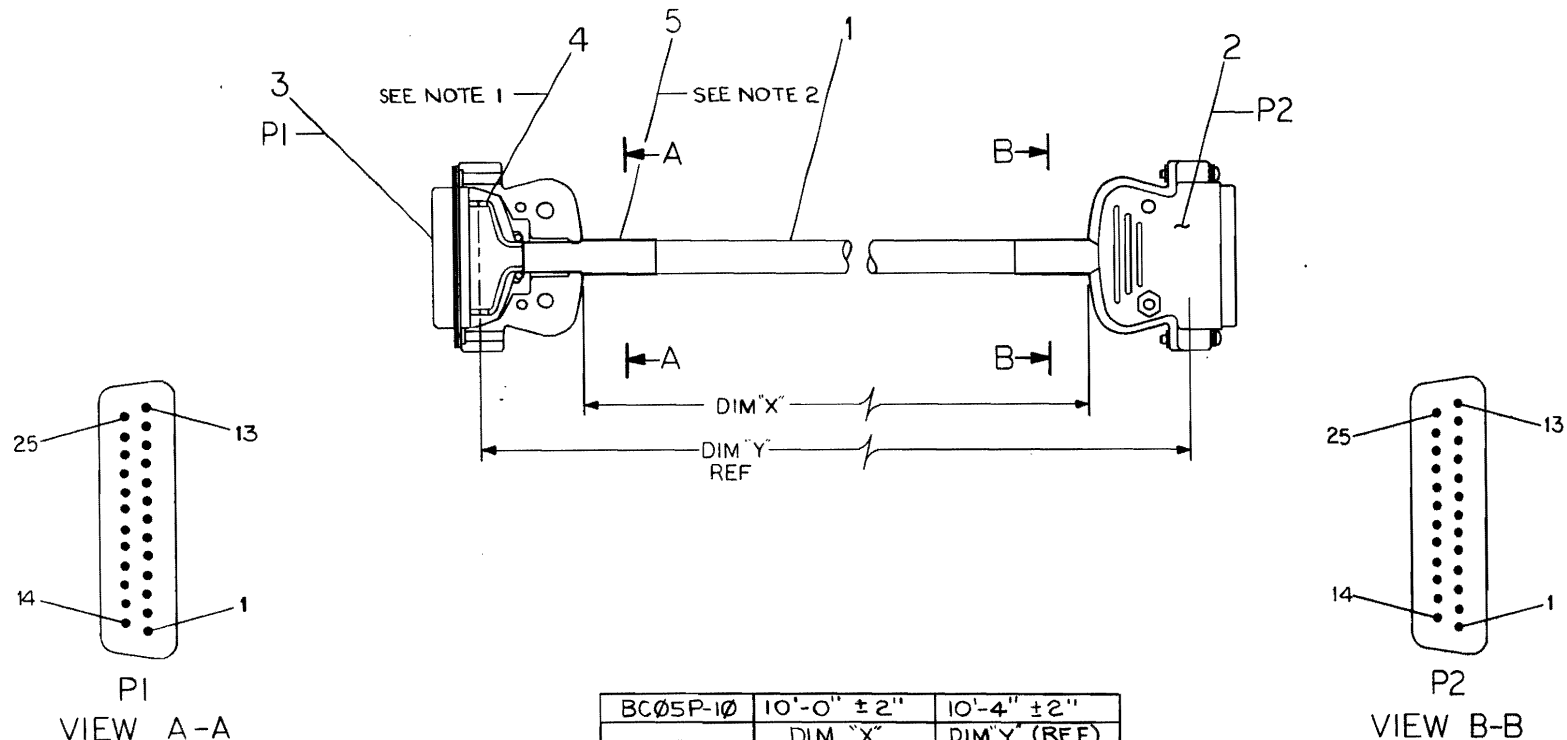
PARTS LIST		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TITLE			
CABLE ASSY (BC11A)			
SIZE CODE	NUMBER	REV.	
D-UA-11/20-0-0	BC11A-0-0	E	

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WIRE TABLE

ITEM NO.	DESCRIPTION		FROM		TO		REMARKS
	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH	
1	*22	YEL	P1-5	SOLDER	P2-7	SOLDER	ERASE RET L
	TWP	BLK	-1		P2-19	SOLDER	GND
	*22	BRN	-4		P2-8	SOLDER	WRT THRU
	TWP	BLK	-14				SEE NOTE 3
	*22	RED	-24		P2-1	SOLDER	X AXIS
	TWP	GRN	-25		P2-2	SOLDER	X GND
		COAX	-23				SEE NOTE 3
	*22	ORN	-21		P2-15	SOLDER	Y AXIS
	TWP	BLK	-22		P2-16	SOLDER	Y GND
		COAX	-20				SEE NOTE 3
	*22	RED	-12		P2-4	SOLDER	Z AXIS
	TWP	BLK	-9		P2-5	SOLDER	Z GND*
		COAX	-6				SEE NOTE 3
	*22TWP	GRN	-8		P2-6	SOLDER	NON STORE L
	*22TWP	BLU	-7		P2-18	SOLDER	ERASE L
1	*22TWP	RED	P1-16	SOLDER	P2-21	SOLDER	DEFLECT RET L

- NOTES:
- ITEM #4 (TUBING) TO BE APPLIED TO ALL CONNECTIONS.
  - OUTER SHIELD OF CABLE (ITEM#1) MUST BE CUT BACK TO CLEAR END OF HOOD (ITEM#2). APPLY SHRINK TUBING (ITEM#5) PRIOR TO SOLDERING CONNECTIONS.
  - WIRE TO BE CUT AS FAR AS POSSIBLE BELOW OUTER SHIELD OF CABLE AT OPPOSITE END OF CONNECTION.
  - THIS CABLE CONNECTS THE LPSVC TO ONE OF THE FOLLOWING TEKTRONIX SCOPES: 601, 603, 604, 611, AND 613.
  - ALL UNUSED WIRE LEADS TO BE CUT PER NOTE #3.



BC05P-10	10'-0" ± 2"	10'-4" ± 2"
NUMBER	DIM "X"	DIM "Y" (REF)
	VARIATION	
	LEGEND	

A/R	DESCRIPTION	PART NO.	QTY
A/R	TUBING, SHRINK	9007250-00	5
A/R	TUBING, TEFLON	9107295-11	4
2	PLUG, CINCH	1205886	3
2	HOOD, CINCH	1205885	2
A/R	CABLE	9107687	1

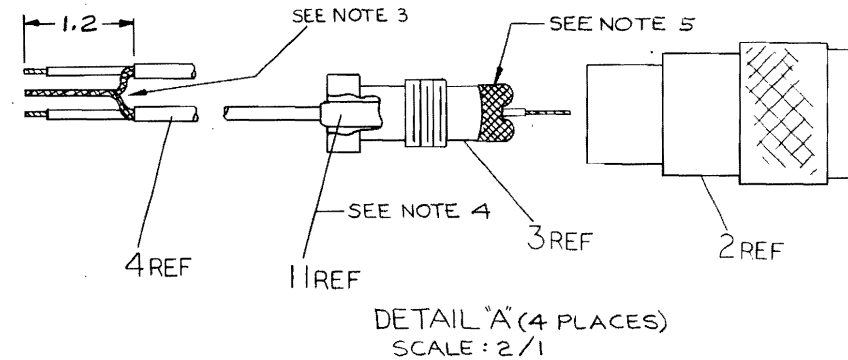
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11-S				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN. Carl McCoy 11-27-72	DATE	digital EQUIPMENT CORPORATION	
DECIMALS ANGLES	CHK'D. R. Cooke 12-6-72	DATE	MAYNARD MASSACHUSETTS	
.XXX - .005 ± 0° 30'	ENG. Russ Stronach 12-6-72	DATE	TITLE	
XX - .02	PROJ. ENG. OM - J. West 12-6-72	DATE	CABLE, LPSVC TO	
X - .1	PROD. R. Davis 12/17/72	DATE	TEK SCOPES	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			REV. A	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
SEE PARTS LIST	A-PL-LPS11-S-0	DUA	BC05P-0-0	A
FINISH	SCALE NONE	SHEET	DIST.	
		1 OF 1		

REV	REV
CHANGE NO.	REV
BC05P-00001	A
3003-04	2 26 72
E. KING	

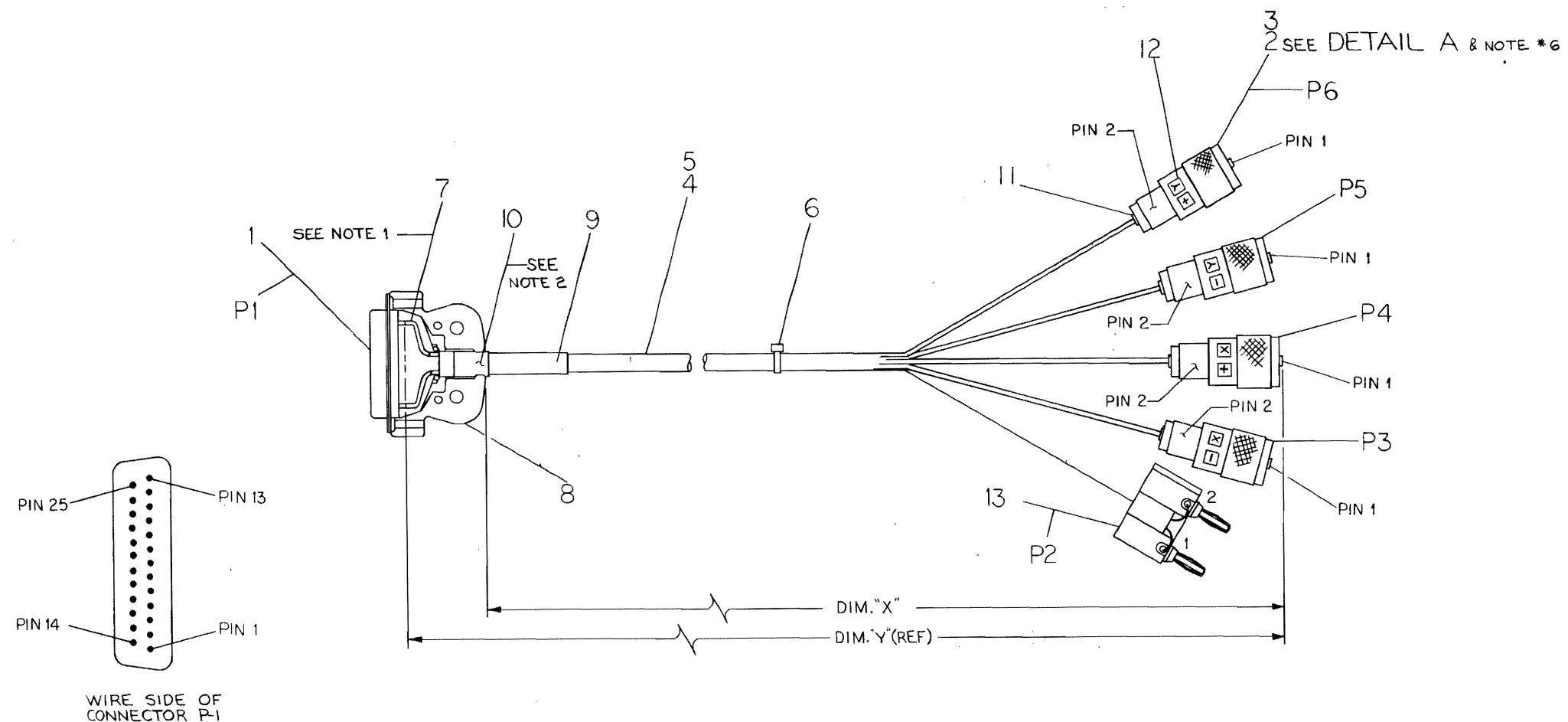
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WIRE TABLE

ITEM NO.	DESCRIPTION	FROM		TO		REMARKS
		CONNECTION	WITH	CONNECTION	WITH	
5	*22	BLK	P2-2	—	P1-6	SOLDER Z
	TWP	WHT	P2-1	—	P1-12	SOLDER Z
4	SHIELD	—	P5-2	NOTE 5	P1-20	SOLDER NOTE 3 GND
	SHIELD	—	P6-2	NOTE 5	P1-21	SOLDER +Y
	*22	CLEAR	P5-1	SOLDER	P1-22	SOLDER -Y
	SHIELD	—	P4-2	NOTE 5	P1-23	SOLDER GND
	SHIELD	—	P3-2	NOTE 5	P1-24	SOLDER +X
4	*22	CLEAR	P4-1	SOLDER	P1-25	SOLDER -X



- NOTES:
1. ALL SOLDERED CONNECTIONS, ON CONNECTOR PLANE AND ALL UNINSULATED WIRE LEADS MUST BE COVERED WITH CLEAR TUBING (ITEM #7).
  2. WRAP TAPE (ITEM #10) AROUND ITEM #9 TO INSURE STRAIN RELIEF AT THIS POINT.
  3. SHIELDING TO BE TWISTED CAREFULLY AND COMBINED TO FORM WIRE LEAD AS SHOWN.
  4. SHRINK RED TUBING OVER RED TUBING AT THIS POINT.
  5. LIFT SHIELDING AND FOLD OVER BODY OF CONNECTOR AS SHOWN.
  6. CENTER PIN OF ITEM #3 WILL BE PIN #1 AND BODY OF ITEM #3 WILL BE PIN #2.



BC05R-10	10FT. 0 IN. ± 2 IN.	10FT. 1 IN. ± 2 IN.
NUMBER	DIM. "X"	DIM. "Y" (PRECUT)
	VARIATION	
	LEGEND	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	JACK, BANANA	1201189	13
A/R	MARKER, BRADY		12
A/R	TUBING, SHRINK RED	9107305-02	11
A/R	TAPE, #4032 3M 1/2"W	9007834	10
A/R	TUBING, BLK	9007250-00	9
1	HOOD, CINCH	1205885	8
A/R	TUBING, CLEAR	9107295-11	7
A/R	TIE, CABLE NYLON 3/32"	9007031	6
A/R	WIRE, #22 TWP, STRD. TEF. BLK/WHT	9107420-09	5
A/R	CABLE, RG 174	1907530	4
4	CONN., INNER	1203522	3
4	HOUSING, CONN.	1201453	2
1	CONN., CINCH	1205886	1

FIRST USED ON OPTION/MODEL		LPS11-S	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES			
DECIMALS	ANGLES	DRN	DATE
.xxx - .005	± 0° 30'	CEM/Cy	12-26-72
.xx - .02		CHK'D	DATE
x - .1		W. E. Carbe	1-4-73
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ. ENG.	DATE	
	PROJ. ENG.	1-9-73	
	PROD.	DATE	
	PROD.	1/23/73	
MATERIAL	NEXT HIGHER ASSY.	TITLE	
SEE PARTS LIST	A-PL-LPSVC-0-0	CABLE, LPSVC TO TEK 503	
FINISH	SCALE NONE	SIZE CODE	NUMBER
	SHEET 1 OF 1	DUA	BC05R-0-0

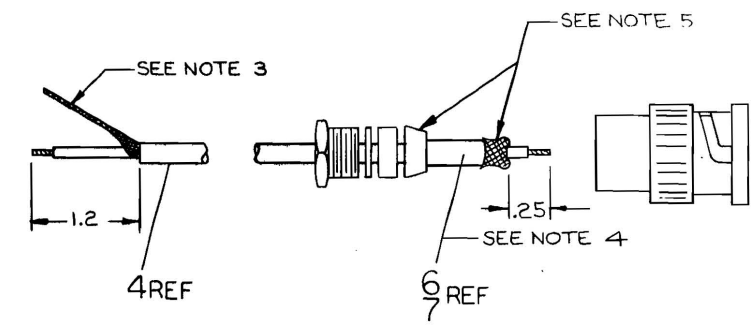
BRUNING 40-107 15868  
 DFC FORM NO DRI 109-A

REV. NUMBER  
 DUA BC05R-0-0

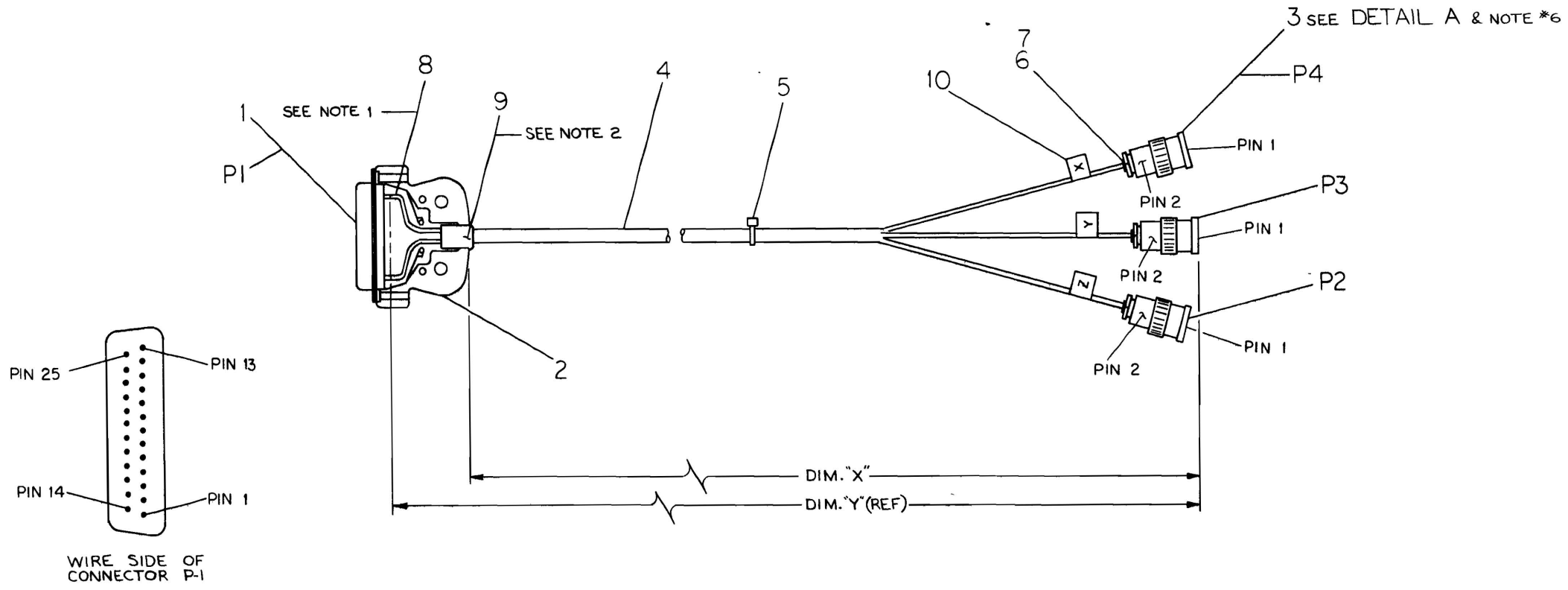
A

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WIRE TABLE						
ITEM NO.	DESCRIPTION	FROM		TO		REMARKS
		CONNECTION	WITH	CONNECTION	WITH	
4	SHIELD	P1-6	SOLDER	P2-2	-	SEE NOTE 3 & 6
	*22 CLEAR	-12		P2-1	-	Z
	*22 CLEAR	-21		P3-1	-	Y
	SHIELD	-22		P3-2	-	SEE NOTE 3 & 6
	*22 CLEAR	-24		P4-1	-	X
4	SHIELD	P1-25	SOLDER	P4-2	-	SEE NOTE 3 & 6



- NOTES:
1. ALL SOLDERED CONNECTIONS AND ALL UNINSULATED WIRE LEADS MUST BE COVERED WITH CLEAR TUBING (ITEM \*8).
  2. WRAP TAPE (ITEM \*9) AROUND CABLE APPROXIMATELY THREE TIMES TO INSURE STRAIN RELIEF AT THIS POINT.
  3. SHIELDING TO BE TWISTED CAREFULLY TO FORM WIRE LEAD AS SHOWN.
  4. SHRINK WHT. TUBING (ITEM \*6) OVER RED TUBING (ITEM \*7).
  5. FOLD BACK SHIELDING OVER INNER BNC SLEEVING.
  6. PIN IN CENTER OF ITEM \*3 WILL BE POINT \*1, AND BODY OF ITEM \*3 WILL BE POINT \*2.



BC055-10	10 FT. 0 IN ± 2 IN	10 FT. 11 IN ± 2 IN
NUMBER	DIM. "X"	DIM. "Y" (PRE CUT)
VARIATION		
LEGEND		

A/R	MARKER, BRADY		10
A/R	TAPE, #4032 3M 1/2" W	9007834	9
A/R	TUBING, CLEAR	9107295-11	8
A/R	TUBING, SHRINK RED	9107305-02	7
A/R	TUBING, SHRINK WHT	9107252-09	6
A/R	CABLE TIE, NYLON 3/32 W	9007031	5
A/R	CABLE, COAX RG174	9107530	4
3	CONN., BNC	1201455	3
1	HOOD, CINCH	1205885	2
1	CONN., CINCH	1205886	1

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11-S				

PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN <i>CBM</i>	DATE 12-29-72	
DECIMALS	CHKD <i>CBM</i>	DATE 1-9-73	
ANGLES	ENG. <i>Shuman</i>	DATE 1-9-73	
.XXX = .005	PROJ. ENG. <i>Shuman</i>	DATE 1-9-73	
.XX = .02	PROD. <i>Shuman</i>	DATE 1-23-73	
.X = .1	PROJ. <i>Shuman</i>	DATE 1-23-73	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ. <i>Shuman</i>	DATE 1-23-73	
MATERIAL	NEXT HIGHER ASSY.		
SEE PARTS LIST	A-PL-LPSVC-0-0	SIZE CODE	NUMBER
FINISH	SCALE NONE	DUA	BC055-0-0
SHEET 1 OF 1	DIST. 2		

REV.	CHANGE NO.	REVISIONS

**DIGITAL EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS  
**PARTS LIST**

MADE BY	C.B. MCCOY	CHECKED	<i>R. Davis</i>	SECTION
DATE	11-13-72	DATE	11-30-72	
ENG	<i>R. Davis</i>	PROD	<i>R. Davis</i>	ISSUED SECT.
DATE	11-30-72	DATE	12/1/72	

QUANTITY / VARIATION

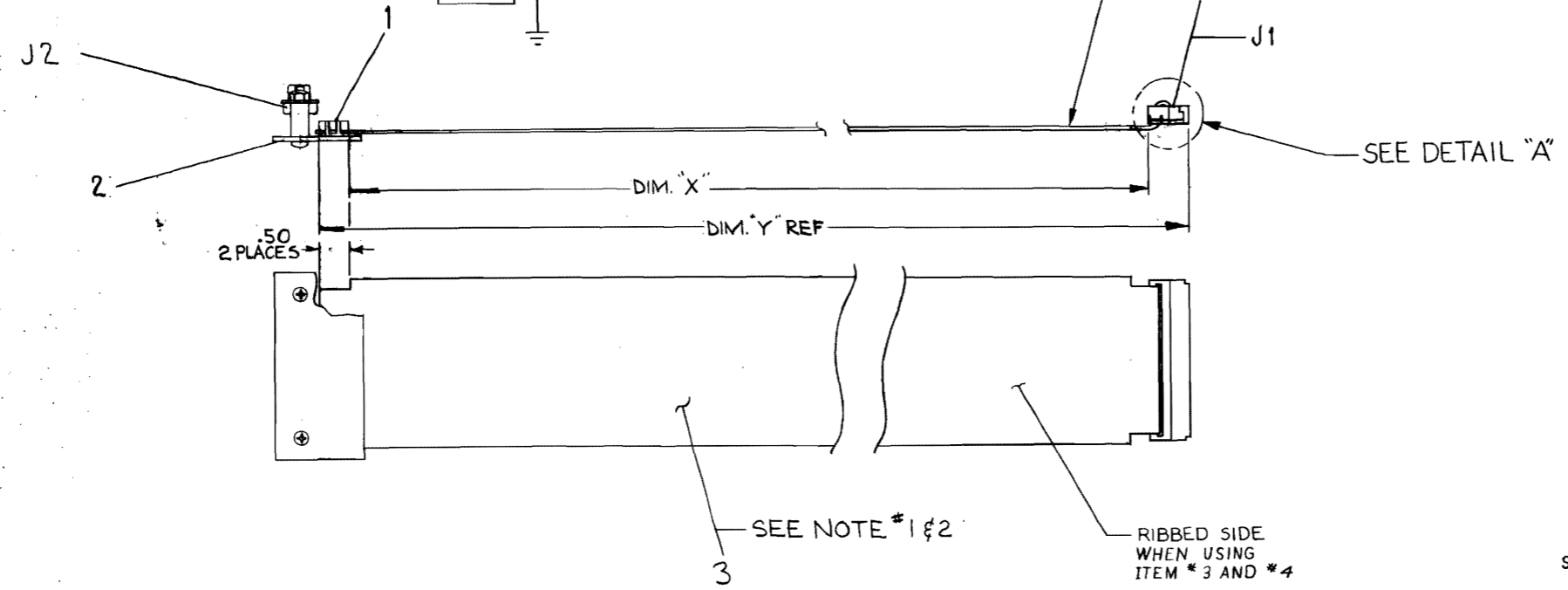
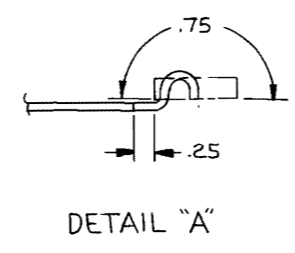
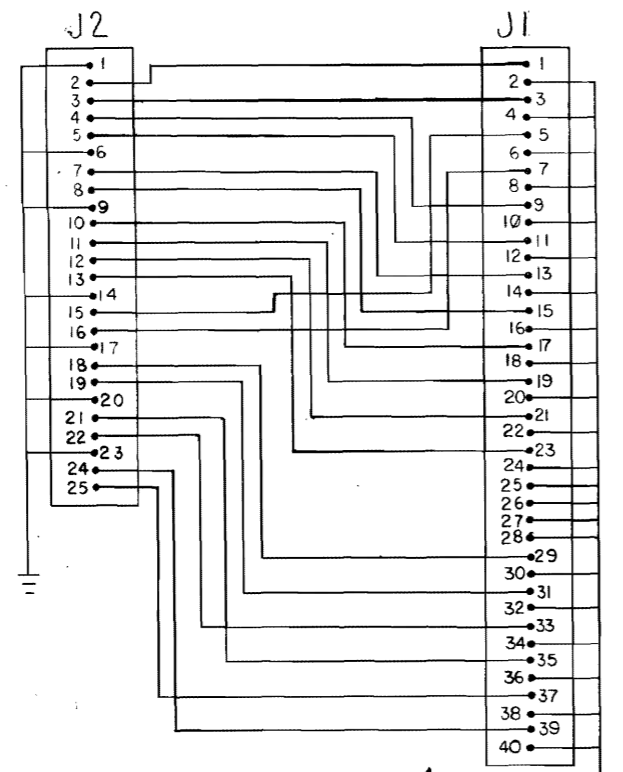
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION																	
			LPSAM	LPSAM-SG																
1	A407	8 CHAN. MULTIPLEXER	1																	
2	G728	JUMPER CARD	2	2																
3	1205886	CONN., PLUG #DB25-P	1	1																
4	1205885	HOOD, #DB51226-1	1	1																
5	7009086-0H	CABLE ASSY, PANEL MTG.	1	1																
6	1209818	EXTENDER MODULE	2	2																
	D-UA-LPS11-S-0	IAB PERIPHERAL SYSTEM (LPS11-S)	REF	REF																
	B-DD-LPS11-S	DRAWING DIRECTORY																		
7	1700021-00	ELECTROMAGNETIC SHIELD 7 1/2 X 15 3/16 X 1/8	1	1																
8	A408	8 CHAN. SWITCH GAIN MUX		1																

TITLE	LPSAM	ASSY NO.	—	SIZE	CODE	NUMBER	REV.	ECO NO.
		SHEET	1	OF	1	DIST.	B	LPS11S 00011

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LEGEND		
NUMBER	DIM "X"	DIM "Y"
7009086-0H	6.0 IN.	7.0 IN.
7009086-0J	7.0 IN.	8.0 IN.
7009086-0M	10.0 IN.	11.0 IN.
7009086-0I	11.0 IN.	12.0 IN.

NOTES:  
 1. ITEM #3 TO BE CUT PER LEGEND.  
 2. ITEM #5 CAN BE USED AS A DIRECT SUBSTITUTE PART TO REPLACE ITEMS #4 AND #3 WHEN CUT PER LEGEND.



SEE NOTE 2

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	I/O CABLE	7007036-01	5
1	CONN. 40 COND 3417-3 3M	1211206	4
1	CABLE 3 M	1700004	3
1	40-25 PIN ADAPTER BD	541016B	2
1	CONN 40 TERM 3418-40-0000	1210073	1

FIRST USED ON OPTION/MODEL		PARTS LIST	
LPS11-S		digital EQUIPMENT CORPORATION MILFORD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN. <i>David Reed</i> DATE 10/11/72 CHK'D. <i>W. C. ...</i> DATE 10-13-72 BMD. <i>...</i> DATE 10-13-72 PROJ. ENG. <i>...</i> DATE 10-13-72 PRD. <i>...</i> DATE 10-13-72	TITLE PANEL MTG. CABLE ASS'Y	
DECIMALS .XXX = .005 .XX = .02 .X = .1	ANGLES ±0° 30'	MATERIAL SEE PARTS LIST	NEXT HIGHER ASSY.
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	FINISH ++	SCALE 1/1	SHEET OF
MATERIAL		SIZE CODE	NUMBER
SEE PARTS LIST		DIA	7009086-0-0
FINISH ++		REV.	A

REV.	CHANGE NO.	CHK.	DATE
A	0001	P. King	2-27-73

REVISIONS  
 E. KING  
 P. King









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### WIRE TABLE

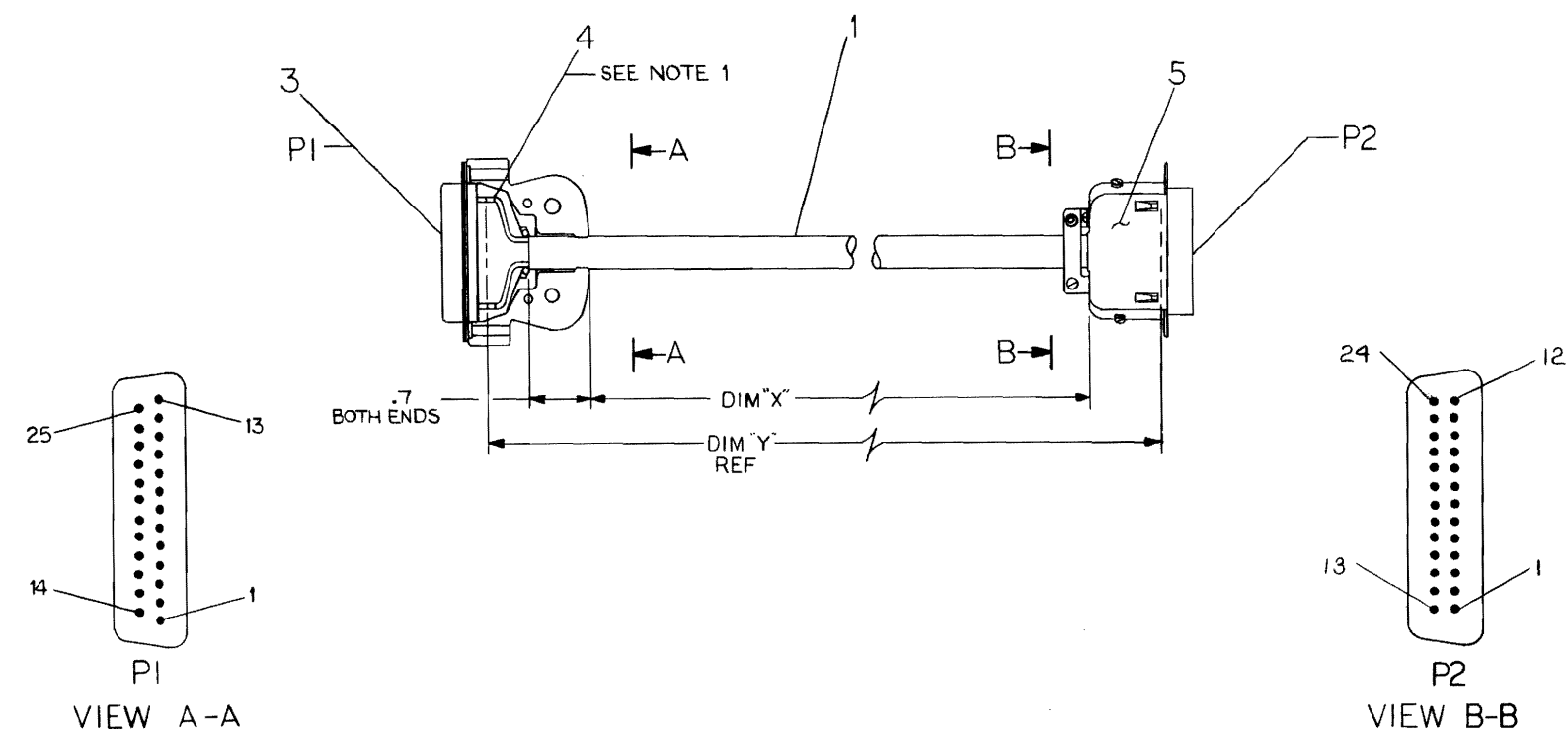
ITEM NO.	DESCRIPTION	FROM		TO		REMARKS
		CONNECTION	WITH	CONNECTION	WITH	
1	*22 TWP	BRN	P1-24	SOLDER	P2-7	+X
		BLK	-25		-8	-X
		COAX	-23		-9	GND
*22 TWP	*22 TWP	YEL	-21		-10	+Y
		BLK	-22		-11	-Y
		COAX	-20		-12	GND
*22 TWP	*22 TWP	GRN	-12		-4	Z AXIS
		BLK	-9		-5	Z GND
*22 TWP	*22 TWP	RED	-11		-1	CHANNEL SEL
		BLK	-6		-6	GND
*22 TWP	*22 TWP	WHT	-10		P2-16	SOLDER RED L
		BLK	-1			SEE NOTE 2
*22 TWP	*22 TWP	BLU	-16			SEE NOTE 2
		BLK	P1-14	SOLDER		SEE NOTE 2

### LEGEND

NUMBER	VARIATION	
	DIM "X"	DIM "Y" (REF)
BC05N-10	10'-0" ± 2"	10'-4" ± 2"

### NOTES:

- ITEM \*4 (TUBING) TO BE APPLIED TO ALL CONNECTIONS.
- WIRE TO BE CUT AS FAR AS POSSIBLE BELOW OUTER SHIELD OF CABLE AT OPPOSITE END OF CONNECTION.
- ALL UNUSED WIRE LEADS TO BE CUT PER NOTE \*2.



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	PLUG, 24 PIN AMP	12-03466	5
A/R	TUBING	9107295-11	4
1	PLUG, CINCH	1205886	3
1	HOOD, CINCH	1205885	2
A/R	CABLE	1700010	1

FIRST USED ON OPTION/MODEL		LPS11-S		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN <i>Carl McCoy</i> DATE 11-27-72	DIGITAL EQUIPMENT CORPORATION MAYFORD MASSACHUSETTS			
TOLERANCES	CHK'D <i>R. G. Galt</i> DATE 12-6-72	TITLE CABLE, LPSVC TO VR14 OR VR20			
DECIMALS ANGLES	ENG. <i>Barry Johnson</i> DATE 12-6-72	SIZE CODE	NUMBER	REV.	
.XX - .005 .XX - .02 .X - .1	PROJ. ENG. <i>G. Waller</i> DATE 2-6-73	DUA	BC05N-0-0	A	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. <i>R. Davis</i> DATE 12/11/74	SCALE NONE			
MATERIAL	NEXT HIGHER ASSY.	SHEET	1	OF	1
SEE PARTS LIST	A-PL-LPSVC-0-0	DIST	G-		
FINISH					

REV	CHANGE NO.	DATE
1	BC05N-0001	1-15-73
2	BC05N-0001	2-14-73

REVISIONS  
CHK *R. Knanian*  
R. KNANIAN  
*Small Johnson*



**DIGITAL EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS

**PARTS LIST**

MADE BY	CARL MCCOY	CHECKED	<i>[Signature]</i>	SECTION
DATE	11-13-72	DATE	11-30-72	
ENG	<i>[Signature]</i>	PROD	<i>R Davis</i>	ISSUED SECT.
DATE	11-30-72	DATE	12/4/72	

QUANTITY / VARIATION

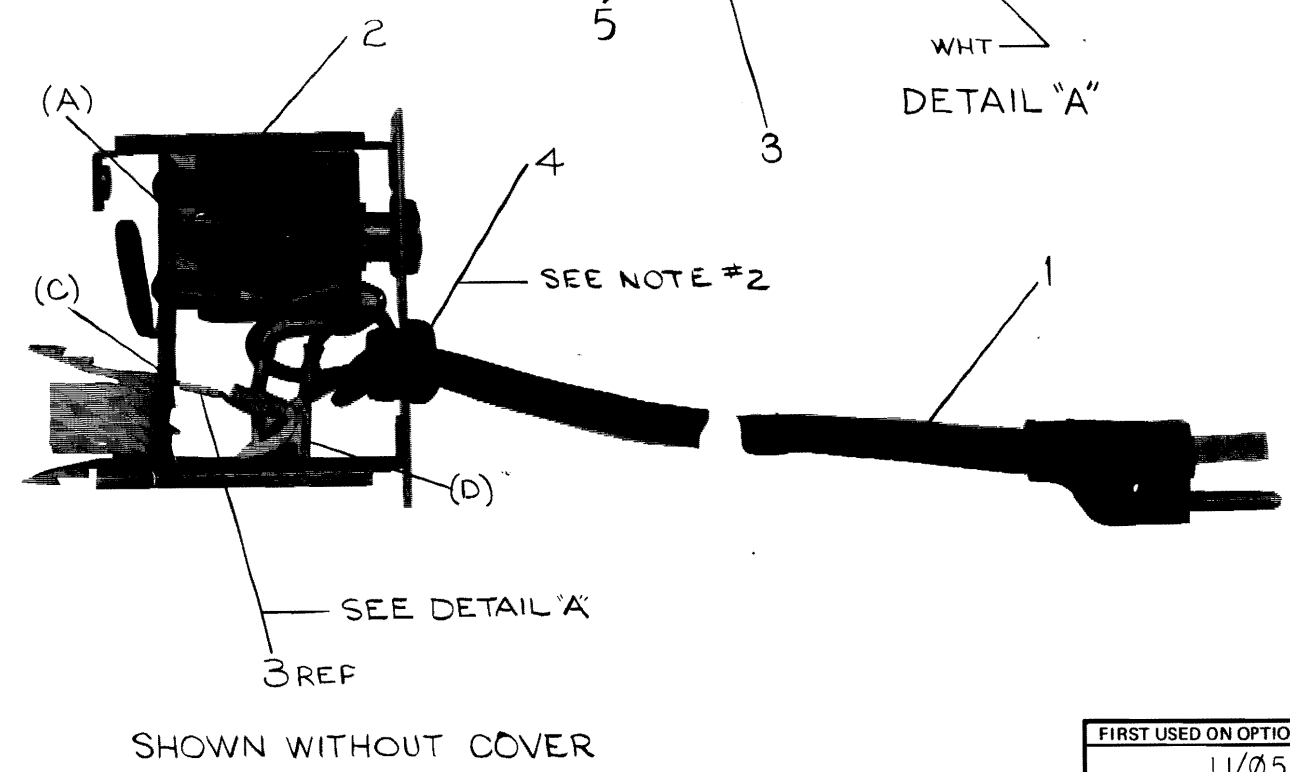
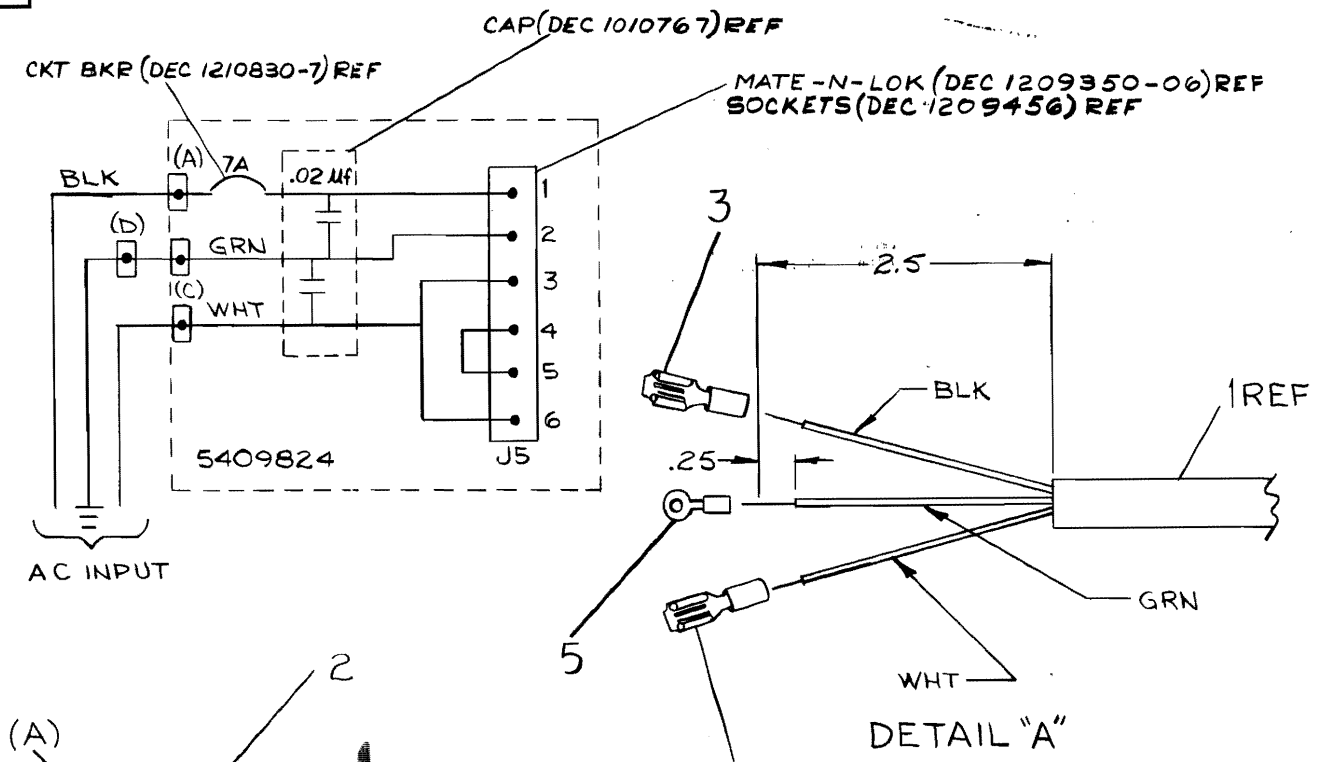
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION																	
			LPSAD-12	LPSAD-NP																
1	M7018	A/D MODULE	1	-																
2	A804	A/D CONVERTER	1	-																
3	A406	SAMPLE & HOLD	1	-																
4	G728	JUMPER CARD	2	-																
5	1209430	PLUG, PHONE, SWITCHCRAFT #90	8	-																
6	A407	8 CHAN. MULTIPLEXER	1	-																
7	1209818	EXTENDER MODULE	2	-																
8	M7020	DMA INTERFACE	-	1																
9	<del>1700021-00</del>	ELECTROMAGNETIC SHIELD	1																	
	D-UA-LPS11-S-0	IAB PERIPHERAL SYSTEM (LPS11-S)	REF	REF																
	B-DD-LPS11-S	DRAWING DIRECTORY	REF	REF																

TITLE	LPSAD	ASSY NO.	---	SIZE	CODE	NUMBER	REV.	ECO NO.
				A	PL	LPSAD-0-0	A	LPS11S-00007
SHEET 1 OF 1		DIST.						

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NOTES:

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



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	SOLDER CONN ARKLESS	9007929-0	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		PARTS LIST	
11/05		DRN: T. Guillen	DATE: 12-27-71
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		CHK'D: J. Antone	DATE: 1-6-72
DECIMALS	ANGLES	ENG: David DeMondelle	DATE: 1-4-72
.XXX - .005	±0° 30'	PROJ. ENG: R. de Horvitz	DATE: 1-7-72
.XX - .02		PROD. R. K. Peterson	DATE: 1/2/72
.X - .1			
MATERIAL	NEXT HIGHER ASSY.	TITLE: LINE SET 115VAC 7AMP	
FINISH	SCALE	SIZE CODE: CUA	NUMBER: BC05H-0-0
	SHEET 1 OF 1	DIST. G	REV.

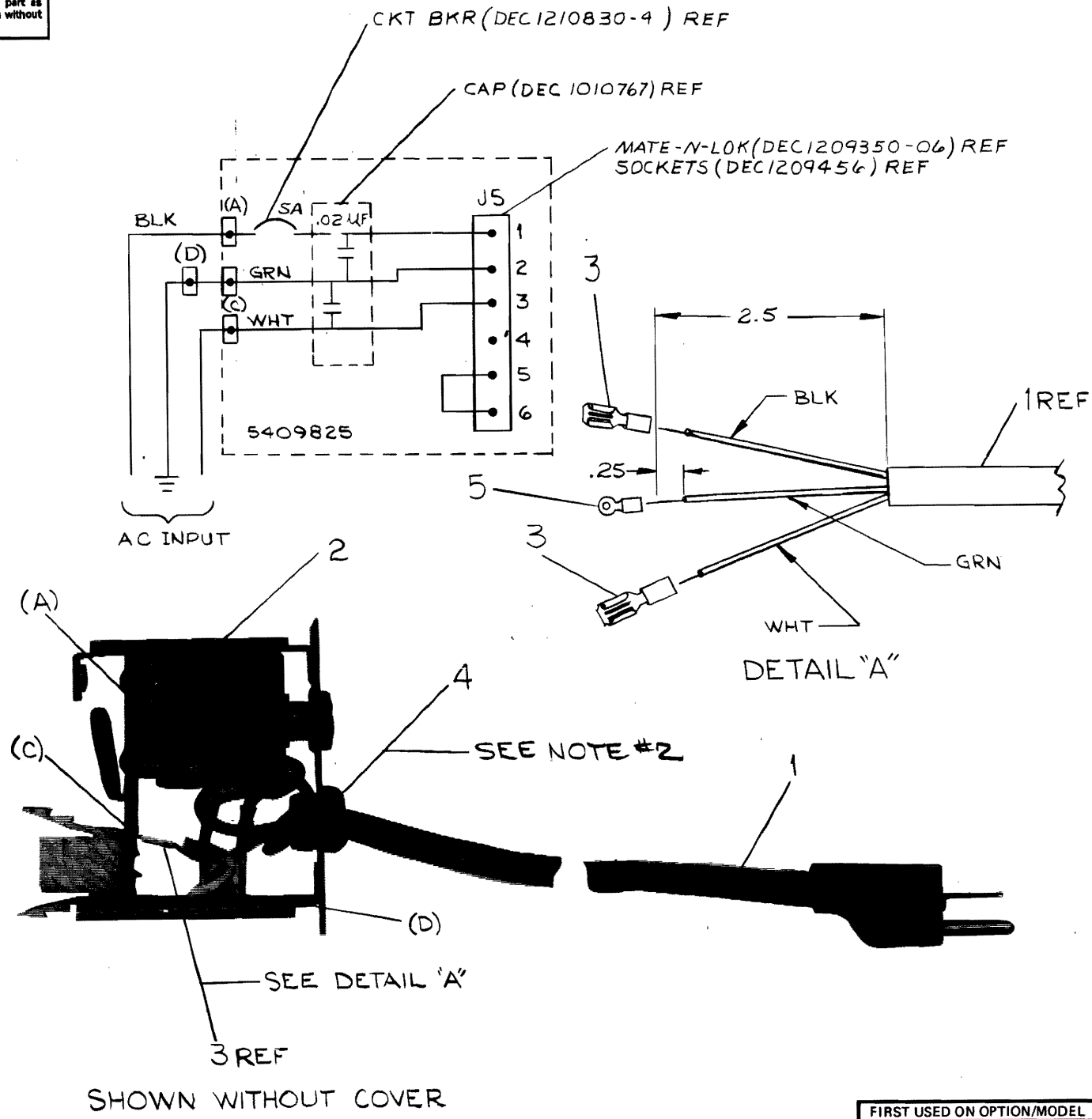
REVISIONS	CHANGE NO.	REV.
1	BC05H-00001	A
2	3-28-72	
3	R. WOLFE	
4	3-29-72	
5	BC05H-00002	B
6	5-13-72	
7	DEMORANVILLE	
8	5/1/72	
9	H400-00002	C
10	5-25-72	
11	R. BURTON	
12	5-31-72	
13	BC05H-00003	E
14	5-30-72	
15	R. BURTON	
16	11-2-72	

REV. 0  
NUMBER BC05H-0-0  
SIZE CODE CUA

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NOTES:

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



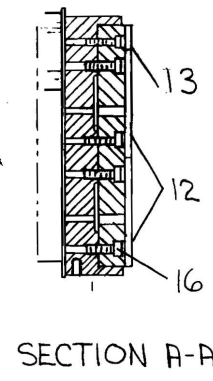
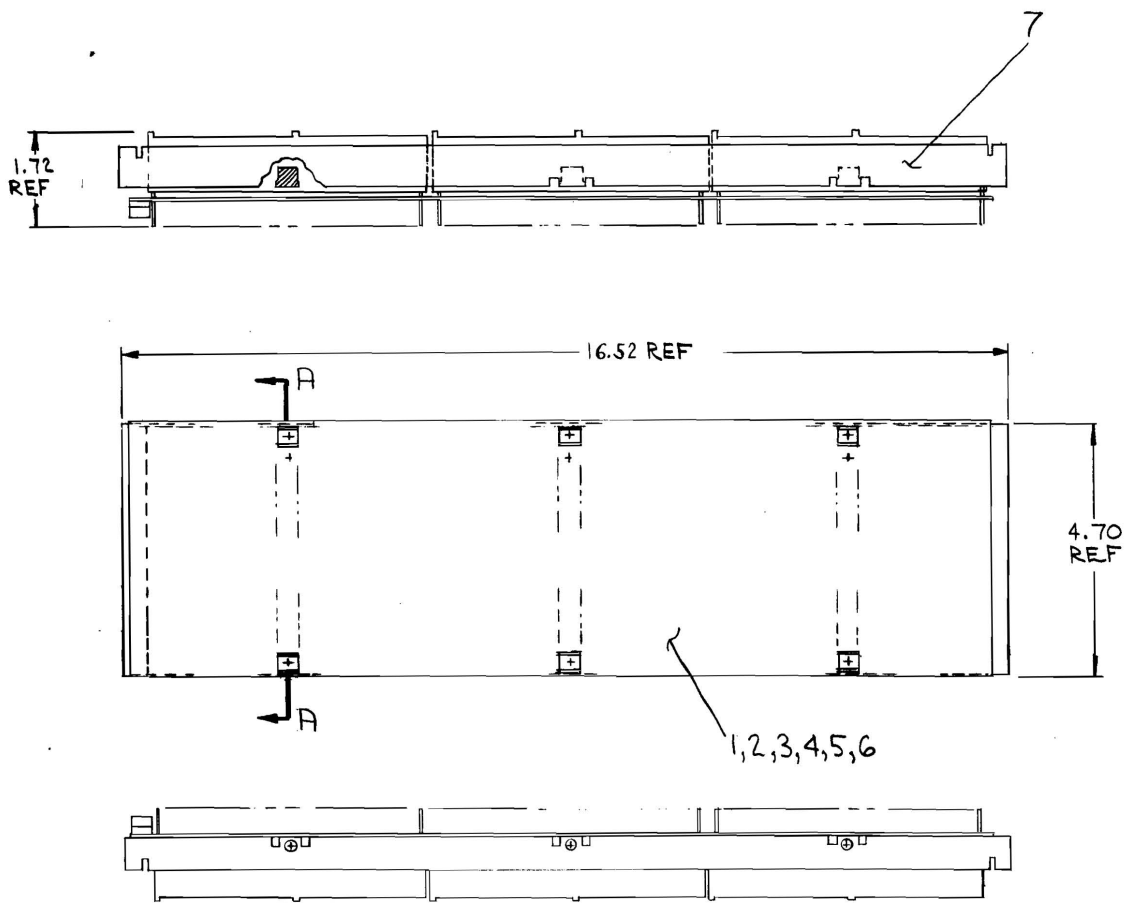
QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	SOLDER CONN ARKLESS	9007929-0	5
1	GROMMET HEYCO SR6N3-4	9008492-2	4
2	SOLDER CONN ARKLESS	9007919	3
1	AC INPUT BOX H4ØØ B	DUA-H4ØØ-Ø-Ø	2
1	POWER CORD 240V	1700016-6	1

REV.	CHANGE NO.	BY	DATE
A	BC05J-00001	WOLFF	2-8-72
B	H400-00002	R. BURTON	5-25-72
C	BC05J-00002	R. BURTON	5-31-72
D	BC05J-00003	R. BURTON	11-2-72

FIRST USED ON OPTION/MODEL 11/Ø5	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN T. Guillen	DATE 12-27-71	digital EQUIPMENT CORPORATION WAYNARD, MASSACHUSETTS	
DECIMALS .XXX = .005 .XX = .02 .X = .1	CHKD D. Martins	DATE 1-8-72	TITLE LINE SET	
ANGLES ±0° 30'	ENG. David De Marco	DATE 1-17-72	230V AC 4 AMP	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	PROJ. ENG. R. H. Hardy	DATE 1-7-72	SIZE CODE C UA	NUMBER BCØ5J-Ø-Ø
MATERIAL + +	PROD. R. K. Peterson	DATE 1/7/72	REV.	
FINISH + +	NEXT HIGHER ASSY.		DIST.	
SCALE + +				
SHEET 1 OF 1				

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- NOTES:
- SIX WIRES ARE ATTACHED TO ITEM #11 (TERM, SOLDERLESS) USING ITEM #15 (TUBING) ON CONNECTION FT7-2
  - SIX WIRES ARE ATTACHED TO ITEM #18 (TERM, SOLDERLESS) USING ITEM #15 (TUBING) ON CONNECTION FT9-2
  - SIX WIRES ARE ATTACHED TO ITEM #18 (TERM, SOLDERLESS) USING ITEM #15 (TUBING) ON CONNECTION FT8-2



QTY.	DESCRIPTION	PART NO.	ITEM NO.
21	WIRE, SOLID #24 AWG BLK	9107470-00	21
20	WIRE, SOLID #24 AWG ORN	9107470-33	20
19	WIRE, SOLID #24 AWG BLU	9107470-66	19
18	TERM, SOLDERLESS AMP #4174	9006997-0	18
17	MOUNTING BAR	GMD7409410-0	17
16	SCR POSI DRIVE 5/32 X .62	9006120	16
15	TUBING, HEAT SHRINK 3/16 O.D. X 1/16	9107305-02	15
14	BAR LEFT SUPPORT	GMD7409410-0	14
13	72 PIN BLOCK	E-PS-1211425-0-0	13
12	288 PIN BLOCK (H863)	E-PS-1210258-0-0	12
11	TERM, SOLDERLESS #300421A-1K	9007925	11
10	SCR PIN HD NYLOC 6-32	9009186	10
9	RECT CONN BLOCK TOP	GMD7409410-0	9
8	BAR RIGHT SUPPORT	GMD7409415-0	8
7	LOGIC FRAME (11/05)	E-PS-1211439-0-0	7
6	ETCH/WIRE LIST	K-WL-LPSII-S-NL	6
5	MODULE ECO HISTORY	B-MH-5410140-0-6	5
4	ASSY/DRILLING HOLE	D-AH-5410140-0-5	4
3	X-Y COOR HOLE LOC	KCO-5410140-0-4	3
2	BACK PLANE ASSY	D-IP-5410140-0-0	2
1	ETCH BOARD	5010139	1

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPSII-S				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
.XXX = .005	±0°30'	TITLE		
.XX = .02		WIRED ASSY		
.X = .1		REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		
MATERIAL		NEXT HIGHER ASSY.		
FINISH		SCALE NONE		
		SHEET OF 2		
		D-UR-LPSII-S-0		
		DAD7009110-0-0		
		REV. C		

REV	CHANGE NO.	DATE	BY	CHK'D
A	LPSIIS-00003	1-17-73	E. KING	
B	LPSIIS-00008	2-2-73	D.K. CRABBE	
C	LPSIIS-00010	11-13-73	D. CRABBE	
	LPSIIS-00011	12-9-73		

DEC FORM NO DRD 100-A

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ITEM NO.	DESCRIPTION	FROM		TO		REMARKS
		CONNECTION	TERM	CONNECTION	TERM	
19	#24 BLK	FT12-2	18,15,Δ	F02M1	*	
		FT13-2	18,15,Δ	B03F1		
		FT14-2	18,15,Δ	B03F2		
		FT 2-2	11,15,Δ	C07C2		
				F02F1		SEE NOTE #1
				F09F2		
		FT7-2		E09F2		
				D09F2		
				C09F2		
			11,15,Δ	A07F2		SEE NOTE #1
		A07F2	*	A08F2		
		A08F2		A09F2		
		A09F2		B09F2		
		B09F2		B08F2		
		F09F2		F08F2		
		F08F2		F07F2		
		E09F2		E08F2		
		E08F2		E07F2		
		C09F2		C08F2		
		C08F2		C07F2		
		C07K2		C09B2		
		C09B2		B09C1		
		B09C1		B09B1		
		B09B1		B09A1		
		B09A1		B08C1		
		B08C1		B08B1		
		B08B1		B08A1		
		C07K2		F09B2		
		F09B2		F08C1		
		F08C1		F08B1		
		F08B1		F08A1		
		F08A1		F07C1		
		F07C1		F07B1		
19		BLK	F07B1	*	F07A1	
22	#24 BLU	FT4-2	18,15,Δ	C07E2	*	


ITEM NO.	DESCRIPTION	FROM		TO		REMARKS
		CONNECTION	TERM	CONNECTION	TERM	
22	#24 BLU		18,15,Δ	B04B2	*	SEE NOTE #2
				A07E2		
				C09E2		
				D09E2		
				E09E2		
			18,15,Δ	F09E2		SEE NOTE #2
				B04B2	*	
				A07E2		
				A08E2		
				A09E2		
				B09E2		
				C09E2		
				C08E2		
				E09E2		
				E08E2		
				F09E2		
				F08E2		
22		BLU		F08E2	*	
20		ORN	FT3-2	18,15,Δ	C07D2	
				F02D2		SEE NOTE #3
				A07D2		
				C09D2		
				D09D2		
				E09D2		
			18,15,Δ	F09D2		SEE NOTE #3
				A07D2	*	
				A08D2		
				A09D2		
				B09D2		
				C09D2		
				C08D2		
				E09D2		
				E08D2		
				F09D2		
20	#24 ORN			F08D2	*	
				F07D2	*	

REF FOR SOLDER LUG LOC ON PRINTED CIRCUIT BOARD.

FT1	FT1-1	FT6	FT6-1	FT11	FT11-1
	FT1-2		FT6-2		FT11-2
FT2	FT2-1	FT7	FT7-1	FT12	FT12-1
	FT2-2		FT7-2		FT12-2
FT3	FT3-1	FT8	FT8-1	FT13	FT13-1
	FT3-2		FT8-2		FT13-2
FT4	FT4-1	FT9	FT9-1	FT14	FT14-1
	FT4-2		FT9-2		FT14-2
FT5	FT5-1	FT10	FT10-1	FT15	FT15-1
	FT5-2		FT10-2		FT15-2

\*=ASTERISK ARE WIRE WRAPPED  
Δ= SOLDER

REV.	CHANGE NO.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS11-S				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES.		DRN <i>P. Orsini</i>	DATE <i>10-12-72</i>	 <b>digital EQUIPMENT CORPORATION</b> <small>MAYNARD MASSACHUSETTS</small>
TOLERANCES		CHK'D <i>H. Walker</i>	DATE <i>10-9-72</i>	
DECIMALS .XXX - .005	ANGLES ± 0° 30'	ENG. <i>G. Walker</i>	DATE <i>10-13-72</i>	
.XX - .02		PROJ. ENG. <i>G. Walker</i>	DATE <i>10-12-72</i>	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD. <i>H. Walker</i>	DATE <i>10-12-72</i>	TITLE <b>WIRED ASS'Y</b>
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE
FINISH		D-4A-LPS11-S-0		NUMBER
		SCALE		REV. C
		SHEET 2 OF 2		DIST

SIZE CODE NUMBER  
 D-4A-LPS11-S-0-0

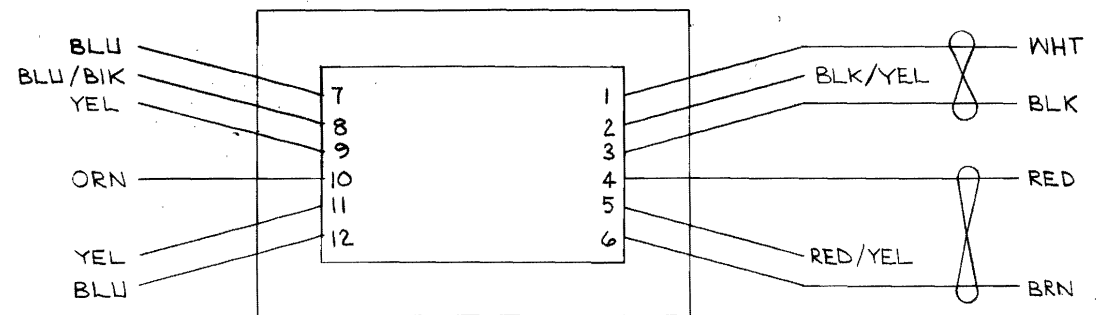


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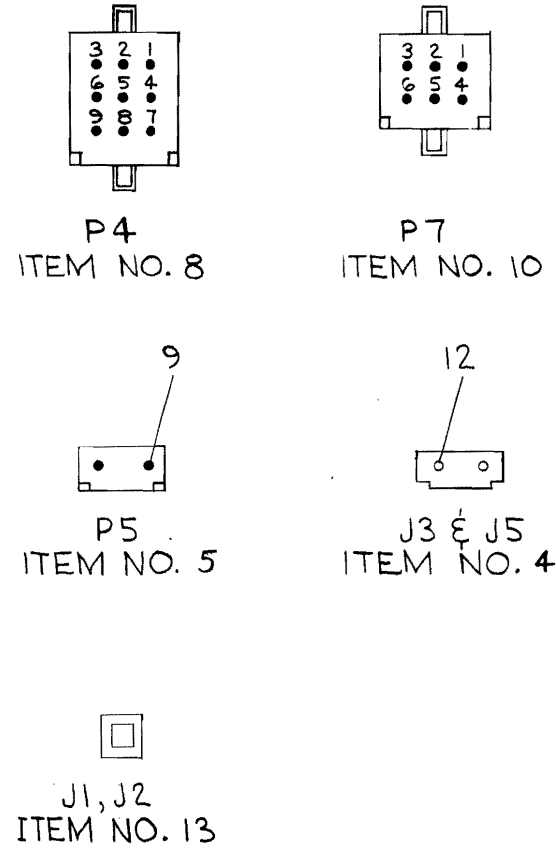
WIRE TABLE

ITEM NO.	DESCRIPTION	FROM		TO		REMARKS	WIRE LENGTH
		AWG	COLOR	CONNECTION	TERM		
3	#18	RED	T1-4			SEE NOTE 2	20 IN.
15	#22	WHT	J2	13,14	P7-3	9,10	20 IN.
15	TWP	RED	J1	13,14	P7-5	9,10	20 IN.
3	#18	BRN	T1-6			SEE NOTE 2	20 IN.
3	#18	RED/YEL	T1-5		P5-1	5,4,9	21 IN.
3	#18	BLK	T1-3		P7-6	9,10	20 IN.
3	#18	WHT	T1-1		P7-4	9,10	20 IN.
16	#18	RED	J3-2	4,12			3.5 IN.
16	TWP	RED	J3-1	4,12	P7-1	9,10	3.5 IN.
3	#18	BLK/YEL	T1-2		P5-2	4,5,9	21 IN.
17	#18	BLK	P7-2	9,10		6	18 IN.
3	#18	ORN	T1-10		P4-1	8,9	12 IN.
3	#18	YEL	T1-9		P4-2	8,9	12 IN.
3	#18	YEL	T1-11		P4-3	8,9	12 IN.
19	#18	VIO	P4-4	8,9		2	7.5 IN.
19	TWP	BLK	P4-5	8,9			7.5 IN.
19	#18	BLK	P4-8	8,9		2	7.5 IN.
19	TWP	VIO	P4-7	8,9		2	7.5 IN.
18	#18	BLU	P4-6	8,9		7	7.5 IN.
18	TWP	BLU	P4-9	8,9		7	7.5 IN.
3	#14	BLU	T1-7	1,11,Δ			9.5 IN.
3	#14	BLU	T1-12	1,11,Δ			9.5 IN.
3	#14	BLU/BLK	T1-8	2			8 IN.
21	#18	RED	J1	13,14		7	46 IN.
		WHT	P7-6	9,10		7	46 IN.

Δ = SOLDER



T1  
ITEM NO. 3



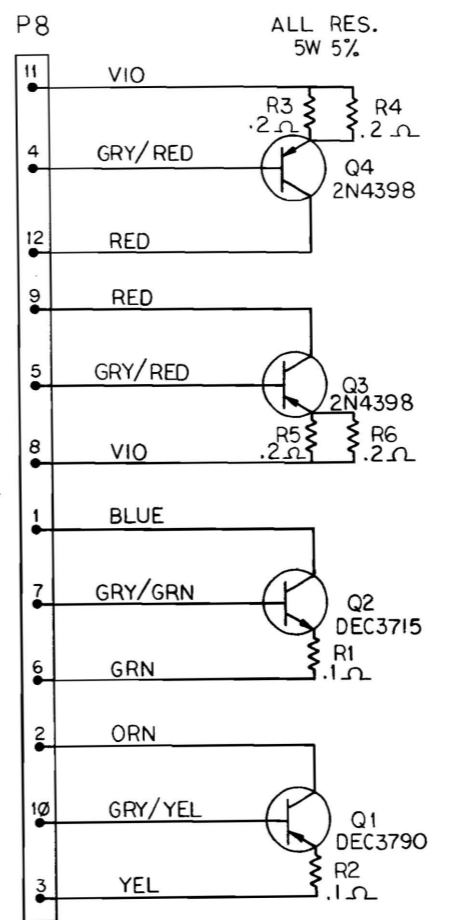
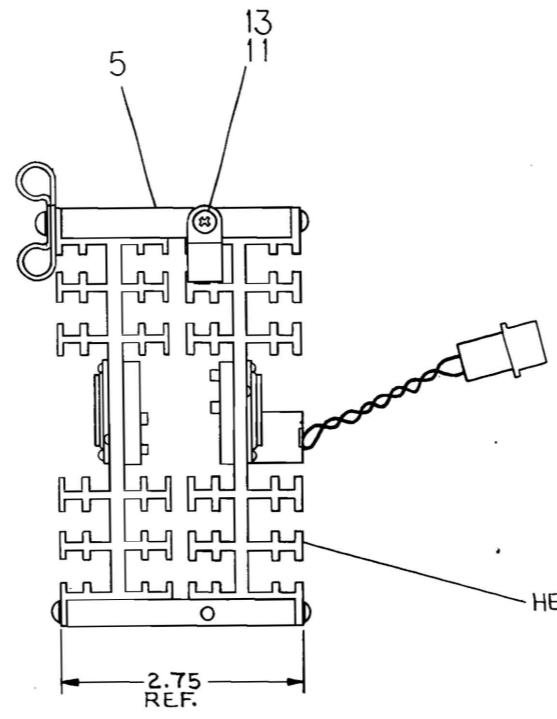
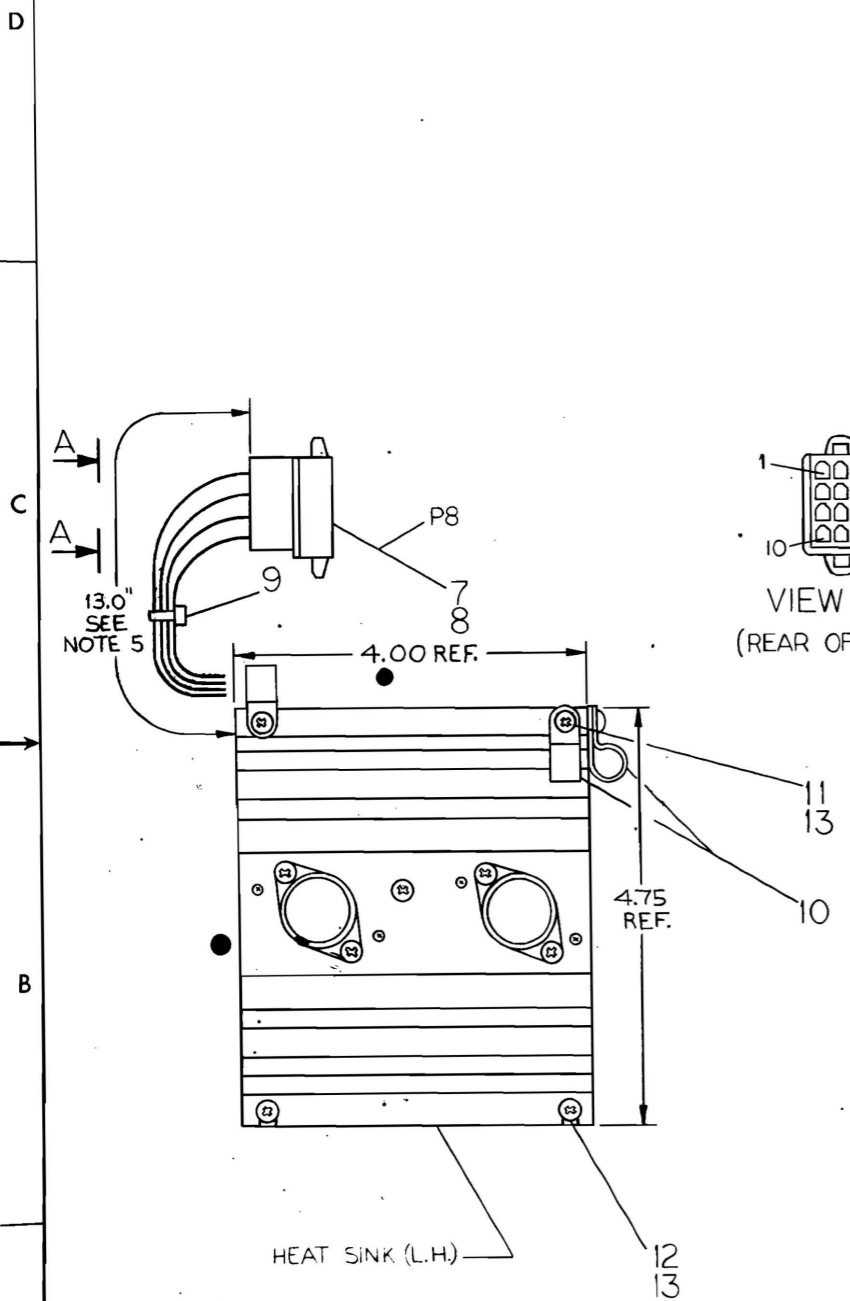
- NOTES:
- RED/YEL & BLK/YEL ARE TO BE ENDED TOGETHER AND TIE WRAPPED (ITEM #20).
  - PRIMARY LEADS ARE TO BE TWISTED 1 TWIST PER IN.
  - VIOLET WIRES ARE TO BE CRIMPED TOGETHER WITH ITEM #2.
  - TWO WIRES ARE TO BE CRIMPED IN CONNECTORS.

A/R	WIRE #18 AWG TWP RED/WHT	9107430-29	21
A/R	TIE WRAP, PANDUIT SST-1 M	9007031	20
	WIRE #18 AWG TWP VIO/BLK	9107430-70	19
	WIRE #18 AWG TWP BLU/BLU	9107430-66	18
	WIRE #18 AWG BLK	9107360-00	17
	WIRE #18 AWG TWP RED/RED	9107430-22	16
A/R	WIRE #22 AWG TWP RED/WHT	9107420-29	15
2	PIN, FASTAB	1210820-02	14
2	HOUSING, FASTAB	1210820-01	13
2	SKT, MATE-N-LOK #60619-4	1209379-01	12
2	TUBING SHRINKABLE	9107305-02	11
1	CONN, MATE-N-LOK #1-480276	1209351-06	10
17	PIN, MATE-N-LOK #60528-4	1209378-02	9
1	CONN, MATE-N-LOK #1-480277	1209351-09	8
4	CONN, SOLDERLESS #50902	9007917-0	7
1	CONN, SOLDERLESS CRIMP #34144	9006780-0	6
1	CONN, MATE-N-LOK #1-480319	1210822-02	5
2	CONN, MATE-N-LOK #1-480318	1210821-02	4
1	TRANSFORMER	1611173	3
3	CONN, SOLDERLESS #50364	9007928-0	2
2	CONN, SOLDERLESS #300421A-K	9007925-0	1

FIRST USED ON OPTION/MODEL H755	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN DATE 12-29-72	DATE 12-16-72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS .XXX = .005	CHK'D DATE 12/16/72	DATE 12/16/72	TITLE	
ANGLES .XX = .02	PROJ ENG DATE 12-11-72	DATE 12-11-72	TRANSFORMER ASS'Y	
.X = .1	PROV DATE 12-11-72	DATE 12-11-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.	SCALE	SIZE CODE DIA 7009107-0-0	NUMBER REV. B
MATERIAL SEE PARTS LIST	FINISH	SHEET 1 OF 1	DIST	

REV	CHANGE NO.	DATE
A	H755-00001	1-15-73
B	3600-224	8-6-73
C	AC FILZ	8-6-73
D	381009107-00001	11-9-73
E	KING	

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QTY.	DESCRIPTION	PART NO.	ITEM NO.
A/R	WIRE, *18 AWG. STRD GRY/YEL	9107410-84	38
A/R	WIRE, *18 AWG. STRD ORN	9107360-33	37
A/R	WIRE, *18 AWG. STRD YEL	9107360-44	36
A/R	WIRE, *18 AWG. STRD GRN	9107360-55	35
A/R	WIRE, *18 AWG. STRD GRY/GRN	9107410-85	34
A/R	WIRE, *18 AWG. STRD BLUE	9107360-66	33
A/R	SHRINK TUBING RED	9107305-02	32
A/R	WIRE, *18 AWG. STRD VIO.	9107360-77	31
A/R	WIRE, *18 AWG. STRD GRY/RED	9107410-82	30
A/R	WIRE, *18 AWG. STRD RED	9107360-22	29
A/R	WIRE, *18 TWP. STRD.TEF. RED	9107430-22	28
8	NUT, HEX., #2-56	9006555	27
8	SCREW, PHL. PAN HD. #2-56 x 1/2	9006005-1	26
1	SCREW, PHL. PAN HD. #6-32 x 3/8	9006022-1	25
8	SCREW, PHL. PAN HD. #6-32 x 9/16	9007793-1	24
2	KEPS NUT, #6-32	9006560	23
A/R	THERMAL COMPOUND	9008268	22
8	WASHER, INT. TOOTH #2	9006631	21
A/R	TUBING, BLACK	9107278-00	20
4	WASHER, BLACK OXIDE	9006721	19
2	TRANSISTOR, DEC 2N4398	1505870	18
1	TRANSISTOR, DEC 3715	1503068	17
1	TRANSISTOR, DEC 3790-2	1503399	16
4	RESISTOR, .2Ω 5% 5W	1309884	15
2	RESISTOR, .1Ω 5% 5W	1305872	14
17	WASH., INT. TOOTH LOCK #6	9006633	13
6	SCREW, PHL. TRUSS HD. #6-32 x 1/4	9006020-3	12
3	SCREW, PHL. TRUSS HD. #6-32 x 3/8	9006022-3	11
3	CABLE CLAMP 1/4 D CPS 19534A	9007081	10
A/R	TIE WRAPS, SST-1 M	9007031	9
14	PIN, MATE-N-LOCK, #60620-4	1209378-01	8
1	CONN., MATE-N-LOCK 12 PIN	1209351-12	7
1	CONN., MATE-N-LOCK, 2 PIN	1210822-02	6
2	HEAT SINK BASE PLATE	7410616	5
4	SOCKET TRANSISTOR AUGAT	1201200	4
2	STRIP TERMINAL	9007004	3
1	THERMAL CUTOUT	1210194	2
2	POWER SUPPLY HEAT SINK	1210131	1

DEC	EIA	DEC	EIA
DEC 3790	2N3790		
DEC 3715	2N3715		
2N4398	2N4398		

FIRST USED ON OPTION/MODEL H755		QTY.		DESCRIPTION		PART NO.		ITEM NO.	
PARTS LIST									
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN. C.B.M. DATE 10-26-72		DATE 11-1-72		DATE 11-1-72		DATE 12-14-72	
DECIMALS	ANGLES	PROJ. ENG. G. W. WADSWORTH DATE 12-31-72		PROJ. DATE 12-31-72		PROJ. DATE 12-14-72		PROJ. DATE 12-14-72	
.XXX = .005	±0° 30'	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		MATERIAL		NEXT HIGHER ASSY.		SEE PARTS LIST	
.XX = .02				FINISH		SCALE NONE		SHEET 1 OF 3	
.X = .1						E-UA-H755-0-0		DAD 7009109-0-0	

digital EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

HEAT SINK ASSY

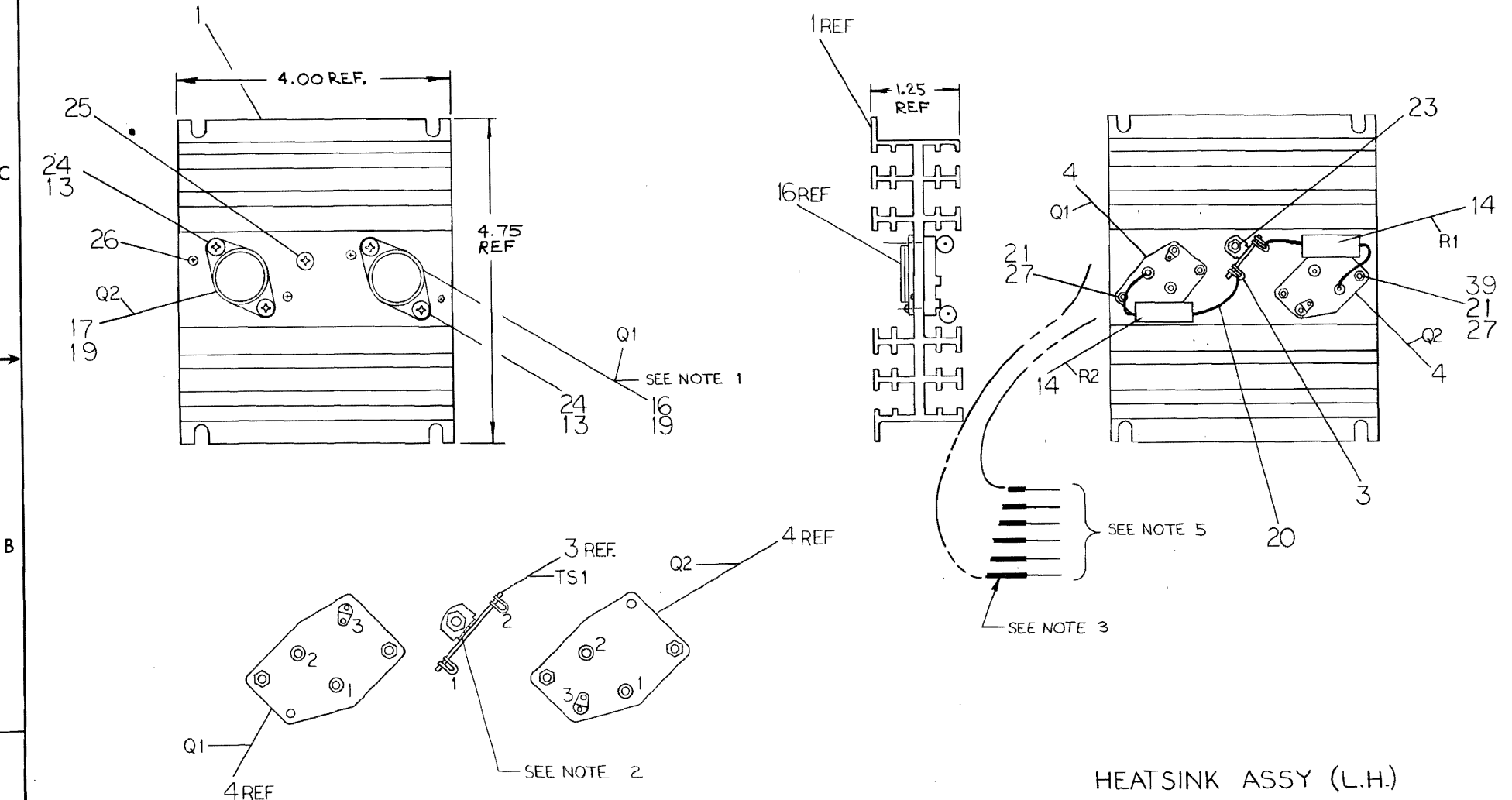
SCALE NONE  
SHEET 1 OF 3  
DAD 7009109-0-0

REV.	CHANGE NO.

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WIRE TABLE								REMARKS
ITEM NO.	DESCRIPTION	FROM		TO		WIRE LENGTH		
	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH		
14	—	—	Q2-1	SOLDER	TS1-2	SOLDER		SEE NOTE 4
14	—	—	Q1-2		TS1-1	SOLDER		
37	18	ORN	Q1-3		P8-2	ITEM *8	2'-1"	SEE NOTE 5
38		GRY/YEL	Q1-1		P8-10			
35		GRN	TS1-2		P8-6			
36		YEL	TS1-1		P8-3			
34		GRY/GRN	Q2-2		P8-7			
33	18	BLUE	Q2-3	SOLDER	P8-1	ITEM *8	2'-1"	

- NOTES:
1. AFF / ITEM #22 (THERMAL COMPOUND) WITH STIFF BRUSH. THE ENTIRE CONTACT SURFACE MUST BE COVERED AND NO BARE METAL FROM THE TRANSISTOR OR INSULATING WASHER MUST SHOW.
  2. BREAK-OFF SMALL TERMINAL FROM END OF ITEM #3.
  3. BRADY MARKERS TO BE USED ON ALL WIRES WHERE NEEDED.
  4. USE ITEM #20 (TUBING) TO INSULATE ALL RESISTOR LEADS PRIOR TO SOLDERING, WHERE POSSIBLE.
  5. ALL WIRE LEADS FROM BOTH LEFT AND RIGHT HEATSINK ASSYS WILL BE BUNDLED, CLAMPED AND CUT TO LENGTH (SEE SHEET #1) PRIOR TO ATTACHING PINS (ITEM #8) AND INSERTING INTO CONNECTOR P8.



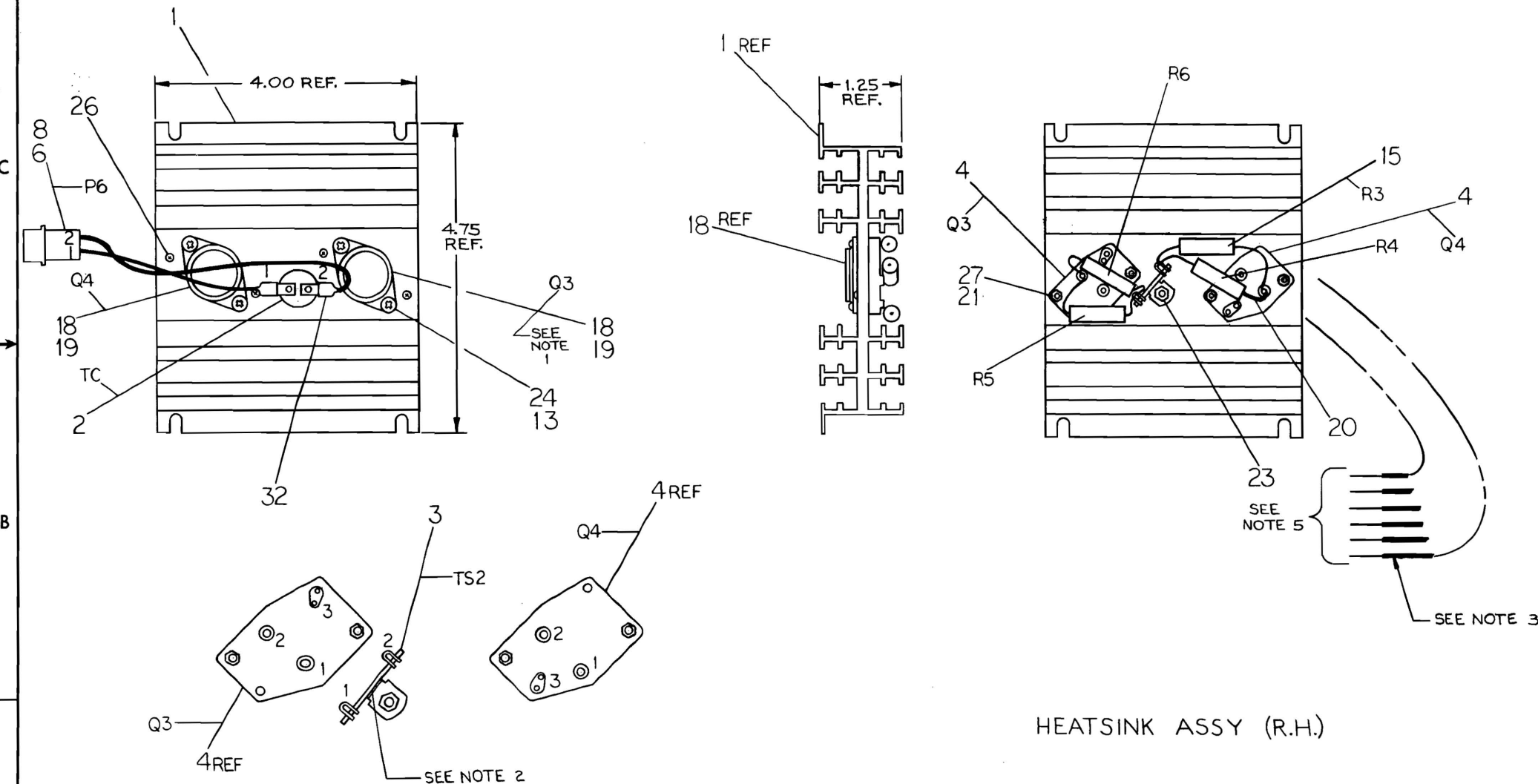
REV. CHANGE NO. CHK

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
H755				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN. DATE 10-16-72	 digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS .XXX = .005	ANGLES ±0°30'	CHK'D. DATE 11-1-72		
		ENGR. DATE 11-1-72		
		PROJ. ENG. DATE 11-20-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PRD. DATE 12/14/72	TITLE	
			HEATSINK ASSY	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
SEE PARTS LIST	E-UA-H755-0-0	DAD	70C9109-0-0	
FINISH	SCALE NONE	SHEET 2 OF 3	DIST. G	

REV. 39-0-0

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WIRE TABLE								
ITEM NO.	DESCRIPTION		FROM		TO		WIRE LENGTH	REMARKS
	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH		
15	—	—	TS2-2	SOLDER	Q4-1	SOLDER		SEE NOTE 4
15	—	—						
15	—	—	TS2-1		Q3-2	SOLDER		
15	—	—						
29	18	RED	Q3-3		P8-9	ITEM *8	2'-1"	SEE NOTE 5
30		GRY/RED	Q3-1		P8-5			
31		V10	TS2-1		P8-8			
31		V10	TS2-2		P8-11			
29		RED	Q4-3		P8-12			
30	18	GRY/RED	Q4-2		P8-4		2'-1"	
28	18 TWP	RED	TC-1		P6-1		8"	USE ITEM *32
			TC-2	SOLDER	P6-2	ITEM *8	10"	



HEATSINK ASSY (R.H.)

REVISIONS  
 CHANGE NO. REV.  
 CHK. 40-107 ISSUES  
 DEC FORM NO. DRD 100-A

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
H755				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
.XXX - .005	±0° 30'	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
.XX - .02		TITLE		
.X - .1		HEATSINK ASSY		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL				
SEE PARTS LIST				
FINISH				
NEXT HIGHER ASSY.				
E-UA-H755-φ-φ		SIZE CODE	NUMBER	REV.
SCALE NONE		DAD	7009109-0-0	
SHEET 3 OF 3		DIST.		

REV. NUMBER  
 DAD 7009109-0-0



**ENGINEERING SPECIFICATION**



**CONTINUATION SHEET**

**TITLE** LPS11-S CABINET MOUNTING PROCEDURE

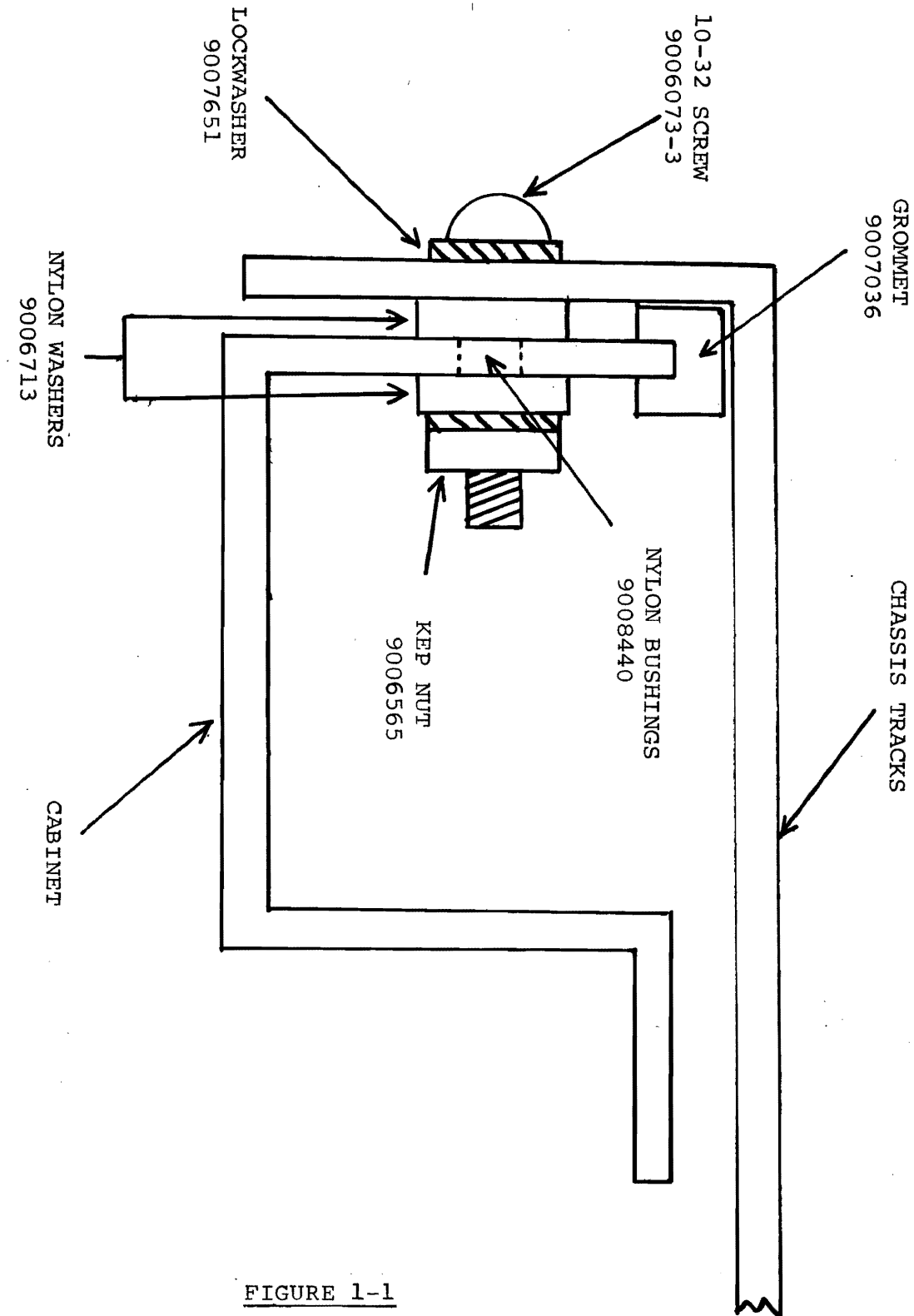


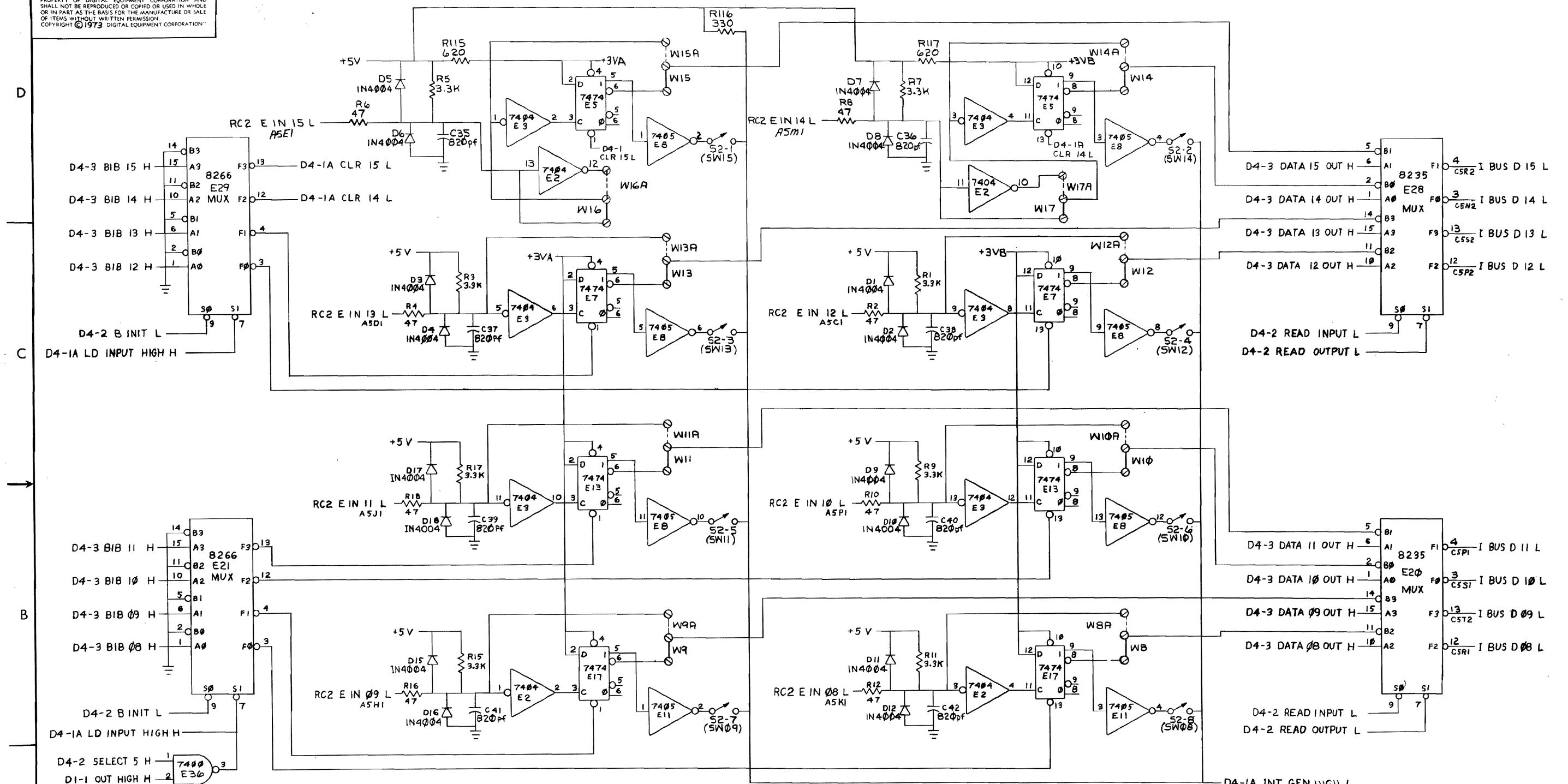
FIGURE 1-1

NOTE: This is to be installed on all four corners.

SIZE	CODE	NUMBER	REV
A	SP	LPS11-S-15	



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NOTE  
ALL 47 OHM RESISTORS ARE FUSABLE AND WILL BLOW OPEN WHEN OVER-VOLTAGE IS APPLIED TO INPUT OR OUTPUT.

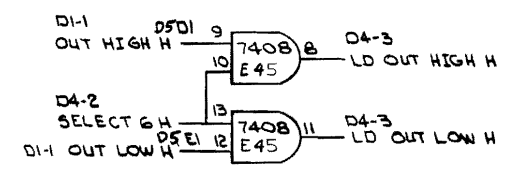
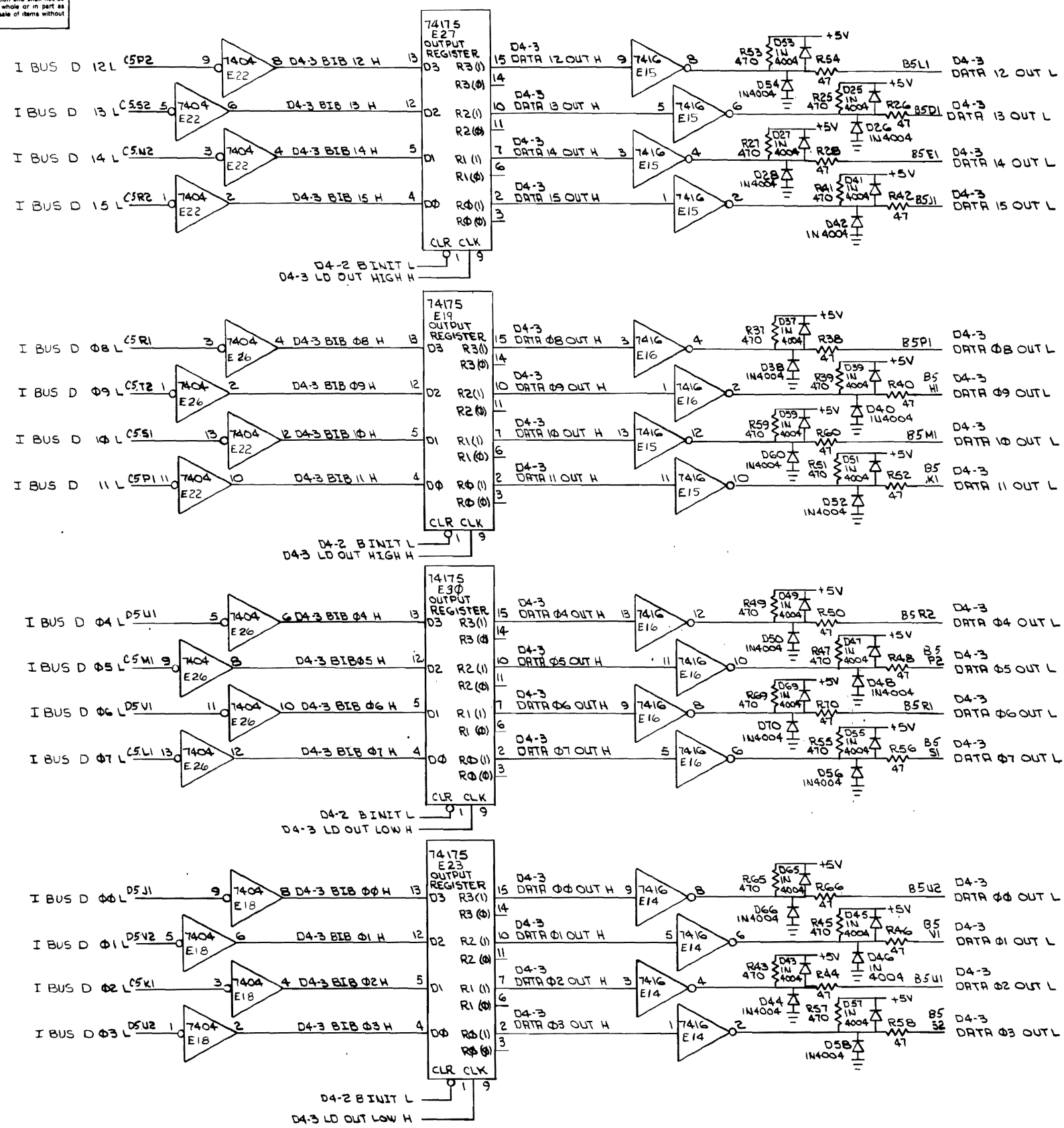
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES				
TOLERANCES				
DECIMALS	ANGLES			
.xxx = .005	+0° 30'			
.xx = .02				
.x = .1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y				
MATERIAL				
NEXT HIGHER ASSY.				
FINISH				
SCALE NONE				
SHEET 2 OF 5				
TITLE		DIGITAL EQUIPMENT CORPORATION NAT. HARBOR, MASSACHUSETTS		
TITLE		DIGITAL I/O (LPSDR-A) D4-IA		
SIZE	CODE	NUMBER	REV.	
DCS	M7023-0-1	A	A	
DIST.				

REV.	
CHANGE NO.	
NO.	





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REV	NO	DATE	BY	CHK

DEC 1966  
FORM NO. 0101 102-B

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
LPS II				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN 3 BLDGET	DATE 10-25-73	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	ANGLES	DATE 11/15/73	TITLE DIGITAL I/O (LPSDR-A)	
.XXX - .005	+0° 30'	DATE 11-15-73	D4-7	
.XX - .02		DATE 11-15-73	REV. A	
.X - .1		DATE 11-15-73	D4-7	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
FINISH	SCALE NONE	DCS	M7023-0-1	A
	SHEET 5 OF 5	DIST.		

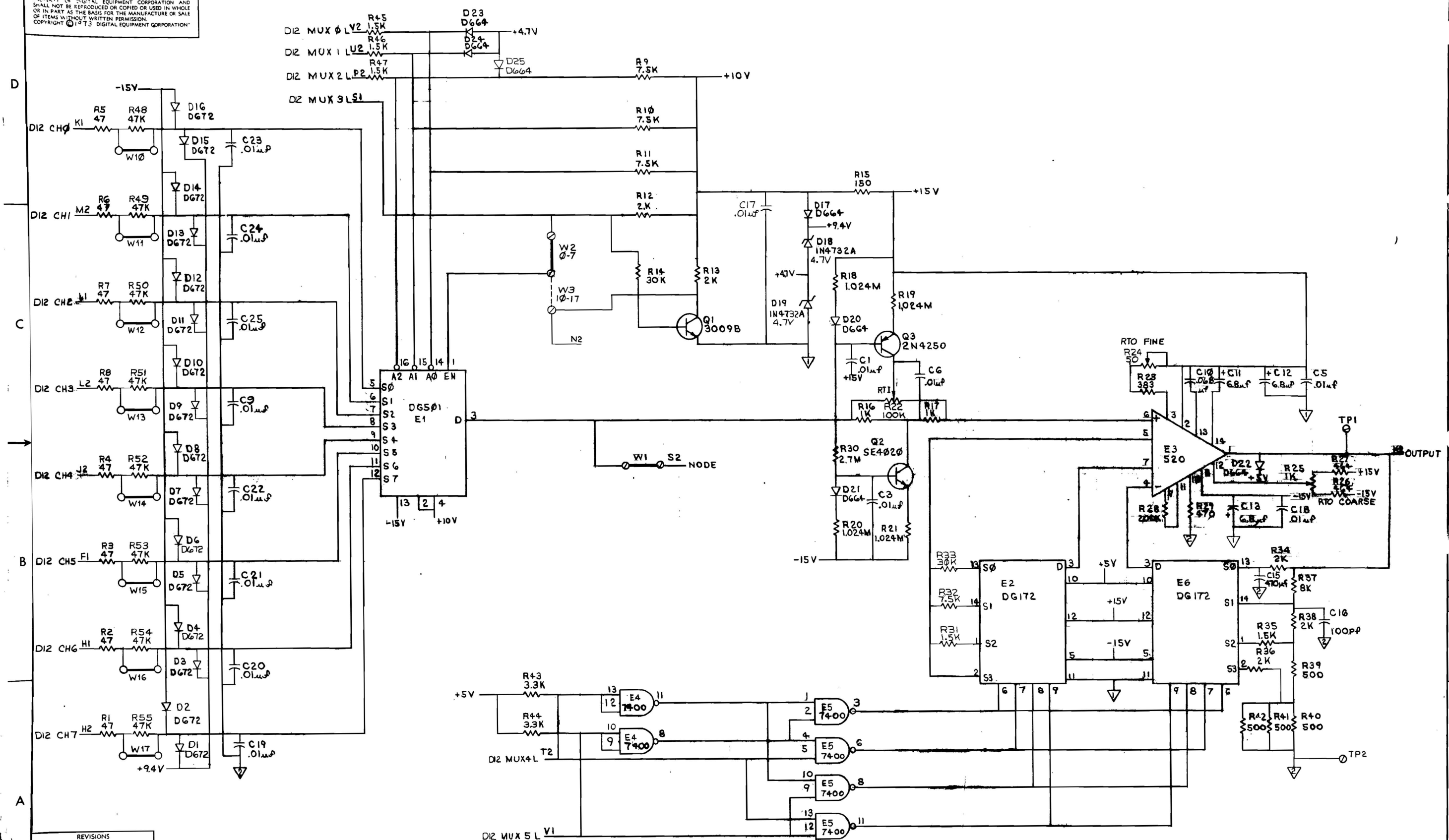
REV. A  
NUMBER  
M7023-0-1

REV. B

REV. A



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