

* OPTIONS TO KD11-A PROCESSOR

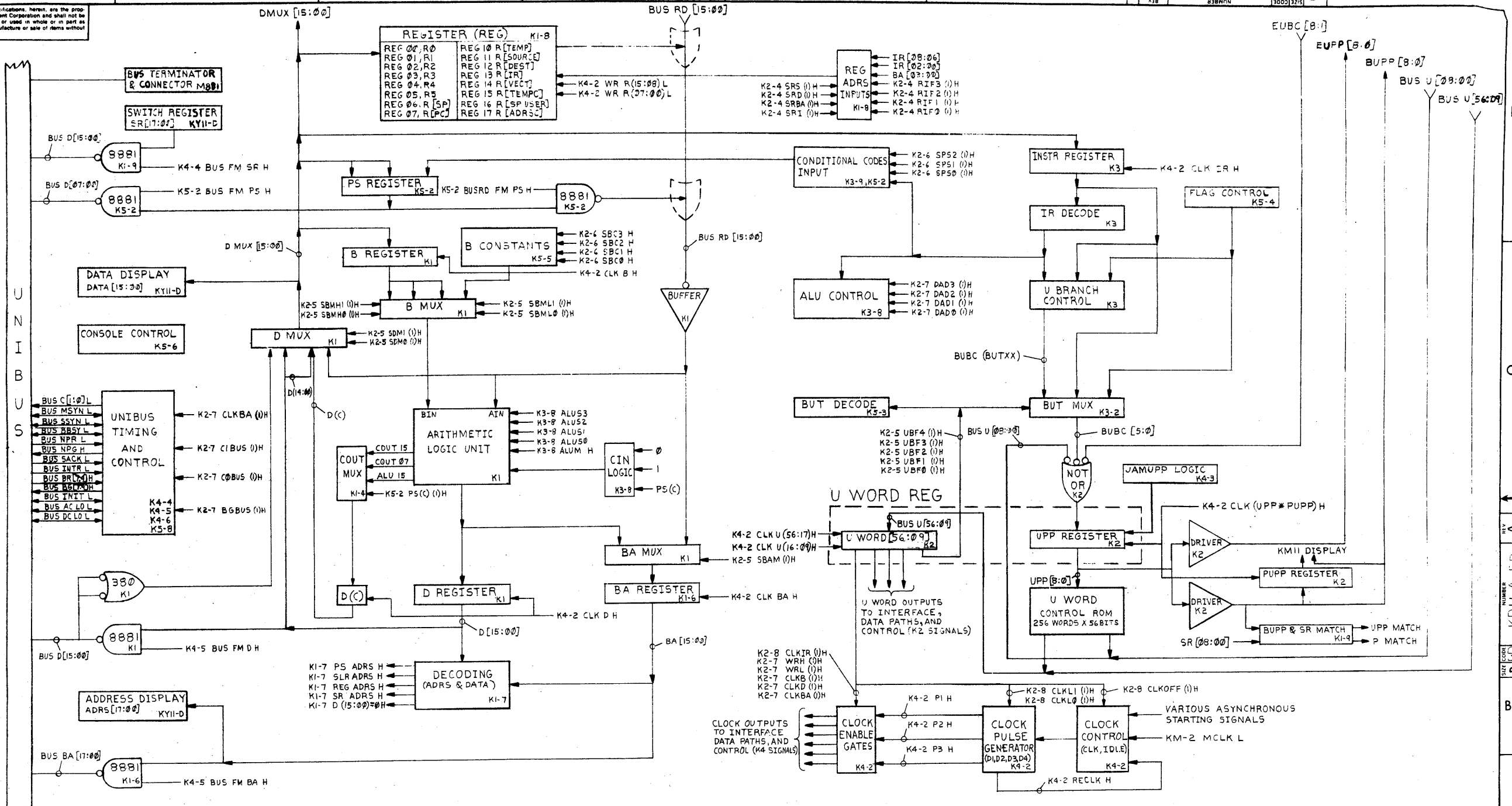
TITLE	SIZE CODE	NUMBER	RFV
KD11-A PROCESSOR	B DD	KD11-A	N

CUSTOMER PRINT SET					ELECTRICAL					CUSTOMER PRINT SET					MECHANICAL								
KD11-A					MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.	KD11-A					MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
X						1	D-BD-KD11-A-BD	A	2	BLOCK DIAGRAM, U WORD&TABLES		X						1	A-PL-KD11-A-Ø	A	1	PARTS LIST	
X							D-FD-KD11-A-FD	B	12	FLOW DIAGRAM		X						8	A-WF-7010230-0	#	1	AWT REVISION STATUS	
X							D-MU-KD11-A-MU	A	1	MODULE UTILIZATION									D AD 7010230-Ø-Ø	#	1	WIRED ASSY (KD11-A)	
C							K-WL-KD11-A-WL	N	33	WIRE & ETCH LIST (COMPLETE)								10	D-1A 7010085-0-0		1	BACK PLANE ASSY	
X						17	C-CS-541Ø9Ø4-Ø-1	#	1	CIRCUIT SCHEMATIC BACK PLANE									B-DD-2338-0		4	XOR TESTERS	
X						2	B-DD-M7231-Ø		2	DATA PATHS													
							D-CS-M7231-Ø-1	#	9	DATA PATHS CIRCUIT SCHEMATIC													
X						3	B-DD-M7232-Ø		2	U WORD													
							D-CS-M7232-Ø-1	#	12	U WORD CIRCUIT SCHEMATIC													
X						4	B-DD-M7233-Ø		2	IR DECODE													
							D-CS-M7233-Ø-1	#	9	IR DECODE CIRCUIT SCHEMATIC													
X						5	B-DD-M7234-Ø		2	TIMING													
							D-CS-M7234-Ø-1	#	6	TIMING CIRCUIT SCHEMATIC													
X						6	B-DD-M7235-Ø		2	STATUS													
							D-CS-M7235-Ø-1	#	8	STATUS CIRCUIT SCHEMATIC													
X						7	B-DD-M981-Ø		2	INTERNAL UNIBUS AND TERMINATOR													
						8	D-CS-54Ø9764-Ø-1	#	2	INTERNAL UNIBUS AND TERMINATOR CIRCUIT SCHEMATIC													
							B-DD-KY11-D	REF	2	KY11-D CONSOLE													
							11B-DD-KE11-E	REF	2	KE11-E (EIS)													
							12B-DD-KE11-F	REF	2	KE11-F (FIS)													
							13B-DD-KT11-D	REF	2	MEMORY MANAGEMENT													
C							14B-DD-KJ11-A	#	2	STACK LIMIT REGISTER													
C							15B-DD-KW11-L	#		LINE FREQUENCY CLOCK													
							16A-ML-KM11-Ø	REF	1	MAINTENANCE PANEL (W130, W131)													
X							D-BS-KM11-Ø-MB	#	3	MAINTENANCE BOARD (1&2)													
X							A-SS-5509081-0-1	#	1	SILK SCREEN (KD11-A)													
X							A-SS-5509081-0-1	#	1	SILK SCREEN (KT11-D, KE11-E, F)													

TITLE	KD11-A PROCESSOR	SIZE	CODE	NUMBER	REV
		B	DD	KD11-A	N
		SHEET 3 OF 3			

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08-7-1104 09 2
3303 3215



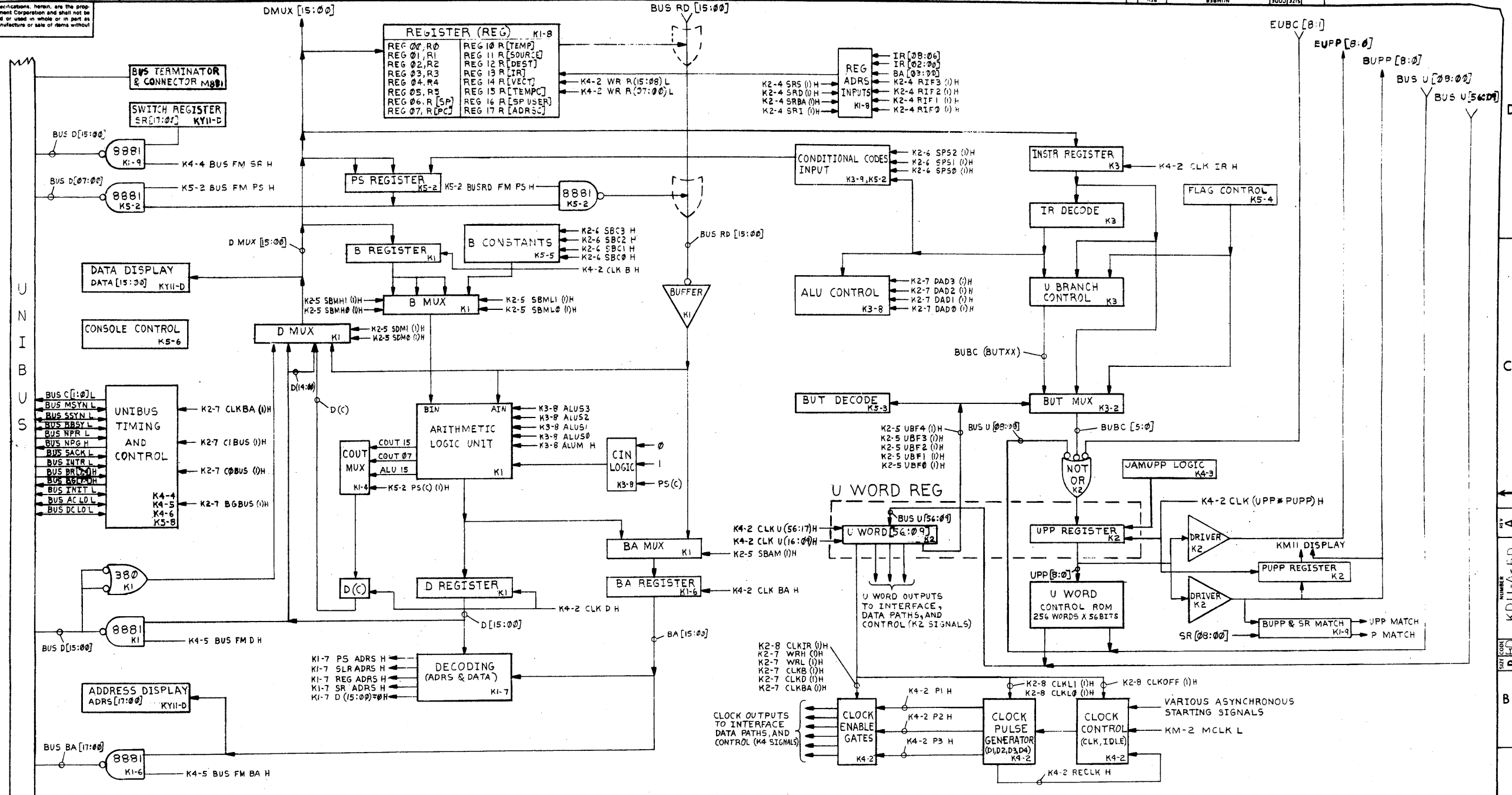
REVISIONS

CHK	CHANGE NO	REV
	0005	A

DATE: 2-14-73

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
POP11		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN: <i>R. Sullivan</i>	DATE: 7-21-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
DECIMALS ANGLES		CHKD: <i>H. Bourgeois</i>	DATE: 2-25-72	
.XXX = .005 .XX = .02 .X = .1		ENG: <i>H. Bourgeois</i>	DATE: 2-25-72	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROJ ENGR: <i>H. Bourgeois</i>	DATE: 2-25-72	
MATERIAL	NEXT HIGHER ASSY.	TITLE		
FINISH	B-DD-KDII-A	KDII-A PROCESSOR (BLOCK DIAGRAM)		
SCALE: NONE		SIZE CODE: DBD	NUMBER: KDII-A-80	REV. A
SHEET OF 2		DIST.		

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INTERFACE

DATA PATHS

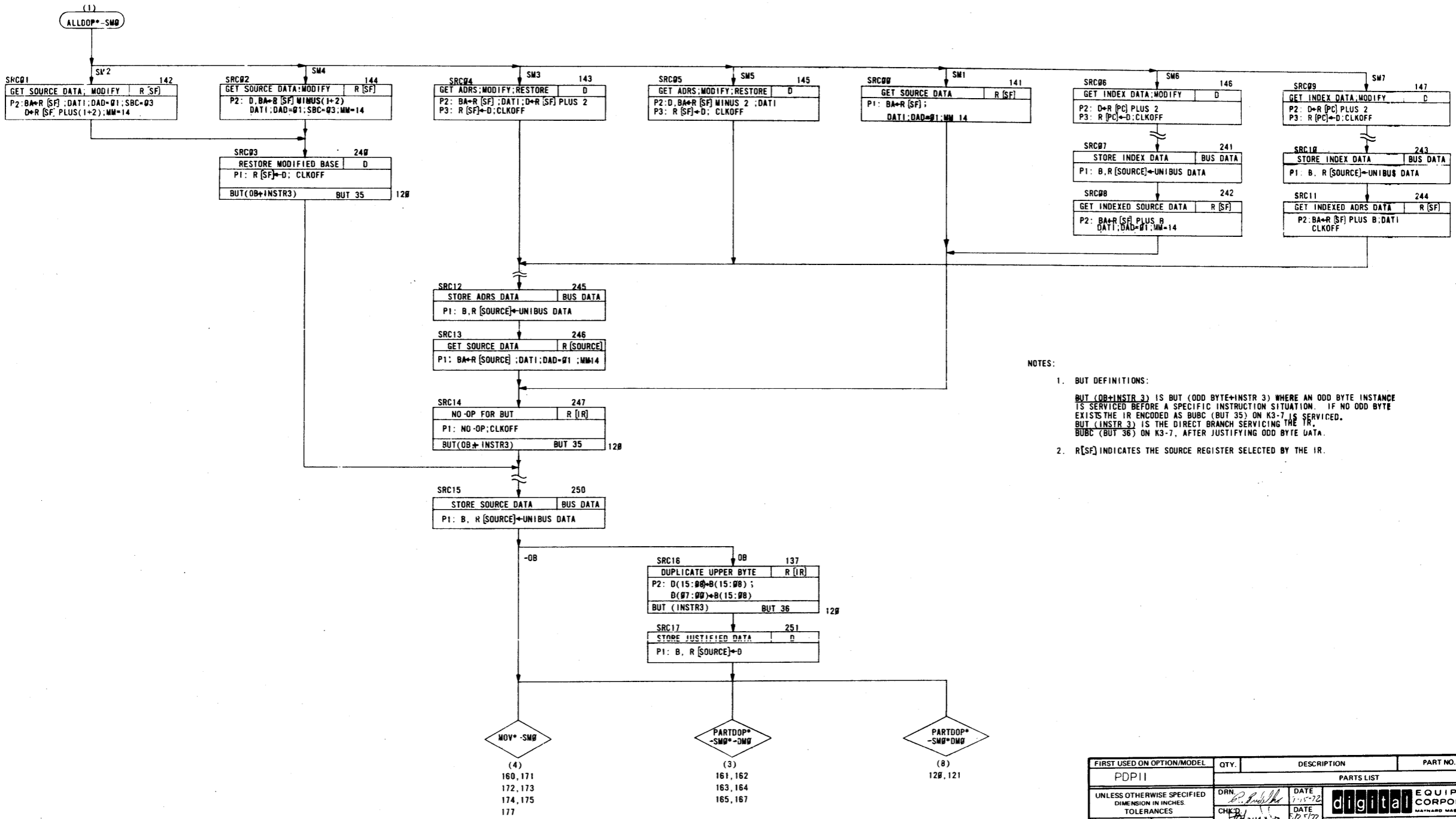
MICROCONTROL

BRUNING 40-522 15840

REV	DATE	BY	CHKD
1	2-14-73	D. LOUGHLIN	
2	2-14-73		

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PPH		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN: <i>[Signature]</i>	DATE: 7-21-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS .XXX ± .005	CHKD: <i>[Signature]</i>	DATE: 2-25-72	TITLE: K11-A PROCESSOR (BLOCK DIAGRAM)	
ANGLES ° ± 30'	PROJ ENGR: <i>[Signature]</i>	DATE: 2-25-72	MATERIAL: ---	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	REWORK: <i>[Signature]</i>	DATE: 2-25-72	FINISH: ---	
	NEXT HIGHER ASSY.	B-DD-K11-A	SIZE CODE: D BD	NUMBER: K11-A-80
	SCALE: N.E.		SHEET: 2	OF: 2

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NOTES:

- BUT DEFINITIONS:**
 BUT (OB+INSTR3) IS BUT (ODD BYTE+INSTR 3) WHERE AN ODD BYTE INSTANCE IS SERVICED BEFORE A SPECIFIC INSTRUCTION SITUATION. IF NO ODD BYTE EXISTS THE IR ENCODED AS BUBC (BUT 35) ON K3-7 IS SERVICED. BUT (INSTR 3) IS THE DIRECT BRANCH SERVICING THE IR, BUBC (BUT 36) ON K3-7, AFTER JUSTIFYING ODD BYTE DATA.
- R(SF) INDICATES THE SOURCE REGISTER SELECTED BY THE IR.**

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DRN. <i>B. B. B.</i> DATE 1-15-72		
TOLERANCES		CHK'D. DATE 1/25/72		
DECIMALS	ANGLES	ENG. DATE 1/25/72	TITLE FLOW DIAGRAM (SOURCE)	
.XXX = .005	± 0° 30'	DATE 1/25/72		
.XX = .02		DATE 1/25/72	REVISIONS (2)	
.X = .1		DATE 1/25/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 1/25/72		
MATERIAL	NEXT HIGHER ASSY.			
FINISH	SCALE	B-DD-KDII-A	SIZE CODE	NUMBER
	SHEET 2 OF 12	D/DFD	KDII-A-FD	REV B

REV	CHG	NO

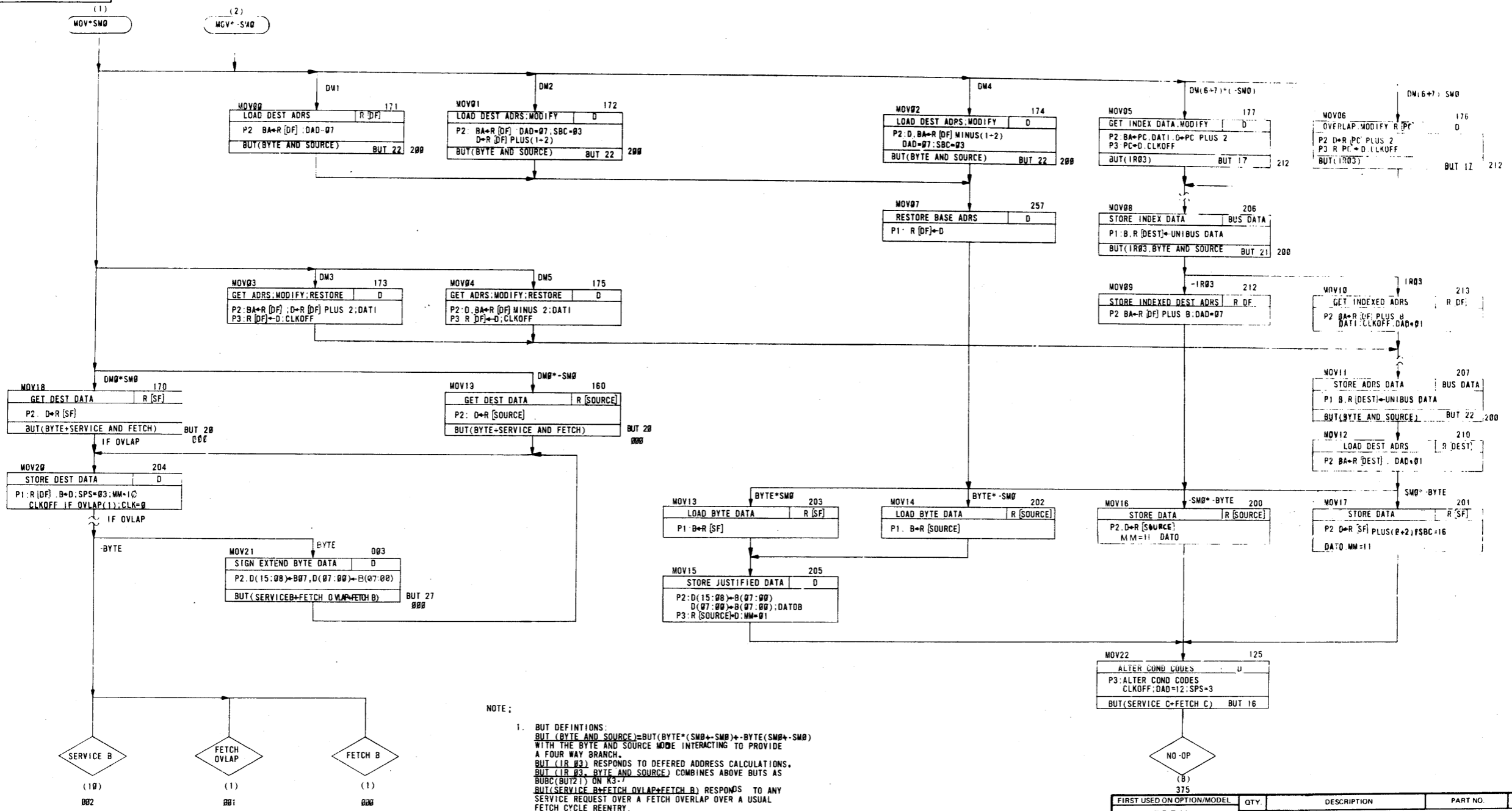
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D

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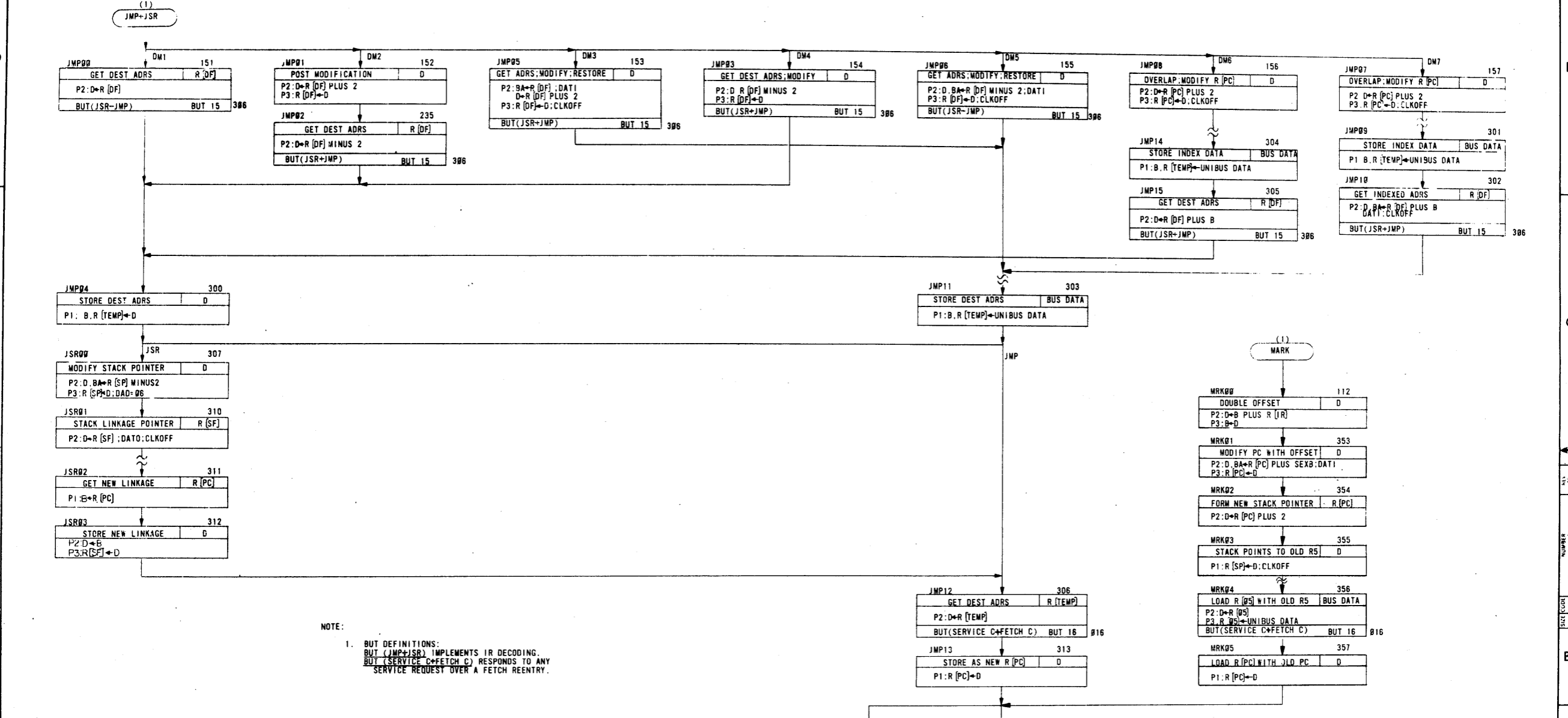
NOTE:

- BUT DEFINITIONS:
 BUT (BYTE AND SOURCE) = BUT (BYTE * (SMB + SMB) + BYTE (SMB + SMB))
 WITH THE BYTE AND SOURCE MODE INTERACTING TO PROVIDE A FOUR WAY BRANCH.
 BUT (IR #3) RESPONDS TO DEFERRED ADDRESS CALCULATIONS.
 BUT (IR #3, BYTE AND SOURCE) COMBINES ABOVE BUTS AS BUT (BUT #1) ON R3-7.
 BUT (SERVICE B + FETCH OVLAP + FETCH B) RESPONDS TO ANY SERVICE REQUEST OVER A FETCH OVERLAP OVER A USUAL FETCH CYCLE REENTRY.
 BUT (BYTE + SERVICE + FETCH) WILL JUSTIFY BYTE DATA PRIOR TO THE SERVICE OR FETCH BUT NOTED ABOVE.

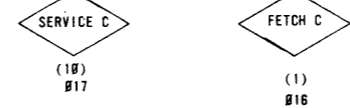
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
PDP11				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. DATE	DATE	 digital EQUIPMENT CORPORATION <small>MAYNARD MASSACHUSETTS</small>	
DECIMALS ANGLES	CHK'D DATE	DATE		
XXX = 005 XX = 02 X = 1	ENG. DATE	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	PROJ. ENG. DATE	DATE		
MATERIAL	NEXT HIGHER ASSY.	SCALE	SIZE CODE	NUMBER
FINISH	B-00-KD11-A	SHEET 4 OF 12	DFD	KD11-A-FD
TITLE FLOW DIAGRAM (MOV)				
REV 8				

REV	CHANGE NO	DESCRIPTION

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REV	NO
CHK	NO



FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN	DATE	digital EQUIPMENT CORPORATION TITLE FLOW DIAGRAM (JMP,JSR,MARK)
DECIMALS	ANGLES	CHKD	DATE	
.XXX = .005	10' 30"	ENG	DATE	
.XX = .02		PROL ENG	DATE	
.X = .1		PROD	DATE	
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBR
FINISH	SCALE		D F D	KD11-A-FD
SHEET 5 OF 12		REV B		(5)

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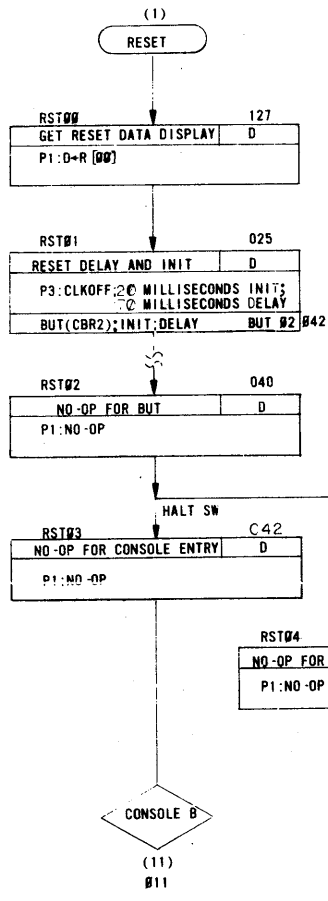
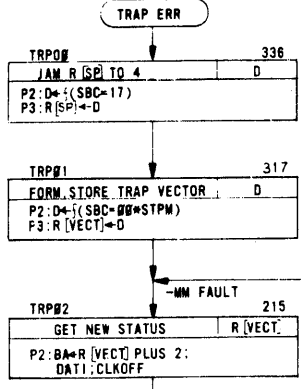
C

B

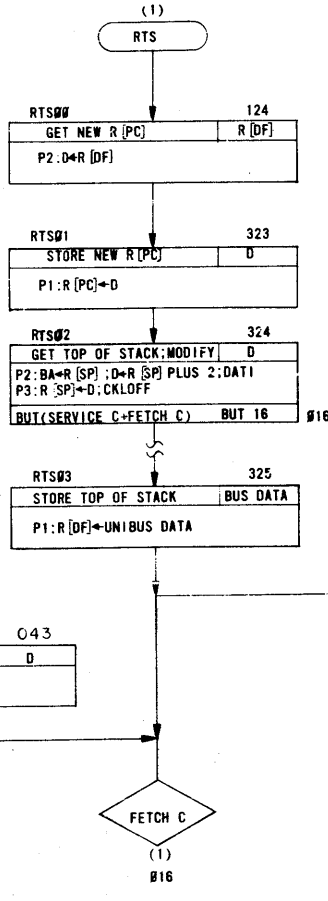
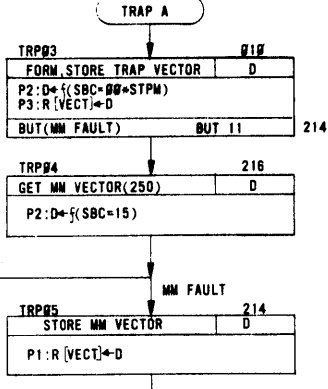
A

BRUNING 40-522 (1984)
 REF. SIONS
 CHG. NO.
 REV. 4

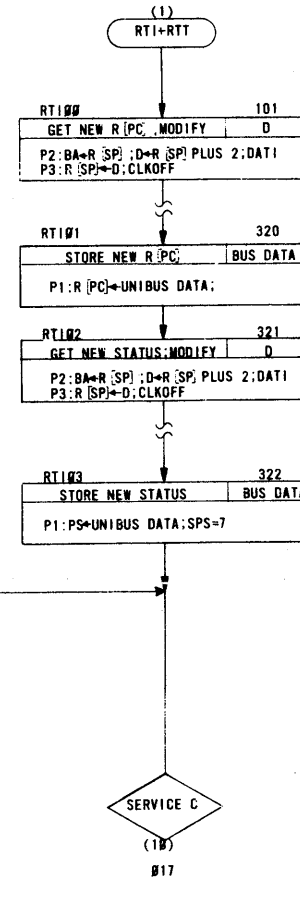
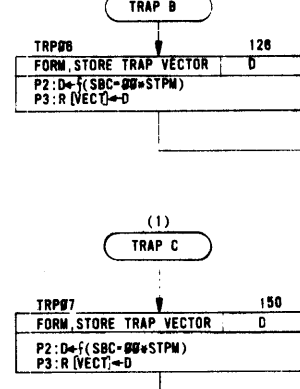
(JAMUPP)(RED ZONE +DUBBER)



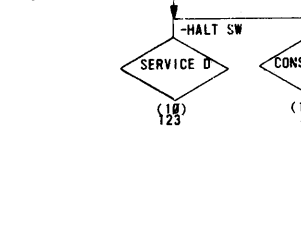
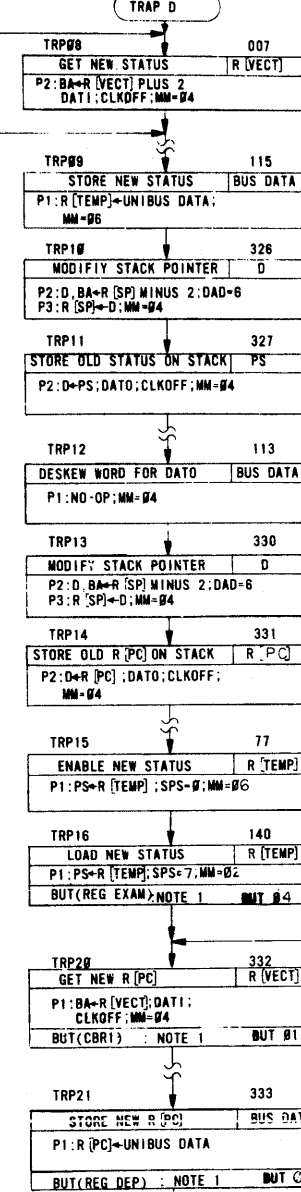
(10) TRAP A



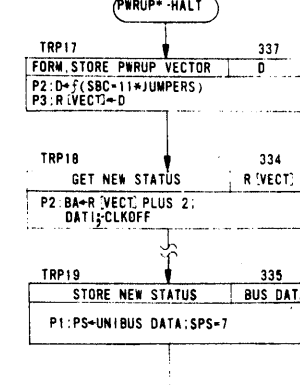
(1) TRAP B



(10) TRAP D



(JAMUPP) (PWRUP-HALT)



- NOTES.
1. THESE WORKING BUT'S ARE USED TO SEQUENTIALLY CLEAR VARIOUS TRAP REQUEST FLAGS, EXCEPT FOR BUT (CBR1) THEY DO NOT BRANCH THE FLOW.
 2. BUT DEFINITIONS:
 BUT (MM FAULT) IS ACTIVE FOR MEMORY MANAGEMENT FAULTS IN THE RT11-D OPTION.
 BUT (CBR2) SWINGS THE HALT SWITCH FOR A CONSOLE BUS REQUEST. A RETURN TO FETCH OCCURS IF THE HALT SWITCH IS NOT ACTIVE. THIS WORKING BUT ACTIVATES THE INIT AND RESTART DELAY.
 BUT (SERVICE C+FETCH C) RESPONDS TO ANY SERVICE REQUEST OVER A FETCH REENTRY.
 BUT (CBR1) PROVIDES FOR DIRECT CONSOLE LOOP ENTRY IF THE HALT SWITCH IS ACTIVE. THIS DIFFERS FROM THE USUAL ENTRY INTO SERVICE FROM THE TRAP SEQUENCE. SEE NOTE 1 ALSO.
 BUT (REG EXAM) } SEE NOTE 1.
 BUT (REG DEP) }

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES				
DECIMALS	ANGLES	TITLE		
XXX + 005	± 0 30	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
XX + 02		FLOW DIAGRAM (TRAPS, PWRUP RESET, RTI, RTS, RTT)		
X + 1		REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY		
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV
FINISH	E-30-KD11-A	D F D	KD11-A-FD	B
SCALE	SHEET 5 OF 12	DIST.		

D

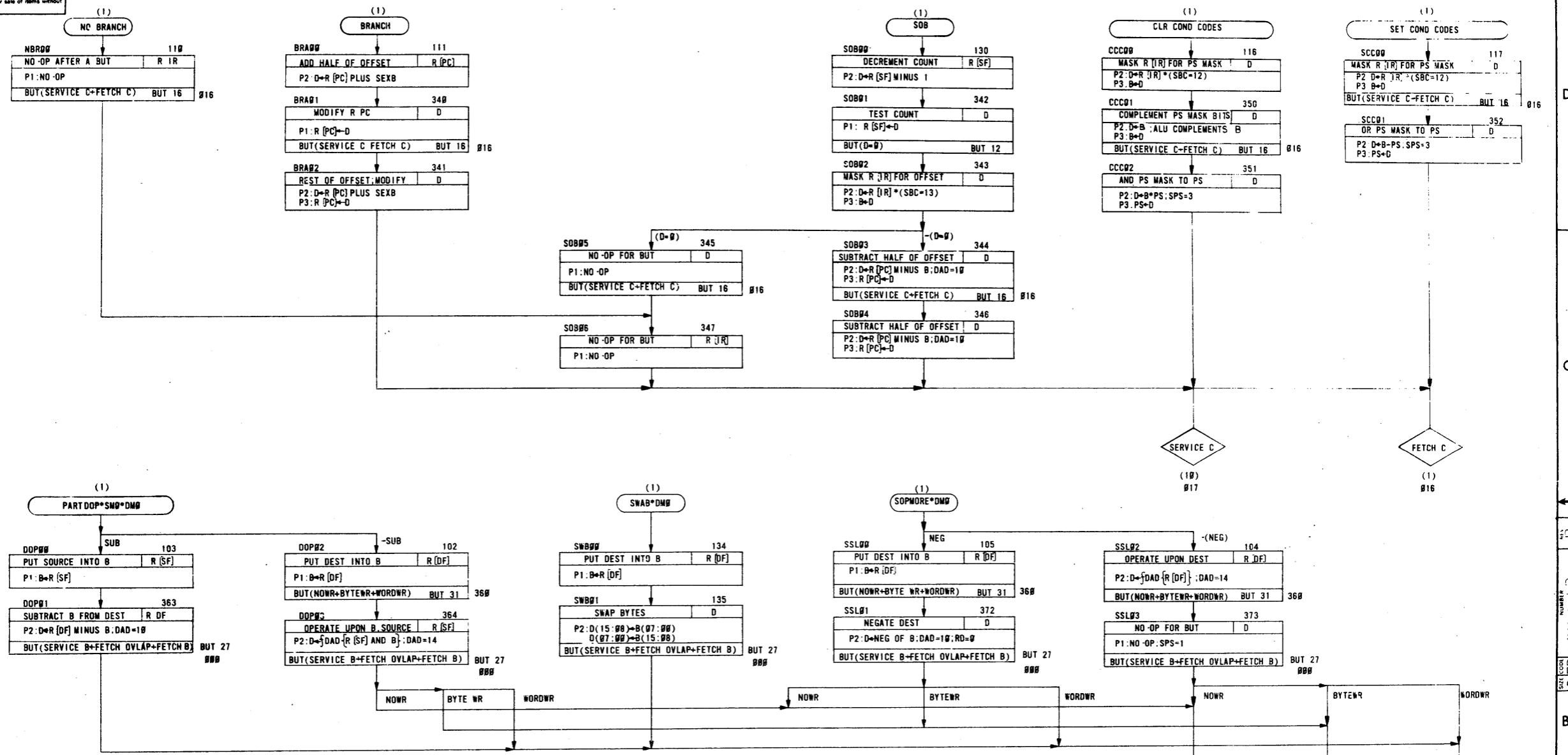
C

B

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BRUNING 40-522 (1984)
 REF. SIONS
 CHG. NO.
 REV. 4

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NOTE:
 1. BUT DEFINITIONS:
 BUT (SERVICE C+FETCH C) RESPONDS TO ANY SERVICE REQUEST OVER A FETCH REENTRY.
 BUT (D=0) SENSES A ZERO CONTENT OF THE D REGISTER.
 BUT (NOWR+BYTEWR+WORDWR) PROVIDES FOR DIFFERENT REGISTER WRITE OPERATION AS A FUNCTION OF IR DECODING.
 BUT (SERVICE B+FETCH OVLAP+FETCH B) RESPONDS TO ANY SERVICE REQUEST OVER A FETCH OVLAP OVER A USUAL FETCH REENTRY.

REV.	CHANGE NO.	CHK.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDPII				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN. DATE 7-15-72 CHK'D DATE 7/25/72 DATE 7/25/72 DATE 7/25/72 DATE 7/25/72 DATE 7/25/72 DATE 7/25/72		
DECIMALS .XXX - .005 .XX - .02 .X - .1	ANGLES 10° 30'	TITLE FLOW DIAGRAM BR. SOB CODES PART DOP SWAB SOPMORE *DMQ (7)		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		MATERIAL NEXT HIGHER ASSY. B-00-KC11-A SCALE SHEET 7 OF 12		
FINISH		SIZE CODE DFD	NUMBER KC11-A-FD	REV B

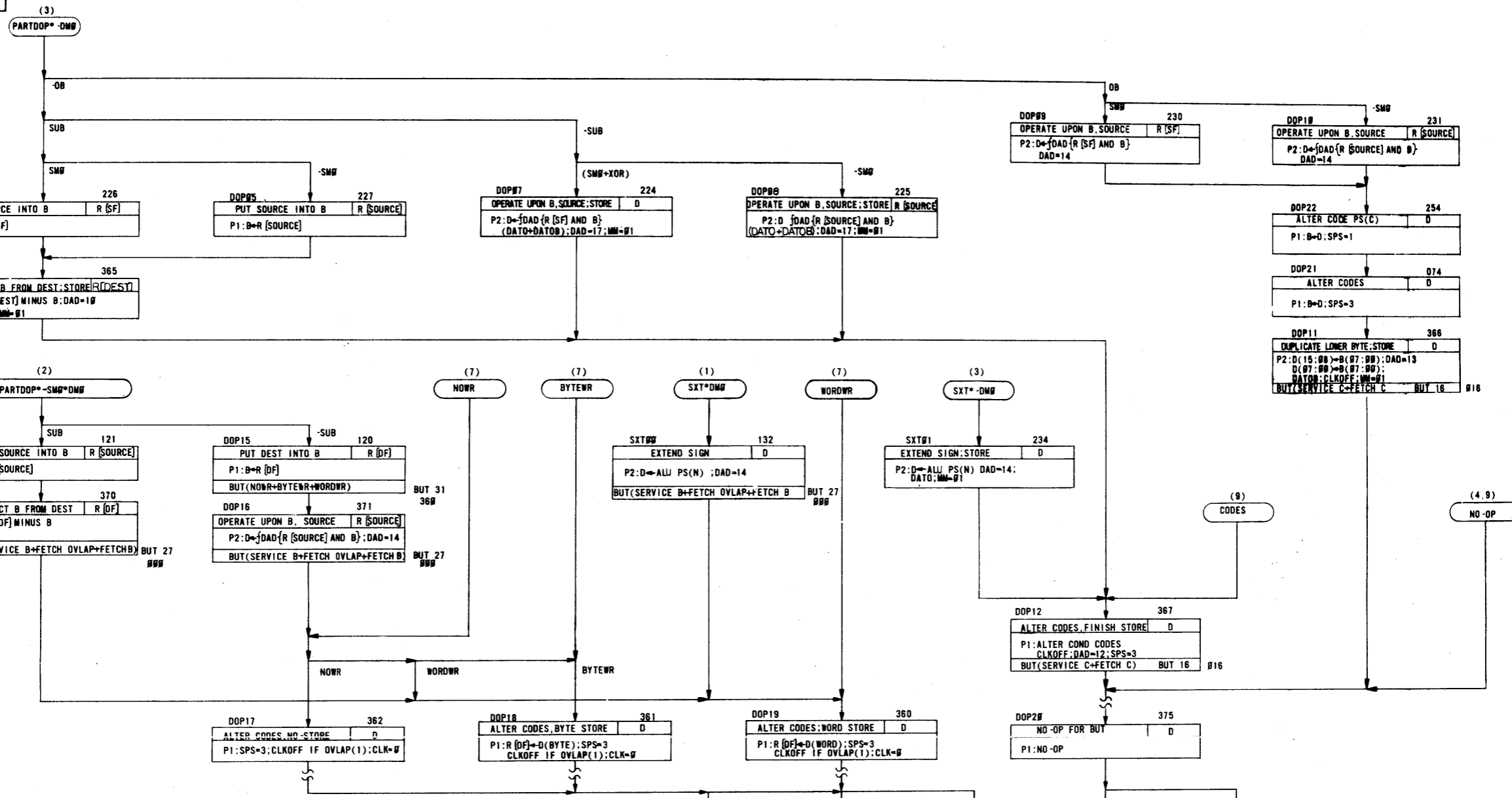
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D

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NOTE:
 1. BUT DEFINITIONS:
 BUT (SERVICE C+FETCH C) RESPONDS TO ANY SERVICE REQUEST OVER A FETCH REENTRY.
 BUT (SERVICE B+FETCH OVLAP+FETCH B) RESPONDS TO ANY SERVICE REQUEST OVER A FETCH OVLAP OVER A USUAL FETCH REENTRY.
 BUT (NOWR+BYTEWR+WORDWR) PROVIDES FOR DIFFERENT REGISTER WRITE OPERATION AS A FUNCTION OF IR DECODING.

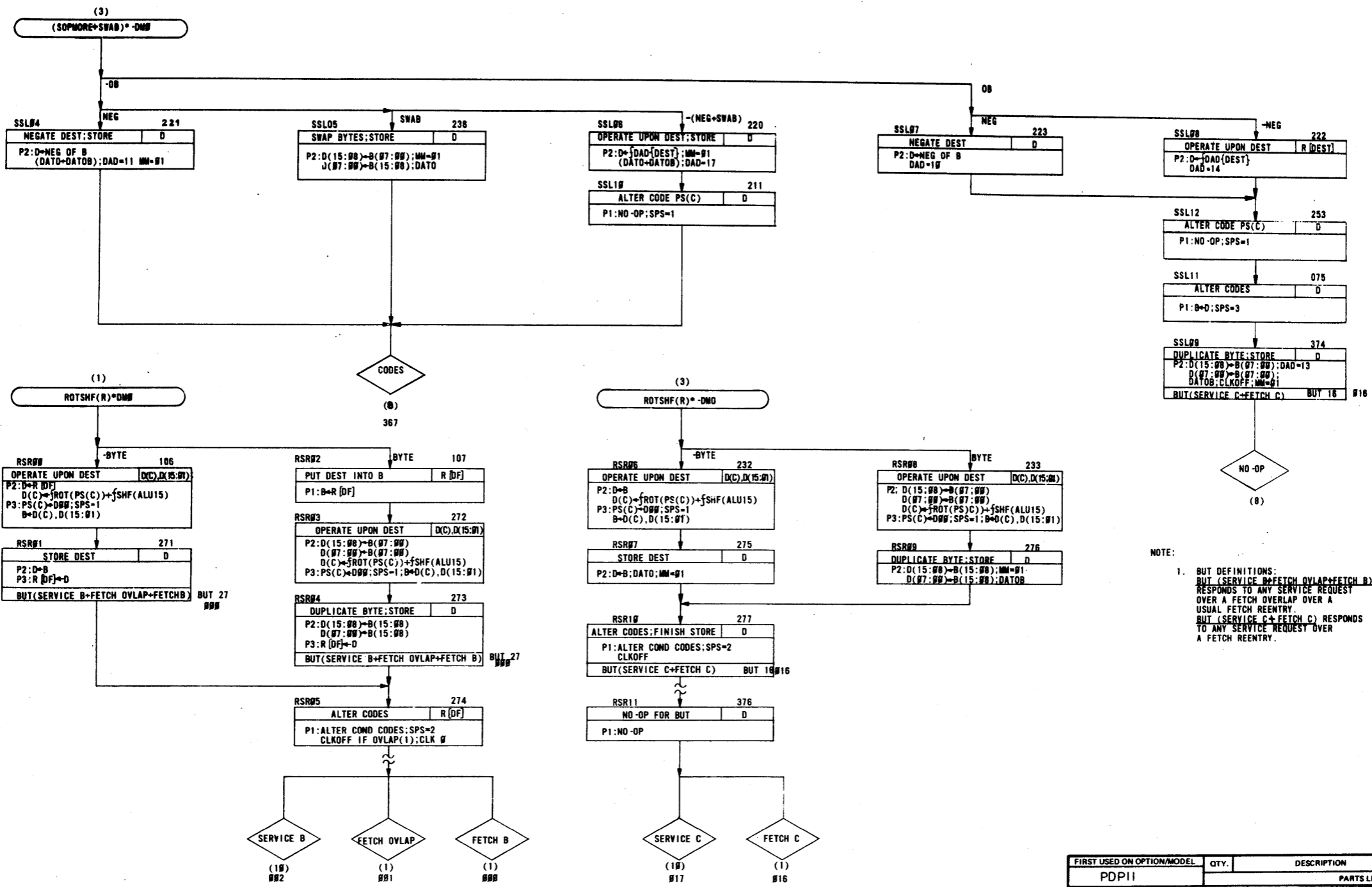


FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDPII				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN. <i>[Signature]</i>	DATE 2-15-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS .005	ANGLES ±0° 30'	DATE 2/25/72	TITLE FLOW DIAGRAM (PARTDOP, SXT)	
.XX .02		DATE 2/25/72		
.X .1		DATE 2/25/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. <i>[Signature]</i>	DATE 2-25-72		
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
FINISH	B-DD-KDII-A	D	FD	B
SCALE	SHEET 8 OF 12	DIST.		

REV. 102-B
 PART NO. PDPII-A-FD

A

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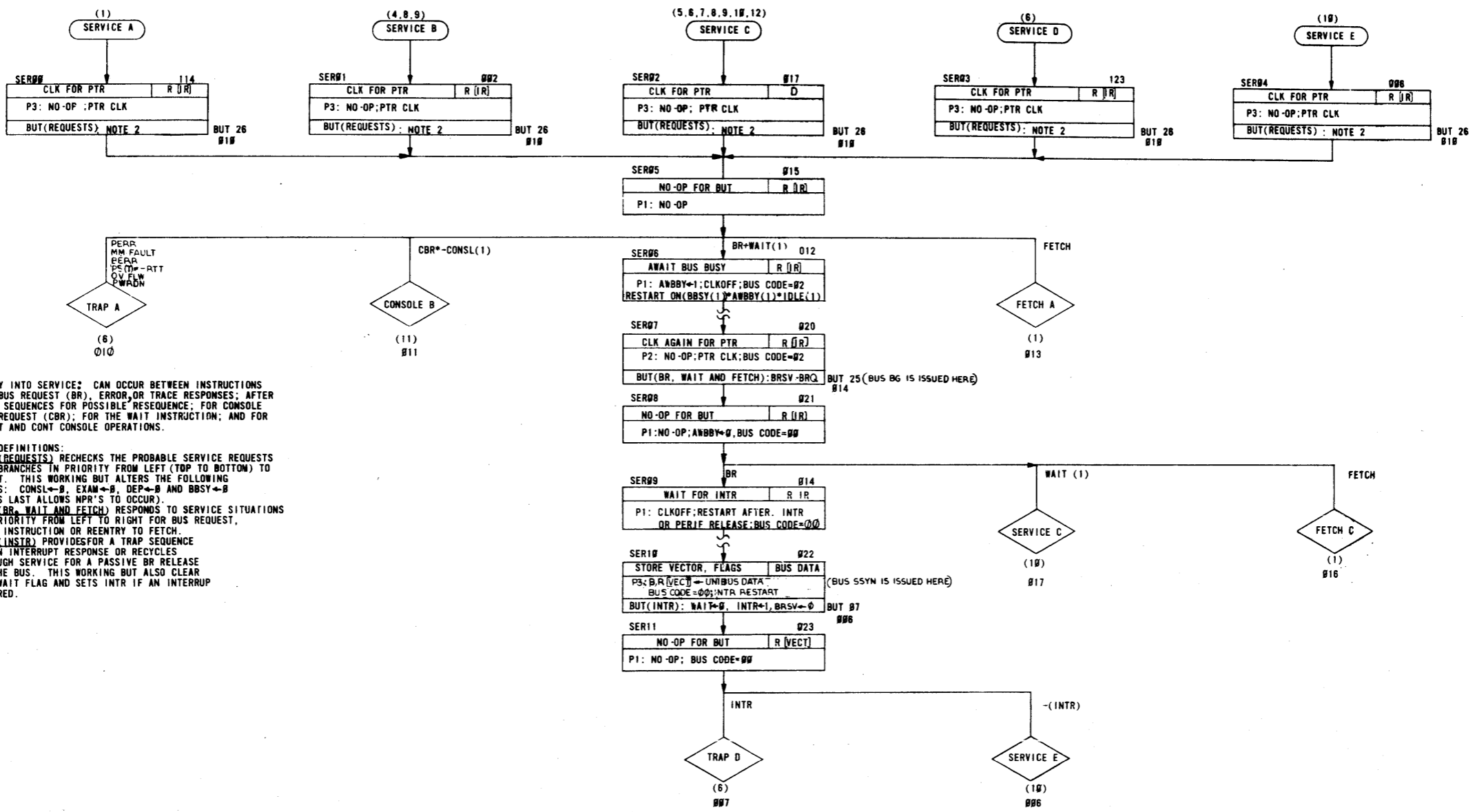


NOTE:
1. BUT DEFINITIONS:
BUT (SERVICE B+FETCH OVLAP+FETCH B) RESPONDS TO ANY SERVICE REQUEST OVER A FETCH OVLAP OVER A USUAL FETCH REENTRY.
BUT (SERVICE C+FETCH C) RESPONDS TO ANY SERVICE REQUEST OVER A FETCH REENTRY.

REV	CHANGE NO	CHK

FIRST USED ON OPTION/MODEL PDPII	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN 9-15-72	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS .XXX = .005	CHKD 9/25/72	DATE	TITLE FLOW DIAGRAM (SOPMORE+SWAB)*-DMO (ROTSHF(R)) (9)	
ANGLES .XX = .02	ENG 9/25/72	DATE	SIZE CODE NUMBER REV. D F D KDII-A-FD B	
.X = .1	DRN 9/25/72	DATE	SCALE B-DD-KDII-A	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD 9/25/72	DATE	SHEET 9 OF 12	
MATERIAL	NEXT HIGHER ASSY.	DIST.		
FINISH				

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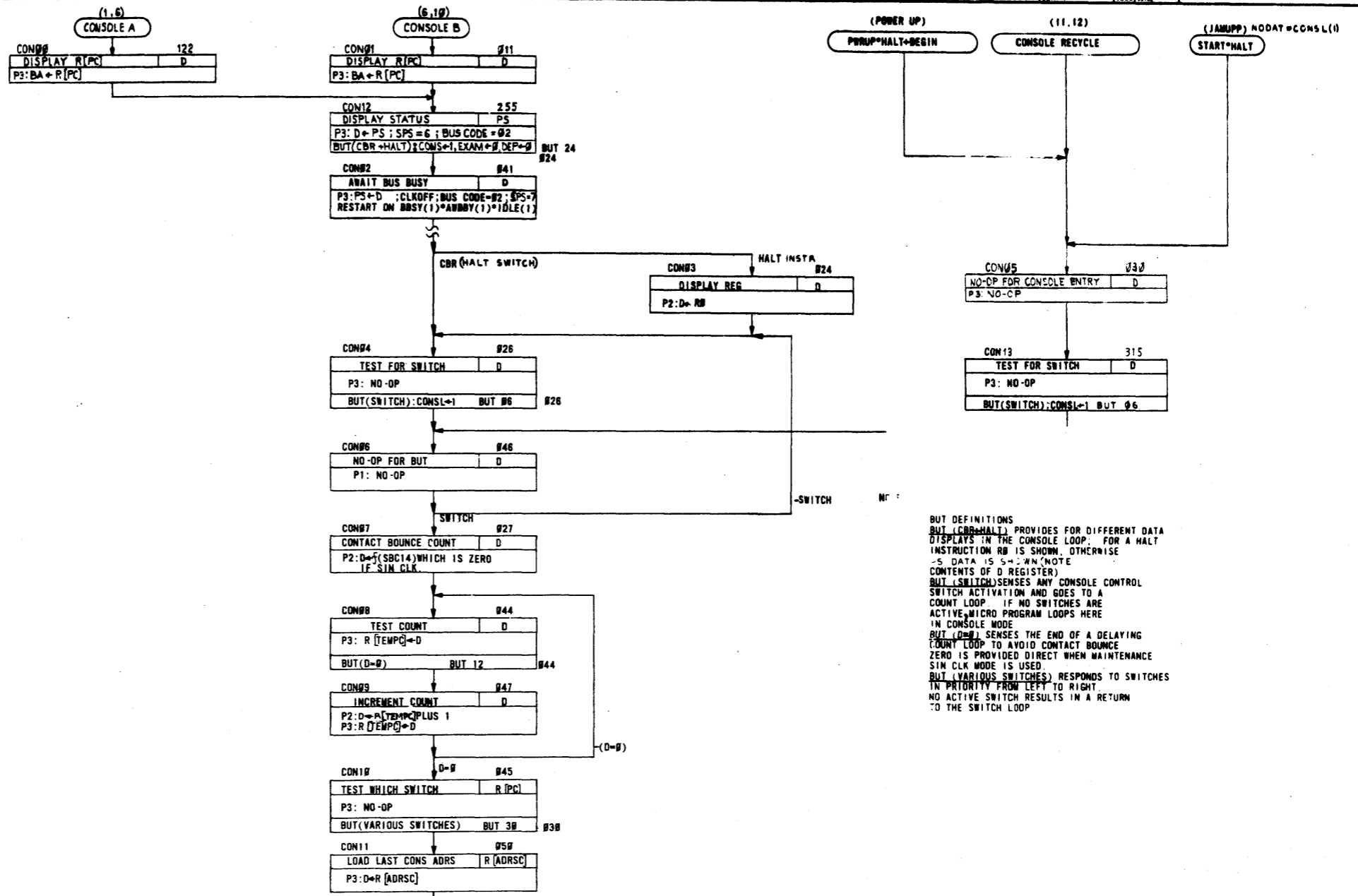


- NOTES:
- ENTRY INTO SERVICE: CAN OCCUR BETWEEN INSTRUCTIONS FOR BUS REQUEST (BR), ERROR OR TRACE RESPONSES; AFTER TRAP SEQUENCES FOR POSSIBLE RESEQUENCE; FOR CONSOLE BUS REQUEST (CBR); FOR THE WAIT INSTRUCTION; AND FOR START AND CONT CONSOLE OPERATIONS.
 - BUT DEFINITIONS:
BUT (REQUESTS) RECHECKS THE PROBABLE SERVICE REQUESTS AND BRANCHES IN PRIORITY FROM LEFT (TOP TO BOTTOM) TO RIGHT. THIS WORKING BUT ALTERS THE FOLLOWING FLAGS: CONSL←B, EXAM←B, DEP←B AND BBSY←B (THIS LAST ALLOWS NPR'S TO OCCUR).
BUT (BR, WAIT AND FETCH) RESPONDS TO SERVICE SITUATIONS IN PRIORITY FROM LEFT TO RIGHT FOR BUS REQUEST, WAIT INSTRUCTION OR REENTRY TO FETCH.
BUT (INTR) PROVIDES FOR A TRAP SEQUENCE AS AN INTERRUPT RESPONSE OR RECYCLES THROUGH SERVICE FOR A PASSIVE BR RELEASE OF THE BUS. THIS WORKING BUT ALSO CLEAR THE WAIT FLAG AND SETS INTR IF AN INTERRUPT OCCURED.

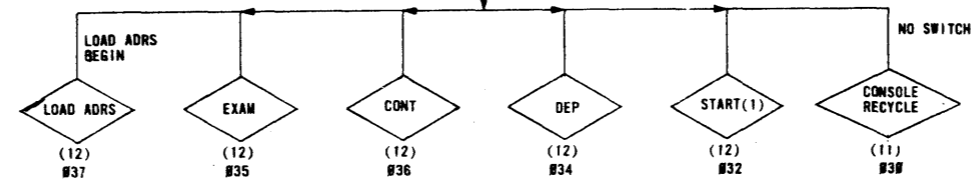
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDPII		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN <i>[Signature]</i>	DATE 9-15-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS .XXX - .006	CHKD <i>[Signature]</i>	DATE 9/25/72	TITLE	
ANGLES .XX - .02 ± 0° 30'	PROL <i>[Signature]</i>	DATE 9/25/72	FLOW DIAGRAM (SERVICE)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PRO <i>[Signature]</i>	DATE 9/25/72	(10)	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
FINISH	B-DD-KDII-A	D	FD	B
	SCALE	SHEET	10 OF 12	DIST.

REVISIONS
 CHANGE NO
 REV
 CHK

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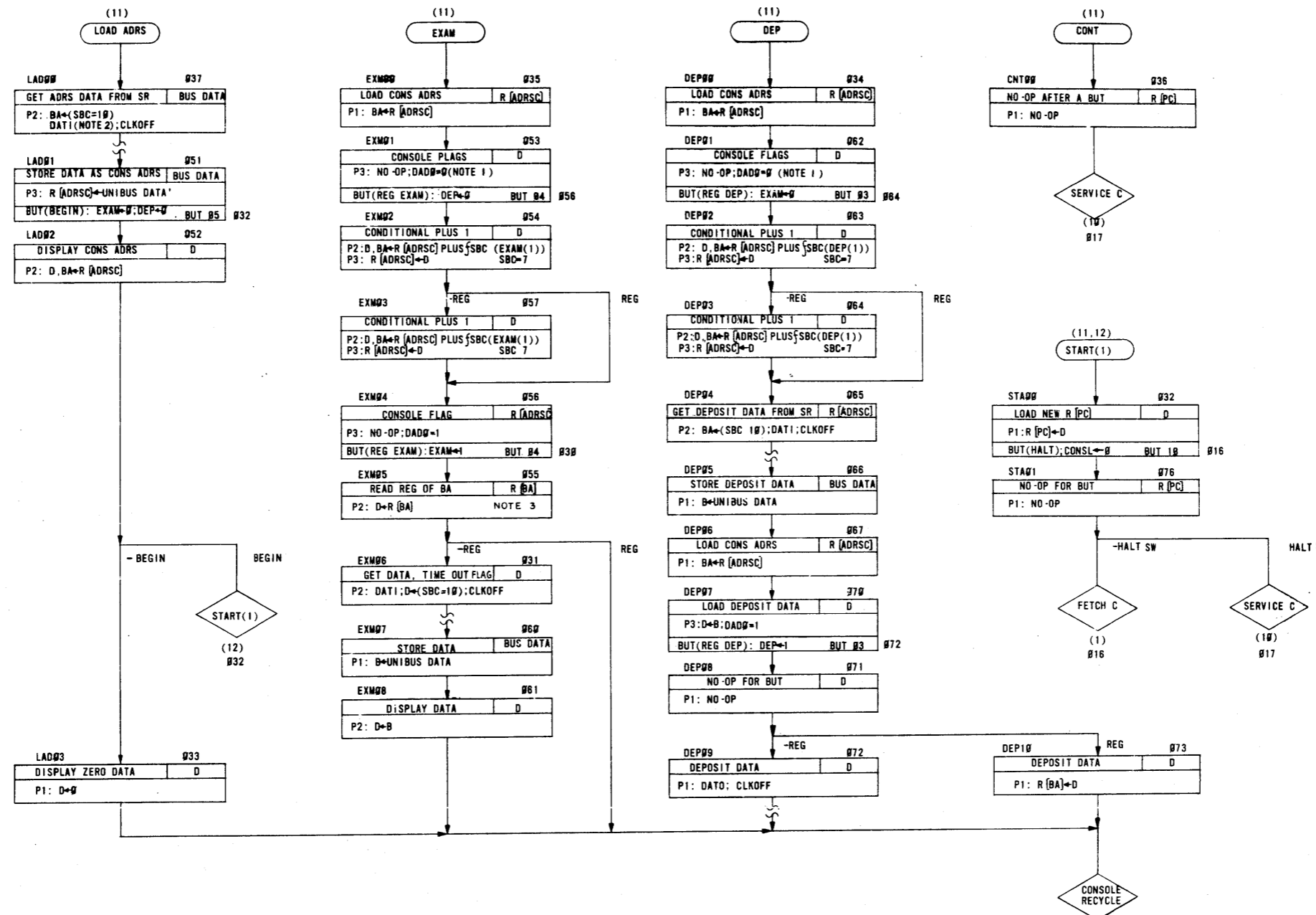
BUT DEFINITIONS
 BUT (CDB=HALT) PROVIDES FOR DIFFERENT DATA DISPLAYS IN THE CONSOLE LOOP. FOR A HALT INSTRUCTION RB IS SHOWN, OTHERWISE -S DATA IS SHOWN (NOTE CONTENTS OF D REGISTER)
 BUT (SWITCH) SENSES ANY CONSOLE CONTROL SWITCH ACTIVATION AND GOES TO A COUNT LOOP. IF NO SWITCHES ARE ACTIVE, MICRO PROGRAM LOOPS HERE IN CONSOLE MODE
 BUT (D=0) SENSES THE END OF A DELAYING COUNT LOOP TO AVOID CONTACT BOUNCE ZERO IS PROVIDED DIRECT WHEN MAINTENANCE SIM CLK MODE IS USED
 BUT (VARIOUS SWITCHES) RESPONDS TO SWITCHES IN PRIORITY FROM LEFT TO RIGHT NO ACTIVE SWITCH RESULTS IN A RETURN TO THE SWITCH LOOP



FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN. <i>[Signature]</i> DATE 9-15-72		
DECIMALS	ANGLES	CHK'D. <i>[Signature]</i> DATE 9/25/72		
.XXX - .005	±0° 30'	ENG. <i>[Signature]</i> DATE 9/27/72	TITLE FLOW DIAGRAM (CONSOLE LOOP)	
.XX - .02		MOD. ENG. <i>[Signature]</i> DATE 9/27/72		
.X - .1		PROJ. ENGR. <i>[Signature]</i> DATE 9-21-72	MATERIAL NEXT HIGHER ASSY.	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL		B-00-KD11-A	SIZE CODE	NUMBER
FINISH		SCALE	D FD	KD11-A-FD
		SHEET 11 OF 12	DIST.	

REVISIONS
 REV. NO.
 CHG. NO.

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- NOTES:
- BUT DEFINITIONS.
 BUT (BEGIN) IS A WORKING BUT THAT CLEARS THE EXAM AND DEP FLAGS AND REACTS TO A BEGIN SWITCH BY SEQUENCING A START OPERATION.
 BUT (REG EXAM) RESPONDES TO REG CONSOLE OPERATION FOR PROPER INCREMENTATION AND DATA DISPLAY. THIS WORKING BUT ALSO ORDERS INCREMENTING FLAGS.
 BUT (REG DEP) RESPONDES TO REG CONSOLE OPERATION FOR PROPER INCREMENTATION AND DATA STORAGE. THIS WORKING BUT ALSO ORDERS INCREMENTING FLAGS.
 BUT (HALT) SENSES THE HALT SWITCH AND EITHER GOES TO FETCH (ENABLE POSITION) OR THROUGH SERVICE TO CONSOLE (HALT POSITION).
 - PROCESSOR RESPONDES TO SR ADDRESS (PROVIDED BY SBC=10) UNLESS BEGIN SWITCH INPUT IS ACTIVE.
 - REGISTER SELECTION AS A FUNCTION OF BA [03=00].

REV.	CHANGE NO.	CHK

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11			PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES:		DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
TOLERANCES		CHK'D	DATE	TITLE	
DECIMALS	ANGLES	ENG	DATE	FLOW DIAGRAM	
.XXX - .005	± 0° 30'	PROJ. ENG.	DATE	(CONSOLE SWITCHES)	
.XX - .02		PROJ. MGR.	DATE		
.X - .1		DATE	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROJ. DATE	DATE		
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH		B-DD-KD11-A		DFD	KD11-A-FD
		SCALE		SHEET	12 OF 12
		DIST.			

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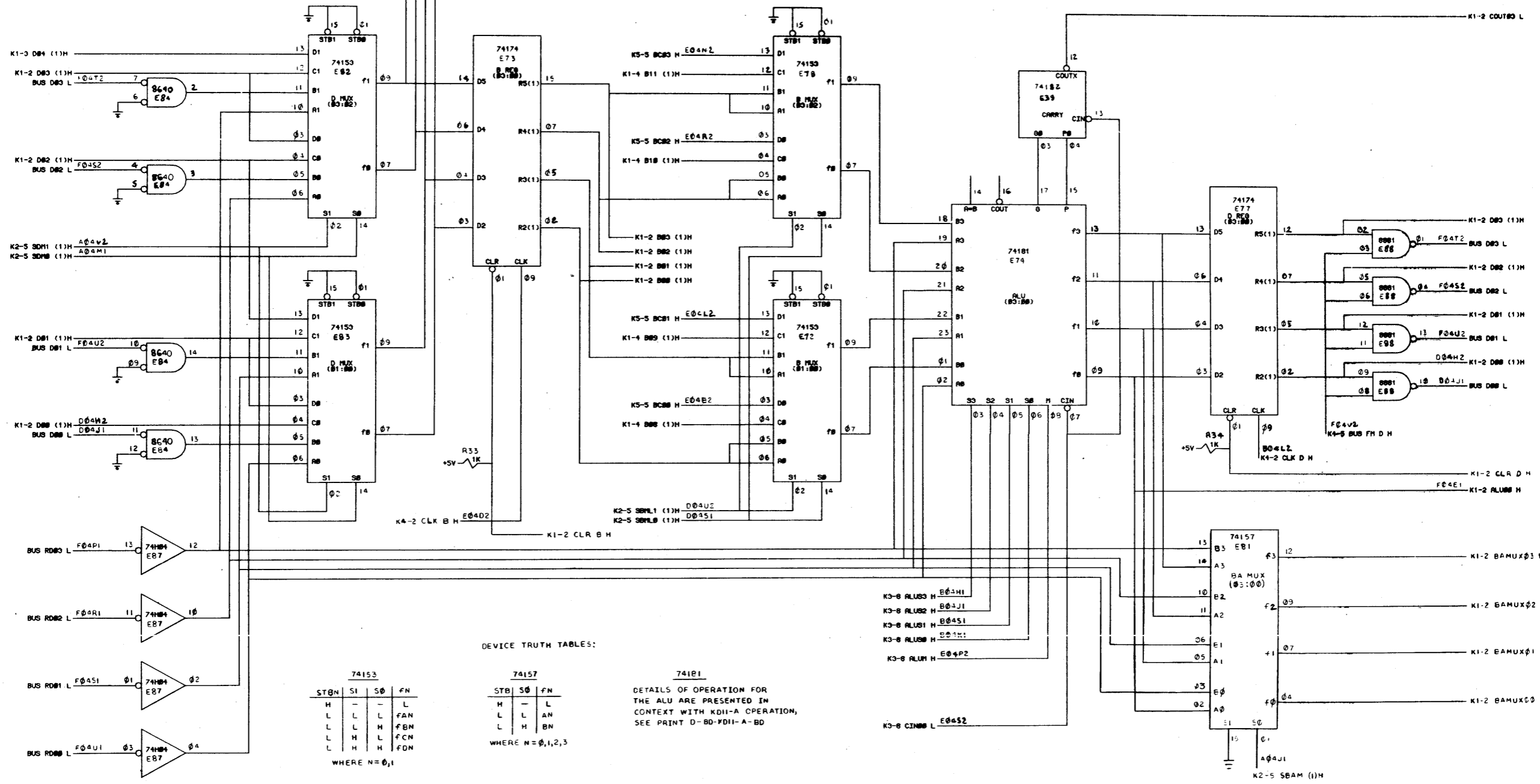
E04J2 K1-2 DMUXB3 H
 E04M1 K1-2 DMUXB6 H
 E04J2 K1-2 DMUXB1 H
 E04L1 K1-2 DMUXB8 H

D

C

B

A



DEVICE TRUTH TABLES:

74153			
STB _N	S ₁	S ₀	F _N
H	-	-	L
L	L	L	FAN
L	L	H	FBN
L	H	L	FCN
L	H	H	FDN

WHERE N = 0,1

74157		
STB	S ₀	F _N
H	-	L
L	L	AN
L	H	BN

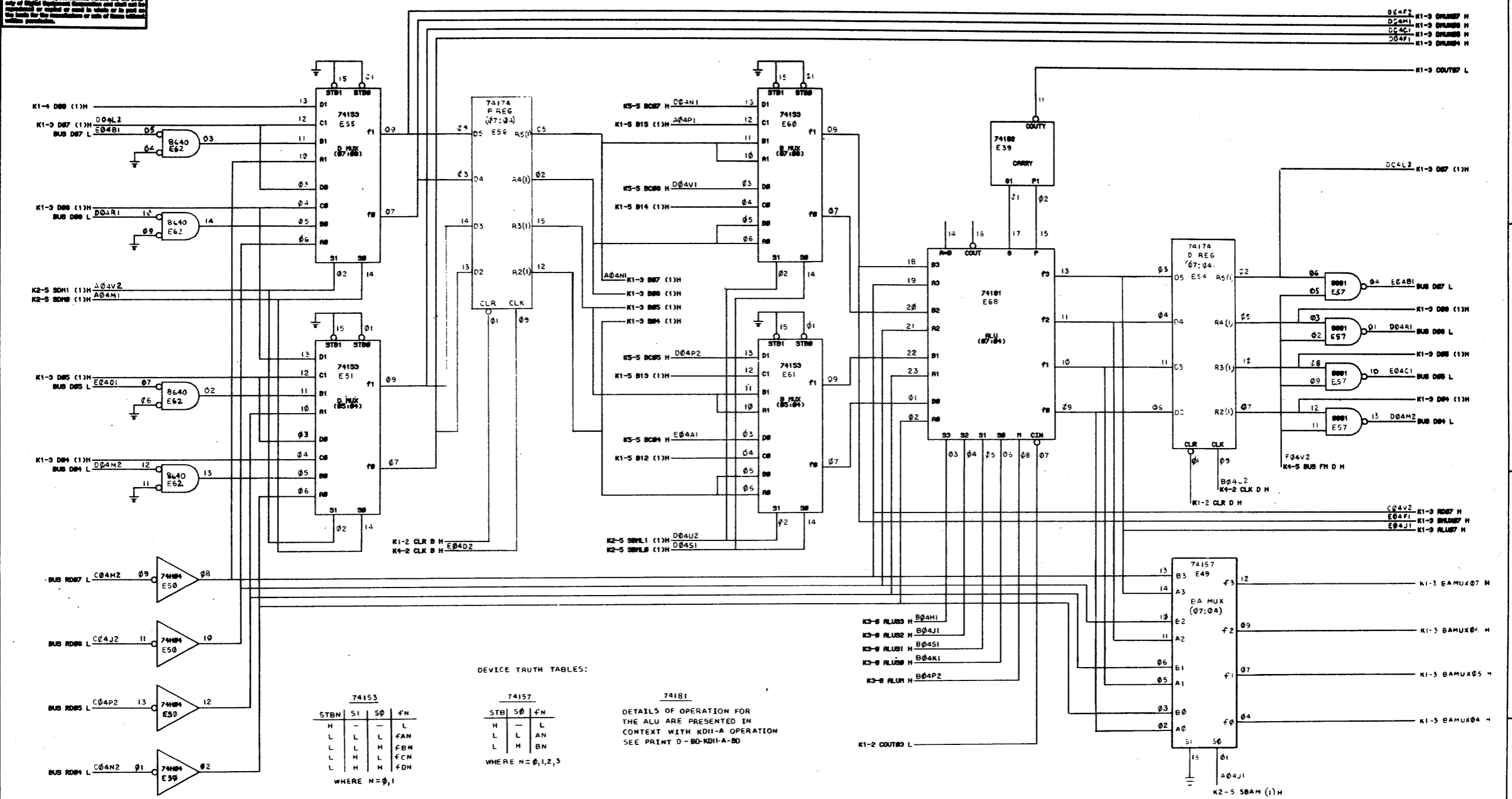
WHERE N = 0,1,2,3

74181
 DETAILS OF OPERATION FOR THE ALU ARE PRESENTED IN CONTEXT WITH K01-A OPERATION, SEE PRINT D-BD-P011-A-BD

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± 1/64 ± 90° FINE SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	DATE: 7-3-72	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
	TITLE: DATA PATHS	
FIRST USED ON: PDP11	SCALE: 1/1	NUMBER: N7201-0-1
SHEET: 2 OF 5	DIST.:	

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D
C
B
A



DEVICE TRUTH TABLES:

74153			
STBN	S1	S0	FN
H	-	-	L
L	L	L	FN
L	L	H	FN
L	H	L	FN
L	H	H	FN

WHERE N = 0,1

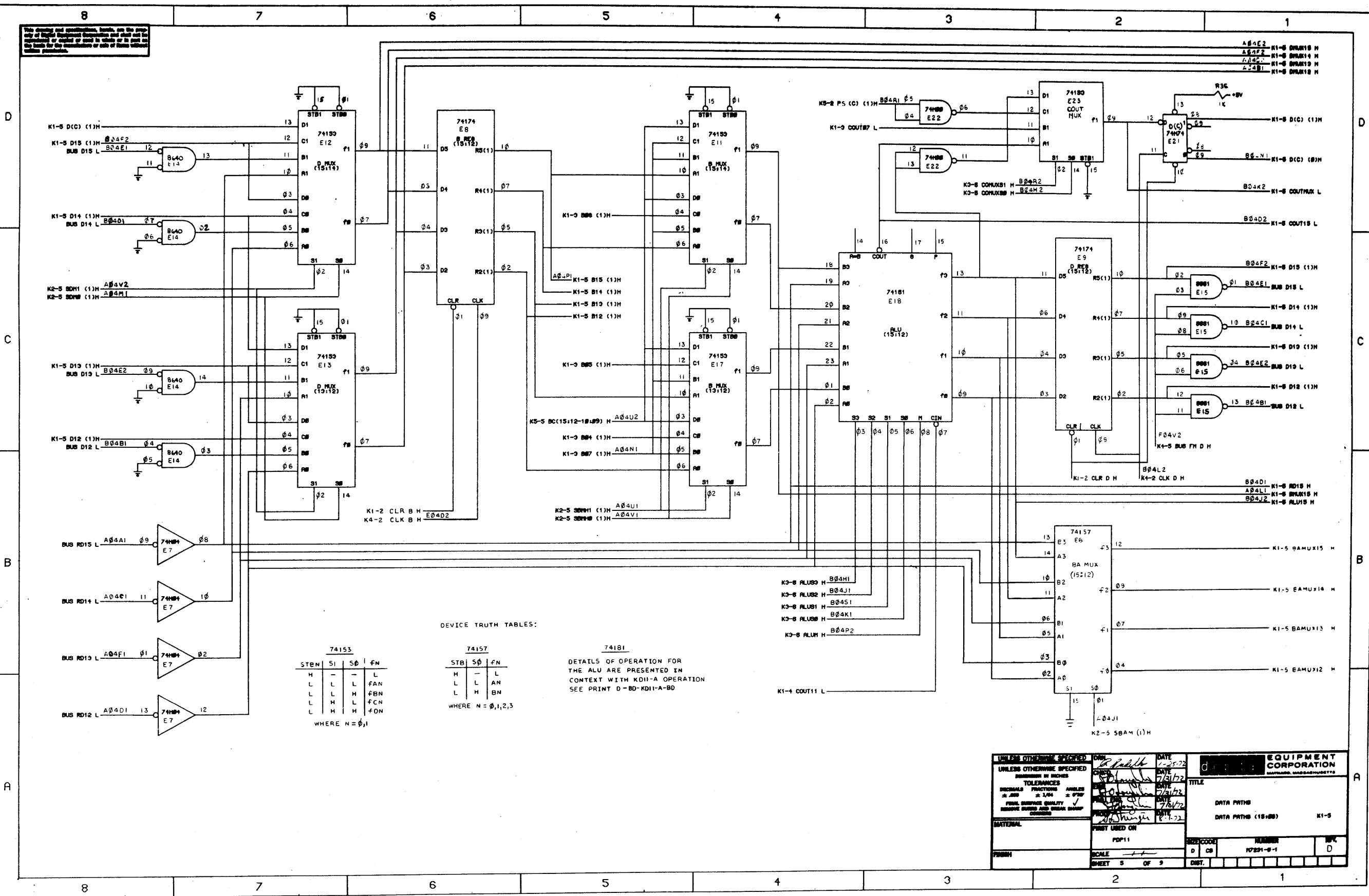
74157		
STB	S0	FN
H	-	L
L	L	AN
L	H	BN

WHERE N = 0,1,2,3

74181
 DETAILS OF OPERATION FOR THE ALU ARE PRESENTED IN CONTEXT WITH K011-A OPERATION SEE PRINT D - BD-K011-A-BD

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE AS SHOWN	DATE	7-31-72	EQUIPMENT CORPORATION
	DATE	7/31/72	
REVISIONS	BY	DATE	TITLE
1	W. J. ...	7/31/72	DATA PATHS
2	...	7/31/72	DATA PATHS (07:04) K1-3
3	...	7/31/72	
4	...	7/31/72	
5	...	7/31/72	
6	...	7/31/72	
7	...	7/31/72	
8	...	7/31/72	
9	...	7/31/72	
10	...	7/31/72	
11	...	7/31/72	
12	...	7/31/72	
13	...	7/31/72	
14	...	7/31/72	
15	...	7/31/72	
16	...	7/31/72	
17	...	7/31/72	
18	...	7/31/72	
19	...	7/31/72	
20	...	7/31/72	
21	...	7/31/72	
22	...	7/31/72	
23	...	7/31/72	
24	...	7/31/72	
25	...	7/31/72	
26	...	7/31/72	
27	...	7/31/72	
28	...	7/31/72	
29	...	7/31/72	
30	...	7/31/72	
31	...	7/31/72	
32	...	7/31/72	
33	...	7/31/72	
34	...	7/31/72	
35	...	7/31/72	
36	...	7/31/72	
37	...	7/31/72	
38	...	7/31/72	
39	...	7/31/72	
40	...	7/31/72	
41	...	7/31/72	
42	...	7/31/72	
43	...	7/31/72	
44	...	7/31/72	
45	...	7/31/72	
46	...	7/31/72	
47	...	7/31/72	
48	...	7/31/72	
49	...	7/31/72	
50	...	7/31/72	
51	...	7/31/72	
52	...	7/31/72	
53	...	7/31/72	
54	...	7/31/72	
55	...	7/31/72	
56	...	7/31/72	
57	...	7/31/72	
58	...	7/31/72	
59	...	7/31/72	
60	...	7/31/72	
61	...	7/31/72	
62	...	7/31/72	
63	...	7/31/72	
64	...	7/31/72	
65	...	7/31/72	
66	...	7/31/72	
67	...	7/31/72	
68	...	7/31/72	
69	...	7/31/72	
70	...	7/31/72	
71	...	7/31/72	
72	...	7/31/72	
73	...	7/31/72	
74	...	7/31/72	
75	...	7/31/72	
76	...	7/31/72	
77	...	7/31/72	
78	...	7/31/72	
79	...	7/31/72	
80	...	7/31/72	
81	...	7/31/72	
82	...	7/31/72	
83	...	7/31/72	
84	...	7/31/72	
85	...	7/31/72	
86	...	7/31/72	
87	...	7/31/72	
88	...	7/31/72	
89	...	7/31/72	
90	...	7/31/72	
91	...	7/31/72	
92	...	7/31/72	
93	...	7/31/72	
94	...	7/31/72	
95	...	7/31/72	
96	...	7/31/72	
97	...	7/31/72	
98	...	7/31/72	
99	...	7/31/72	
100	...	7/31/72	

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DEVICE TRUTH TABLES:

74153

STEN	SI	S0	FN
H	-	-	L
L	L	L	FAN
L	L	H	FBN
L	H	L	FCN
L	H	H	FON

WHERE N = 0,1

74157

STB	S0	FN
H	-	L
L	L	AN
L	H	BN

WHERE N = 0,1,2,3

74181
 DETAILS OF OPERATION FOR THE ALU ARE PRESENTED IN CONTEXT WITH KDII-A OPERATION SEE PRINT D-BD-KDII-A-BD

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES DECIMAL FRACTIONS ANGLES ± .005 ± .004 ± .020 FINISH SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	DATE 12-28-72	EQUIPMENT CORPORATION MILFORD, MASSACHUSETTS
	DATE 7/31/72	
MATERIAL	DATE 7/21/72	TITLE DATA PATHS DATA PATHS (18-B00) K1-5
	DATE 7/28/72	
PRINTED ON PDF11	DATE 8-1-72	SIZE CODE D CB
FIGURE 1	DATE 8-1-72	NUMBER 10231-0-1
SHEET 5 OF 9	DIST.	

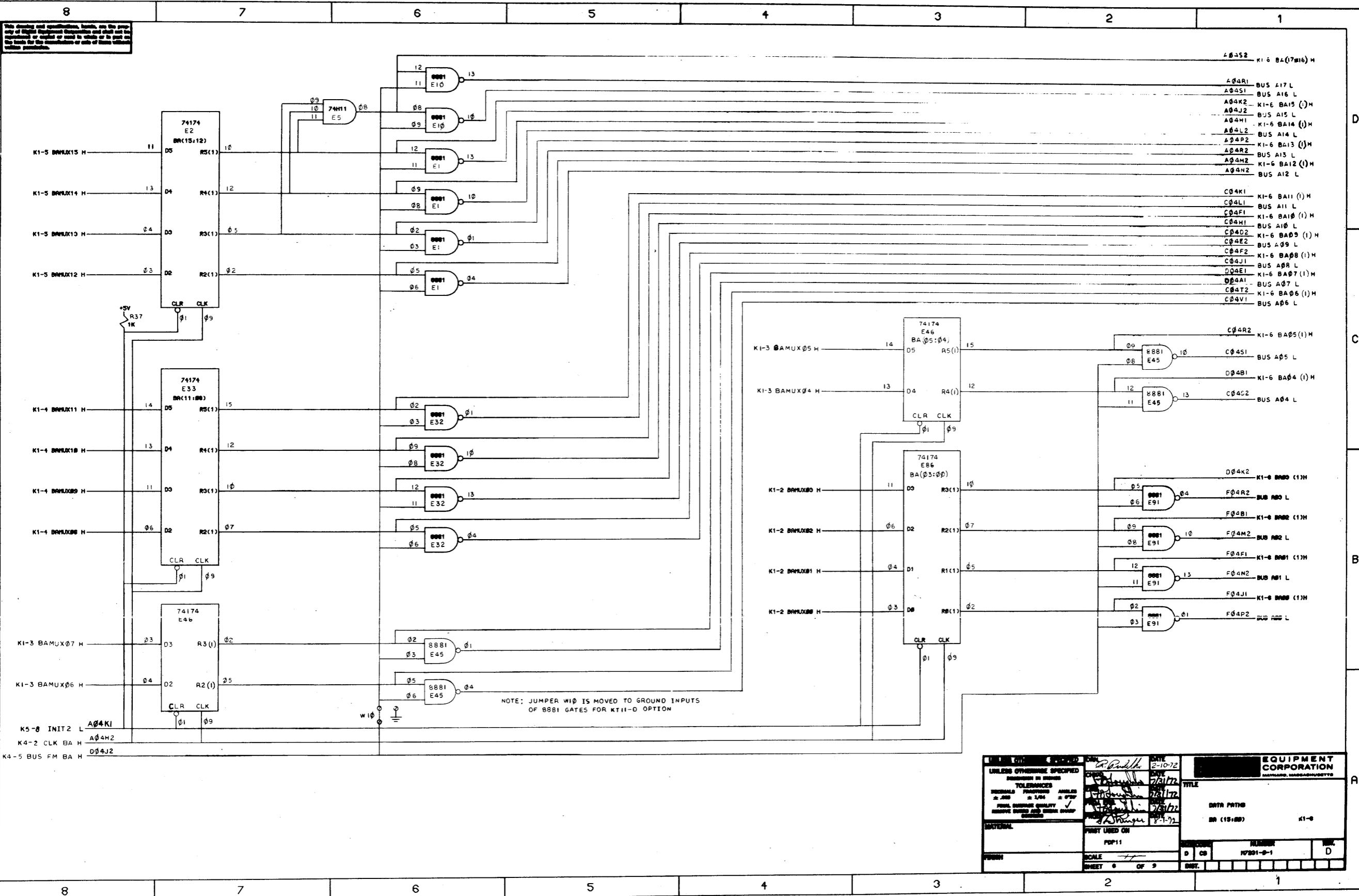
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D

C

B

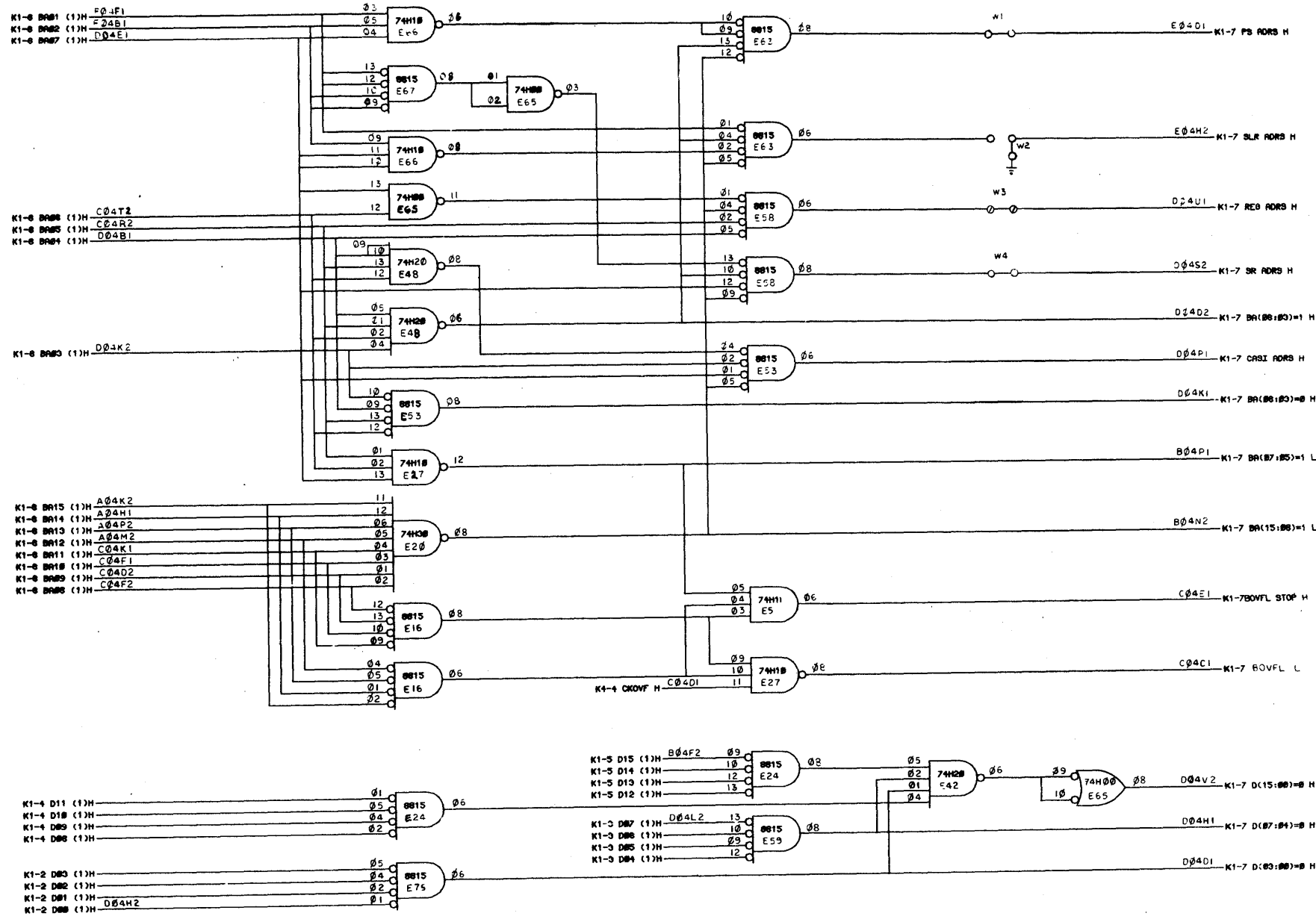
A



NOTE: JUMPER W10 IS MOVED TO GROUND INPUTS OF 8881 GATES FOR K111-D OPTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES DIMENALS FINISHES ANGLES ±.005 ±.004 ±.002 FURNISH QUALITY REMOVE BURRS AND SHARP EDGES		DATE 2-10-72 7/31/72 7/31/72 8-1-72	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DESIGNED BY CHECKED BY APPROVED BY		TITLE DATA PATHS BA (15/00) K1-6		
FIRST USED ON POP11		REVISION 17801-0-1		
SCALE SHEET 6 OF 9		D C D		

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PROCESSOR ADDRESSES			
NAME & MNEMONICS	ADDRESS		
PROCESSOR STATUS	PS	777776	
STACK LIMIT REGISTER	SLA	777774	
GENERAL REGISTERS			
REGISTERS USED TO IMPLEMENT MICROFLOW	R [ADRS]	REG 17	777717
	R [P USE]	REG 16	777716
	R [TEMP]	REG 15	777715
	R [VECT]	REG 14	777714
	R [IA]	REG 13	777713
	R [DEST]	REG 12	777712
	R [SOURCE]	REG 11	777711
	R [TEMP]	REG 10	777710
REGISTERS USE IN INSTRUCTIONS FOR PDP11	R [P], R7	REG 07	777707
	R [SP], R6	REG 06	777706
	R5	REG 05	777705
	R4	REG 04	777704
	R3	REG 03	777703
	R2	REG 02	777702
	R1	REG 01	777701
	R0	REG 00	777700
CONSOLE SWITCH REGISTER	SR	777570	

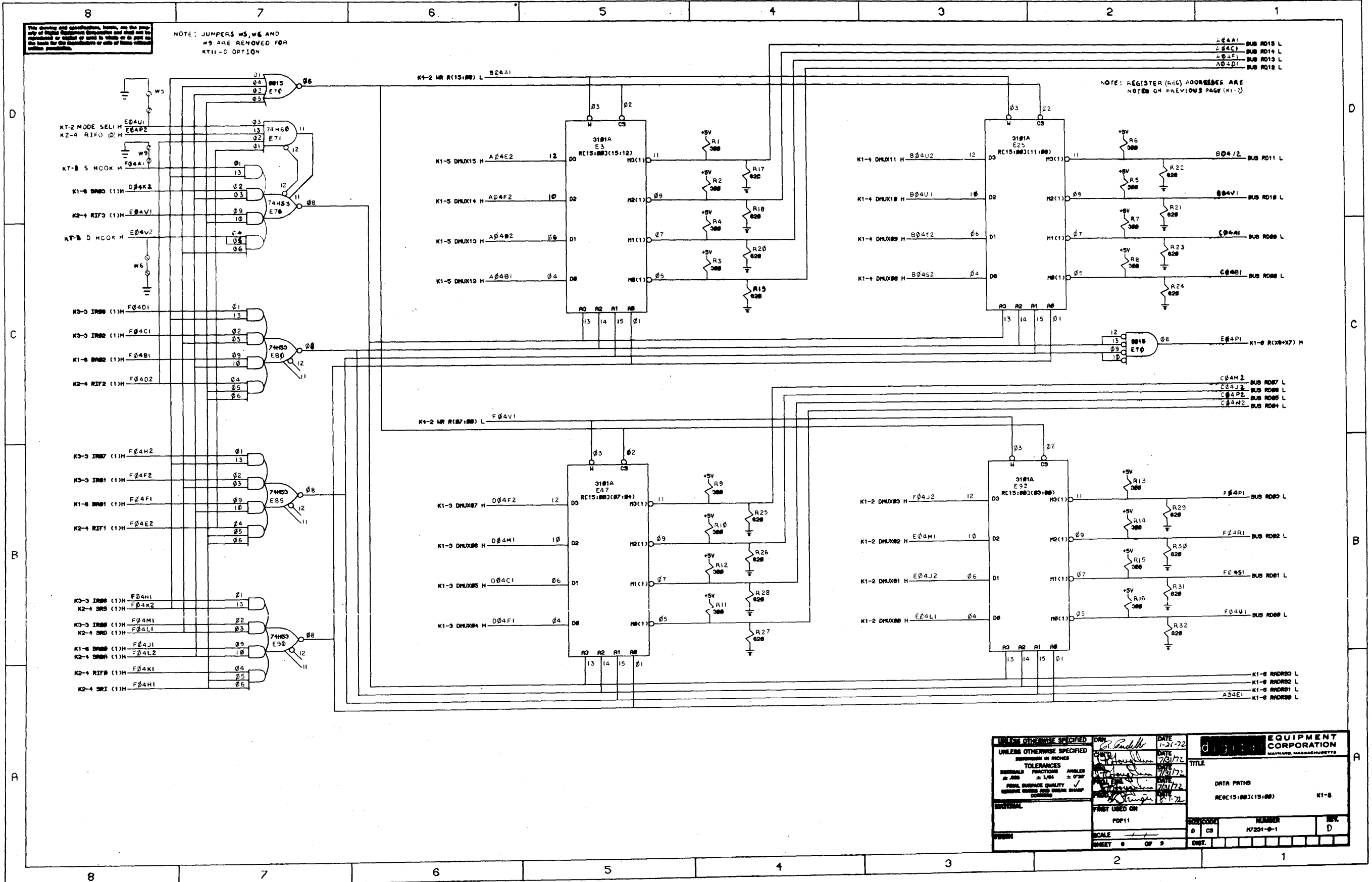
- NOTES:
- JUMPERS W1, W3 AND W4 ARE REMOVED FOR K11-D OPTION.
 - JUMPER W2 IS MOVED TO CONNECT E63 PIN 06 TO E04H2 FOR K11-A OPTION ALONE. JUMPER IS COMPLETELY REMOVED FOR K11-D OPTION.

UNLESS OTHERWISE SPECIFIED	DATE	DATE	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE SPECIFIED	DATE	DATE	
DIMENSIONS IN INCHES	DATE	DATE	TITLE
TOLERANCES	DATE	DATE	DATA PATH
DECIMALS FRACTIONS ANGLES	DATE	DATE	ADRS DECODE K1-7
±.000 ±.004 ±.030	DATE	DATE	
FINE SURFACE QUALITY	DATE	DATE	
REMOVE BURRS AND BREAK SHARP CORNERS	DATE	DATE	
MATERIAL	FIRST USED ON	SCALE	SIZE CODE
	PDP11	D	CS
FURNISH	SHEET 7 OF 9	DIST.	NUMBER
			M7231-0-1
			REV
			D

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NOTE: JUMPERS W5, W6 AND W9 ARE REMOVED FOR KTH-D OPTION

NOTE: REGISTER (REG) ADDRESSES ARE NOTED ON PREVIOUS PAGE (K1-7)



UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ±.005 ±.010 ±.020 FINISH SURFACE QUALITY UNLESS OTHERWISE SPECIFIED OTHERWISE	DATE 7-21-72 DATE 7/21/72 DATE 7/21/72 DATE 7/21/72	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
	TITLE DATA PATHS	
	REG:15:00J(15:00) K1-8	
	FIRST USED ON PDP11	
SCALE SHEET 6 OF 9	PART NUMBER K7231-0-1	REV. D

See drawing and specifications, locate and size the proper size of holes. Drill holes in metal and wood to the depth of the hole to be made. Use a drill bit of the type for the material to be drilled.

NOTE: JUMPERS W7 AND W8 ARE REMOVED FOR KTH-D OPTION

J1 BC60R CABLE, SHIELD TOWARD BOARD, TO J1 OF KY11-D CONSOLE

D

C

B

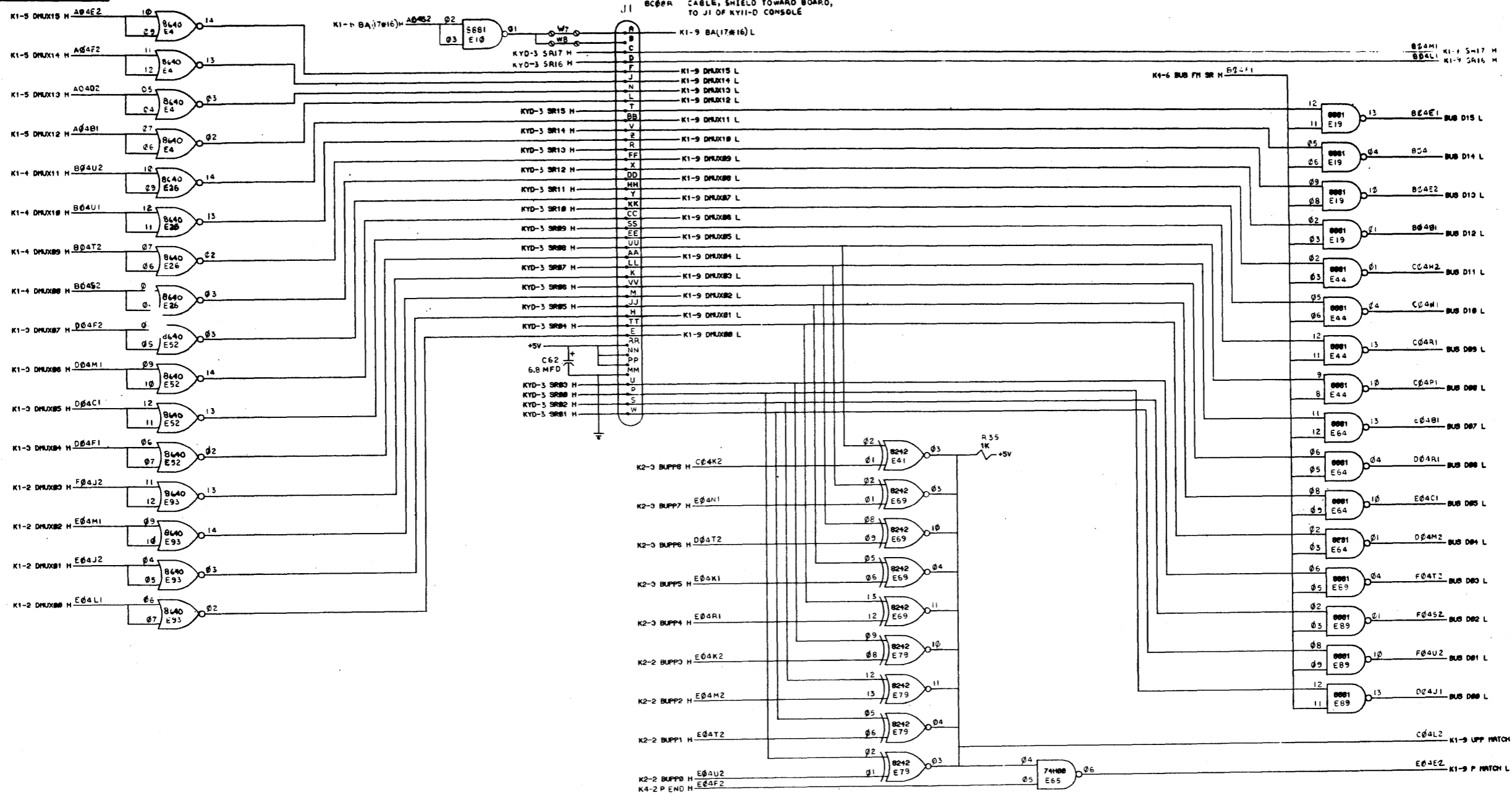
A

D

C

B

A

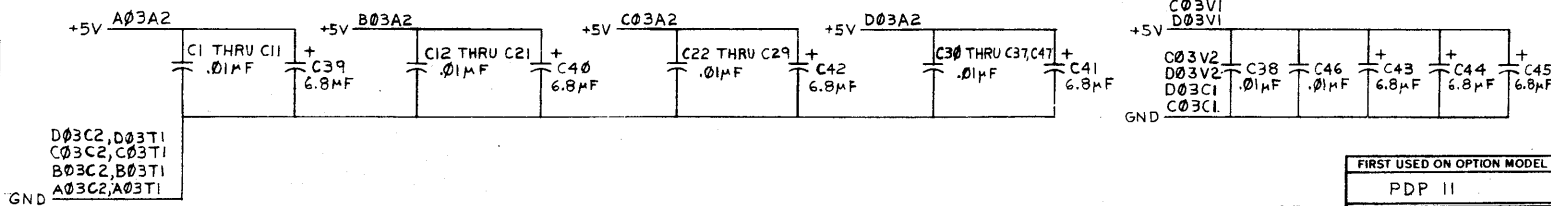
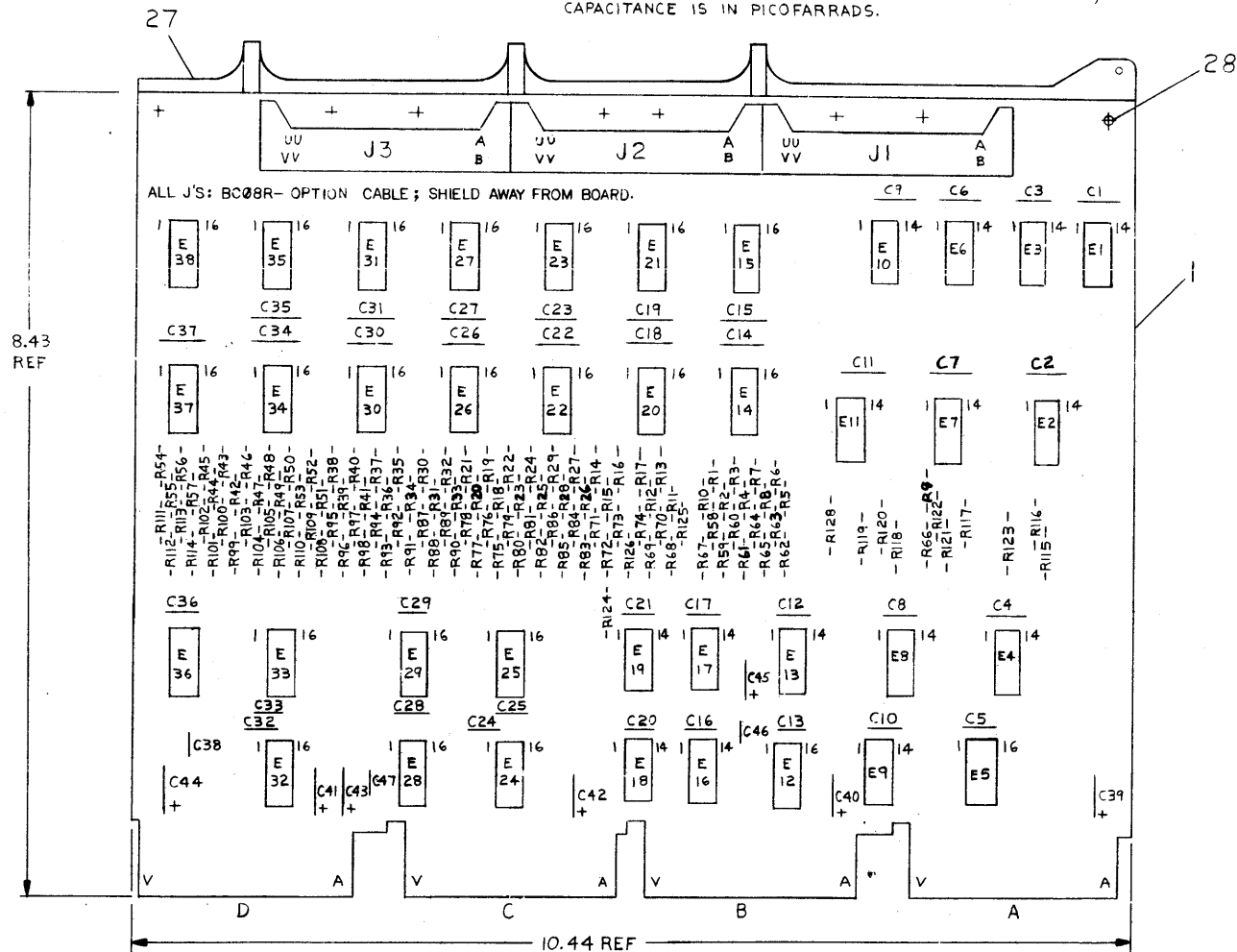


UNLESS OTHERWISE SPECIFIED		DATE	2-9-72
UNLESS OTHERWISE SPECIFIED		DATE	7/31/72
DIMENSIONS IN INCHES		DATE	7/31/72
TOLERANCES		DATE	7/31/72
DECIMAL FRACTIONS ANGLES		DATE	7/31/72
± .005 ± 1/64 ± 0°30'		DATE	7/31/72
FINISH SURFACE QUALITY		DATE	7/31/72
REMOVE BURRS AND BREAK SHARP EDGES		DATE	7/31/72
INTERNAL		DATE	7/31/72
FIRST USED ON		DATE	7/31/72
POP11		DATE	7/31/72
SCALE		DATE	7/31/72
SHEET 9 OF 9		DATE	7/31/72

EQUIPMENT CORPORATION MAYFAIR, MASSACHUSETTS	
TITLE DATA PATHS CONSOLE & MATCH K1-9	
REV. D	NUMBER K7201-8-1
D	CS
DATE	DIST.

NOTES:

- PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE KD11-A PROCESSOR. MODULE REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE FIRST LETTER.
- ALL SIGNALS THAT HAVE MODULE PINS ARE SO NOTED. OUTPUT SIGNALS WITH MODULE PINS ARE BROUGHT TO THE RIGHT SIDE OF THE PRINT.
- PROCESSOR SIGNAL PREFIX NOTATION (K2-1 FOR EXAMPLE) IDENTIFIES THE SIGNAL SOURCE (PRINT AND MODULE). THE FIRST NUMBER AFTER THE K INDICATES THE MODULE PRINT SET, WHILE THE SECOND INDICATES THE SHEET WITHIN THE SET. SIGNALS WITH A "BUS" PREFIX REPRESENT A "WIRED OR" SITUATION, AND MULTIPLE SOURCES FOR THE SIGNAL CAN EXIST.
- UNLESS OTHERWISE NOTED: RESISTANCE IS IN OHMS; CAPACITANCE IS IN PICOFARRADS.



IC TYPE	GND	+5V
23B00A2 THRU 23B13A2	8	16
DEC 74174	8	16
DEC 74175	8	16
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTS ARE STATED ABOVE		
IC PIN LOCATIONS		

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
8		EYELET	9006732	28
1		HANDLE	7409871	27
1	E38	I.C. DEC 23B40A2	23B40A2	26
1	E34	I.C. DEC 23B12A2	23B12A2	25
1	E35	I.C. DEC 23B11A2	23B11A2	24
1	E37	I.C. DEC 23B10A2	23B10A2	23
1	E31	I.C. DEC 23B35A2	23B35A2	22
1	E30	I.C. DEC 23B08A2	23B08A2	21
1	E27	I.C. DEC 23B07A2	23B07A2	20
1	E22	I.C. DEC 23B06A2	23B06A2	19
1	E23	I.C. DEC 23B42A2	23B42A2	18
1	E26	I.C. DEC 23B41A2	23B41A2	17
1	E21	I.C. DEC 23B03A2	23B03A2	16
1	E20	I.C. DEC 23B02A2	23B02A2	15
1	E14	I.C. DEC 23B01A2	23B01A2	14
1	E15	I.C. DEC 23B00A2	23B00A2	13
1	E36	I.C. DEC 74175	1910651	12
8	E5, E12, E24, E25, E28, E29, E32, E33	I.C. DEC 74174	1910652	11
3	E4, E8, E13	I.C. DEC 74H04	1909931	10
9	E1, E3, E6, E9, E10, E18, E19, E16, E17	I.C. DEC 74H74	1909667	9
3	E2, E7, E11	I.C. DEC 74H10	1909057	8
13	R115 THRU R126, R128	RES 1K 1/4W ±5%	1300365	7
57	R1 THRU R57	RES 680 1/4W ±5%	1301424	6
57	R58 THRU R114	RES 390 1/4W ±5%	1300309	5
3	J1, J2, J3	CONN. 40 PIN	1209941	4
7	C39 THRU C45	CAP 6.8µF 35V ±10% TANT	1005306	3
40	C1 THRU C38, C46, C47	CAP .01µF 100V ±20% DISC	1001610	2
1		ETCHED CIRCUIT BOARD	5009981	1

FIRST USED ON OPTION MODEL

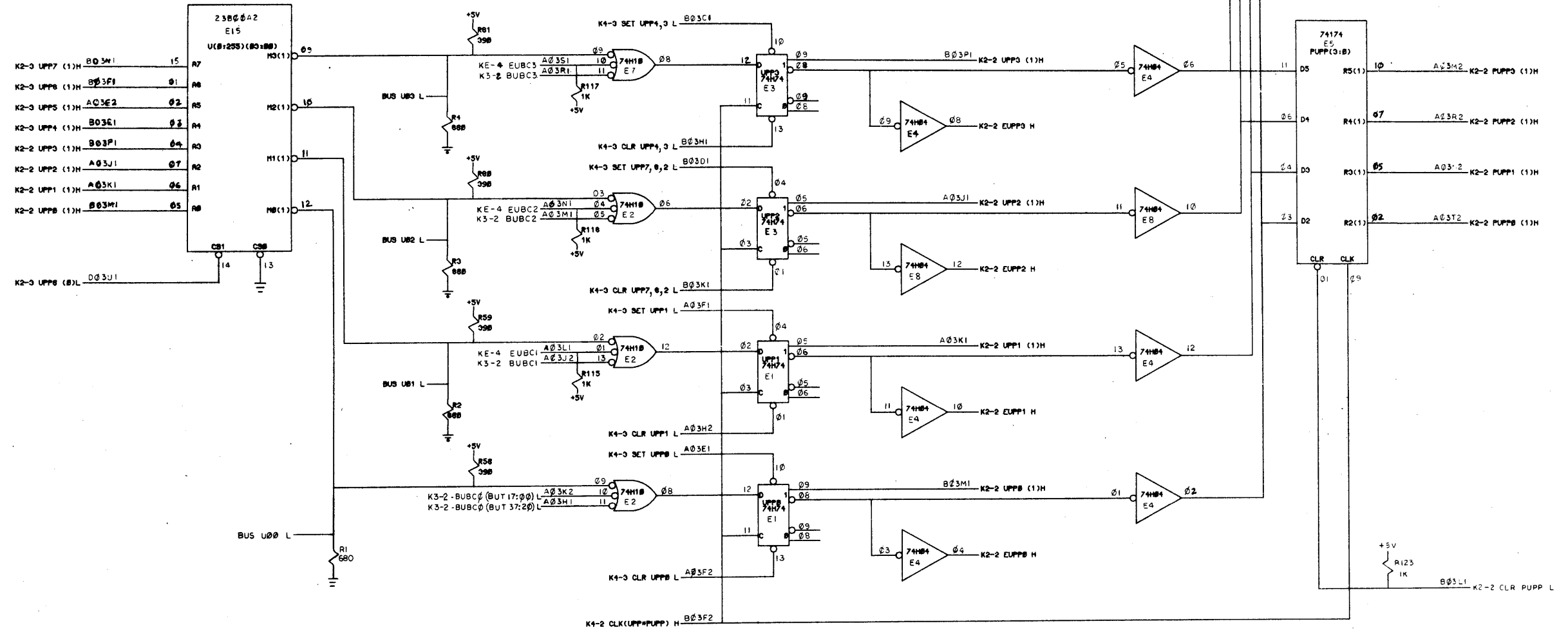
PDP II

PARTS LIST		REVISIONS		SEMICONDUCTOR CONVERSION CHART	
ETCH BOARD REV	E	CHK	REV	DEC NO.	EIA NO.
DRN. DATE	6/22/72	CHK	REV	DEC NO.	EIA NO.
CHK. DATE	6/16/72	ORIGINATOR	REV	DEC NO.	EIA NO.
ENG. DATE	6/16/72	CHANGE NO.	REV	DEC NO.	EIA NO.
PROL. DATE	6/16/72			DEC NO.	EIA NO.
PRD. DATE				DEC NO.	EIA NO.
NEXT HIGHER ASSY		SCALE		SHEET	
KD11-A		1 OF 12		DIST.	
TITLE		SIZE CODE		NUMBER	
U WORD		DCS		M7232-0-1	
REV. F		REV. F		REV. F	

DEC FORM NO. DRD-135A

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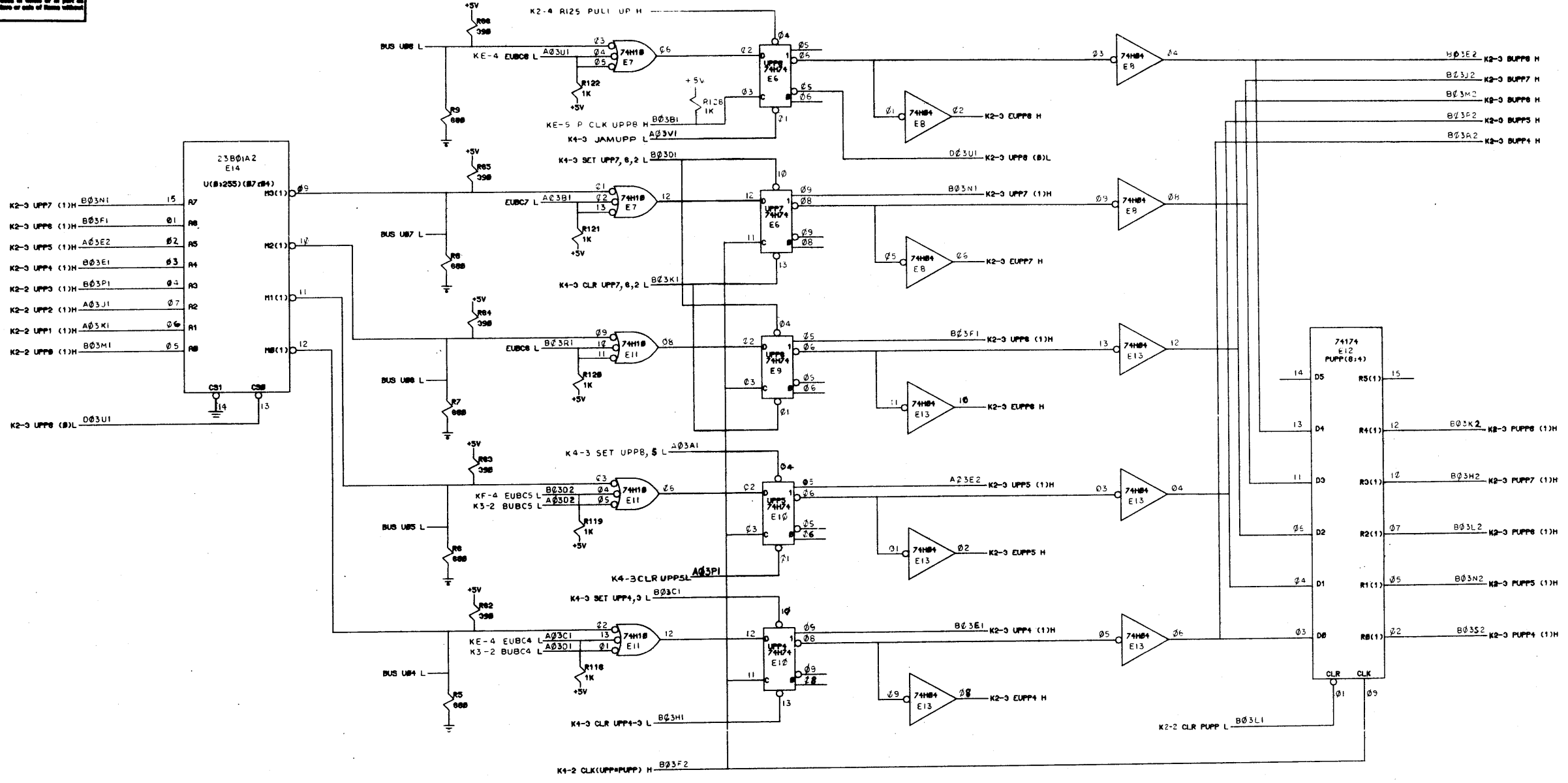
8 7 6 5 4 3 2 1



UNLESS OTHERWISE SPECIFIED		DRY	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED		CHND	DATE	TITLE	
DIMENSIONS IN INCHES		ENG	DATE	U WORD	
TOLERANCES		DRG	DATE	U(B0:80) K2-2	
DECIMALS FRACTIONS ANGLES		CHK	DATE	REV. F	
±.008 ±.004 ±.020		APP	DATE	SIZE CODE	
FINISH SURFACE QUALITY				NUMBER	
REMOVE BURRS AND BREAK SHARP CORNERS				H7232-B-1	
MATERIAL				DIST.	
FIRST USED ON				REV.	
PDP-11				F	
SCALE				SHEET 2 OF 12	

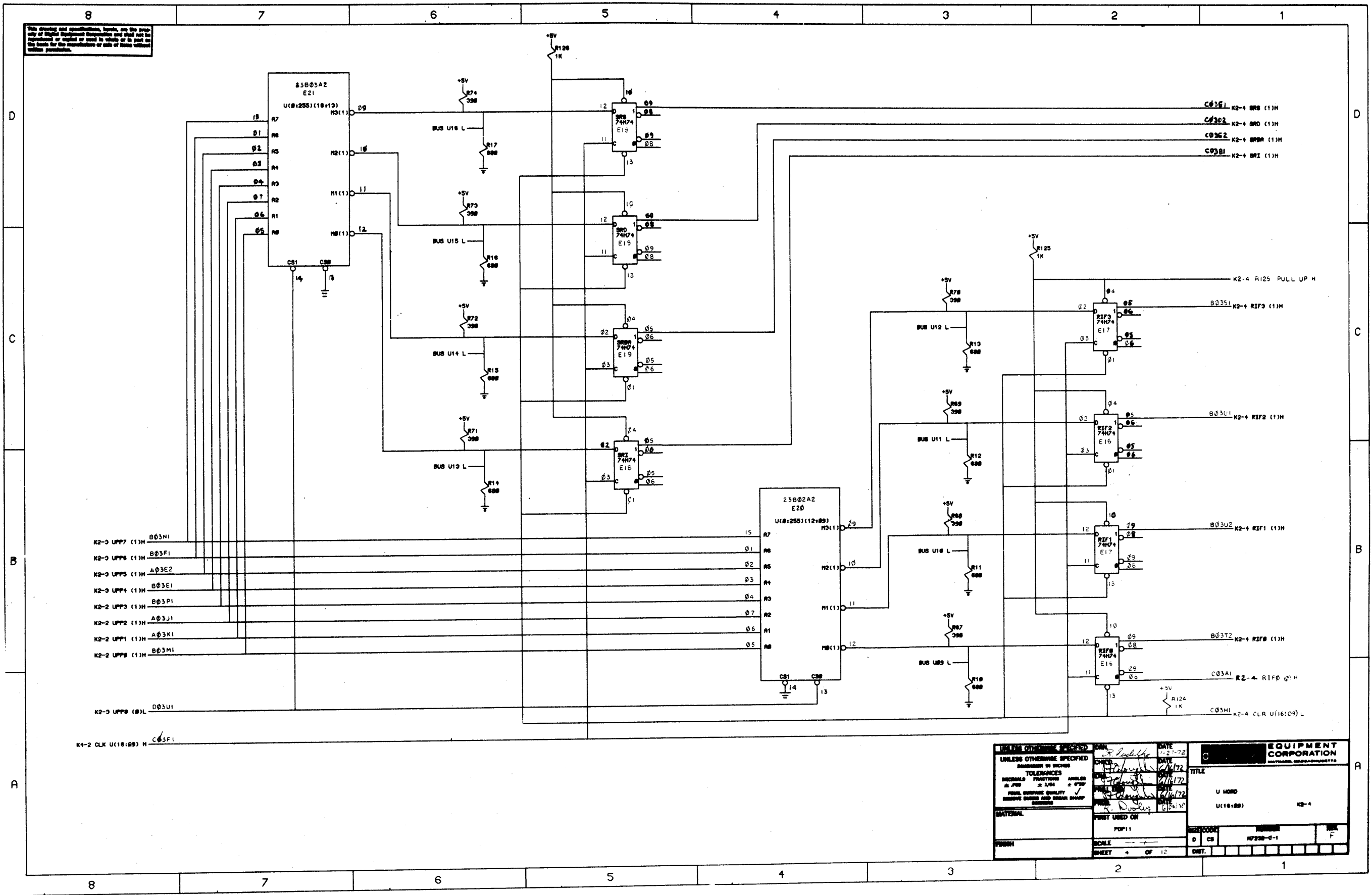
8 7 6 5 4 3 2 1

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UNLESS OTHERWISE SPECIFIED		DRN	DATE	DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED		CHKD	DATE	TITLE	
DIMENSION IN INCHES		ENG	DATE	U WORD	
DECIMALS FRACTIONS ANGLES		PRG	DATE	U(B7:04) K2-3	
±.005 ± 1/64 ± 0°30'		PROB	DATE	SIZE CODE NUMBER REV.	
FINISH SURFACE QUALITY		FIRST USED ON		D	CS
REMOVE BURRS AND BREAK SHARP CORNERS		PDP11		N7202-B-1	
MATERIAL		SCALE		DST.	
FINISH		SHEET 3 OF 12			

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- K2-3 UPP7 (13H) B03N1
- K2-3 UPP8 (13H) B03F1
- K2-3 UPP5 (13H) A03E2
- K2-3 UPP4 (13H) B03E1
- K2-2 UPP3 (13H) B03P1
- K2-2 UPP2 (13H) A03J1
- K2-2 UPP1 (13H) A03K1
- K2-2 UPP0 (13H) B03M1
- K2-3 UPP0 (03L) D03U1

- C03E1 K2-4 BRB (13H)
- C03O2 K2-4 BRD (13H)
- C03E2 K2-4 BRDR (13H)
- C03B1 K2-4 BRI (13H)

- K2-4 R125 PULL UP H
- B03S1 K2-4 RIF3 (13H)

- B03U1 K2-4 RIF2 (13H)

- B03U2 K2-4 RIF1 (13H)

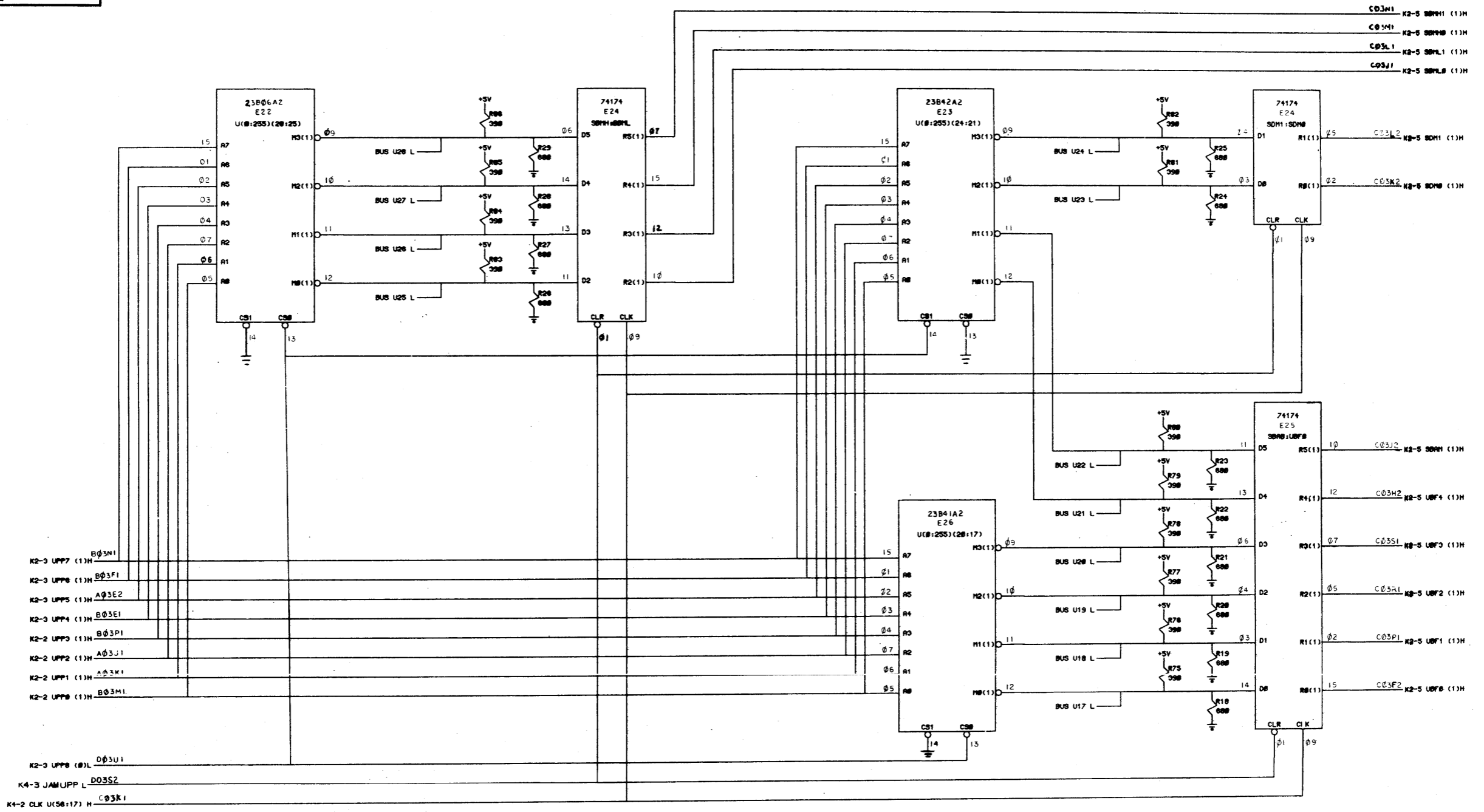
- B03T2 K2-4 RIF0 (13H)

- C03A1 K2-4 RIF0 (03H)
- C03H1 K2-4 CLR U(16:09) L

K4-2 CLK U(16:09) H C03F1

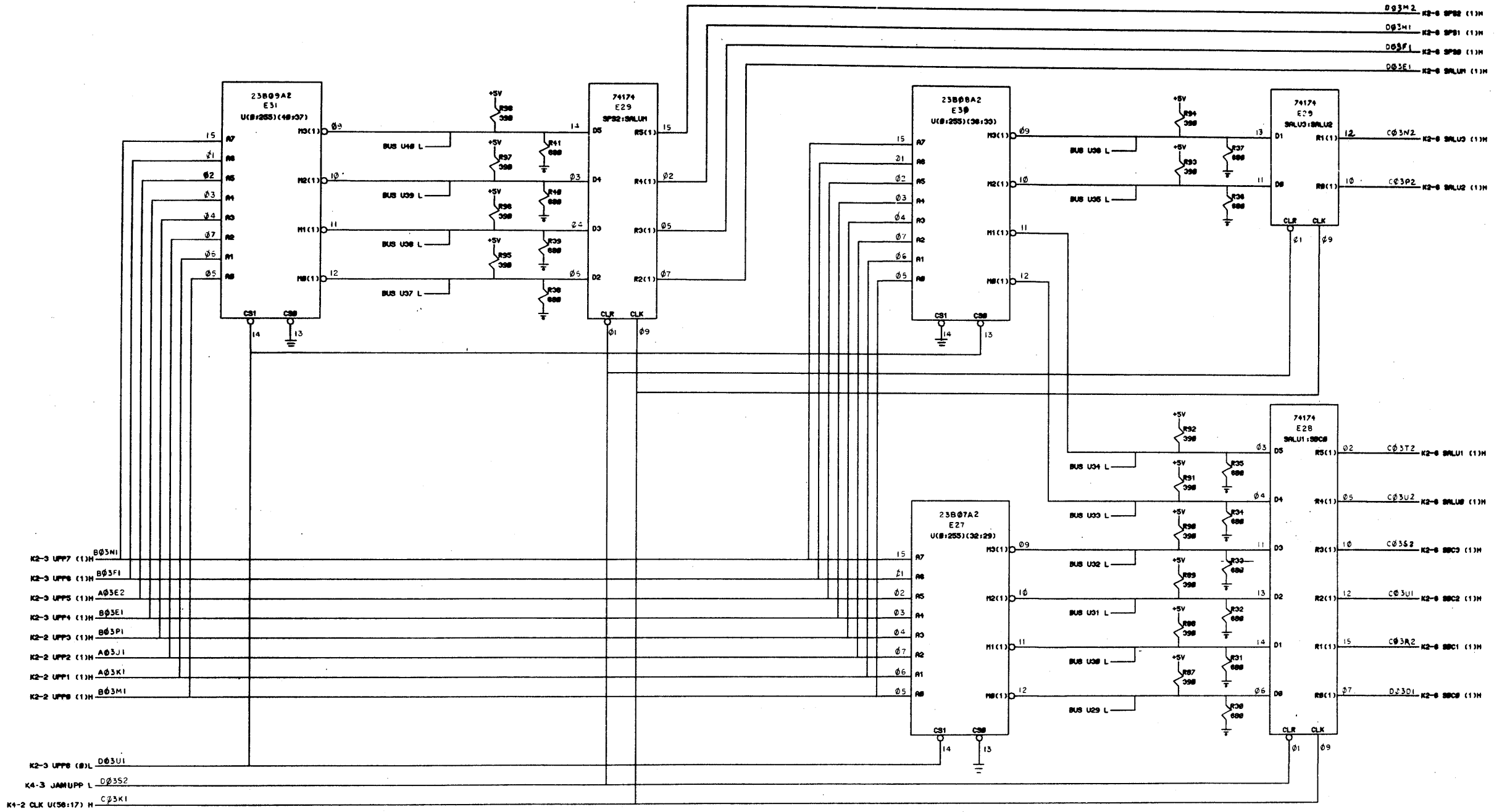
UNLESS OTHERWISE SPECIFIED		DATE	EQUIPMENT CORPORATION	
DIMENSIONS IN INCHES		12-17-72	MILWAUKEE, WISCONSIN	
TOLERANCES		DATE	TITLE	
DECIMALS FRACTIONS ANGLES		11/15/72	U WORD	
± .005 ± .004 ± .030		DATE	U(16:09) K2-4	
FINAL SURFACE QUALITY		11/15/72	REV	
RESERVE DIMS AND BREAK SHARP CORNERS		DATE	D C S	
MATERIAL		DATE	REV	
FIRST USED ON		DATE	REV	
POP11		DATE	REV	
SCALE		DATE	REV	
SHEET 4 OF 12		DATE	REV	

This drawing and specifications, taken as the primary source of information, shall govern over any other drawings or specifications or notes in relation to it. It is the responsibility of the contractor to verify the accuracy of the data for the construction of any items indicated on this drawing.



UNLESS OTHERWISE SPECIFIED		DRN	DATE	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED		CHK'D	DATE	TITLE	
DIMENSIONS IN INCHES		DATE	DATE	U WORD	
TOLERANCES		DATE	DATE	U(26:17) K2-5	
DECIMALS	FRACTIONS	ANGLS	DATE	REV	
± .005	± 1/64	± 0°30'	DATE	F	
FINAL SURFACE QUALITY		✓	DATE	NUMBER	
REMOVE BURRS AND BREAK SHARP		DATE	DATE	10232-P-1	
CORNER		DATE	DATE	DST.	
MATERIAL		FIRST USED ON		SCALE	
POP11		POP11		SHEET 5 OF 12	
FINISH		SCALE		DST.	
SHEET 5 OF 12		SCALE		DST.	

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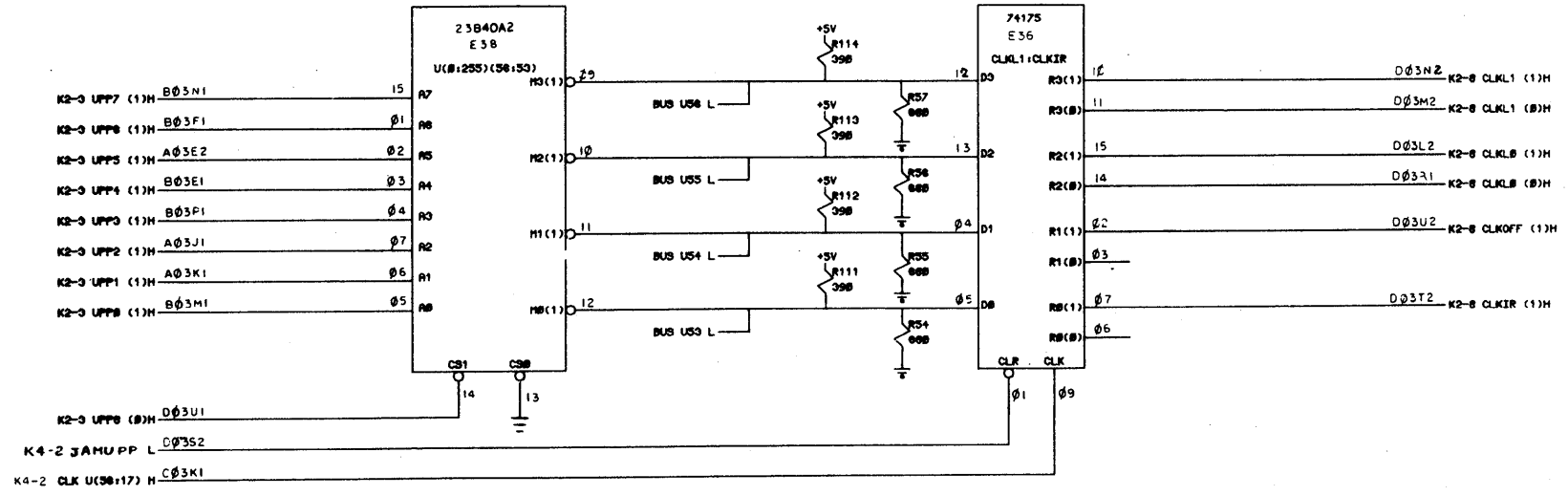
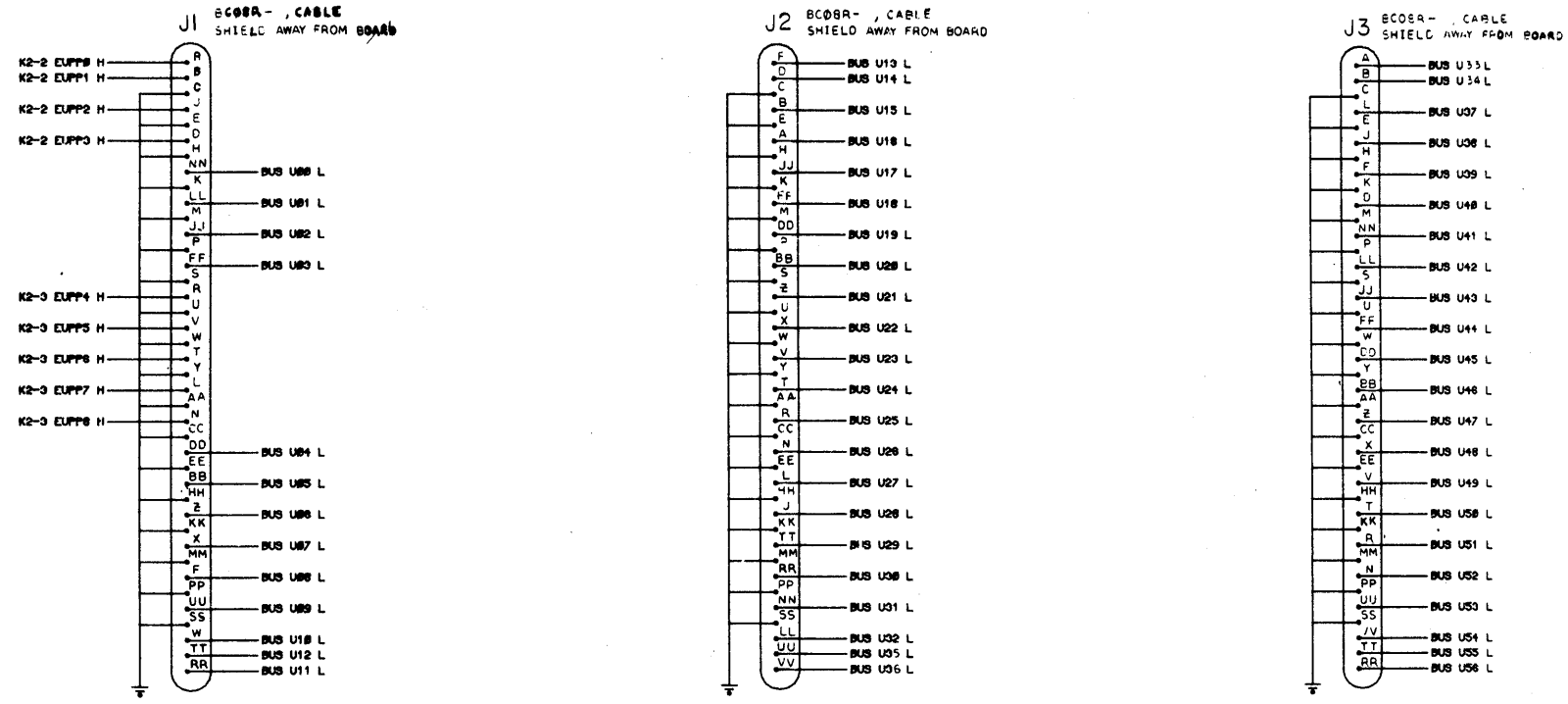


- K2-3 UPP7 (1)H B03N1
- K2-3 UPP6 (1)H B03F1
- K2-3 UPP5 (1)H A03E2
- K2-3 UPP4 (1)H B03E1
- K2-2 UPP3 (1)H B03P1
- K2-2 UPP2 (1)H A03J1
- K2-2 UPP1 (1)H A03K1
- K2-2 UPP0 (1)H B03M1

- K2-3 UPP8 (0)L D03U1
- K4-3 JAMUPP L D03S2
- K4-2 CLK U(50:17) H C03K1

UNLESS OTHERWISE SPECIFIED		DATE	EQUIPMENT CORPORATION	
DIMENSIONS IN INCHES		2-24-72	MAYFORD, MASSACHUSETTS	
TOLERANCES		DATE	TITLE	
DECIMALS FRACTIONS ANGLES		2/16/72	U MORD	
± .005 ± .004 ± .020		DATE	U(40:29) K2-0	
FINAL SURFACE QUALITY		DATE	REV.	
REMOVE BURRS AND BREAK SHARP CORNERS		12/30/72	F	
MATERIAL		FIRST USED ON	SHEET CODE	
PDP11			D CS	
SCALE		NUMBER		
SHEET # OF 12		10222-0-1		

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UNLESS OTHERWISE SPECIFIED		DRN	DATE	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE SPECIFIED		CONC	DATE	
DIMENSIONS IN INCHES		DES	DATE	TITLE
TOLERANCES		PROL	DATE	
DECIMALS FRACTIONS ANGLES		CHK	DATE	U-WORD U(56:53) & CONNECTORS K2-8
± .005 ± 1/64 ± 90°		DATE	DATE	
FURNISH		DATE	DATE	NUMBER N7232-9-1
MATERIAL		DATE	DATE	
FIRST USED ON		REV.		DIST.
POP-11		F		
SCALE		SHEET 8 OF 12		

FLWS STATE	ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
01 FET01	000	3	0	0	0	0	1	1	00	0	00	00	00	0	1	00	01	07	001
01 FET03	001	2	1	3	1	0	0	0	00	0	00	00	00	1	0	00	01	13	004
10 SER01	002	6	0	0	0	0	0	0	00	0	00	00	00	0	0	26	01	13	015
04 MOV21	003	4	0	0	0	1	0	0	00	0	32	00	05	2	0	27	00	00	204
01 FET04	004	4	0	0	0	1	1	1	00	0	11	02	17	0	0	37	01	07	005
01 FET05	005	2	0	3	0	0	0	0	00	0	00	00	00	2	0	00	01	07	100
10 SER04	006	6	0	0	0	0	0	0	00	0	00	00	00	0	0	26	01	13	015
06 TRP00	007	5	0	0	0	0	1	1	00	0	11	02	17	0	0	00	01	14	115
06 TRP03	010	6	0	3	0	1	0	0	00	0	32	00	17	2	0	11	01	14	216
11 CON01	011	6	0	0	0	0	1	0	00	0	00	00	00	2	1	00	01	07	255
10 SER00	012	3	0	0	0	0	0	2	00	0	00	00	00	0	0	00	01	13	020
01 FET00	013	3	0	0	0	0	1	1	00	0	00	00	00	0	1	00	01	07	001
10 SER09	014	3	0	0	0	0	0	0	00	0	00	00	00	0	0	00	01	13	022
10 SER05	015	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	01	13	010
01 FET02	016	3	0	0	0	0	1	1	00	0	00	00	00	0	0	00	01	07	001
10 SER02	017	6	0	0	0	0	0	0	00	0	00	00	00	2	0	26	01	13	015
10 SER07	020	4	0	0	0	0	0	2	00	0	00	00	00	0	0	25	01	13	021
10 SER08	021	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	01	13	014
10 SER10	022	6	0	3	1	0	0	0	00	0	00	00	00	1	0	07	01	14	023
10 SER11	023	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	01	14	006
11 CON03	024	4	0	0	0	1	0	0	00	0	00	00	00	2	0	00	01	00	026
06 RST01	025	7	0	0	0	0	0	0	00	0	00	00	00	2	0	02	00	00	040
11 CON04	026	6	0	0	0	0	0	0	00	0	00	00	00	2	0	06	00	00	046
11 CON07	027	4	0	0	0	1	0	0	00	0	32	14	17	2	0	00	00	00	044
11 CON09	030	6	0	0	0	0	0	0	00	0	00	00	00	2	0	00	00	00	315
12 EXM06	031	5	0	0	0	1	0	1	00	0	32	10	17	2	0	00	00	00	060
12 STA00	032	6	0	3	0	0	0	0	00	0	00	00	00	2	0	10	01	07	076
12 LAD03	033	4	0	0	0	1	0	0	00	0	23	00	00	2	0	00	00	00	030
12 DEP00	034	2	0	0	0	0	1	0	00	0	00	00	00	0	1	00	01	17	062
12 EXM00	035	2	0	0	0	0	1	0	00	0	00	00	00	0	1	00	01	17	053
12 CNTR0	036	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	01	07	017
12 LAD00	037	5	0	0	0	0	1	1	00	0	32	10	17	1	0	00	00	00	051

NOTE: THE COMPLEMENT OF THE ACTUAL ROM OUTPUT FOR THE UPF FIELD IS LISTED HERE FOR CLARITY.

FLWS STATE	ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
06 RST02	040	2	0	0	0	0	0	0	00	0	00	00	00	2	0	00	00	00	042
11 CON02	041	7	0	0	0	0	0	2	00	7	00	00	00	2	0	00	00	00	024
06 RST04	042	2	0	0	0	0	0	0	00	0	00	00	00	2	0	00	00	00	011
06 RST03	043	2	0	0	0	0	0	0	00	0	00	00	00	2	0	00	00	00	016
11 CON08	044	6	0	3	0	0	0	0	00	0	00	00	00	2	0	12	01	15	047
11 CON10	045	6	0	0	0	2	0	0	00	0	00	00	00	0	0	30	01	07	050
11 CON06	046	2	0	0	0	0	0	0	00	0	00	00	00	2	0	00	00	00	026
11 CON09	047	6	0	3	0	1	0	0	00	0	11	01	17	2	0	00	01	15	044
11 CON11	050	6	0	0	0	1	0	0	00	0	00	00	00	0	0	00	01	17	030
12 LAD01	051	6	0	3	0	0	0	0	00	0	00	00	00	1	0	05	01	17	052
12 LAD02	052	4	0	0	0	1	1	0	00	0	00	00	00	2	1	00	01	17	032
12 EXM01	053	6	0	0	0	0	0	0	00	0	00	00	00	2	0	04	00	00	054
12 EXM02	054	6	0	3	0	1	1	0	00	0	11	07	17	2	0	00	01	17	056
12 EXM03	055	4	0	0	0	1	0	0	00	0	00	00	00	0	0	00	02	00	030
12 EXM04	056	6	0	0	0	0	0	0	01	0	00	00	00	0	0	04	01	17	055
12 EXM03	057	6	0	3	0	1	1	0	00	0	11	07	17	2	0	00	01	17	056
12 EXM07	060	2	0	0	1	0	0	0	00	0	00	00	00	1	0	00	00	00	061
12 EXM08	061	4	0	0	0	1	0	0	00	0	32	00	00	2	0	00	00	00	030
2 DEP01	062	6	0	0	0	0	0	0	00	0	00	00	00	2	0	03	00	00	063
12 DEP02	063	6	0	3	0	1	1	0	00	0	11	07	17	2	0	00	01	17	064
12 DEP03	064	6	0	3	0	1	1	0	00	0	11	07	17	2	0	00	01	17	065
12 DEP04	065	5	0	0	0	0	1	1	00	0	32	10	17	0	0	00	01	17	066
12 DEP05	066	2	0	0	1	0	0	0	00	0	00	00	00	1	0	00	00	00	067
12 DEP06	067	2	0	0	0	0	1	0	00	0	00	00	00	0	1	00	01	17	070
12 DEP07	070	6	0	0	0	1	0	0	01	0	32	00	00	2	0	03	00	00	071
12 DEP08	071	2	0	0	0	0	0	0	00	0	00	00	00	2	0	00	00	00	072
12 DEP09	072	3	0	0	0	0	0	5	00	0	00	00	00	2	0	00	00	00	030
12 DEP10	073	2	0	3	0	0	0	0	00	0	00	00	00	2	0	00	02	00	030
08 DOP21	074	2	0	0	1	0	0	0	00	3	00	00	00	2	0	00	00	00	366
9 SSL11	075	2	0	0	1	0	0	0	00	3	00	00	00	2	0	00	00	00	374
12 STA01	076	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	01	07	016
06 TRP10	077	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	01	10	140

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DRN <i>[Signature]</i>		DATE 6-15-72		TITLE U WORD			
CHK'D <i>[Signature]</i>		DATE 7/16/72		(ADR 000-077)			
ENG <i>[Signature]</i>		DATE 7/16/72					
PROJ ENG <i>[Signature]</i>		DATE 7/16/72		SIZE CODE K CS	NUMBER M7232-0-1	REV. F	
PROD <i>[Signature]</i>		DATE 6/20/72		SHEET 9 OF 12			
DIST.							

FLOWS STATE	ADR	CLK	CIR	WR	CB	CD	CRA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
01 FET07	100	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	01	13	126
06 RY100	101	7	0	3	0	1	1	1	00	0	11	02	17	2	1	00	01	06	320
07 DOP02	102	2	0	0	1	0	0	0	00	0	00	00	00	0	0	31	04	00	364
07 DOP00	103	2	0	0	1	0	0	0	00	0	00	00	00	0	0	00	10	00	363
07 SSL02	104	4	0	0	0	1	0	0	14	0	00	00	00	0	0	31	04	00	373
07 SSL00	105	2	0	0	1	0	0	0	00	0	00	00	00	0	0	31	04	00	372
09 RSR00	106	6	0	0	1	1	0	0	00	1	00	00	00	3	0	00	04	00	271
09 RSR02	107	2	0	0	1	0	0	0	00	0	00	00	00	0	0	00	04	00	272
07 NRR00	110	2	0	0	0	0	0	0	00	0	00	00	00	0	0	16	01	13	347
07 BRA00	111	4	0	0	0	1	0	0	00	0	11	00	05	0	0	00	01	07	340
05 MRK00	112	6	0	0	1	1	0	0	00	0	11	00	00	2	0	00	01	13	353
06 TRP12	113	2	0	0	0	0	0	0	00	0	00	00	00	2	0	00	00	00	330
10 SER00	114	6	0	0	0	0	0	0	00	0	00	00	00	0	0	26	01	13	015
06 TRP09	115	2	0	3	0	0	0	0	00	0	00	00	00	1	0	00	01	10	326
07 CCC00	116	6	0	0	1	1	0	0	00	0	33	12	17	2	0	00	01	13	350
07 SCC00	117	6	0	0	1	1	0	0	00	0	33	12	17	2	0	16	01	13	352
08 DOP10	120	2	0	0	1	0	0	0	00	0	00	00	00	0	0	31	04	00	371
08 DOP13	121	2	0	0	1	0	0	0	00	0	00	00	00	0	0	00	01	11	370
11 CON00	122	6	0	0	0	0	1	0	00	0	00	00	00	2	1	00	01	07	255
10 SER03	123	6	0	0	0	0	0	0	00	0	00	00	00	0	0	26	01	13	015
06 RTS00	124	4	0	0	0	1	0	0	00	0	00	00	00	0	0	00	04	00	323
04 MOV22	125	7	0	0	0	0	0	0	12	3	00	00	00	2	0	16	00	00	375
06 TRP06	126	6	0	3	0	1	0	0	00	0	32	00	17	2	0	00	01	14	007
06 RST00	127	4	0	0	0	1	0	0	00	0	00	00	00	2	0	00	01	00	025
07 SOB00	130	4	0	0	0	1	0	0	00	0	17	00	00	0	0	00	10	00	342
131	0	0	0	0	0	0	0	0	00	0	00	00	00	0	0	00	00	00	000
08 SXT00	132	4	0	0	0	1	0	0	14	0	03	00	00	2	0	27	00	00	360
133	0	0	0	0	0	0	0	0	00	0	00	00	00	0	0	00	00	00	000
07 SWB00	134	2	0	0	1	0	0	0	00	0	00	00	00	0	0	00	04	00	135
07 SWB01	135	4	0	0	0	1	0	0	00	0	32	00	12	2	0	27	00	00	360
01 FET06	136	6	0	3	0	1	1	0	00	0	06	01	17	2	0	00	01	07	217
02 SRC10	137	4	0	0	0	1	0	0	00	0	32	00	02	0	0	36	01	13	251

NOTE: THE COMPLEMENT OF THE ACTUAL ROM OUTPUT FOR THE UPF FIELD IS LISTED HERE FOR CLARITY.

FLOWS STATE	ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
06 TRP10	140	2	0	0	0	0	0	0	00	7	00	00	30	0	0	04	01	10	332
02 SRC00	141	2	0	0	0	0	1	1	01	0	00	00	00	0	1	00	10	00	247
02 SRC01	142	4	0	0	0	1	1	1	01	0	11	03	17	0	1	00	10	00	240
02 SRC04	143	7	0	3	0	1	1	1	00	0	11	02	17	2	1	00	10	00	245
02 SRC02	144	4	0	0	0	1	1	1	01	0	06	03	17	0	0	00	10	00	240
02 SRC05	145	7	0	3	0	1	1	1	00	0	06	01	17	2	0	00	10	00	245
02 SRC06	146	7	0	3	0	1	0	0	00	0	11	02	17	2	0	00	01	07	241
02 SRC09	147	7	0	3	0	1	0	0	00	0	11	02	17	2	0	00	01	07	243
06 TRP07	150	6	0	3	0	1	0	0	00	0	32	00	17	2	0	00	01	14	007
05 JMP00	151	4	0	0	0	1	0	0	00	0	00	00	00	0	0	15	04	00	300
05 JMP01	152	6	0	3	0	1	0	0	00	0	11	02	17	2	0	00	04	00	235
05 JMP02	153	7	0	3	0	1	1	1	00	0	11	02	17	2	1	15	04	00	303
05 JMP03	154	6	0	3	0	1	0	0	00	0	06	01	17	2	0	15	04	00	300
05 JMP06	155	7	0	3	0	1	1	1	00	0	06	01	17	2	0	15	04	00	303
05 JMP08	156	7	0	3	0	1	0	0	00	0	11	02	17	2	0	15	01	07	304
05 JMP07	157	7	0	3	0	1	0	0	00	0	11	02	17	2	0	00	01	07	301
04 MOV19	160	4	0	0	0	1	0	0	00	0	00	00	00	0	0	20	01	11	204
03 DST00	161	2	0	0	0	0	1	3	07	0	00	00	00	0	1	00	04	00	266
03 DST01	162	4	0	0	0	1	1	3	07	0	11	03	17	0	1	00	04	00	260
03 DST04	163	7	0	3	0	1	1	1	00	0	11	02	17	2	1	00	04	00	264
03 DST02	164	4	0	0	0	1	1	3	07	0	06	03	17	0	0	00	04	00	260
03 DST05	165	7	0	3	0	1	1	1	00	0	06	01	17	2	0	00	04	00	264
03 DST07	166	7	0	3	0	1	0	0	00	0	11	02	17	2	0	17	01	07	261
03 DST06	167	7	0	3	0	1	1	1	00	0	11	02	17	2	1	17	01	07	261
04 MOV18	170	4	0	0	0	1	0	0	00	0	00	00	00	0	0	20	10	00	204
04 MOV00	171	4	0	0	0	1	1	0	07	0	00	00	00	0	1	22	04	00	257
04 MOV01	172	4	0	0	0	1	1	0	07	0	11	03	17	2	1	22	04	00	257
04 MOV03	173	7	0	3	0	1	1	1	01	0	11	02	17	2	1	00	04	00	207
04 MOV02	174	4	0	0	0	1	1	0	07	0	06	03	17	2	0	22	04	00	257
04 MOV04	175	7	0	3	0	1	1	1	01	0	06	01	17	2	0	00	04	00	207
04 MOV06	176	7	0	3	0	1	0	0	00	0	11	02	17	2	0	17	01	07	206
04 MOV05	177	7	0	3	0	1	1	1	00	0	11	02	17	2	1	17	01	07	206

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DRN <i>R. D. Dwyer</i>		DATE 6-15-72	TITLE U WORD	
CHK'D <i>R. D. Dwyer</i>		DATE 6/17/72	(ADR 100-177)	
ENG <i>R. D. Dwyer</i>		DATE 6/17/72	SIZE CODE KCS	NUMBER M7232-0-1
PROJ ENG <i>R. D. Dwyer</i>		DATE 6/30/72	REV. F	
SHEET 10 OF 12			DIST.	

FLOW#	STATE	ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
04	MOV10	200	4	0	0	0	1	0	5	00	0	00	00	00	0	0	00	01	11	125
04	MOV17	201	4	0	0	0	1	0	5	00	0	11	16	17	0	0	00	10	00	125
04	MOV14	202	2	0	0	1	0	0	0	00	0	00	00	00	0	0	00	01	11	205
04	MOV13	203	2	0	0	1	0	0	0	00	0	00	00	00	0	0	00	10	00	205
04	MOV20	204	0	0	3	1	0	0	0	00	3	00	00	00	2	0	00	04	00	000
04	MOV19	205	6	0	3	0	1	0	7	00	0	32	00	10	2	0	00	01	11	125
04	MOV08	206	2	0	3	1	0	0	0	00	0	00	00	00	1	0	21	01	12	212
04	MOV11	207	2	0	3	1	0	0	0	00	0	00	00	00	1	0	22	01	12	210
04	MOV12	210	2	0	0	0	0	1	0	01	0	00	00	00	0	1	00	01	12	200
09	SSL10	211	2	0	0	0	0	0	0	00	1	00	00	00	2	0	00	00	00	367
04	MOV09	212	4	0	0	0	0	1	0	07	0	11	00	00	0	0	00	04	00	200
04	MOV10	213	5	0	0	0	0	1	1	01	0	11	00	00	0	0	00	04	00	207
06	TRP05	214	2	0	3	0	0	0	0	00	0	00	00	00	2	0	00	01	14	007
06	TRP02	215	5	0	0	0	0	1	1	00	0	11	02	17	0	0	00	01	14	115
06	TRP04	216	4	0	0	0	1	0	0	00	0	32	15	17	2	0	00	00	00	214
01	FET08	217	6	1	0	0	1	0	0	00	0	00	00	00	0	0	00	00	00	292
09	SSL06	220	4	0	0	0	1	0	5	17	0	00	00	00	2	0	00	01	12	211
09	SSL04	221	4	0	0	0	1	0	5	11	0	06	00	00	2	0	00	00	12	367
09	SSL08	222	4	0	0	0	1	0	0	14	0	00	00	00	0	0	00	01	12	253
09	SSL07	223	4	0	0	0	1	0	0	10	0	06	00	00	2	0	00	00	00	253
08	DOP07	224	4	0	0	0	1	0	5	17	0	00	00	00	0	0	00	10	00	367
08	DOP03	225	4	0	0	0	1	0	5	17	0	00	00	00	0	0	00	01	11	367
08	DOP04	226	2	0	0	1	0	0	0	00	0	00	00	00	0	0	00	10	00	365
08	DOP05	227	2	0	0	1	0	0	0	00	0	00	00	00	0	0	00	01	11	365
08	DOP09	230	4	0	0	0	1	0	0	14	0	00	00	00	0	0	00	10	00	294
08	DOP10	231	4	0	0	0	1	0	0	14	0	00	00	00	0	0	00	01	11	294
09	RSR06	232	6	0	0	1	1	0	0	00	1	32	00	00	3	0	00	00	00	295
09	RSR08	233	6	0	0	1	1	0	0	00	1	32	00	10	3	0	00	00	00	296
08	SXT01	234	4	0	0	0	1	0	5	14	0	03	00	00	2	0	00	00	00	367
05	JMP02	235	4	0	0	0	1	0	0	00	0	06	01	17	0	0	15	04	00	300
09	SSL05	236	4	0	0	0	1	0	5	00	0	32	00	12	2	0	00	00	00	367
03	DST10	237	4	0	0	0	1	0	0	00	0	32	00	02	0	0	34	01	13	270

NOTE: THE COMPLEMENT OF THE ACTUAL ROM OUTPUT FOR THE UPF FIELD IS LISTED FOR CLARITY.

FLOW#	STATE	ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
02	SRC03	240	3	0	3	0	0	0	0	00	0	00	00	00	2	0	35	10	00	290
02	SRC07	241	2	0	3	1	0	0	0	00	0	00	00	00	1	0	00	01	11	242
02	SRC00	242	4	0	0	0	0	1	1	01	0	11	00	00	0	0	00	10	00	247
02	SRC10	243	2	0	3	1	0	0	0	00	0	00	00	00	1	0	00	01	11	244
02	SRC11	244	5	0	0	0	0	1	1	00	0	11	00	00	0	0	00	10	00	245
02	SRC12	245	2	0	3	1	0	0	0	00	0	00	00	00	1	0	00	01	11	246
02	SRC13	246	2	0	0	0	0	1	1	01	0	00	00	00	0	1	00	01	11	247
02	SRC14	247	3	0	0	0	0	0	0	00	0	00	00	00	0	0	35	01	13	250
02	SRC15	250	2	0	3	1	0	0	0	00	0	00	00	00	1	0	00	01	11	120
02	SRC17	251	2	0	3	1	0	0	0	00	0	00	00	00	2	0	00	01	11	120
01	FET09	252	2	0	3	1	0	0	0	00	0	00	00	00	2	0	00	01	13	004
09	SSL14	253	2	0	0	0	0	0	0	00	1	00	00	00	2	0	00	00	00	075
08	DOP22	254	2	0	0	0	0	0	0	00	1	00	00	00	2	0	00	00	00	074
11	CON12	255	6	0	0	0	1	0	2	00	6	00	00	00	0	0	24	00	00	041
		256	0	0	0	0	0	0	0	00	0	00	00	00	0	0	00	00	00	000
08	MOV07	257	2	0	3	0	0	0	0	00	0	00	16	00	2	0	00	04	00	200
03	DST03	260	3	0	3	0	0	0	0	00	0	00	00	00	2	0	33	04	00	267
03	DST09	261	2	0	3	1	0	0	0	00	0	00	00	00	1	0	00	01	12	262
03	DST10	262	4	0	0	0	0	1	3	07	0	11	00	00	0	0	00	04	00	266
03	DST11	263	5	0	0	0	0	1	1	00	0	11	00	00	0	0	00	04	00	264
03	DST14	264	2	0	3	1	0	0	0	00	0	00	00	00	1	0	00	01	12	265
03	DST13	265	2	0	0	0	0	1	3	01	0	00	00	00	0	1	00	01	12	266
03	DST14	266	3	0	0	0	0	0	0	00	0	00	00	00	0	0	33	01	13	267
03	DST15	267	2	0	3	1	0	0	0	00	0	00	00	00	1	0	00	01	12	220
03	DST17	270	2	0	3	1	0	0	0	00	0	00	00	00	2	0	00	01	12	220
09	RSR01	271	6	0	3	0	1	0	0	00	0	32	00	00	2	0	27	04	00	274
09	RSR03	272	6	0	0	1	1	0	0	00	1	32	00	10	3	0	00	00	00	273
09	RSR04	273	6	0	1	0	1	0	0	00	0	32	00	02	2	0	27	04	00	274
09	RSR05	274	0	0	0	0	0	0	0	00	2	00	00	00	0	0	00	04	00	000
09	RSR07	275	4	0	0	0	1	0	5	00	0	32	00	00	2	0	00	00	00	277
09	RSR09	276	4	0	0	0	1	0	7	00	0	32	00	02	2	0	00	00	00	277
09	RSR10	277	3	0	0	0	0	0	0	00	2	00	00	00	2	0	16	00	00	376

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DRN. <i>[Signature]</i>	DATE 6-15-72	TITLE U WORD	
CHKD. <i>[Signature]</i>	DATE 6/16/72	(ADR 200-277)	
ENG. <i>[Signature]</i>	DATE 6/16/72	SIZE CODE KCS	NUMBER M7232-0-1
PROJ. ENG. <i>[Signature]</i>	DATE 6/16/72	REV. F	
PROD. <i>[Signature]</i>	DATE 6/20/72	SHEET 11 OF 12	
DIST.			

FLWS	STATE	ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
05	JMP04	300	2	0	3	1	0	0	0	00	0	00	00	00	2	0	00	01	10	306
05	JMP09	301	2	0	3	1	0	0	0	00	0	00	00	00	1	0	00	01	10	302
05	JMP10	302	5	0	0	0	1	1	1	00	0	11	00	00	0	0	15	04	00	303
5	JMP11	303	2	0	3	1	0	0	0	00	0	00	00	00	1	0	00	01	10	306
05	JMP14	304	2	0	3	1	0	0	0	00	0	00	00	00	1	0	00	01	10	305
05	JMP15	305	4	0	0	0	1	0	0	00	0	11	00	00	0	0	15	04	00	300
05	JMP12	306	4	0	0	0	1	0	0	00	0	00	00	00	0	0	16	01	10	313
05	JSR00	307	6	0	3	0	1	1	0	06	0	06	01	17	2	0	00	01	06	310
05	JSR01	310	5	0	0	0	1	0	5	00	0	00	00	00	0	0	00	10	00	311
05	JSR02	311	2	0	0	1	0	0	0	00	0	00	00	00	0	0	00	01	07	312
05	JSR03	312	6	0	3	0	1	0	0	00	0	32	00	00	2	0	00	10	00	306
05	JMP13	313	2	0	3	0	0	0	0	00	0	00	00	00	2	0	00	01	07	016
		314	0	0	0	0	0	0	0	00	0	00	00	00	0	0	00	00	00	000
11	CON13	315	2	0	0	0	0	0	0	00	0	00	00	00	0	0	06	00	00	046
		316	0	0	0	0	0	0	0	00	0	00	00	00	0	0	00	00	00	000
06	TRP01	317	6	0	3	0	1	0	0	00	0	32	00	17	2	0	00	01	14	215
06	RTI01	320	2	0	3	0	0	0	0	00	0	00	00	00	1	0	00	01	07	321
06	RTI02	321	7	0	3	0	1	1	1	00	0	11	02	17	2	1	00	01	06	322
06	RTI03	322	2	0	0	0	0	0	0	00	7	00	00	00	1	0	00	00	00	017
06	RYS01	323	2	0	3	0	0	0	0	00	0	00	00	00	2	0	00	01	07	324
06	RYS02	324	7	0	3	0	1	1	1	00	0	11	02	17	2	1	16	01	06	325
06	RYS03	325	2	0	3	0	0	0	0	00	0	00	00	00	1	0	00	04	00	016
06	TRP10	326	6	0	3	0	1	1	0	06	0	06	01	17	2	0	00	01	06	327
06	TRP11	327	5	0	0	0	1	0	5	00	6	00	00	00	0	0	00	00	00	113
06	TRP13	330	6	0	3	0	1	1	0	06	0	06	01	17	2	0	00	01	06	331
06	TRP14	331	5	0	0	0	1	0	5	00	0	00	00	00	0	0	00	01	07	077
06	TRP20	332	3	0	0	0	1	1	1	00	0	00	00	00	0	1	01	01	14	333
06	TRP21	333	2	0	3	0	0	0	0	00	0	00	00	00	1	0	03	01	07	122
06	TRP18	334	5	0	0	0	0	1	1	00	0	11	02	17	0	0	00	01	14	335
06	TRP19	335	2	0	0	0	0	0	0	00	7	00	00	00	1	0	00	00	00	332
06	TRP00	336	6	0	3	0	1	0	0	00	0	32	17	17	2	0	00	01	06	317
06	TRP17	337	6	0	3	0	1	0	0	00	0	32	11	17	2	0	00	01	14	334

NOTE: THE COMPLEMENT OF THE ACTUAL ROM OUTPUT FOR THE UPF FIELD IS LISTED FOR CLARITY.

FLWS	STATE	ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
07	BRA01	340	2	0	3	0	0	0	0	00	0	00	00	00	2	0	16	01	07	341
07	BRA02	341	6	0	3	0	1	0	0	00	0	11	00	05	2	0	00	01	07	016
07	S0B01	342	2	0	3	0	0	0	0	00	0	00	00	00	2	0	12	10	00	343
07	S0B02	343	6	0	0	1	1	0	0	00	0	33	13	17	2	0	00	01	13	344
07	S0B03	344	6	0	3	0	1	0	0	10	0	06	00	00	2	0	16	01	07	346
07	S0B05	345	2	0	0	0	0	0	0	00	0	00	00	00	2	0	16	00	00	347
07	S0B04	346	6	0	3	0	1	0	0	10	0	06	00	00	2	0	00	01	07	016
07	S0B06	347	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	01	13	016
07	CCC01	350	6	0	0	1	1	0	0	00	0	25	00	00	2	0	16	00	00	351
07	CCC02	351	6	0	0	0	1	0	0	00	3	33	02	00	2	0	00	00	00	016
07	SCC01	352	6	0	0	0	1	0	0	00	3	36	02	00	2	0	00	00	00	016
05	MRK01	353	6	0	3	0	1	1	1	00	0	11	02	05	2	0	00	01	07	354
05	MRK02	354	4	0	0	0	1	0	0	00	0	11	02	17	0	0	00	01	07	355
05	MRK03	355	3	0	3	0	0	0	0	00	0	00	00	00	2	0	00	01	06	356
05	MRK04	356	6	0	3	0	1	0	0	00	0	00	00	00	1	0	16	01	05	357
05	MRK05	357	2	0	3	0	0	0	0	00	0	00	00	00	2	0	00	01	07	016
08	DOP19	360	0	0	3	0	0	0	0	00	3	00	00	00	2	0	00	04	00	000
08	DOP18	361	0	0	1	0	0	0	0	00	3	00	00	00	2	0	00	04	00	000
08	DOP17	362	0	0	0	0	0	0	0	00	3	00	00	00	2	0	00	00	00	000
07	DOP01	363	4	0	0	0	1	0	0	10	0	06	00	00	0	0	27	04	00	360
08	DOP03	364	4	0	0	0	1	0	0	14	0	00	00	00	0	0	27	10	00	360
08	DOP00	365	4	0	0	0	1	0	5	10	0	06	00	00	0	0	00	01	12	367
08	DOP11	366	5	0	0	0	1	0	7	13	0	32	00	10	2	0	16	00	00	375
08	DOP12	367	3	0	0	0	0	0	0	12	3	00	00	00	2	0	16	00	00	375
08	DOP14	370	4	0	0	0	1	0	0	10	0	06	00	00	0	0	27	04	00	360
08	DOP10	371	4	0	0	0	1	0	0	14	0	00	00	00	0	0	27	01	11	360
07	SSL01	372	4	0	0	0	1	0	0	10	0	06	00	00	2	0	27	00	00	360
07	SSL03	373	2	0	0	0	0	0	0	00	1	00	00	00	2	0	27	00	00	360
09	SSL04	374	5	0	0	0	1	0	7	13	0	32	00	10	2	0	16	00	00	375
08	DOP20	375	2	0	0	0	0	0	0	00	0	00	00	00	2	0	00	00	00	016
09	RSR11	376	2	0	0	0	0	0	0	00	0	00	00	00	2	0	00	00	00	016
		377	0	0	0	0	0	0	0	00	0	00	00	00	0	0	00	00	00	000

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DRN	DATE	TITLE	
<i>[Signature]</i>	5-5-72	U WORD	
CHK'D	DATE	(ADR 300-377)	
<i>[Signature]</i>	6/16/72		
ENG	DATE	SIZE CODE	NUMBER
<i>[Signature]</i>	6/16/72	KCS	M7232-0-1
PROJ. ENG.	DATE	REV.	F
<i>[Signature]</i>	6/16/72		
PROD.	DATE		
<i>[Signature]</i>	6/16/72		
SHEET 12 OF 12	DIST.		

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D

C

B

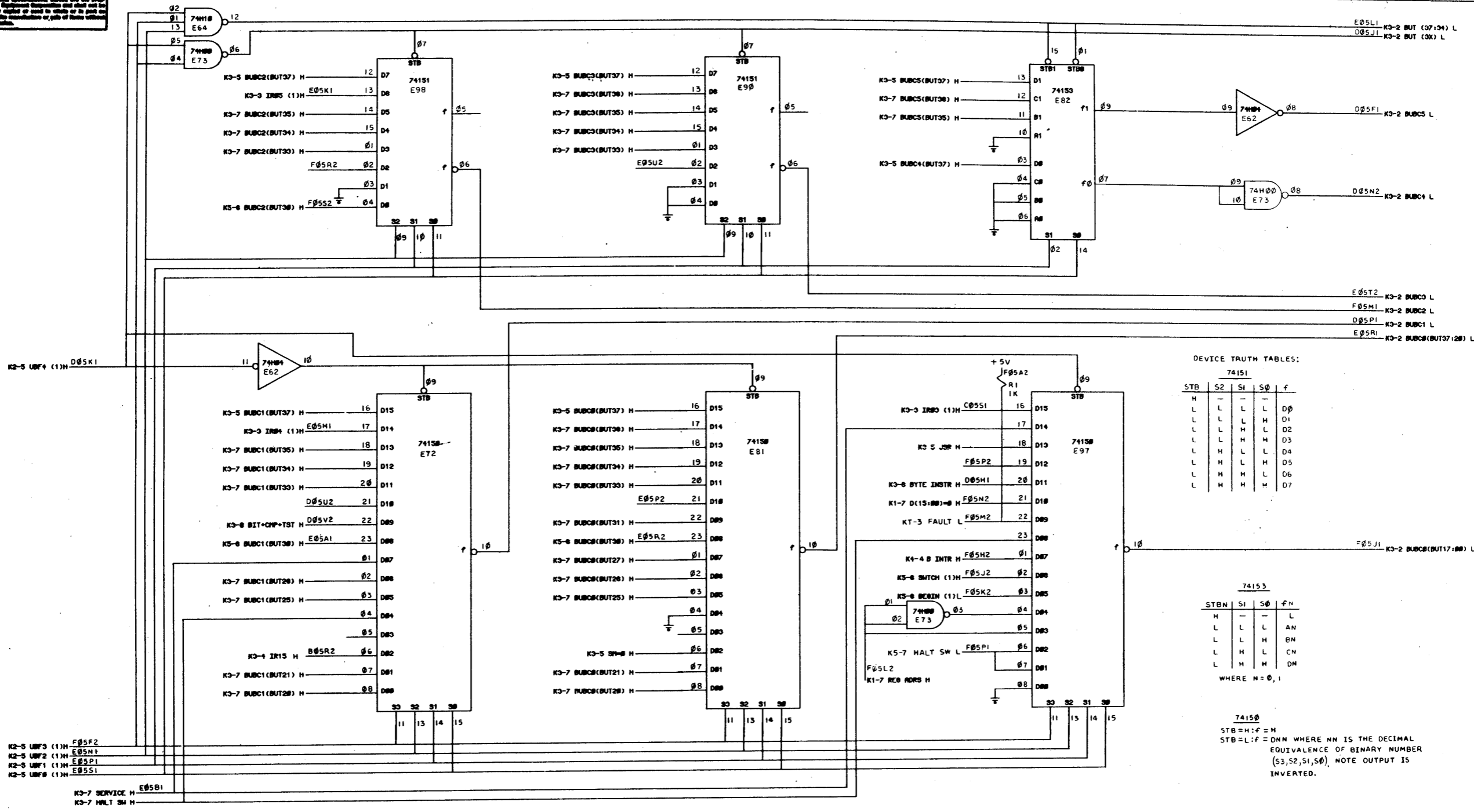
A

D

C

B

A



E05L1 K3-2 BUT (37:34) L
D05J1 K3-2 BUT (3X) L

E05T2 K3-2 BUBC3 L
F05M1 K3-2 BUBC2 L
D05P1 K3-2 BUBC1 L
E05R1 K3-2 BUBC0 (BUT07:20) L

F05J1 K3-2 BUBC0 (BUT17:00) L

DEVICE TRUTH TABLES:

74151

STB	S2	S1	S0	f
H	-	-	-	D0
L	L	L	L	D1
L	L	L	H	D2
L	L	H	L	D3
L	L	H	H	D4
L	H	L	L	D5
L	H	L	H	D6
L	H	H	L	D7

74153

STBN	S1	S0	fN
H	-	-	L
L	L	L	AN
L	L	H	BN
L	H	L	CN
L	H	H	DN

WHERE N = 0, 1

74150
STB = H: f = H
STB = L: f = 0NN WHERE NN IS THE DECIMAL EQUIVALENCE OF BINARY NUMBER (S2, S1, S0). NOTE OUTPUT IS INVERTED.

K2-5 UBF3 (1)H F05F2
K2-5 UBF2 (1)H E05N1
K2-5 UBF1 (1)H E05P1
K2-5 UBF0 (1)H E05S1

K3-7 SERVICE H E05B1
K3-7 HALT SW H

PRODUCED BY THE AUTOMATED DRAFTING SYSTEM

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES FRACTIONS DECIMALS ANGLES ±.005 ±.002 ±.010 ±.020 FURNISH TO SPECIFICATION RESERVE DIMS AND DIMS GROUP CHANGES	DATE 2-2-72	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
	DESIGNED BY CHECKED BY DRAWN BY	
TITLE IR DECODE BUT MAX K3-2	DATE 12/77 12/77 12/77	NUMBER M7233-0-1
SCALE SHEET 2 OF 9	REV. E	DATE 1 AUG 25 1977

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D

C

B

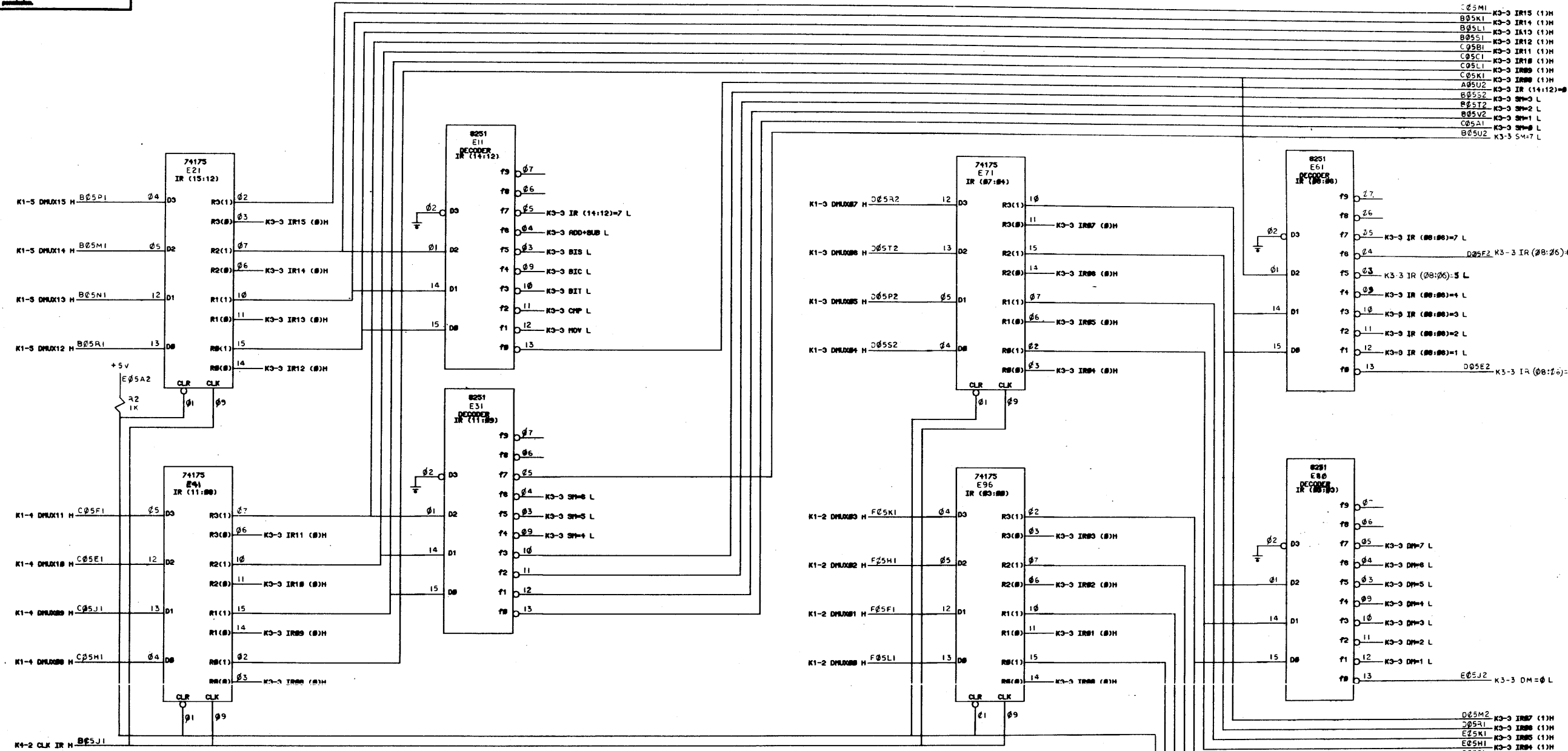
A

D

C

B

A



- 005M1 K3-3 IR15 (1)H
- B05K1 K3-3 IR14 (1)H
- B05L1 K3-3 IR13 (1)H
- B05S1 K3-3 IR12 (1)H
- C05B1 K3-3 IR11 (1)H
- C05C1 K3-3 IR10 (1)H
- C05L1 K3-3 IR09 (1)H
- C05K1 K3-3 IR08 (1)H
- A05U2 K3-3 IR (14:12)=0 L
- B05S2 K3-3 SM=3 L
- B05T2 K3-3 SM=2 L
- B05V2 K3-3 SM=1 L
- C05A1 K3-3 SM=0 L
- B05U2 K3-3 SM=7 L

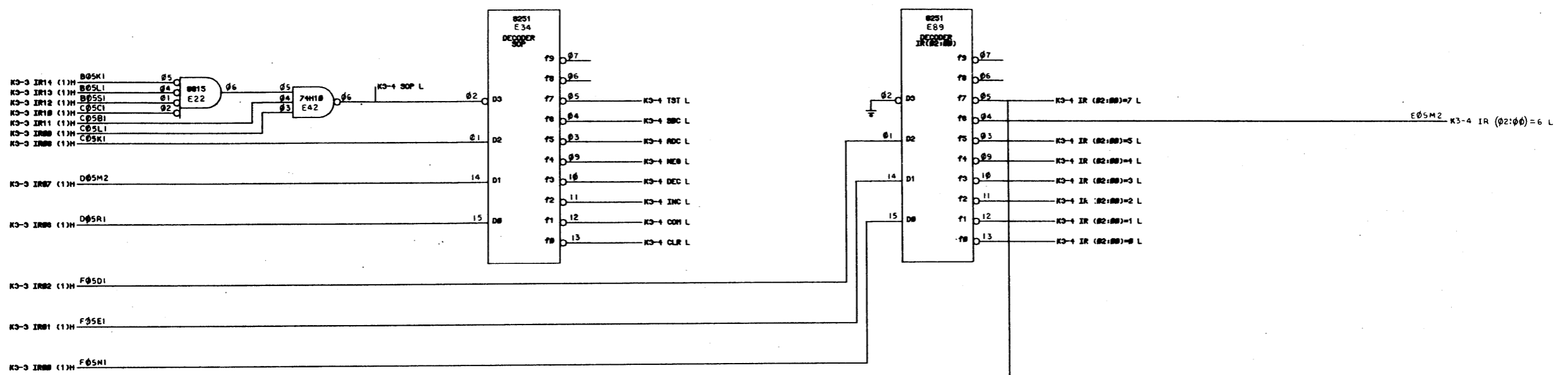
- D05M2 K3-3 IR07 (1)H
- D05R1 K3-3 IR06 (1)H
- E05K1 K3-3 IR05 (1)H
- E05H1 K3-3 IR04 (1)H
- C05S1 K3-3 IR03 (1)H
- F05D1 K3-3 IR02 (1)H
- F05E1 K3-3 IR01 (1)H
- F05H1 K3-3 IR00 (1)H
- B05H2 K3-3 CLR IR L

DEVICE TRUTH TABLE:
 8251
 FOR THE DECIMAL EQUIVALENCE, M, OF THE BINARY NUMBER (D3,D2,D1,D0), ONLY OUTPUT #N IS ACTIVE (LOW) FOR 0 ≤ N < 10

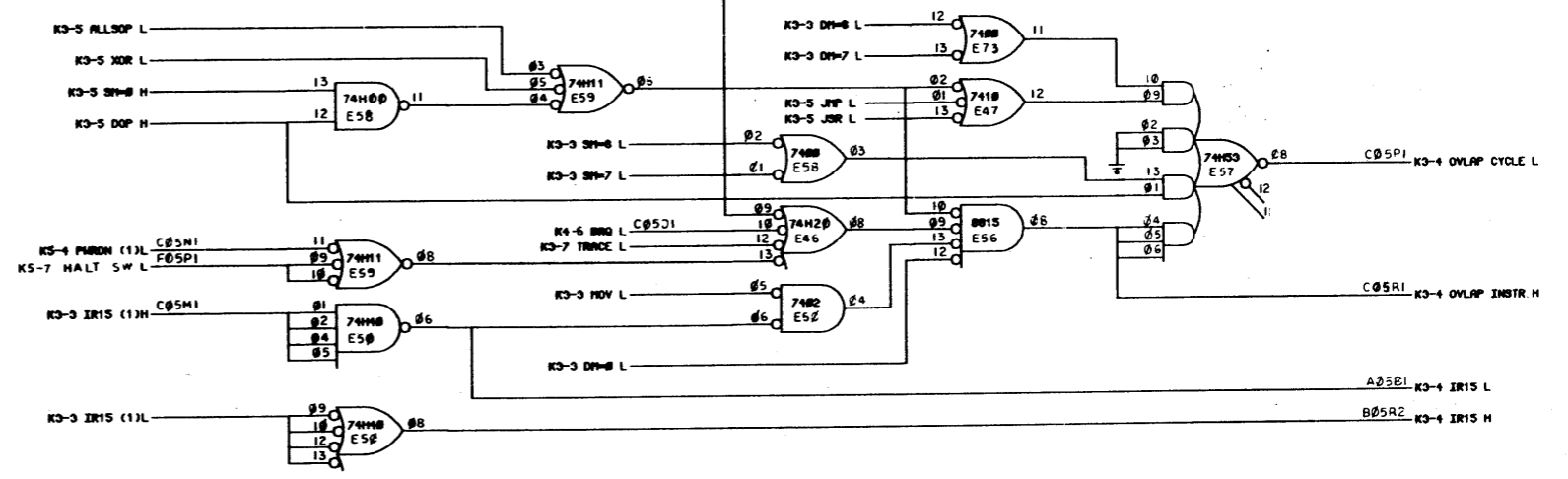
-PRODUCED BY THE AUTOMATED DRAFTING SYSTEM-

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES	DATE 3-2-72	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
TOLERANCES DIMENSIONAL FINISHES SURFACE QUALITY MATERIAL QUALITY SERIAL NUMBER AND BATCH NUMBER	DATE 1/27/72	
FORM	POP11	TITLE IR DECODE IR & DECODE K3-3
SCALE SHEET 3 OF 5	NUMBER M7233-0-1	REV E

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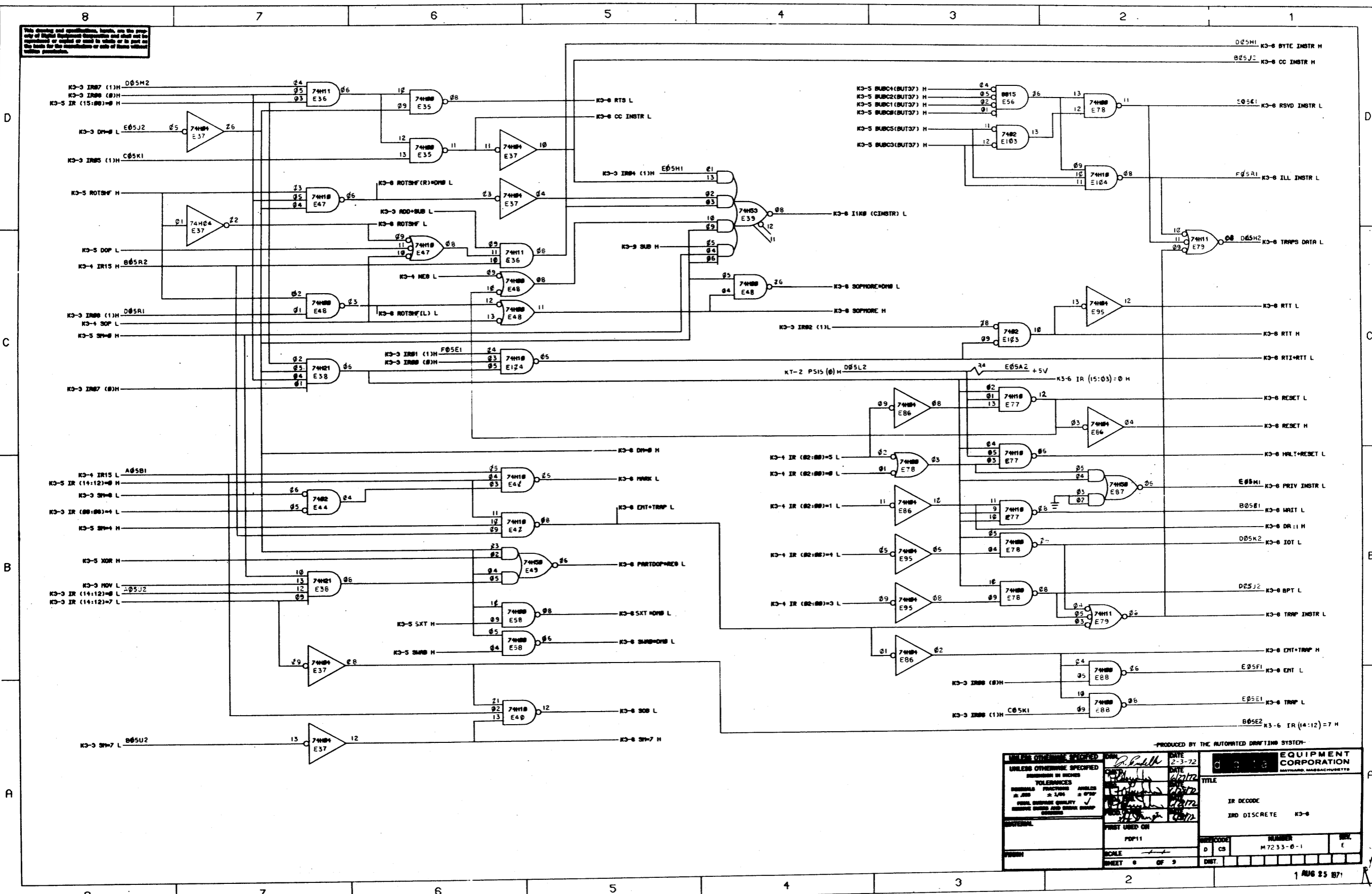
DEVICE TRUTH TABLE:
8251
 FOR THE DECIMAL EQUIVALENCE, N_n , OF THE BINARY NUMBER (D3, D2, D1, D0), ONLY OUTPUT N IS ACTIVE (LOW) FOR $0 \leq N < 10$



-PRODUCED BY THE AUTOMATED DRAFTING SYSTEM-

UNLESS OTHERWISE SPECIFIED		DATE		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DIMENSIONS IN INCHES		2-2-72		TITLE	
TOLERANCES		DATE		IR DECODE	
FRACTIONS ± 1/64		12/72		IR0 & OVLAP	
DECIMALS ± 0.001		12/72		K3-4	
HOLE DIMENSIONS ± 0.005		12/72		REV	
HOLE DIMENSIONS ± 0.005		12/72		E	
HOLE DIMENSIONS ± 0.005		12/72		D	
HOLE DIMENSIONS ± 0.005		12/72		C	
HOLE DIMENSIONS ± 0.005		12/72		M7233-0-1	
HOLE DIMENSIONS ± 0.005		12/72		SHEET 4 OF 9	
HOLE DIMENSIONS ± 0.005		12/72		1	

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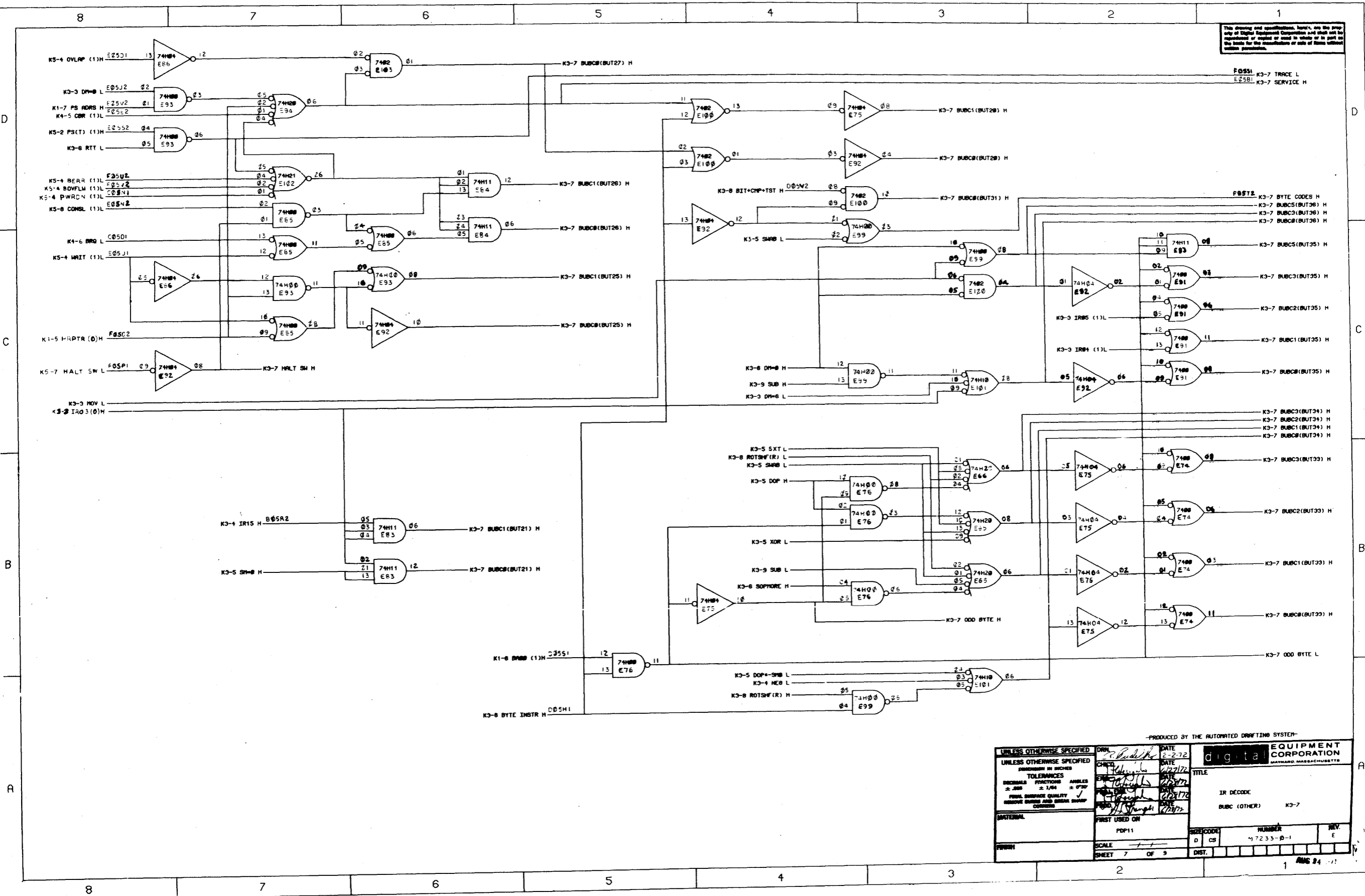


-PRODUCED BY THE AUTOMATED DRAFTING SYSTEM-

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES FRACTIONS DECIMALS ±.001 ±.002 ±.005 HOLE DIMENSIONS QUALITY HOLE DIMENSIONS AND DRILL SHARP CORNER	DATE 2-3-72	EQUIPMENT CORPORATION MAYFIELD, MASSACHUSETTS
	DATE 6/27/72	
DESIGNED BY R. B. BULL	CHECKED BY R. B. BULL	TITLE IR DECODE
APPROVED BY R. B. BULL	DATE 6/27/72	REV. DISCRETE K3-6
PROJECT USED ON POP11	SCALE AS SHOWN	NUMBER M7233-0-1
DRAWN BY R. B. BULL	SHEET 6 OF 9	REV. E

1 AUG 25 1971

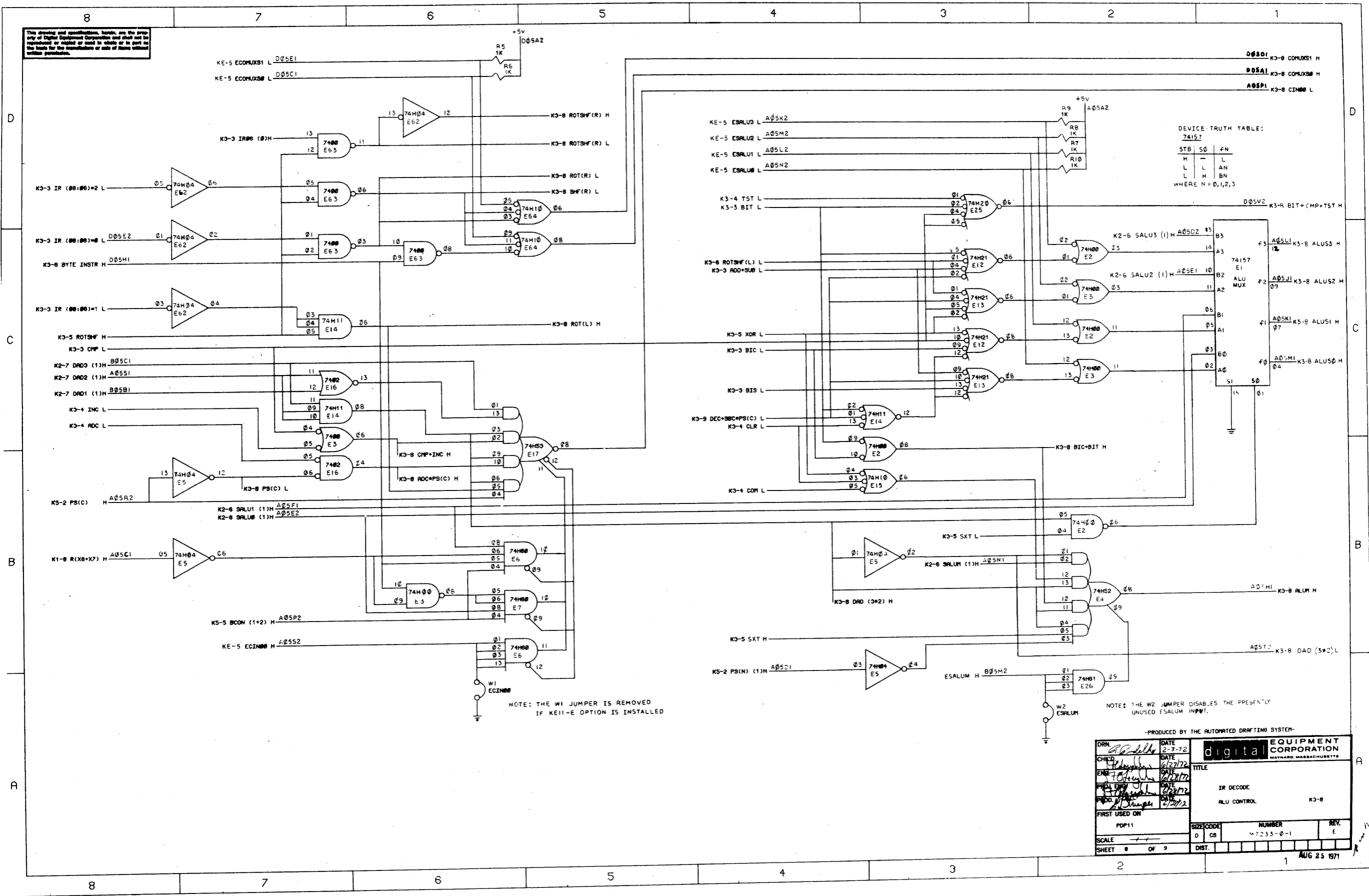
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-PRODUCED BY THE AUTOMATED DRAWING SYSTEM-

UNLESS OTHERWISE SPECIFIED		DATE	EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED		2-2-72	MAYNARD, MASSACHUSETTS	
DIMENSIONS IN INCHES		DATE	TITLE	
TOLERANCES		01/27/72	IR DECODE	
DECIMAL FRACTIONS		02/27/72	BUBC (OTHER) K3-7	
ANGLES ± 1/64		03/27/72	NUMBER	
SURFACE QUALITY		04/27/72	REV. E	
REMOVE BURRS AND SHARP CORNERS		05/27/72	SCALE	
MATERIAL		POP11	SHEET 7 OF 9	
FIRST USED ON		DATE	DIST.	
DRAWN		SCALE	AUG 84	

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DEVICE TRUTH TABLE:
74157

STB	S0	FN
H	-	L
L	L	AN
L	H	BN

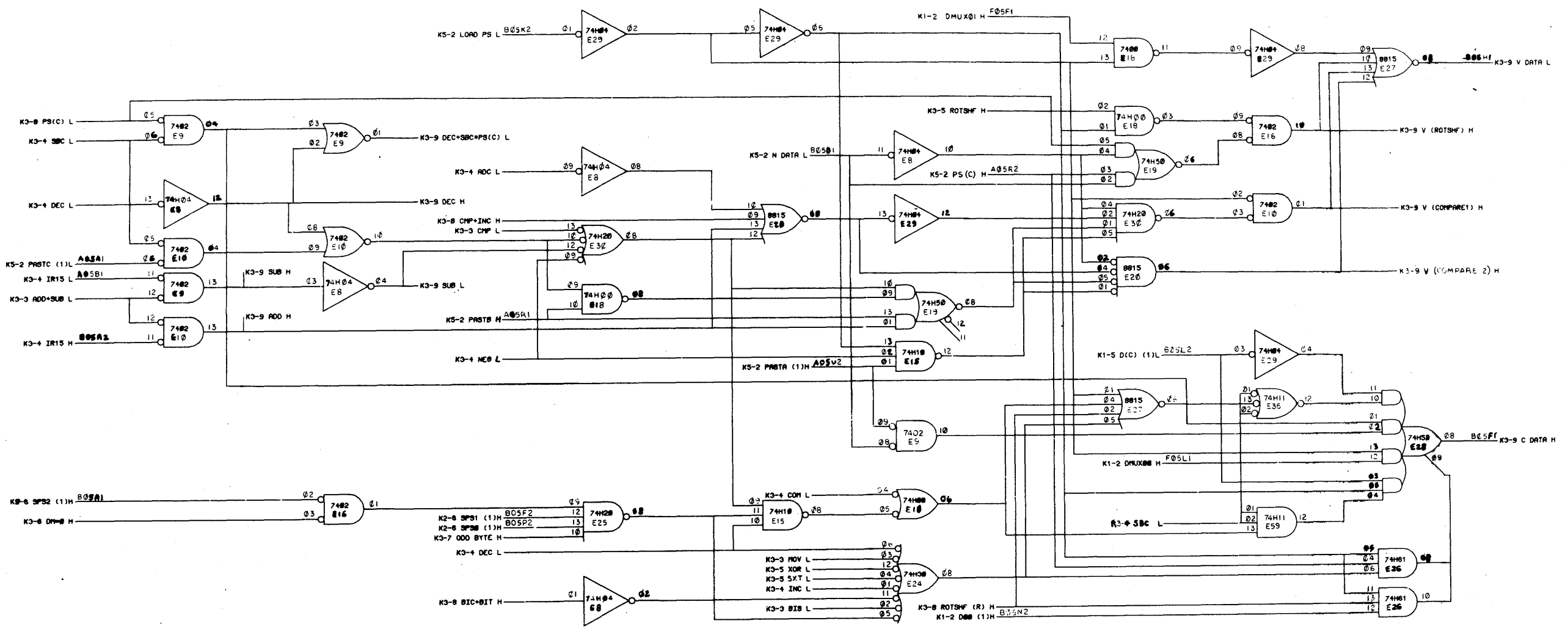
WHERE N = 0, 1, 2, 3

PRODUCED BY THE AUTOMATED DRAWING SYSTEM

DRN <i>R. Kelly</i>	DATE 2-3-72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHKD <i>W. Johnson</i>	DATE 6/27/72	
ENG <i>J. O'Brien</i>	DATE 6/23/72	TITLE
PRD <i>J. O'Brien</i>	DATE 6/23/72	IR DECODE
FOOD <i>J. O'Brien</i>	DATE 6/27/72	ALU CONTROL K3-8
FIRST USED ON	POP11	SCALE
SCALE	SIZE CODE D CS	NUMBER 47233-0-1
SHEET 8 OF 9	DIST.	REV. E

AUG 25 1971

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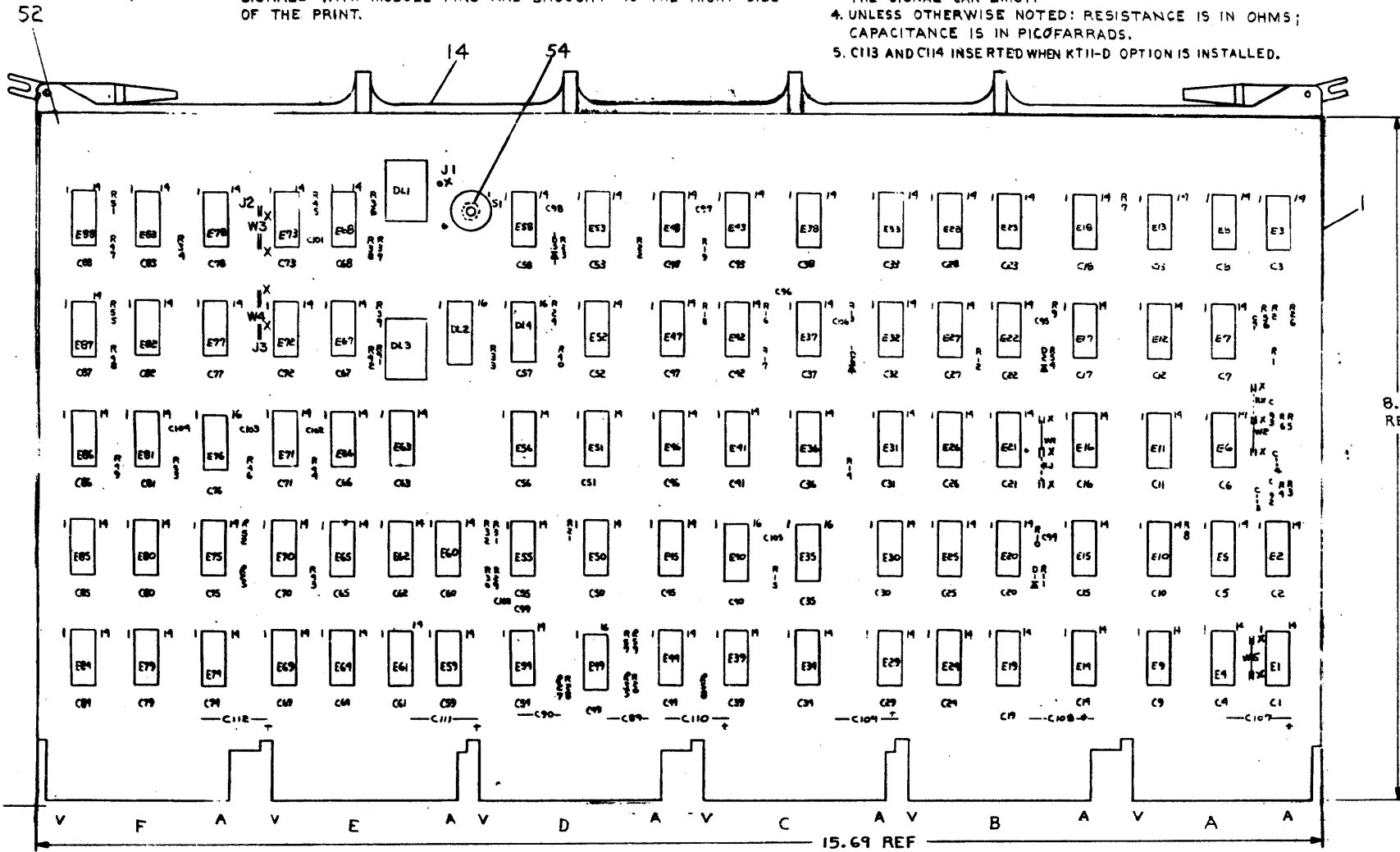
-PRODUCED BY THE AUTOMATED DRAFTING SYSTEM-

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES		DATE 2-3-72	EQUIPMENT CORPORATION MAYFIELD, MASSACHUSETTS
TOLERANCES DIMENSIONS ± .005 ANGLES ± 1/64 ± 0.25		DATE 6/27/72	
FINISH SURFACE QUALITY RESOLVE SURF AND BEVEL SHARP CORNERS		DATE 3-1-72	TITLE IR DECODE
MATERIAL		DATE 2/15/72	CODES C,V K3-9
PART USED ON POP11		SCALE 1:1	NUMBER M7233-0-1
DRAWN R. P. Kelly		CHECKED R. P. Kelly	REV. E
APPROVED R. P. Kelly		DATE 2/15/72	SHEET 9 OF 9
DRAWN R. P. Kelly		DATE 2/15/72	NO. 1

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NOTES:

- PIN NOTATION THROUGHOUT IS ORDER UPON MODULE PLACEMENT IN THE KDII-A PROCESSOR. MODULE REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE FIRST LETTER.
- ALL SIGNALS THAT HAVE MODULE PINS ARE SO NOTED. OUTPUT SIGNALS WITH MODULE PINS ARE BROUGHT TO THE RIGHT SIDE OF THE PRINT.
- PROCESSOR SIGNAL PREFIX NOTATION (K2-1 FOR EXAMPLE) IDENTIFIES THE SIGNAL SOURCE (PRINT AND MODULE). THE FIRST NUMBER AFTER THE K INDICATES THE MODULE PRINT SET, WHILE THE SECOND INDICATES THE SHEET WITHIN THE SET. SIGNALS WITH A "BUS" PREFIX REPRESENTS A "WIRED OR" SITUATION, AND MULTIPLE SOURCES FOR THE SIGNAL CAN EXIST.
- UNLESS OTHERWISE NOTED: RESISTANCE IS IN OHMS; CAPACITANCE IS IN PICOFARRADS.
- CI13 AND CI14 INSERTED WHEN KII-D OPTION IS INSTALLED.

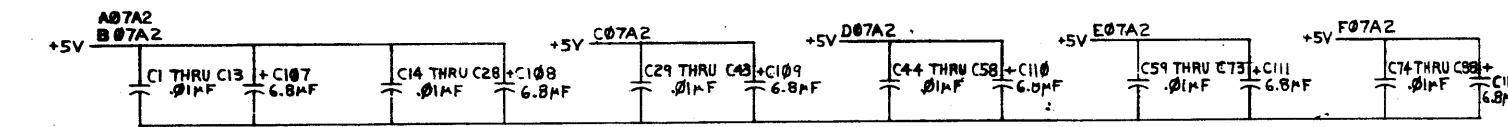


QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
5	W1, W2, W3, W4, W5	INSULATED JUMPER	9009185	29
1	USED AS A SPACER	HEX NYLON NUT, # 4-40	9007992	34
13		SPLIT LUGS	9006735	53
12		EYELET	9006732	52
1	E40	I.C. DEC 74175	1910651	51
3	E35, E49, E76	I.C. DEC 74123	1910436	50
4	E26, E30, E56, E17	I.C. DEC 8815	1909713	48
6	E2, E8, E42, E44, E55, E70	I.C. DEC 8801	1909705	47
7	E7, E15, E29, E32, E53, E75, E88	I.C. DEC 7404	1909686	46
5	E10, E27, E78, E93, E12	I.C. DEC 74H74	1911667	45
4	E1, E3, E37, E39	I.C. DEC 8640	1911469	44
7	E14, E33, E46, E47, E60, E71, E5	I.C. DEC 74H11	1909267	43
1	E89	I.C. DEC 74H55	1909063	42
3	E77, E92, E6	I.C. DEC 74H53	1909062	41
4	E16, E23, E65, E31	I.C. DEC 74H50	1909060	40
2	E34, E51	I.C. DEC 74H21	1909058	39
4	E17, E4, E41, E69	I.C. DEC 74H10	1909057	38
6	E21, E63, E64, E66, E72, E73	I.C. DEC 74H00	1909056	37
3	E22, E43, E86	I.C. DEC 7402	1909004	36
5	E62, E87, E9, E80, E48	I.C. DEC 74H20	1905635	35
5	E59, E67, E68, E61, E25	I.C. DEC 74H40	1905596	34
				33
				32
				31
				30
10	E18, E20, E28, E36, E45, E52, E74, E79, E84, E85	I.C. DEC 7400	1905575	29
7	E11, E13, E38, E50, E54, E81	I.C. DEC 7474	1905547	28
2	DL2, DL4	DELAY LINE 100NS	1612033	27
1	DL3	DELAY LINE 50NS	1609428	26
1	DL1	DELAY LINE 30NS	1609427	25
2	R20, R28	RES 39K 1/4W ±5%	1302514	24
3	R15, R46, R53	RES 5.6K 1/4W ±5%	1301874	23
23	R1, R2, R3, R5, R7, R8, R12, R18, R21, R22, R25, R26, R27, R31, R32, R34, R43, R47, R48, R49, R51, R52, R55	RES 1K 1/4W ±5%	1300365	22
4	R35, R57, R58, R59	RES 180 1/4W ±5%	1301322	21
5	R9, R10, R14, R17, R24	RES 470 1/4W ±5%	1300316	20
2	R39, R37	RES 330 1/4W ±5%	1300295	19
6	R11, R13, R23, R33, R40, R54	RES 220 1/4W ±5%	1300271	18
2	R38, R41	RES 150 1/4W ±5%	1300250	17
3	R36, R42, R45	RES 100 1/4W ±5%	1300229	16
8	R4, R6, R16, R19, R29, R30, R44, R56	RES 47 1/4W ±5%	1300202	15
1		HANDLE MODULE SWITCH, 10 POS	1210711-02	14
1	S1		1210042-01	13
4	DI, DZ, D5, D6	DIODE D664	1100114	12
6	CI07 THRU CI12	CAP 6.8MF 35V ±10% TANT	1005306	11
3	C89, C90, C91	CAP 1200PF 100V ±5% D.M.	1002619	10
2	CI04, CI05	CAP 27PF 100V ±5% D.M.	1001739	9
88	CI THRU C88	CAP .01MF 100V ±20% DISC	1001610	8
3	C97, CI01, CI03	CAP 1000PF 100V ±5% D.M.	1000042	7
				6
3	C92, C99, CI00	CAP 470PF 100V ±5% D.M.	1000024	5
5	C94, C96, C98, CI02, CI06	CAP 330PF 100V ±5% D.M.	1000023	4
2	C93, C95	CAP 220PF 100V ±5 D.M.	1000021	3
				2
1		ETCH CIRCUIT BOARD	5009983	1

IC TYPE	GND	+5V
DEC 74175	8	16
DEC 74123	8	16
DEC 8640	1	8

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

IC PIN LOCATIONS



A67C2, A67T1
B07C2, B07T1
C07C2, C07T1
D07C2, D07T1
E07C2, E07T1
F07C2, F07T1

FIRST USED ON OPTION MODEL: PDP 11

ETCH BOARD REV: D

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

SEMICONDUCTOR CONVERSION CHART

EQUIPMENT CORPORATION
MAYFIELD, MASSACHUSETTS

TIMING

DATE: 6-23-72
REV: 1
TITLE: TIMING

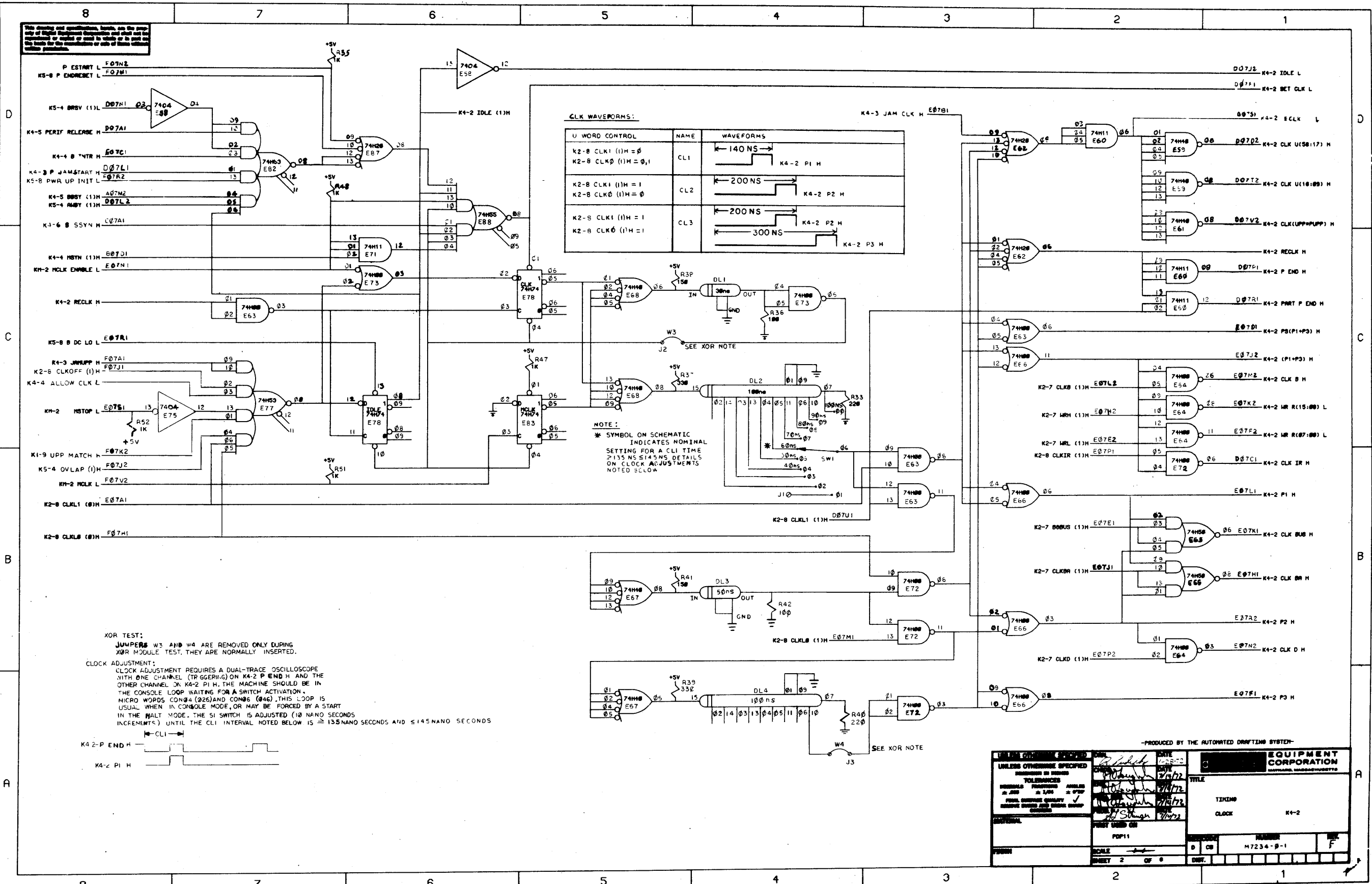
SCALE: 1 OF 6
SHEET: 1 OF 6

SIZE CODE: DCS
NUMBER: M7234-0-1
REV: F

REVISIONS:

CHK	CHANGE NO.	REV

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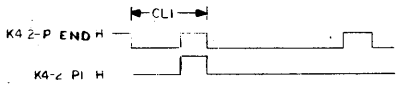
CLK WAVEFORMS:

U WORD CONTROL	NAME	WAVEFORMS
K2-8 CLK1 (1)H = 0 K2-8 CLK0 (1)H = 0,1	CL1	140 NS K4-2 P1 H
K2-8 CLK1 (1)H = 1 K2-8 CLK0 (1)H = 0	CL2	200 NS K4-2 P2 H
K2-8 CLK1 (1)H = 1 K2-8 CLK0 (1)H = 1	CL3	200 NS 300 NS K4-2 P3 H

NOTE:
* SYMBOL ON SCHEMATIC INDICATES NOMINAL SETTING FOR A CLI TIME > 135 NS. SEE DETAILS ON CLOCK ADJUSTMENTS NOTED BELOW.

XOR TEST:
JUMPERS W3 AND W4 ARE REMOVED ONLY DURING XOR MODULE TEST. THEY ARE NORMALLY INSERTED.

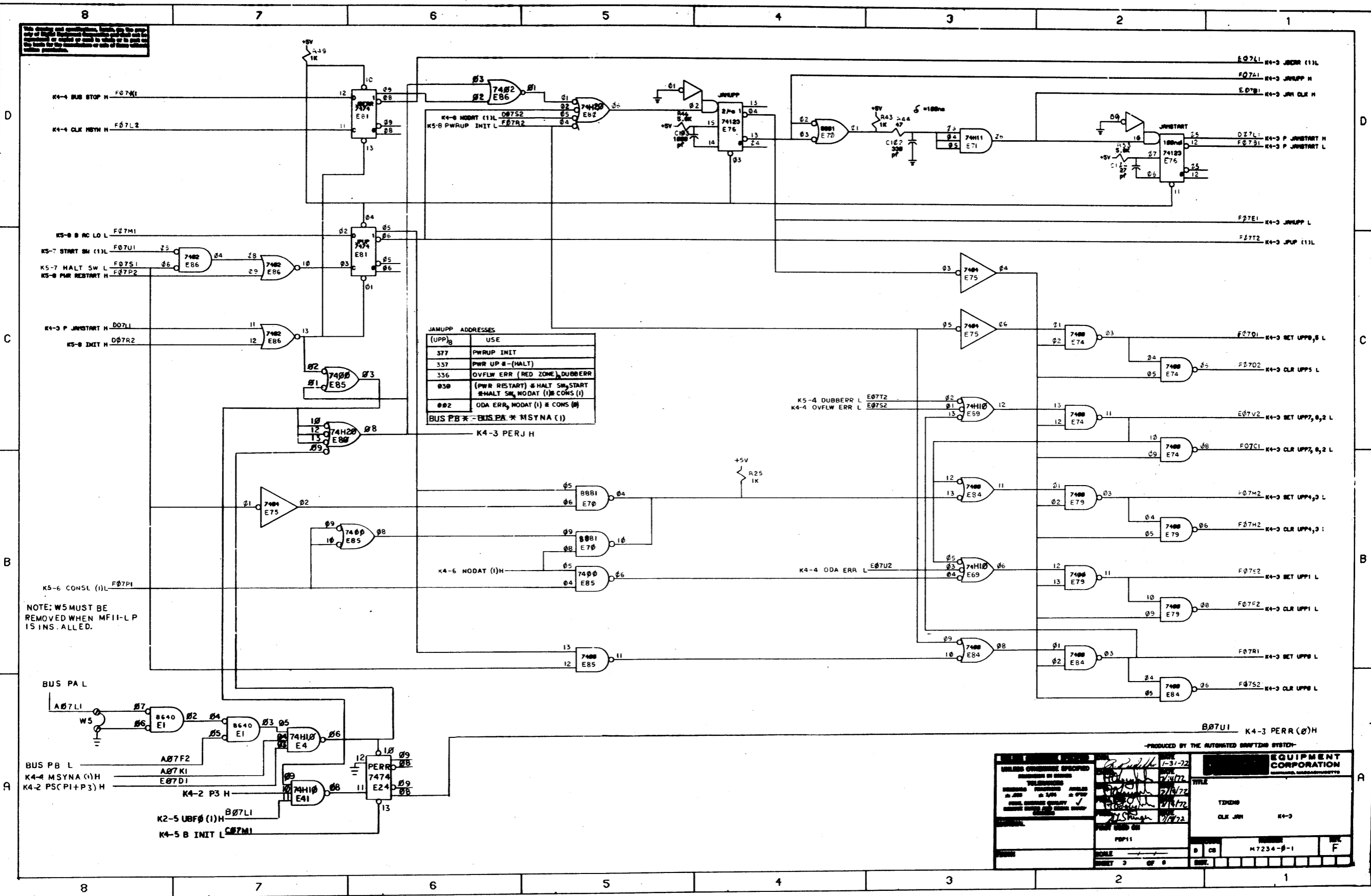
CLOCK ADJUSTMENT:
CLOCK ADJUSTMENT REQUIRES A DUAL-TRACE OSCILLOSCOPE WITH ONE CHANNEL (TRIGGERING) ON K4-2 P END H AND THE OTHER CHANNEL ON K4-2 P1 H. THE MACHINE SHOULD BE IN THE CONSOLE LOOP WAITING FOR A SWITCH ACTIVATION. MICRO WORDS CON04 (026) AND CON06 (046). THIS LOOP IS USUAL WHEN IN CONSOLE MODE, OR MAY BE FORCED BY A START IN THE HALT MODE. THE S1 SWITCH IS ADJUSTED (10 NANO SECONDS INCREMENTS) UNTIL THE CLI INTERVAL NOTED BELOW IS ≈ 135 NANO SECONDS AND ≤ 145 NANO SECONDS



—PRODUCED BY THE AUTOMATED DRAFTING SYSTEM—

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN MILLIMETERS TOLERANCES FRACTIONS DECIMALS ANGLES ± .005 ± .002 ± .001 ± .0005 SURFACE FINISH R0.8 R0.4 R0.2 R0.1 HOLE FINISH R0.8 R0.4 R0.2 R0.1	DATE: 12-28-73 DRAWN: [Signature] CHECKED: [Signature] APPROVED: [Signature] TITLE: EQUIPMENT CORPORATION MAYFIELD, MASSACHUSETTS
PROJECT: POP11 SCALE: 1:1 SHEET: 2 OF 6	TYPING: [Signature] CLOCK: K4-2 NUMBER: M7234-0-1 REV: F

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(UPP) ₈	USE
377	PWRUP INIT
337	PWR UP \bar{E} (HALT)
336	OVFLW ERR (RED ZONE), DUBBER
030	(PWR RESTART) \bar{E} HALT SW ₂ START
	\bar{E} HALT SW ₁ NODAT (I) \bar{E} CONS (I)
002	ODA ERR, NODAT (I) \bar{E} CONS (0)

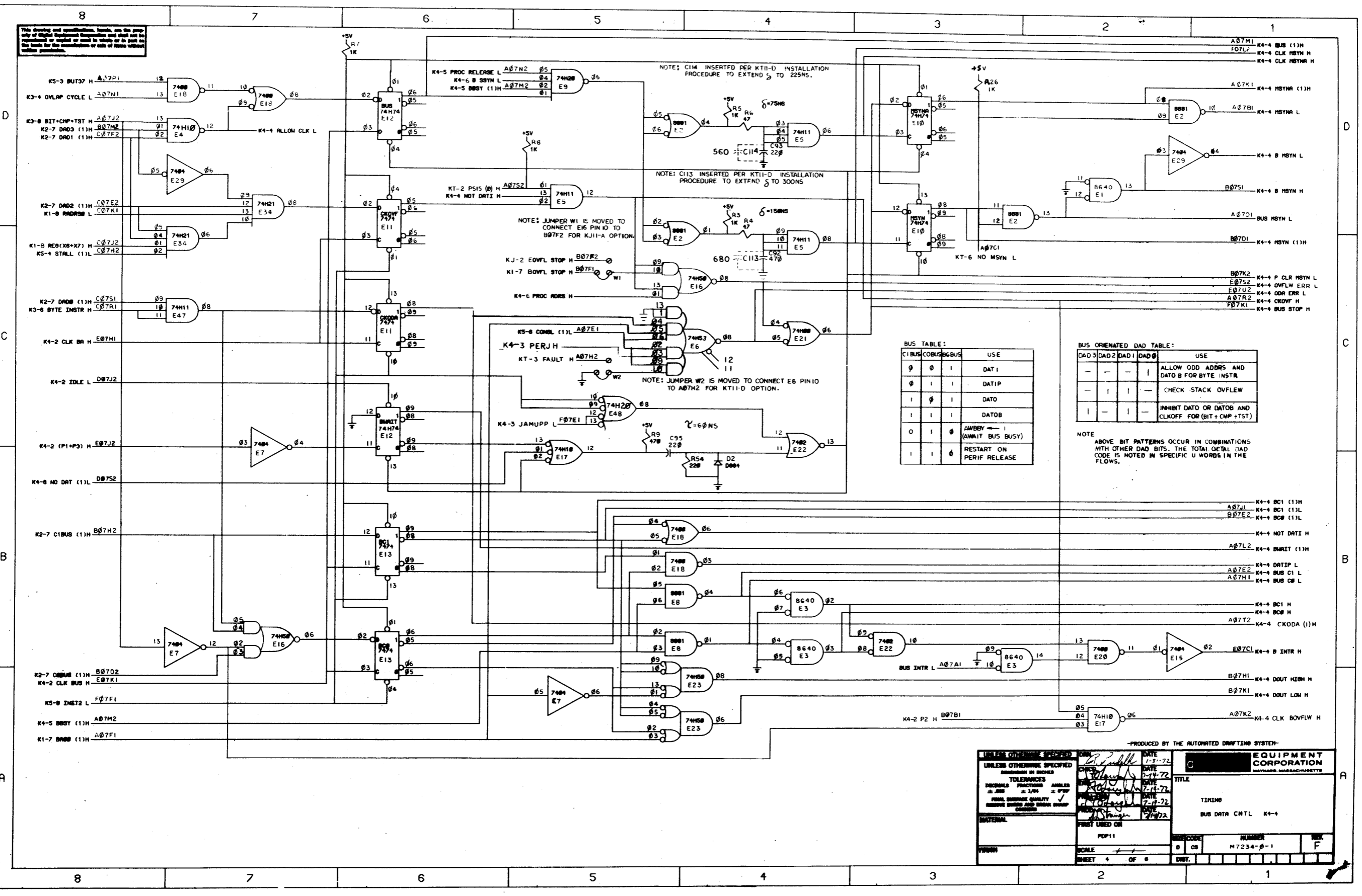
BUS PB \bar{E} = BUS PA * MSYNA (I)
K4-3 PER J H

NOTE: W5 MUST BE REMOVED WHEN MF11-L P IS INSTALLED.

PRODUCED BY THE AUTOMATED BRIDGING SYSTEM

DESIGNED BY	DATE	1-31-72
DRAWN BY	DATE	7/14/72
CHECKED BY	DATE	7/14/72
APPROVED BY	DATE	7/14/72
SCALE	M7234-0-1	
EQUIPMENT CORPORATION		
TITLE		
TDRNG		
CLR JAM K4-3		
REV. F		

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BUS TABLE:

CIBUS	COBUS	BCBUS	USE
0	0	1	DAT 1
0	1	1	DATIP
1	0	1	DATO
1	1	1	DATOB
0	1	0	AWBYE ← 1 (AWAIT BUS BUSY)
1	1	0	RESTART ON PERIF RELEASE

BUS ORIENTED DAD TABLE:

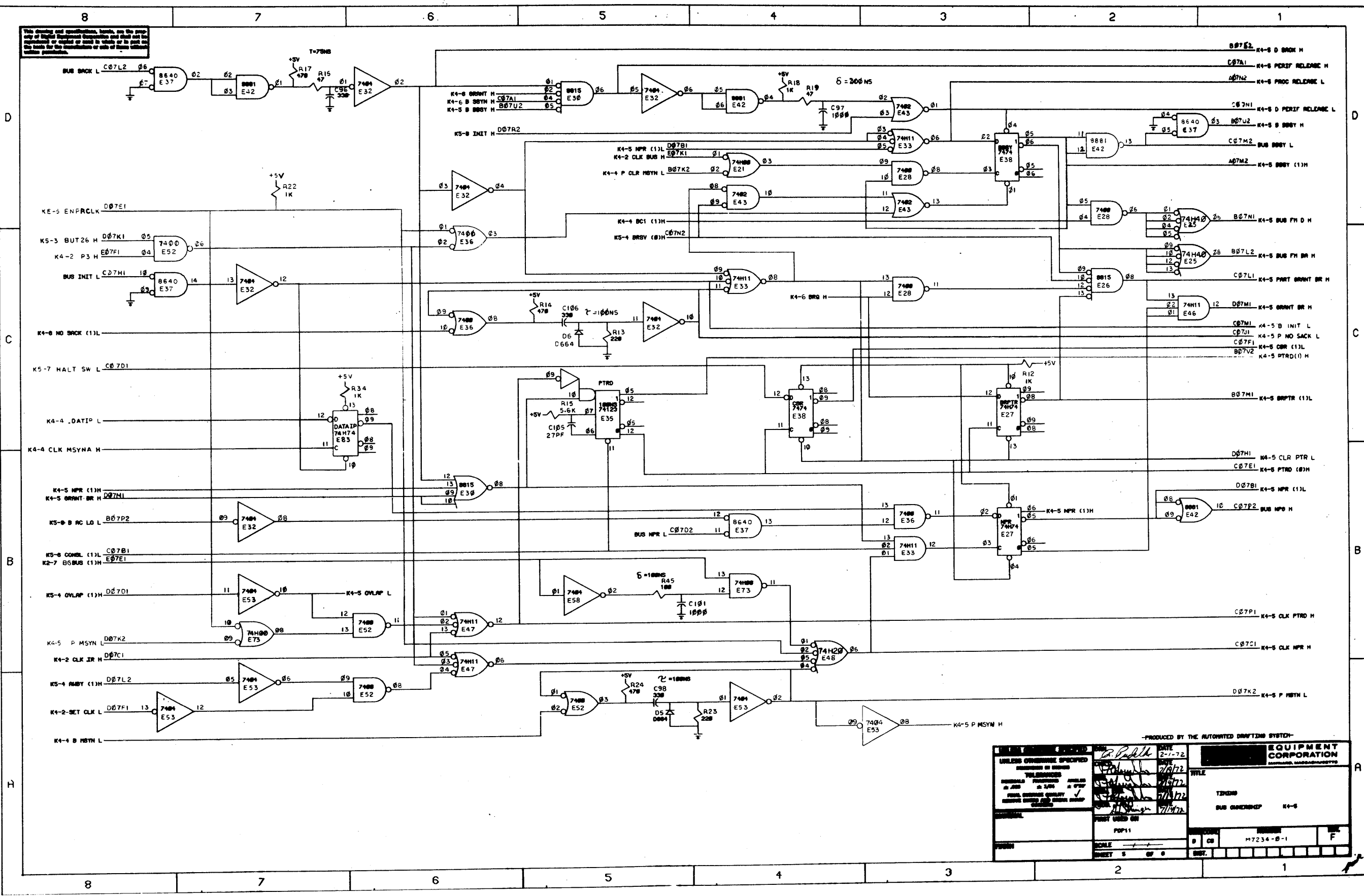
DAD3	DAD2	DAD1	DAD0	USE
-	-	-	1	ALLOW ODD ADDR AND DATO B FOR BYTE INSTR
-	1	1	-	CHECK STACK OVFLW
1	-	1	-	INHIBIT DATO OR DATOB AND CLKOFF FOR (BIT + CMP + TST)

NOTE
 ABOVE BIT PATTERNS OCCUR IN COMBINATIONS WITH OTHER DAD BITS. THE TOTAL OCTAL DAD CODE IS NOTED IN SPECIFIC U WORDS IN THE FLOWS.

-PRODUCED BY THE AUTOMATED DRAWING SYSTEM-

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ±.000 ±.004 ±.000 FINE SURFACE QUALITY REMOVE BURRS AND CHAMFER SHARP CORNERS	DATE 1-31-72	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
	CHECKED DATE 0-14-72	
	DATE 7-11-72	
MATERIAL	DATE 7-11-72	TITLE TIMING BUS DATA CNTL K4-4
FINISH	SCALE 1/1	NUMBER M7234-B-1
	SHEET 4 OF 6	DWT. F

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-PRODUCED BY THE AUTOMATED DRAFTING SYSTEM-

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES FRACTIONS DECIMALS ANGLES ± 0.010 ± 0.005 ± 0.010 SURFACE FINISH UNLESS OTHERWISE SPECIFIED CLASS	DATE 2-1-72	EQUIPMENT CORPORATION ROSLINDALE, MASSACHUSETTS
	FILE M7234-0-1	
DESIGNED BY CHECKED BY DRAWN BY	DATE 7/8/72 7/11/72 7/14/72	TITLE BUS CONTROLLER K4-5
SCALE SHEET 5 OF 8	REV.	

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D

C

B

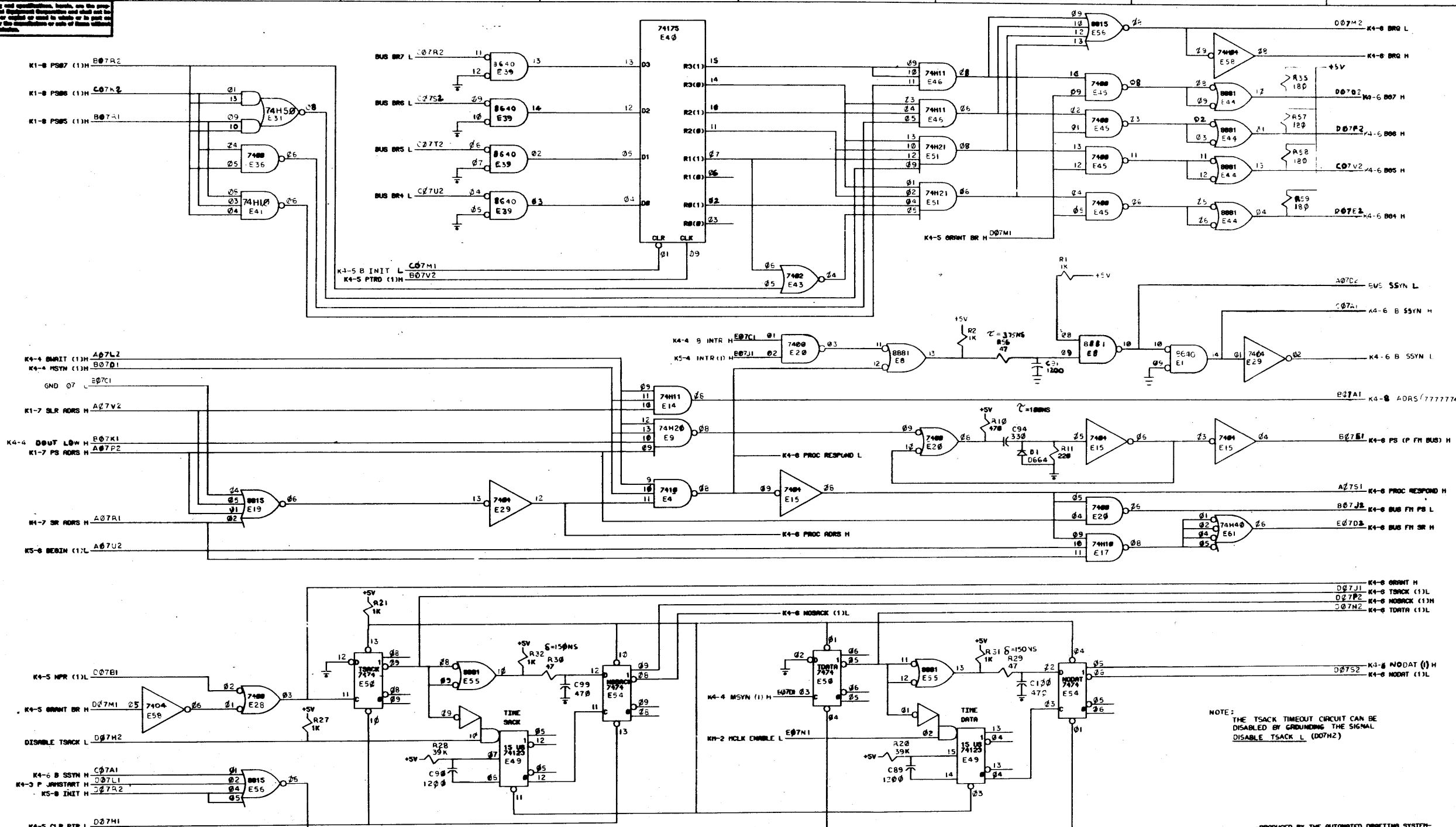
A

D

C

B

A



NOTE: THE TSACK TIMEOUT CIRCUIT CAN BE DISABLED BY GROUNDING THE SIGNAL DISABLE TSACK L (D07H2)

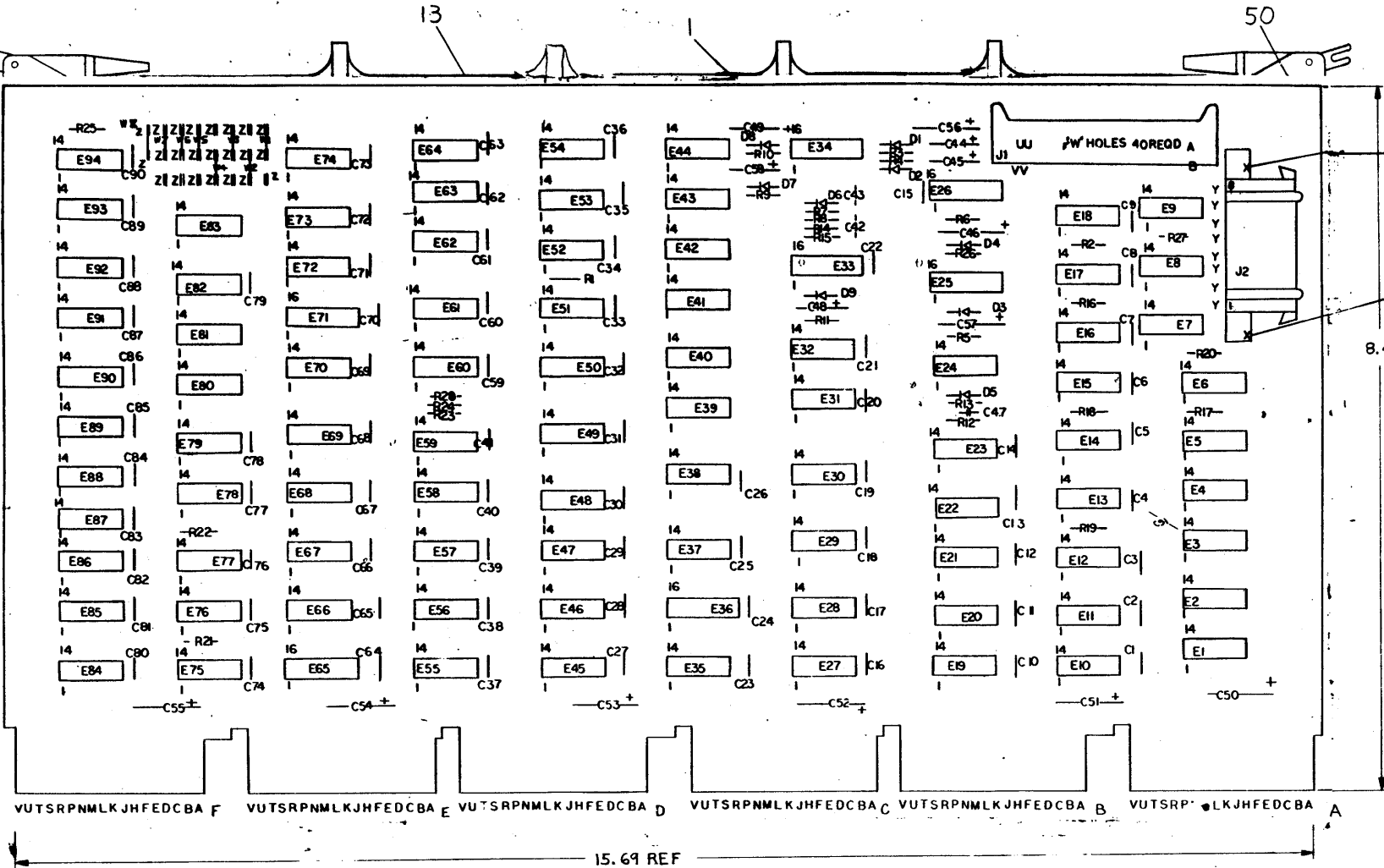
-PRODUCED BY THE AUTOMATED DRAFTING SYSTEM-

UNLESS OTHERWISE SPECIFIED	DATE	2-1-72	EQUIPMENT CORPORATION MAYFIELD, MASSACHUSETTS
UNLESS OTHERWISE SPECIFIED	DATE	7/13/72	
UNLESS OTHERWISE SPECIFIED	TITLE	BUS RESPONSE K4-6	DRAWING NUMBER 47234-0-1
UNLESS OTHERWISE SPECIFIED	TYPING		
UNLESS OTHERWISE SPECIFIED	SCALE		SHEET 8 OF 8
UNLESS OTHERWISE SPECIFIED	BY		

NOTES:

- PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE KDII-A PROCESSOR. MODULE REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE LETTER.
- ALL SIGNALS THAT HAVE MODULE PINS ARE SO NOTED. OUTPUT SIGNALS WITH MODULE PINS ARE BROUGHT TO THE RIGHT SIDE OF THE PRINT.

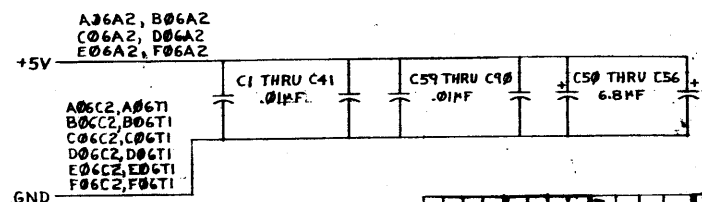
- PROCESSOR SIGNAL PREFIX NOTATION (K2-1, FOR EXAMPLE) IDENTIFIES THE SIGNAL SOURCE (PRINT AND MODULE). THE FIRST NUMBER AFTER THE K INDICATES THE MODULE, PRINT, SET, WHILE THE SECOND INDICATES THE SHEET WITHIN THE SET. SIGNALS WITH A "BUS" PREFIX REPRESENT A "WIRED OR" SITUATION, AND MULTIPLE SOURCES FOR THE SIGNAL CAN EXIST.
- UNLESS OTHERWISE NOTED: RESISTANCE IS IN OHMS; CAPACITANCE IS IN PICOFARRADS.



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	C91	CAP. 270 PF 100V ±5%	1000022	54
8		INSULATED JUMPER L-2007-1	908785	53
2		HEX NUT NYLON	9007992	52
23		SPLIT LUG	9006735	51
12		EYELET	9006752	50
2		SHOULDER WASHER FIBER (BLK)	9006493	49
2		SCREW NYLON	9006401-4	48
1	E65	I.C. DEC 74157	1910655	47
4	E25, E26, E33, E34	I.C. DEC 74123	1910436	46
4	E24, E43, E60, E82	I.C. DEC 74H04	1909931	45
5	E13, E37, E58, E70, E81	I.C. DEC 8815	1909773	44
5	E16, E84, E85, E88, E89	I.C. DEC 8881	1909705	43
7	E1 THRU E4, E20, E29, E41	I.C. DEC 7404	1909686	42
1	E52	I.C. DEC 74H74	1909667	41
2	E36, E71	I.C. DEC 8251	1909594	40
1	E15	I.C. DEC 8640	1911469	39
4	E14, E40, E48, E72	I.C. DEC 74H11	1909267	38
1	E55	I.C. DEC 74H61	1909065	37
1	E66	I.C. DEC 74H60	1909064	36
1	E59	I.C. DEC 74H55	1909063	35
2	E91, E92	I.C. DEC 74H53	1909062	34
2	E63, E67	I.C. DEC 74H52	1909061	33
4	E47, E56, E69, E87	I.C. DEC 74H50	1909060	32
1	E22	I.C. DEC 74H21	1909058	31
4	E7, E68, E80, E83	I.C. DEC 74H10	1909057	30
2	E57, E90	I.C. DEC 74H00	1909056	29
7	E5, E27, E28, E35, E39, E49, E54	I.C. DEC 7402	1909004	28
1	E46	I.C. DEC 74H20	1908633	27
3	E17, E18, E86	I.C. DEC 74H40	1905586	26
2	E31, E64	I.C. DEC 7450	1905580	25
2	E9, E94	I.C. DEC 7430	1905578	24
4	E8, E19, E43, E93	I.C. DEC 7420	1905577	23
3	E38, E51, E53	I.C. DEC 7410	1905576	22
7	E16, E21, E22, E30, E73, E74	I.C. DEC 7400	1905575	21
13	E6, E10, E12, E32, E42, E44, E50, E61, E75 THRU E79	I.C. DEC 7474	1905547	19
4	R3, R4, R5, R6	RES 18K 1/4W ±5%	1302465	18
4	R9, R10, R11, R15	RES 12K 1/4W ±5%	1300488	17
16	R1, R2, R14, R16 THRU R28	RES 1K 1/4W ±5%	1300363	16
2	R8, R12	RES 470 Ω 1/4W ±5%	1300316	15
2	R7, R13	RES 220 Ω 1/4W ±5%	1300271	14
1		HANDLE MODULE	1210711-02	13
8		PINS SOCKET AMP	1209456	12
1	J1	CONN RIGHT ANGLE HEADER	1209441	11
1	J2	CONN PIN HOUSING	1209340	10
9	D1 THRU D9	DIODE D664	1100114	9
7	C50 THRU C56	CAP 6.8MF 35V ±10% TANT	1005306	8
2	C46, C57	CAP 15MF 20V ±10% TANT	1004812	7
1	C48	CAP 2.2MF 20V ±10% TANT	1002627	6
1	C58	CAP 1MF 35V ±10% TANT	1001776	5
73	C1 THRU C41	CAP .01MF 100V ±20% DISC	1001610	4
3	C44, C45, C49	CAP 3.9MF 10V ±10% TANT	1000064	3
3	C42, C43, C47	CAP 680 PF 100V ±5% D.M.	1000026	2
1		ETCH CIRCUIT BOARD	5009984	1

DEC NO.	QTY	IC TYPE	LOCATIONS
DEC 74157	8	8	16
DEC 74123	8	8	16
DEC 8251	8	8	16
DEC 8640	1	1	8
IC TYPE	GND	+5V	

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



REV	DATE	BY	CHKD	DESCRIPTION
1	7-25-72	J. ROGERS		ORIGINAL
2	8-1-72	J. ROGERS		CHANGED NO. 1
3	8-1-72	J. ROGERS		CHANGED NO. 2
4	8-1-72	J. ROGERS		CHANGED NO. 3
5	8-1-72	J. ROGERS		CHANGED NO. 4
6	8-1-72	J. ROGERS		CHANGED NO. 5
7	8-1-72	J. ROGERS		CHANGED NO. 6
8	8-1-72	J. ROGERS		CHANGED NO. 7
9	8-1-72	J. ROGERS		CHANGED NO. 8
10	8-1-72	J. ROGERS		CHANGED NO. 9
11	8-1-72	J. ROGERS		CHANGED NO. 10
12	8-1-72	J. ROGERS		CHANGED NO. 11
13	8-1-72	J. ROGERS		CHANGED NO. 12
14	8-1-72	J. ROGERS		CHANGED NO. 13
15	8-1-72	J. ROGERS		CHANGED NO. 14
16	8-1-72	J. ROGERS		CHANGED NO. 15
17	8-1-72	J. ROGERS		CHANGED NO. 16
18	8-1-72	J. ROGERS		CHANGED NO. 17
19	8-1-72	J. ROGERS		CHANGED NO. 18
20	8-1-72	J. ROGERS		CHANGED NO. 19
21	8-1-72	J. ROGERS		CHANGED NO. 20
22	8-1-72	J. ROGERS		CHANGED NO. 21
23	8-1-72	J. ROGERS		CHANGED NO. 22
24	8-1-72	J. ROGERS		CHANGED NO. 23
25	8-1-72	J. ROGERS		CHANGED NO. 24
26	8-1-72	J. ROGERS		CHANGED NO. 25
27	8-1-72	J. ROGERS		CHANGED NO. 26
28	8-1-72	J. ROGERS		CHANGED NO. 27
29	8-1-72	J. ROGERS		CHANGED NO. 28
30	8-1-72	J. ROGERS		CHANGED NO. 29
31	8-1-72	J. ROGERS		CHANGED NO. 30
32	8-1-72	J. ROGERS		CHANGED NO. 31
33	8-1-72	J. ROGERS		CHANGED NO. 32
34	8-1-72	J. ROGERS		CHANGED NO. 33
35	8-1-72	J. ROGERS		CHANGED NO. 34
36	8-1-72	J. ROGERS		CHANGED NO. 35
37	8-1-72	J. ROGERS		CHANGED NO. 36
38	8-1-72	J. ROGERS		CHANGED NO. 37
39	8-1-72	J. ROGERS		CHANGED NO. 38
40	8-1-72	J. ROGERS		CHANGED NO. 39
41	8-1-72	J. ROGERS		CHANGED NO. 40
42	8-1-72	J. ROGERS		CHANGED NO. 41
43	8-1-72	J. ROGERS		CHANGED NO. 42
44	8-1-72	J. ROGERS		CHANGED NO. 43
45	8-1-72	J. ROGERS		CHANGED NO. 44
46	8-1-72	J. ROGERS		CHANGED NO. 45
47	8-1-72	J. ROGERS		CHANGED NO. 46
48	8-1-72	J. ROGERS		CHANGED NO. 47
49	8-1-72	J. ROGERS		CHANGED NO. 48
50	8-1-72	J. ROGERS		CHANGED NO. 49
51	8-1-72	J. ROGERS		CHANGED NO. 50
52	8-1-72	J. ROGERS		CHANGED NO. 51
53	8-1-72	J. ROGERS		CHANGED NO. 52
54	8-1-72	J. ROGERS		CHANGED NO. 53
55	8-1-72	J. ROGERS		CHANGED NO. 54

FIRST USED ON OPTION MODEL PDP 11

ETCH BOARD REV E

PARTS LIST

DWG	DATE	7-25-72
CHKD	DATE	7-27-72
ENGR	DATE	7-27-72
PRG	DATE	7-27-72
APP	DATE	7-27-72
REV	DATE	8-1-72

TITLE: STATUS

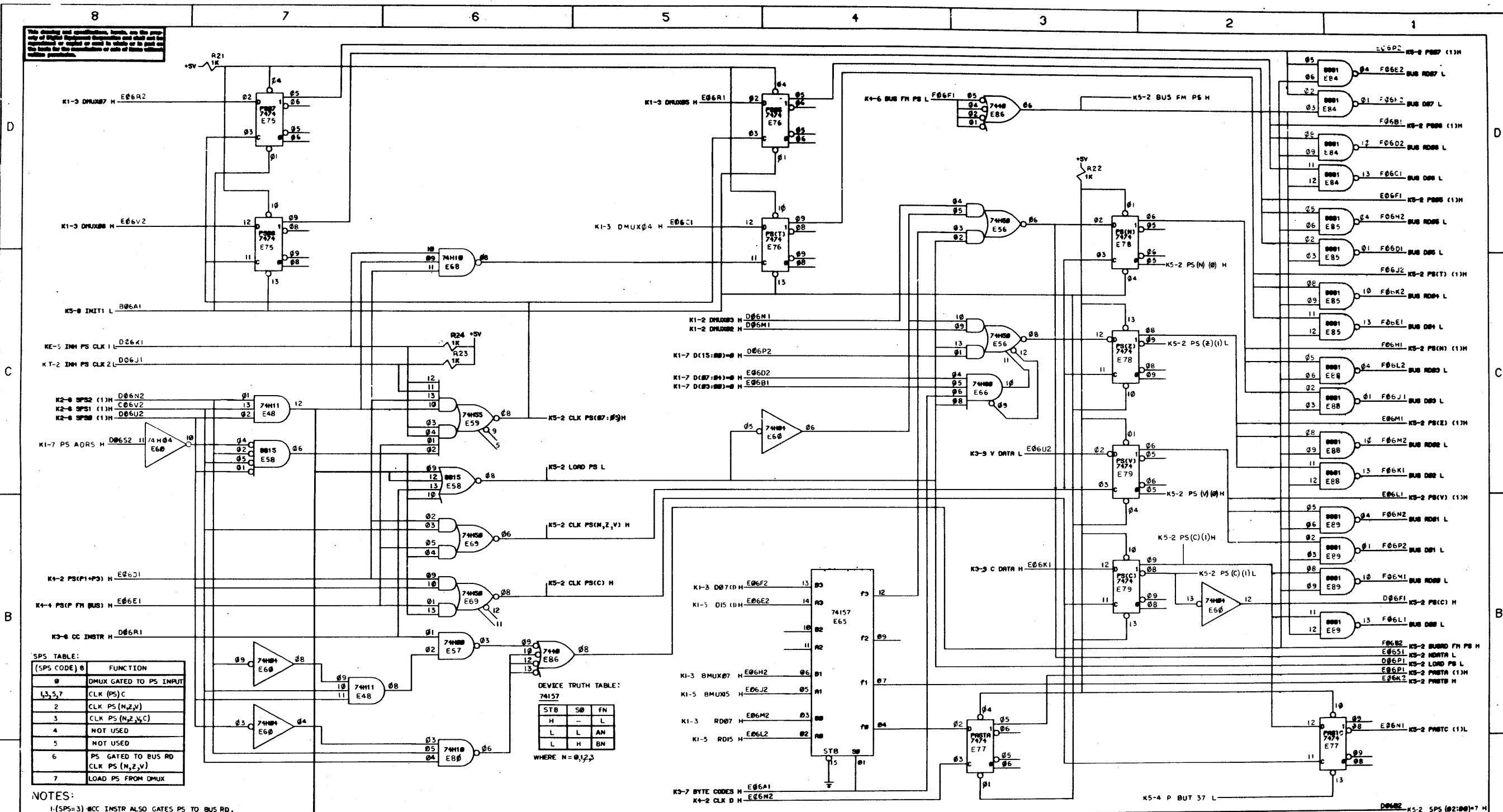
SIZE CODE: DICS NUMBER: M7235-0-1 REV: H

SCALE: NONE

SHEET 1 OF 2

SEMICONDUCTOR CONVERSION CHART

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SPS TABLE:

(SPS CODE) 8	FUNCTION
0	DMUX GATED TO PS INPUT
1,3,5,7	CLK (PS) C
2	CLK PS (N,Z,V)
3	CLK PS (N,Z,N,C)
4	NOT USED
5	NOT USED
6	PS GATED TO BUS RD CLK PS (N,Z,V)
7	LOAD PS FROM DMUX

NOTES:
 1. (SPS=3) - ICC INSTR ALSO GATES PS TO BUS RD.
 2. SPS0 BIT ALWAYS ENABLES THE CLK PS (C) SIGNAL.
 3. SPS1 BIT ALWAYS ENABLES THE CLK PS (N,Z,V) SIGNAL.

DEVICE TRUTH TABLE:
 74157

STB	S0	FN
H	-	L
L	L	AM
L	H	BN

WHERE N=0,1,2,3

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES DIMENSIONAL FINISHES SURFACE QUALITY MATERIALS AND SPECIAL FINISHES	DATE: 2-4-72 DRAWN: [Signature] CHECKED: [Signature] APPROVED: [Signature]	EQUIPMENT CORPORATION TITLE: STATUS: PS (07:00) K5-2
	PART USED ON: POP-11	
FROM:	SCALE: SHEET 2 OF 8	DATE: 1 AUG 27 1971

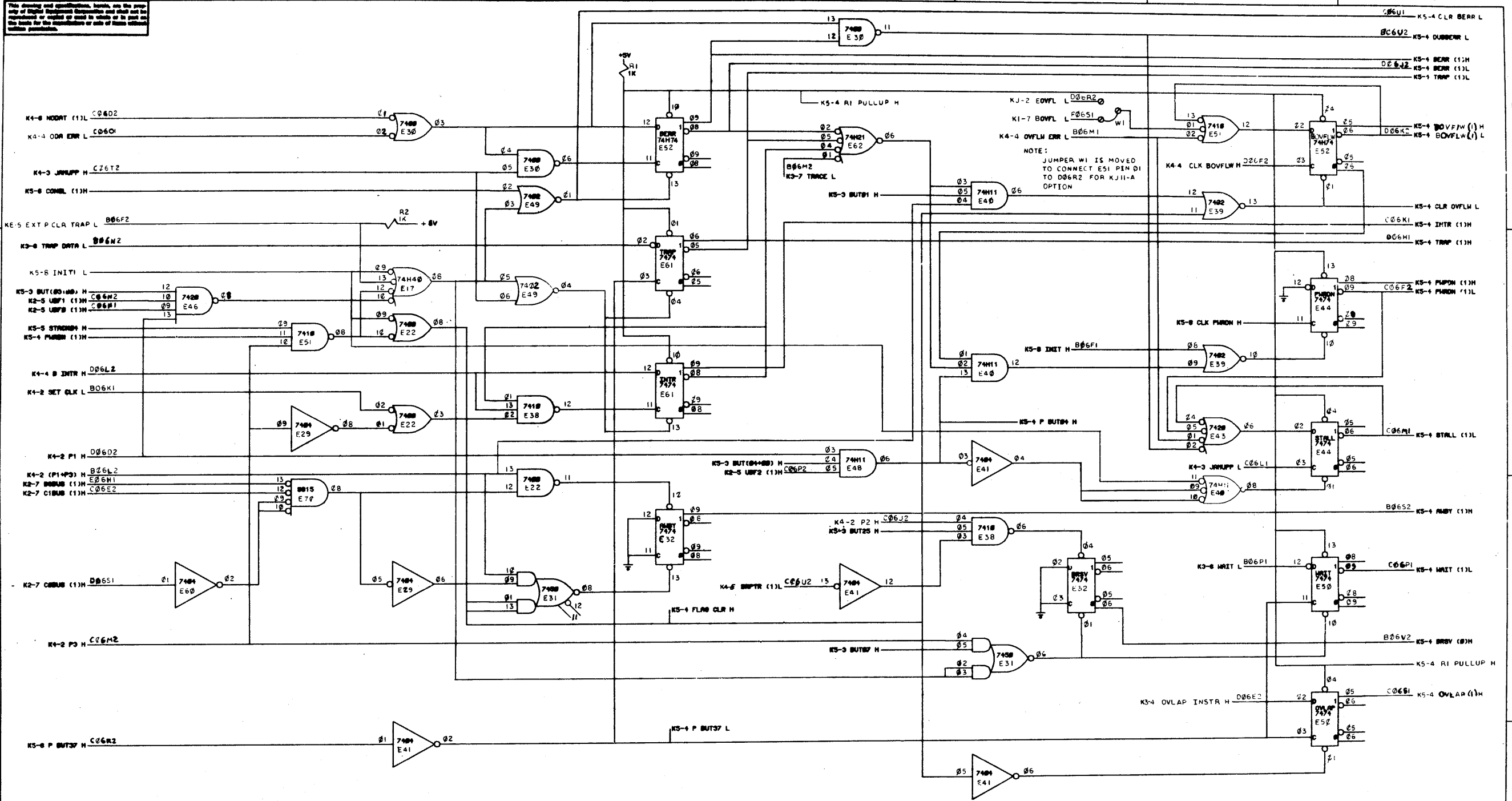
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D

C

B

A



PRODUCED BY THE AUTOMATED DRAFTING SYSTEM

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES FRACTIONS DECIMALS ANGLES ±.005 ±.010 ±.015 ±.020 FINISHES QUALITY SURFACE FINISH AND OTHER GROUP SPECIFICATIONS	DATE 2-7-72 DRAWN [Signature] CHECKED [Signature] [Signature] [Signature] [Signature] [Signature]	EQUIPMENT CORPORATION HARTFORD, CONNECTICUT
	TITLE STATUS FLAG NS-4	NUMBER M7235-0-1 REV. H
SCALE SHEET 4 OF 8	DRAWN [Signature]	APPROVED BY [Signature]

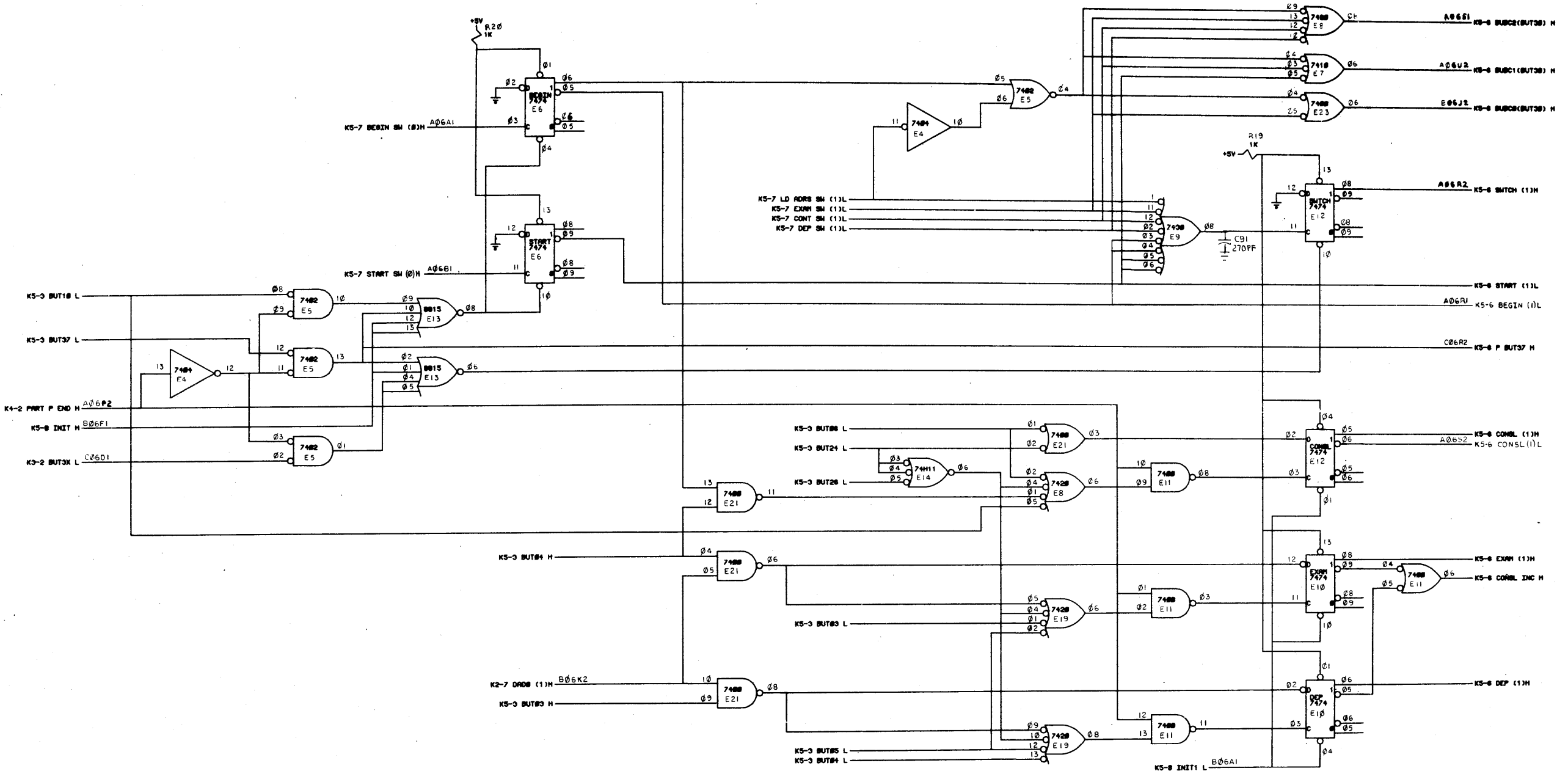
D

C

B

A

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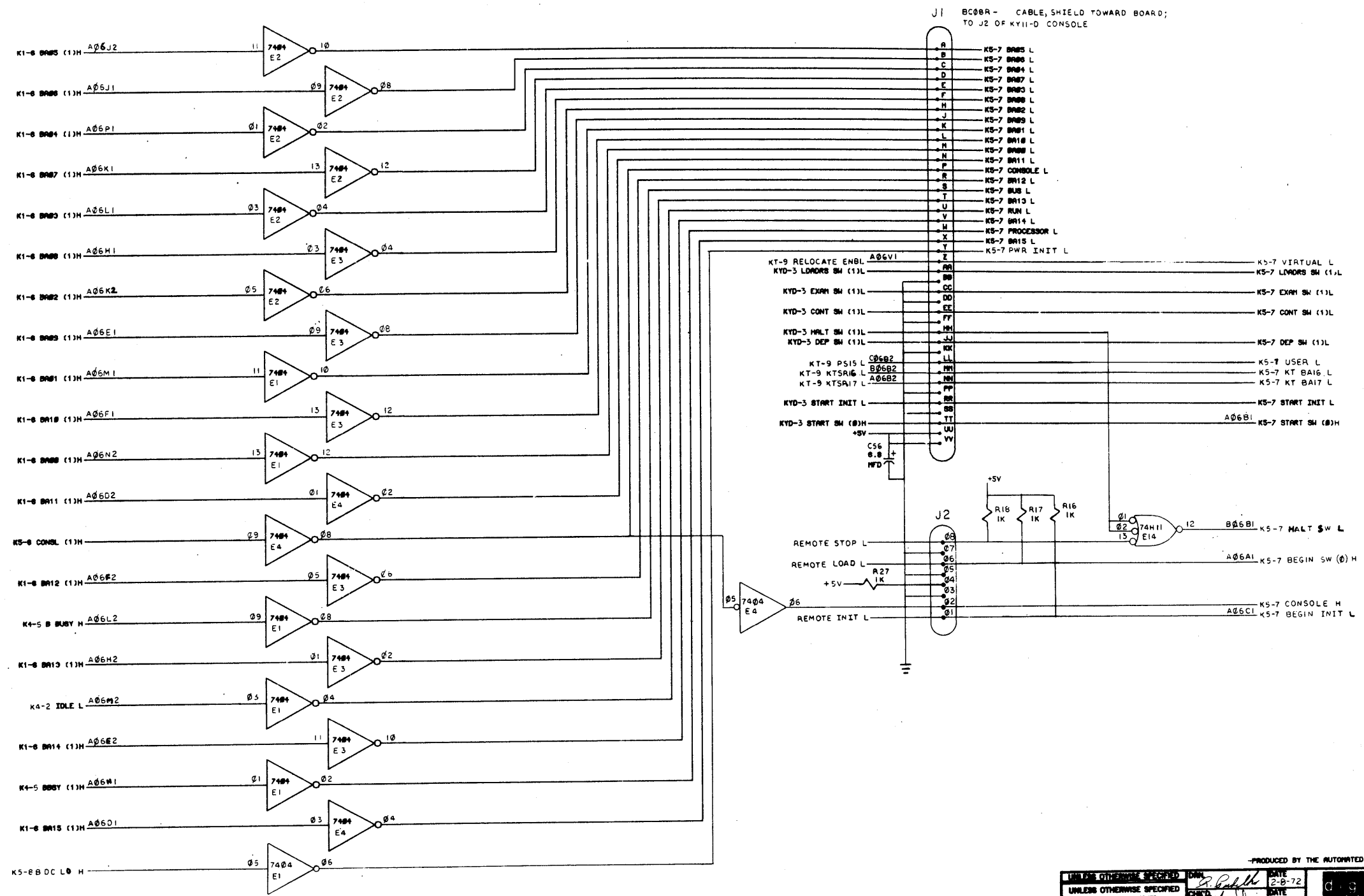


-PRODUCED BY THE AUTOMATED DRAFTING SYSTEM-

UNLESS OTHERWISE SPECIFIED		DATE	2-8-72	EQUIPMENT CORPORATION MAYFARL, MASSACHUSETTS
UNLESS OTHERWISE SPECIFIED		DATE	7/26/72	
TOLERANCES		DATE	7/26/72	TITLE
DIMENSIONS FRACTIONS ANGLES		DATE	7/26/72	
± .005 ± .004 ± .002		DATE	7/26/72	STATUS
FINISH SURFACE QUALITY		DATE	7/26/72	
MATERIAL		DATE	7/26/72	CONSOLE
PART USED ON		DATE	7/26/72	
POP11		DATE	7/26/72	NUMBER
SCALE		DATE	7/26/72	
SHEET 6 OF 8		DATE	7/26/72	REV.
DWT.		DATE	7/26/72	
M 7235-0-1		DATE	7/26/72	H
DWT.		DATE	7/26/72	

800 BY 871

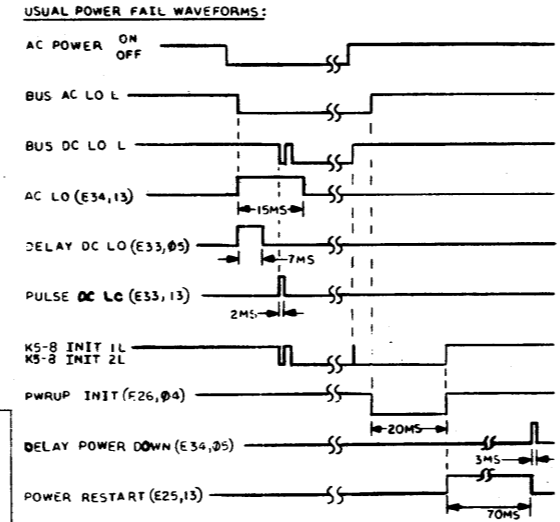
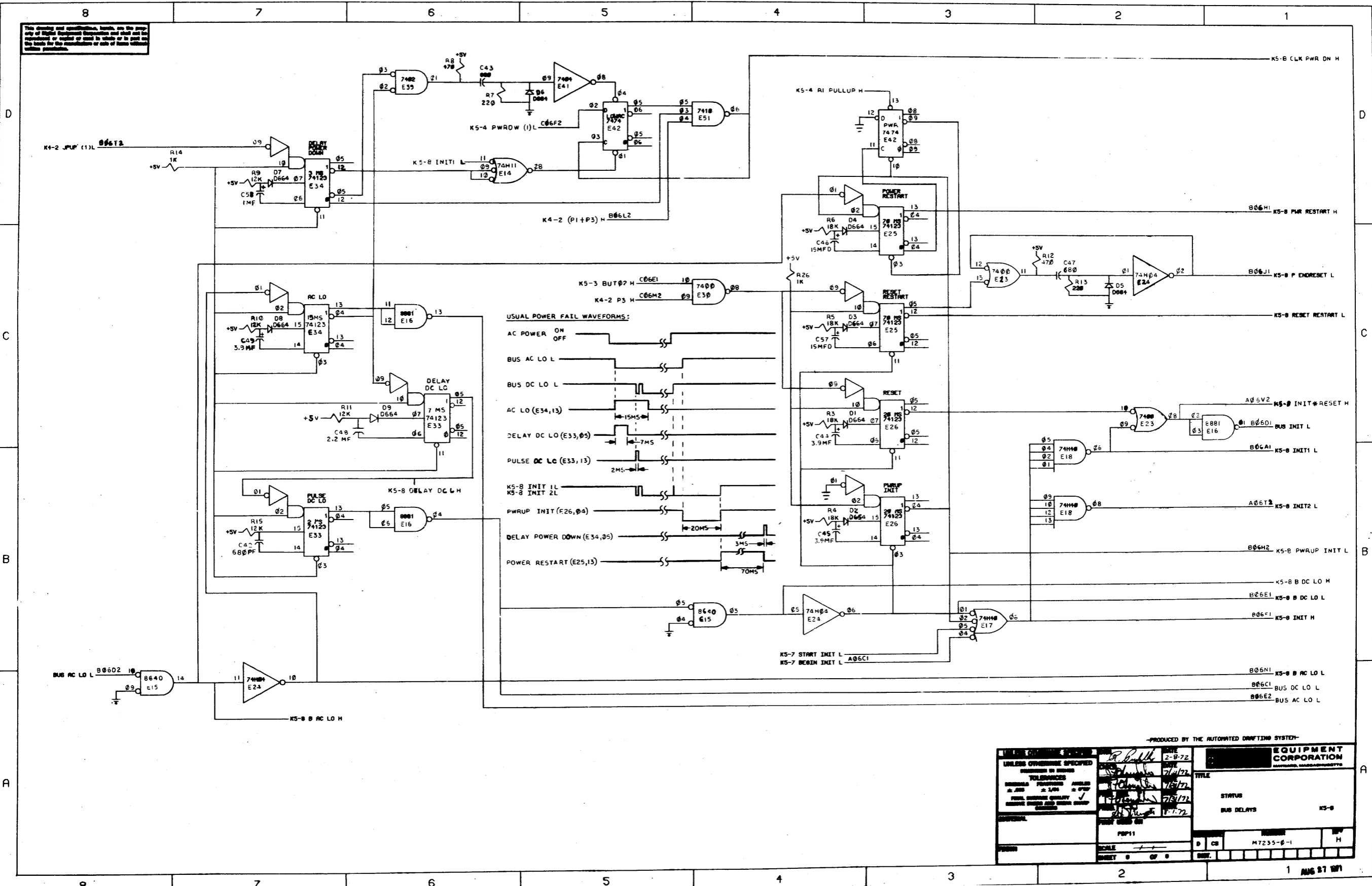
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-PRODUCED BY THE AUTOMATED DRAFTING SYSTEM-

UNLESS OTHERWISE SPECIFIED		DATE	2-8-72	DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
DIMENSIONS IN INCHES		DATE	7/26/72	
TOLERANCES		DATE	7/26/72	TITLE
DECIMALS FRACTIONS ANGLES		DATE	7/26/72	
±.001 ±.004 ±.020		DATE	7/26/72	STATUS
FRESH SURFACE QUALITY		DATE	7/26/72	
REMOVE BURRS AND BREAK SHARP CORNERS		DATE	7/26/72	CABLES
DRAWN		DATE	7/26/72	
FIRST USED ON		POP11		NUMBER
SCALE		1:1		
SHEET 7 OF 8		DST.		REV.
				H

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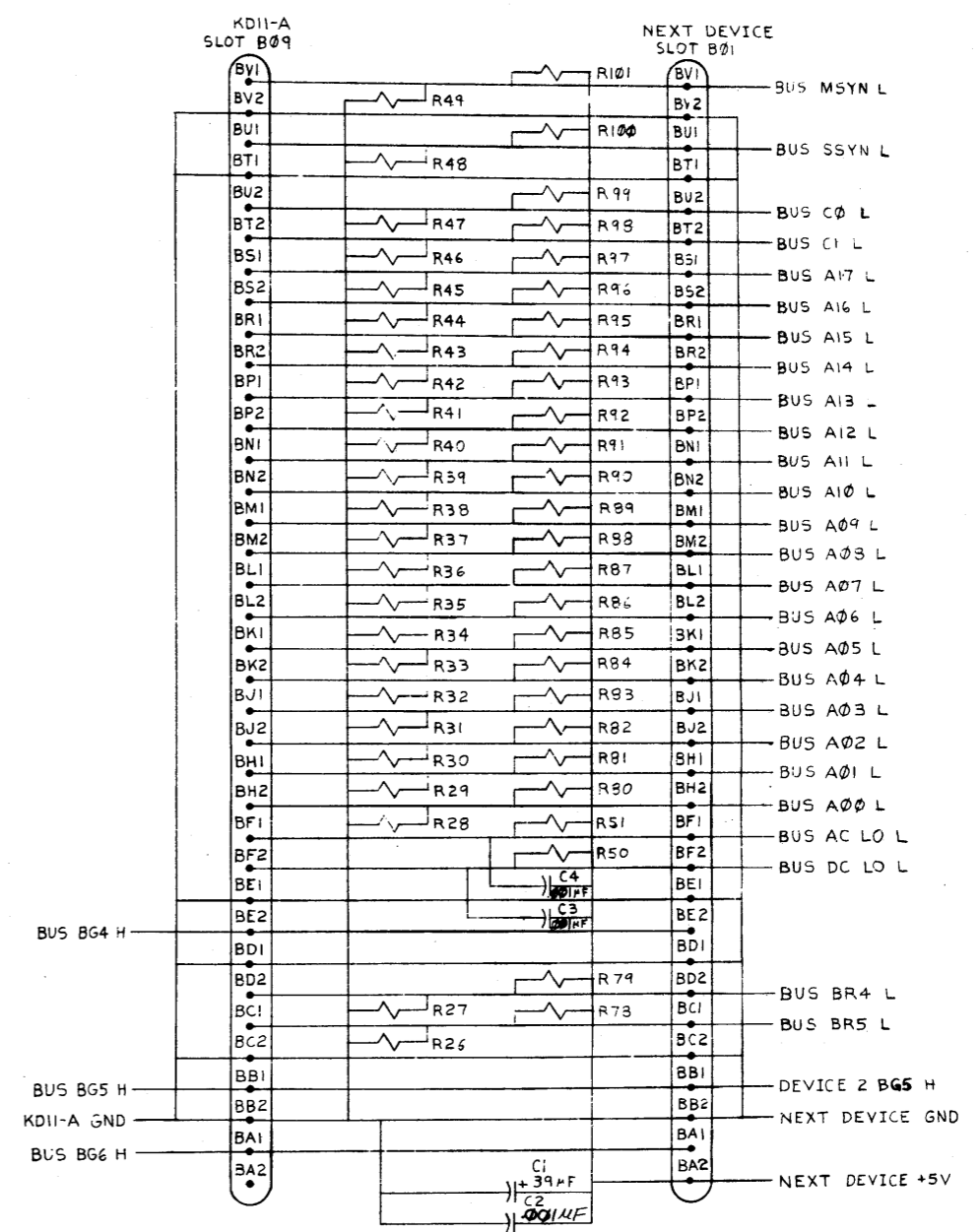
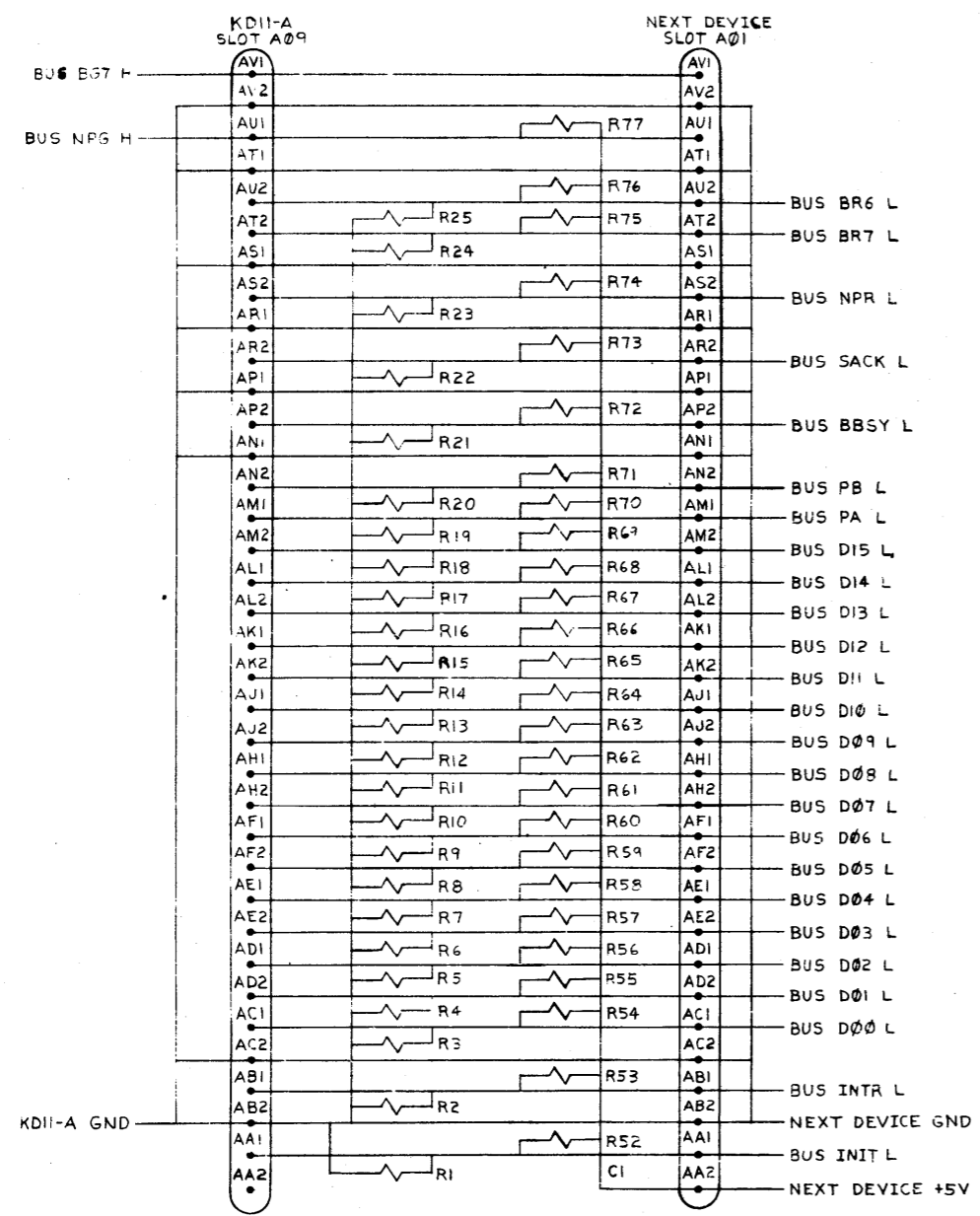


-PRODUCED BY THE AUTOMATED DRAFTING SYSTEM-

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES FINISHES MATERIALS FULL SURFACE QUALITY REMOVE BURRS AND SHARP EDGES CHECKED	DATE 2-9-72	EQUIPMENT CORPORATION MILFORD, MASSACHUSETTS
	DATE 7/1/72	
DESIGNED BY R. B. B. / 7/1/72	TITLE BUS DELAYS	STATUS K5-8
DATE 7/1/72	SCALE M7235-0-1	
PROJECT PDP11	DWG. NO. M7235-0-1	REV. NO. H
DATE 1-1-72	SCALE 1" = 1"	REV. NO. H

1 AUG 27 1971

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NOTE:
RESISTOR VALUES ARE:
R1 THRU R51 ARE 383Ω
R52 THRU R101 ARE 178Ω

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KDI1-A		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN 6-12-72	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	XXX - .005	ANGLES	TITLE	
	.XX - .02		INTERNAL UNIBUS AND TERMINATOR	
	X - .1		REV.	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			DCS 5409764-0-1	
MATERIAL		NEXT HIGHER ASSY.	SIZE CODE	NUMBER
			D	5409764-0-1
FINISH		SCALE	NONE	
		SHEET	2	OF 2
		DIST.		


REV. NO. 1
CHANGE NO. 1
CHK
REVISIONS
DEC FORM NO. ORD 102-B

CS 5409764-0-1 J

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WIRE LIST CHARACTERISTICS:

1. SIGNAL NAMES ARE LISTED WITHOUT THEIR PRINT SOURCE PREFIX. THIS AIDS ALPHABETICAL SEARCHES.
2. THE PRINT OR PRINTS UPON WHICH A GIVEN PIN ENTRY APPEARS IS NOTED IN THE "DRAW" COLUMN. MULTIPLE SHEET ENTRIES ARE NOTED WITHOUT COMMA'S WITH THE PRINT DESIGNATORS. FOR EXAMPLE "K4-235", INDICATES ENTRIES ON SHEETS 2, 3 and 5 IN THE K4 MODULE PRINTS, NO PRINT SETS HAVE MORE THAN NINE PAGES.
3. THE PRINT PREFIX AND THE ORIGIN OF THE SIGNAL CAN BE DETERMINED BY THE SOURCE NOTATION IN THE "REMARK" COLUMN. THIS SOURCE ENTRY, PRINT PREFIX IS USED BEFORE THE SIGNAL NAME ON ALL DRAWINGS. MULTIPLE SHEET ENTRIES HAVE THE SPECIFIC PRINT NOTED.
4. BUS SIGNALS WHICH OFTEN HAVE MULTIPLE (WIRED OR) SOURCES DO NOT HAVE PRINT PREFIXES. THE USE OF "BUS" IN THE NAME IDENTIFIES THESE SIGNALS, SIGNALS FOR +5V AND GND ALSO HAVE NO PRINT PREFIX.
5. THE WIRE LIST CONTAINS ETCH BACKPANEL CONNECTIONS AS WELL AS WIRE WRAP CONNECTIONS. ETCH IS IDENTIFIED BY AN "H" IN THE "Q" COLUMN AND A "P" IN THE "REMARK" COLUMN. "EXCEPTION" COLUMN NOTATIONS FOR ETCH CONNECTIONS SHOULD BE IGNORED. THE WIRE LIST ALSO CONTAINS TWISTED PAIR CONNECTIONS WHICH ARE IDENTIFIED BY AN "H" IN THE "Q" COLUMN AND "TWP" IN THE "REMARKS" COLUMN.

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 11				
PARTS LIST				
DRN: 70/...	DATE: 7/31/72	 EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>		
CHK'D: 70/...	DATE: 7/31/72			
ENG: 70/...	DATE: 7/31/72			
PROJ. ENG: 70/...	DATE: 7/31/72			
PRD. 70/...	DATE: 2-2-72			
NEXT HIGHER ASSEMBLY		BACK PLANE (KDII-A PROCESSOR)		
D-AD-7010230-0-0				
SCALE	SIZE CODE	NUMBER	REV.	
	K WL	KDII-A-WL	N	
SHEET 1 OF 1	DIST.			

REVISIONS		CHANGE NO.	REV.
CHK	KP	KDIIA-00013	L
	KT	KDIIA-00014	M
	...	KDIIA-00015	N

KD11A,N
RUN NAME

WRAPD .VJ35(102)-1 03-JUN-77

27-Oct-77

16117 PAGE 1
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

A/P	PIN NAME	ORDER PTN	BAY - ORDER	Q	DRAW	RV	RG	Y	X	Z	REMARKS	NC LENGTH FLAG	EXCEPTIONS	RUN NUMBER
	(P1+P3)	H	B06L2	1-01 *						1				1
	(P1+P3)	H	D08J1	1-02 *						2		N	6-1/8	1
	(P1+P3)	H	E07J2	1-03 *							SOURCE (K4-2)	N	3-1/8	1
	(P1+P3)	H		1									9-2/8	1
+15V			C09U1										1-PIN RUN	2
+5V			A01A2	1-01 * P						1				3
+5V			A02A2	1-02 * P						2				3
+5V			A03A2	1-03 * P						1				3
+5V			A04A2	1-04 * P						2				3
+5V			A05A2	1-05 * P						1				3
+5V			A06A2	1-06 * P						2				3
+5V			A07A2	1-07 * P						1				3
+5V			A08A2	1-08 * P						2				3
+5V			A09A2	1-09 * P						1				3
+5V			B09A2	1-10 * P						2			3-2/8	3
+5V			B08A2	1-11 * P						1				3
+5V			B07A2	1-12 * P						1				3
+5V			B06A2	1-13 * P						2				3
+5V			B05A2	1-14 * P						1				3
+5V			B04A2	1-15 * P						2				3
+5V			B03A2	1-16 * P						1				3
+5V			B02A2	1-17 * P						2				3
+5V			B01A2	1-18 * P						1				3
+5V			C01A2	1-19 * P						2				3
+5V			C02A2	1-20 * P						1				3
+5V			B03V1	1-21 * P						2			0-5/8	3
+5V			C03A2	1-22 * P						1			0-5/8	3
+5V			C04A2	1-23 * P						2				3
+5V			C05A2	1-24 * P						1				3
+5V			C06A2	1-25 * P						2				3
+5V			C07A2	1-26 * P						1				3
+5V			C08A2	1-27 * P						2				3
+5V			C09A2	1-28 * P						1				3
+5V			D09A2	1-29 * P						2			3-2/8	3
+5V			D08A2	1-30 * P						1				3
+5V			D07A2	1-31 * P						2				3
+5V			D06A2	1-32 * P						1				3
+5V			D05A2	1-33 * P						2				3
+5V			D04A2	1-34 * P						1				3
+5V			D03A2	1-35 * P						2				3
+5V			D02A2	1-36 * P						1				3
+5V			D01A2	1-37 * P						2				3
+5V			C03V1	1-38 * P						1			1-5/8	3
+5V			D03V1	1-39 * P						2			3-2/8	3
+5V			E02A2	1-40 * P						1			0-5/8	3
+5V			E01B1	1-41 * P						2			1-1/8	3
+5V			E01A2	1-42 * P						1			0-1/8	3
+5V			E03A2	1-43 * P						2			1-4/8	3
+5V			E04A2	1-44 * P						1				3
+5V			E05A2	1-45 * P						2				3
+5V			E06A2	1-46 * P						1				3
+5V			E07A2	1-47 * P						2				3
+5V			E08A2	1-48 * P						1				3
+5V			E09A2	1-49 * P						2				3
										1			3-2/8	3

KD11A,N
RUN NAME

WRAPD .V35(102)-1 03-JUN-77

27-Oct-77

16117 PAGE 2
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	NC LENGTH EXCEPTIONS FLAG	RUN NUMBER
+5V	F09A2		1-50 *	P						2		1	3
+5V	F08A2		1-51 *	P						1		1	3
+5V	F07A2		1-52 *	P						2		1	3
+5V	F06A2		1-53 *	P						1		1	3
+5V	F05A2		1-54 *	P						2		1	3
+5V	F04A2		1-55 *	P						1		1	3
+5V	F03A2		1-56 *	P						2		1	3
+5V	F02A2		1-57 *	P						1		1	3
+5V	F01A2		1-58 *	P						2		0-1/8	3
+5V	F01B1		1-59 *									67-3/8	3
+5V			1										
-15V	C09P2		1-01 *	P						1		3-2/8	4
-15V	D09B2		1-02 *	P						2		3	4
-15V	F09B2		1-03 *	P						1		3-2/8	4
-15V	F09B2		1-04 *										4
-15V			1									9-4/8	4
A INTR DONE	F09L2		1-01 *			DD				1	SOURCE	N 1	5
A INTR DONE	F09R1		1-02 *			DD						1-0/8	5
A INTR DONE			1										
A MASTER	F09D2		1-01 *			DD				2		N 1-6/8	6
A MASTER	F09R2		1-02 *			DD				1		N 0-4/8	6
A MASTER	F09N1		1-03 *			DD					SOURCE		6
A MASTER			1									2-2/8	6
ADRS (777774)	B07A1		1-01 *			K4-6				1	SOURCE	N 12-1/8	7
ADRS (777774)	B03U1		1-02 *			KJ-2							7
ADRS (777774)			1									12-1/8	7
ALUM	C02P2		1-01 *			KE-26				1		N 8-1/8	8
ALUM	F04F1		1-02 *			K1-2					SOURCE		8
ALUM			1									8-1/8	8
ALUM7	B04J1					K1-3					SOURCE		9
ALUM5	B04J2					K1-5					SOURCE		10
ALUM	A05H1		1-01 *			K3-8				1	SOURCE	N 4-1/8	11
ALUM	B04P2		1-02 *			K1-2345						4-1/8	11
ALUM			1										11
ALUS0	A05M1		1-01 *			K3-8				1	SOURCE	N 3-3/8	12
ALUS0	B04K1		1-02 *			K1-2345							12
ALUS0			1									3-3/8	12
ALUS1	A05K1		1-01 *			K3-8				1	SOURCE	N 4-3/8	13
ALUS1	B04S1		1-02 *			K1-2345						4-3/8	13
ALUS1			1										13
ALUS2	A05J1		1-01 *			K3-8				1	SOURCE	N 3-5/8	14
ALUS2	B04J1		1-02 *			K1-2345							14
ALUS2			1									3-5/8	14

KD11A,N
RUN NAME

WRAPD .V35(102)-1 03-JUN-77

27-Oct-77

16117 PAGE 3
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	NC LENGTH EXCEPTIONS FLAG	RUN NUMBER
ALUS3	A05L1		1-01 *			K3-8				1	SOURCE	N 3-3/8	15
ALUS3	B04H1		1-02 *			K1-2345							15
ALUS3			1									3-3/8	15
ARGA (1)	A01K1		1-01 *			KE-4				1	SOURCE	N 9-1/8	16
ARGA (1)	D02L1		1-02 *			KE-9							16
ARGA (1)			1									9-1/8	16
ASH	A02P2					KE-4					SOURCE		17
ASHC	A02P2					KE-24					SOURCE (KE=4)		18
AWBY (1)	B06S2		1-01 *			K5-4				1	SOURCE	N 5-5/8	19
AWBY (1)	D07L2		1-02 *			K4-25							19
AWBY (1)			1									5-5/8	19
B AC LO	B06N1		1-01 *			K5-8				2	SOURCE	N 1-1/8	20
B AC LO	B07P2		1-02 *			K4-5				1		N 10-7/8	20
B AC LO	F07M1		1-03 *			K4-3							20
B AC LO			1									12-0/8	20
B BPSY	A06L2		1-01 *			K5-7				1	SOURCE	N 4-3/8	21
B BPSY	B07U2		1-02 *			K4-5						4-3/8	21
B BPSY			1										21
B DC LO	E06E1		1-01 *			K5-8				1	SOURCE	N 9-7/8	22
B DC LO	E07R1		1-02 *			K4-2							22
B DC LO			1									9-7/8	22
B EUPP8A	C02R2					KE-4							23
B EUPP8B	D02D2		1-01 *	1						1		N 3-5/8	24
B EUPP8R	C01H1		1-02 *			KE-4							24
B EUPP8R			1									3-5/8	24
B INIT	C08T2		1-01 *			K1-2				2		N 1-5/8	25
B INIT	C07M1		1-02 *			K4-6				1	SOURCE	N 7-3/8	25
B INIT	E03L1		1-03 *			KJ-2							25
B INIT			1									9-0/8	25
B INTR	D06L2		1-01 *			K5-4				2		N 2-1/8	26
B INTR	E07C1		1-02 *			K4-24				1	SOURCE (K4=4)	N 4-3/8	26
B INTR	F05H2		1-03 *			K3-2							26
B INTR			1									6-4/8	26
B INTR DONE	F09M2		1-01 *			DD				1	SOURCE	N 1	27
B INTR DONE	F09S1		1-02 *			DD							27
B INTR DONE			1									1-0/8	27
B MASTER	F09P2		1-01 *			DD				1		N 0-4/8	28
B MASTER	F09S2		1-02 *			DD					SOURCE		28
B MASTER			1									0-4/8	28
B MSYN	B0781		1-01 *			K4-4				1	SOURCE	N 12-5/8	29
B MSYN	F01E1		1-02 *			KM-2							29
B MSYN			1									12-5/8	29

RD11A,N	WRAPD .V35(102)-1	03-JUN-77	27-Oct-77	16:17	PAGE 4								
RUN NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW	RV RG Y	X	Z	REMARKS	NC LENGTH FLAG	EXCEPTIONS	RUN NUMBER
B SSYN	H	C07A1		1-01 *			K4-256		1	SOURCE (K4-6)	N 12-5/8		30
B SSYN	H	F01M1		1-02 *			KM-2						30
B SSYN	H			1							12-5/8		30
B WAIT (1)	H	A07L2					K4-4			SOURCE		1-PIN RUN	31
B07 (1)	H	A04N1					K1-345			SOURCE (K1-3)		1-PIN RUN	32
B15 (1)	H	A04P1		1-01 *			K1-35		2	SOURCE (K1-5)	N 3-5/8		33
B15 (1)	H	B02M2		1-02 *			KE-45		1		N 5-3/8		33
B15 (1)	H	D01E2		1-03 *			KF-4		2		N 4-3/8		33
B15 (1)	H	F01S1		1-04 *			KM-2						33
B15 (1)	H			1							13-3/8		33
BA(06:03)=0	H	D04K1					K1-7			SOURCE		1-PIN RUN	34
BA(06:03)=1	H	D04D2					K1-7			SOURCE		1-PIN RUN	35
BA(07:05)=1	L	B04P1		1-01 *			K1-7		1	SOURCE	N 7-1/8		36
BA(07:05)=1	L	F03A1		1-02 *			KJ-2						36
BA(07:05)=1	L			1							7-1/8		36
BA(15:0R)=1	L	B04N2					K1-7			SOURCE		1-PIN RUN	37
BA(17:16)	H	A04S2		1-01 *			K1-69		1	SOURCE (K1-6)	N 6-7/8		38
BA(17:16)	H	C08K2		1-02 *			KT-9						38
BA(17:16)	H			1							6-7/8		38
BA00 (1)	H	A08F2		1-01 *			KT-8		1		N 1-2/8		39
BA00 (1)	H	A07F1		1-02 *			K4-4		2		N 1-3/8		39
BA00 (1)	H	A06N2		1-03 *			K5-7		1		N 9-5/8		39
BA00 (1)	H	D05S1		1-04 *			K3-7		2		N 5-1/8		39
BA00 (1)	H	F04J1		1-05 *			K1-68			SOURCE (K1-6)			39
BA00 (1)	H			1							17-3/8		39
BA01 (1)	H	A08E2		1-01 *			KT-8		1		N 2-2/8		40
BA01 (1)	H	A06M1		1-02 *			K5-7		2		N 13-7/8		40
BA01 (1)	H	F04F1		1-03 *			K1-678			SOURCE (K1-6)			40
BA01 (1)	H			1							16-1/8		40
BA02 (1)	H	A08H2		1-01 *			KT-8		2		N 1-5/8		41
BA02 (1)	H	A06K2		1-02 *			K5-7		1		N 13-7/8		41
BA02 (1)	H	F04B1		1-03 *			K1-678			SOURCE (K1-6)			41
BA02 (1)	H			1							15-4/8		41
BA03 (1)	H	A08D2		1-01 *			KT-8		2		N 2-2/8		42
BA03 (1)	H	A06L1		1-02 *			K5-7		1		N 9-1/8		42
BA03 (1)	H	D04K2		1-03 *			D1-678			SOURCE (K1-6)			42
BA03 (1)	H			1							11-3/8		42
BA04 (1)	H	A08K2		1-01 *			KT-8		2		N 2-1/8		43
BA04 (1)	H	A06P1		1-02 *			K5-7		1		N 7-7/8		43
BA04 (1)	H	D04B1		1-03 *			K1-67			SOURCE (K1-6)			43
BA04 (1)	H			1							10-0/8		43

RD11A,N	WRAPD .V35(102)-1	03-JUN-77	27-Oct-77	16:17	PAGE 5								
RUN NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW	RV RG Y	X	Z	REMARKS	NC LENGTH FLAG	EXCEPTIONS	RUN NUMBER
BA05 (1)	H	A08A1		1-01 *			KT-8		2		N 1-5/8		44
BA05 (1)	H	A06J2		1-02 *			K5-7		1		N 7-3/8		44
BA05 (1)	H	C04R2		1-03 *			K1-67			SOURCE (K1-6)			44
BA05 (1)	H			1							9-0/8		44
BA06 (1)	H	A08J2		1-01 *			KT-8		2		N 1-6/8		45
BA06 (1)	H	A06J1		1-02 *			K5-7		1		N 7-3/8		45
BA06 (1)	H	C04T2		1-03 *			K1-67			SOURCE (K1-6)			45
BA06 (1)	H			1							9-1/8		45
BA07 (1)	H	A08B1		1-01 *			KT-8		2		N 1-7/8		46
BA07 (1)	H	A06K1		1-02 *			K5-7		1		N 8-7/8		46
BA07 (1)	H	D04E1		1-03 *			K1-67			SOURCE (K1-6)			46
BA07 (1)	H			1							10-6/8		46
BA08 (1)	H	A06H1		1-01 *			K5-7		1		N 3-7/8		47
BA08 (1)	H	B08E1		1-02 *			KT-8		2		N 4-5/8		47
BA08 (1)	H	C04F2		1-03 *			K1-67		1	SOURCE (K1-6)			47
BA08 (1)	H	E03D1		1-04 *			KJ-2						47
BA08 (1)	H			1							14-5/8		47
BA09 (1)	H	A06E1		1-01 *			K5-7		1		N 4-3/8		48
BA09 (1)	H	B08E2		1-02 *			KT-8		2		N 3-7/8		48
BA09 (1)	H	C04D2		1-03 *			K1-67		1	SOURCE (K1-6)			48
BA09 (1)	H	E03C1		1-04 *			KJ-2						48
BA09 (1)	H			1							14-5/8		48
BA10 (1)	H	A06F1		1-01 *			K5-7		1		N 4-7/8		49
BA10 (1)	H	B08M2		1-02 *			KT-8		2		N 3-3/8		49
BA10 (1)	H	C04R1		1-03 *			K1-67		1	SOURCE (K1-6)			49
BA10 (1)	H	E03R1		1-04 *			KJ-2						49
BA10 (1)	H			1							13-7/8		49
BA11 (1)	H	A06D2		1-01 *			K5-7		1		N 4-3/8		50
BA11 (1)	H	B08K1		1-02 *			KT-8		2		N 4		50
BA11 (1)	H	C04K1		1-03 *			K1-67		1	SOURCE (K1-6)			50
BA11 (1)	H	E03D2		1-04 *			KJ-2						50
BA11 (1)	H			1							13-4/8		50
BA12 (1)	H	A06F2	A04M2	1-01 *			K5-7		1		N 2		51
BA12 (1)	H	A04M2		1-02 *			K1-67		2	SOURCE (K1-67)			51
BA12 (1)	H	B08N2		1-03 *			KT-8		1		N 4-6/8	BIN-COD ER	51
BA12 (1)	H	E03N2		1-04 *			KJ-2				N 10-5/8		51
BA12 (1)	H			1							17-3/8		51
BA13 (1)	H	A06H2	A04P2	1-01 *			K5-7		1		N 1-6/8		52
BA13 (1)	H	A04P2		1-02 *			K1-67		2	SOURCE (K1-6)			52
BA13 (1)	H	B08L1		1-03 *			KT-85		1		N 10-5/8		52
BA13 (1)	H	E03Y2		1-04 *			KJ-2						52
BA13 (1)	H			1							16-2/8		52
BA14 (1)	H	A04H1		1-01 *			K1-67		2	SOURCE (K1-6)			53
BA14 (1)	H	A06E2		1-02 *			K5-7		1		N 6-5/8		53
BA14 (1)	H	C08F1		1-03 *			KT-85		2		N 8-3/8		53
BA14 (1)	H	E03L2		1-04 *			KJ-2						53
BA14 (1)	H			1							16-7/8		53

KD11A,N RUN NAME	WRAPD .V35(102)-1 03-JUN-77			BAY - Q	DRAW	RV RG Y X Z	REMARKS	27-Oct-77	16:17	PAGE 6	RUN NUMBER
	A/P	PIN NAME	ORDER PIN					ORDER	NC LENGTH FLAG	EXCEPTIONS	
BA15 (1)	H	A04K2	1-01 *			K1-67	2	SOURCE (K1-6)	N	1-5/8	54
BA15 (1)	H	A06D1	1-02 *			K5-7	1		N	6-7/8	54
BA15 (1)	H	C08D2	1-03 *			KT-85	2		N	8-3/8	54
BA15 (1)	H	E03E2	1-04 *			KJ-2				16-7/8	54
BA15 (1)	H		1								54
BRSY (1)	H	A06N1	1-01 *			K5-7	1		N	1-1/8	55
BRSY (1)	H	A07M2	1-02 *			K4-245		SOURCE (K4-5)		1-1/8	55
BRSY (1)	H		1								55
BC(11,08)	H	C04M1	1-01 *			K1-4	1		N	7-5/8	56
BC(11,08)	H	E06T2	1-02 *			K5-5		SOURCE		7-5/8	56
BC(11,08)	H		1								56
BC(15:12,10109)	H	A04U2	1-01 *			K1-45	1		N	5-7/8	57
BC(15:12,10109)	H	C06L2	1-02 *			K5-5		SOURCE		5-7/8	57
BC(15:12,10109)	H		1								57
BC00	H	E04B2	1-01 *			K1-2	1		N	3-5/8	58
BC00	H	F06A1	1-02 *			K5-5		SOURCE		3-5/8	58
BC00	H		1								58
BC00 (0)	H	B07E2	1-01 *			K4-4	1	SOURCE	N	1-5/8	59
BC00 (0)	H	B08N1	1-02 *			KT-36				1-5/8	59
BC00 (0)	H		1								59
BC01	H	E04L2	1-01 *			K1-2	1		N	4-7/8	60
BC01	H	F06T2	1-02 *			K5-5		SOURCE		4-7/8	60
BC01	H		1								60
BC01 (0)	H	A07J1	1-01 *			K4-4	2	SOURCE	N	4-5/8	61
BC01 (0)	H	B08P2	1-02 *			KT-36	1		N	11-1/8	61
BC01 (0)	H	E03V2	1-03 *			KJ-2				15-6/8	61
BC01 (0)	H		1								61
BC02	H	E04R2	1-01 *			K1-2	1		N	3-7/8	62
BC02	H	F06R1	1-02 *			K5-5		SOURCE		3-7/8	62
BC02	H		1								62
BC03	H	E04N2	1-01 *			K1-2	1		N	4-7/8	63
BC03	H	F06V2	1-02 *			K5-5		SOURCE		4-7/8	63
BC03	H		1								63
BC04	H	E04A1	1-01 *			K1-3	1		N	2-7/8	64
BC04	H	F06S2	1-02 *			K5-5		SOURCE		2-7/8	64
BC04	H		1								64
BC05	H	C06K2	1-01 *			K5-5	1	SOURCE	N	4-5/8	65
BC05	H	D04P2	1-02 *			K1-3				4-5/8	65
BC05	H		1								65
BC06	H	D04V1	1-01 *			K1-3	1		N	2-2/8	66
BC06	H	D06H2	1-02 *			K5-5		SOURCE		2-2/8	66
BC06	H		1								66

KD11A,N RUN NAME	WRAPD .V35(102)-1 03-JUN-77			BAY - Q	DRAW	RV RG Y X Z	REMARKS	27-Oct-77	16:17	PAGE 7	RUN NUMBER
	A/P	PIN NAME	ORDER PIN					ORDER	NC LENGTH FLAG	EXCEPTIONS	
BC07	H	B06I.1	1-01 *			K5-5	1	SOURCE	N	6-7/8	67
BC07	H	D04N1	1-02 *			K1-3				6-7/8	67
BC07	H		1								67
BC0N (1+2)	H	A05P2	1-01 *			K3-8	1		N	14-5/8	68
BC0N (1+2)	H	F06U2	1-02 *			K5-5		SOURCE		14-5/8	68
BC0N (1+2)	H		1								68
BEGIN (1)	L	A07U2	1-01 *			K4-6	2		N	1-2/8	69
BEGIN (1)	L	A06R1	1-02 *			K5-6	1	SOURCE	N	13-3/8	69
BEGIN (1)	L	F05K2	1-03 *			K3-2				14-5/8	69
BEGIN (1)	L		1								69
BEGIN INIT	L	A06C1				K5-7		SOURCE		1-PIN RUN	70
BEGIN SW (0)	H	A06A1				K5-7		SOURCE		1-PIN RUN	71
BERP (0)	H	D06J2	1-01 *			K5-4	1	SOURCE	N	7-3/8	72
BERP (0)	H	F05U2	1-02 *			K3-7				7-3/8	72
BERP (0)	H		1								72
BG BETWEEN	H	F09F1	1-01 *			DD	1		N	2-3/8	73
BG BETWEEN	H	F09V2	1-02 *			DD		SOURCE		2-3/8	73
BG BETWEEN	H		1								73
BG IN	H	D09U2	1-01 *			DD	1	SOURCE	N	3-7/8	74
BG IN	H	F09B1	1-02 *			DD				3-7/8	74
BG IN	H		1								74
BG OUT	H	D09V2	1-01 *			DD	1	SOURCE	N	3-7/8	75
BG OUT	H	F09A1	1-02 *			DD		SOURCE		3-7/8	75
BG OUT	H		1								75
BG4	H	D07E2	1-01 *			K4-6	1	SOURCE	N	2-1/8	76
BG4	H	D09S2	1-02 *			DD				2-1/8	76
BG4	H		1								76
BG5	H	C07V2	1-01 *			K4-6	1	SOURCE	N	3-3/8	77
BG5	H	D09P2	1-02 *			DD				3-3/8	77
BG5	H		1								77
BG6	H	D07F2	1-01 *			K4-6	1	SOURCE	N	8-5/8	78
BG6	H	F03R2	1-02 *			KW-2	2		N	1	78
BG6	H	F03V2	1-03 *			KW-2	1	SOURCE	N	9-3/8	78
BG6	H	D09M2	1-04 *			DD				19-0/8	78
BG6	H		1								78
BG7	H	D07D2	1-01 *			K4-6	1	SOURCE	N	1-5/8	79
BG7	H	D09K2	1-02 *			DD				1-5/8	79
BG7	H		1								79
BGBUS (1)	H	D03E2	1-01 *	2		K2-7	2		N	4-3/8	80
BGBUS (1)	H	E06H1	1-02 *			K5-4	1		N	1	80
BGBUS (1)	H	E07E1	1-03 *			K4-25					80
BGBUS (1)	H		1							5-3/8	80

RD11A,N RUN NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW	RV RG Y	X	Z	REMARKS	27-Oct-77	16117 NC LENGTH FLAG	PAGE 14 EXCEPTIONS	RUN NUMBER
BUS A16	L	A04S1		1-01 *	2		K1-6		2	SOURCE		N 4-3/8		144
BUS A16	L	B09S2		1-02 *			DD		1	SOURCE		N 0-5/8		144
BUS A16	L	B08V2	E09E2	1-03 *			KT-4		2	SOURCE		N 6-7/8		144
BUS A16	L	F09E2		1-04 *			DD		1			N 4-6/8		144
BUS A16	L	F03H2		1-05 *			KW-2							144
BUS A16	L			1								16-5/8		144
BUS A17	L	A04R1		1-01 *	1		K1-6		1	SOURCE		N 4-3/8		145
BUS A17	L	B08P1		1-02 *			KT-4		2	SOURCE		N 1		145
BUS A17	L	B09S1		1-03 *			DD		1	SOURCE		N 6-7/8		145
BUS A17	L	E09D1		1-04 *			DD		2			N 4-3/8		145
BUS A17	L	F03D2		1-05 *			KW-2							145
BUS A17	L			1								16-5/8		145
BUS AC LO	L	B06D2		1-01 *			K5-8		1			N 0-1/8		146
BUS AC LO	L	B06E2		1-02 *	H		K5-8		2	SOURCE TWP		1-7/8		146
BUS AC LO	L	B09F1		1-03 *			DD			SOURCE, EICH TO CON				146
BUS AC LC	L			1								2-0/8		146
BUS BRSY	L	A09P2	C07M2	1-01 *	H				2	SOURCE TWP		6-3/8		147
BUS BRSY	L	C07M2		1-02 *	H		K4-5		1	SOURCE TWP		8-3/8		147
BUS BRSY	L	F09D1		1-03 *	H		DD		2	SOURCE TWP		4-5/8		147
BUS BRSY	L	F03T2		1-04 *			KW-2			SOURCE				147
BUS BRSY	L			1								19-3/8		147
BUS BG4	H	B09E2		1-01 *	H				1	TWP		7-1/8		148
BUS BG4	H	D09T2		1-02 *			DD			SOURCE				148
BUS BG4	H			1								7-1/8		148
BUS BG5	H	B09R1		1-01 *	H				1	TWP		7-3/8		149
BUS BG5	H	D09R2		1-02 *			DD			SOURCE				149
BUS BG5	H			1								7-3/8		149
BUS BG6	H	B09A1		1-01 *	H				1	TWP		7-3/8		150
BUS BG6	H	D09N2		1-02 *			DD			SOURCE				150
BUS BG6	H			1								7-3/8		150
BUS BG7	H	A09V1		1-01 *	H				1	TWP		7-5/8		151
BUS BG7	H	D09L2		1-02 *			DD			SOURCE				151
BUS BG7	H			1								7-5/8		151
BUS BR4	L	B09D2	C07U2	1-01 *	H				1	SOURCE TWP		5-5/8		152
BUS BR4	L	C07U2		1-02 *	H		K4-6		2	SOURCE TWP		2-5/8		152
BUS BR4	L	D09H2		1-03 *			DD							152
BUS BR4	L			1								8-2/8		152
BUS BR5	L	B09C1	C07T2	1-01 *	H				1	SOURCE TWP		5-1/8		153
BUS BR5	L	C07T2		1-02 *	H		K4-6		2	SOURCE TWP		2-5/8		153
BUS BR5	L	D09F2		1-03 *			DD							153
BUS BR5	L			1								7-6/8		153
BUS BR6	L	A09U2	C07S2	1-01 *	H				1	SOURCE TWP		6-3/8		154
BUS BR6	L	C07S2		1-02 *	H		K4-6		2	SOURCE TWP		2-5/8		154
BUS BR6	L	D09E2		1-03 *	H		DD		1	SOURCE TWP		10-3/8		154
BUS BR6	L	F03U1		1-04 *			KW-2			SOURCE				154
BUS BR6	L			1								19-3/8		154

RD11A,N RUN NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW	RV RG Y	X	Z	REMARKS	27-Oct-77	16117 NC LENGTH FLAG	PAGE 15 EXCEPTIONS	RUN NUMBER
BUS BR7	L	A09T2	C07R2	1-01 *	H				1	SOURCE TWP		6-3/8		155
BUS BR7	L	C07R2		1-02 *	H		K4-6		2	TWP		2-5/8		155
BUS BR7	L	D09D2		1-03 *			DD							155
BUS BR7	L			1								9-0/8		155
BUS C0	L	A07H1		1-01 *	H		K4-4		2	SOURCE TWP		5-5/8		156
BUS C0	L	B09U2		1-02 *	H				1	SOURCE TWP		7-1/8		156
BUS C0	L	E09J2		1-03 *			DD							156
BUS C0	L			1								12-6/8		156
BUS C1	L	A07E2		1-01 *	H		K4-4		2	SOURCE TWP		5-5/8		157
BUS C1	L	B09T2		1-02 *	H				1	SOURCE TWP		7		157
BUS C1	L	F09F2		1-03 *	H		DD		2	TWP		5-2/8		157
BUS C1	L	F03N1		1-04 *			KW-2							157
BUS C1	L			1								17-7/8		157
BUS D00	L	A09C1		1-01 *					2	SOURCE		N 1-3/8		158
BUS D00	L	A08K1		1-02 *			KT-8		1	SOURCE		N 7-1/8		158
BUS D00	L	C09S2		1-03 *			DD		2	SOURCE		N 4-3/8		158
BUS D00	L	D04J1		1-04 *			K1-29		1	SOURCE (K1-29)		N 6-7/8	BIN-COD ER	158
BUS D00	L	F06L1		1-05 *			K5-2			SOURCE				158
BUS D00	L			1								19-6/8		158
BUS D01	L	A08F1		1-01 *			KT-8		1	SOURCE		N 1-3/8		159
BUS D01	L	A09D2		1-02 *					2	SOURCE		N 7		159
BUS D01	L	C09R2		1-03 *			DD		1	SOURCE		N 9-7/8		159
BUS D01	L	F06P2		1-04 *			K5-2		2	SOURCE		N 1-7/8		159
BUS D01	L	F04U2		1-05 *			K1-29			SOURCE (K1-29)				159
BUS D01	L			1								20-1/8		159
BUS D02	L	A09D1		1-01 *					2	SOURCE		N 1-3/8		160
BUS D02	L	A08L2		1-02 *			KT-8		1	SOURCE		N 6-7/8		160
BUS D02	L	C09U2		1-03 *			DD		2	SOURCE		N 7		160
BUS D02	L	F09E2		1-04 *			DD		1	SOURCE		N 2-5/8		160
BUS D02	L	F06K1		1-05 *			K5-2		2	SOURCE		N 1-4/8		160
BUS D02	L	F04S2		1-06 *			K1-29			SOURCE (K1-29)				160
BUS D02	L			1								19-3/8		160
BUS D03	L	A08H1		1-01 *			KT-8		2	SOURCE		N 1-3/8		161
BUS D03	L	A09E2		1-02 *					1	SOURCE		N 7-1/8		161
BUS D03	L	C09T2		1-03 *			DD		2	SOURCE		N 7-7/8		161
BUS D03	L	F09L1		1-04 *			DD		1	SOURCE		N 2-1/8		161
BUS D03	L	F06J1		1-05 *			K5-2		2	SOURCE		N 1-6/8		161
BUS D03	L	F04T2		1-06 *			K1-29			SOURCE (K1-29)				161
BUS D03	L			1								20-2/8		161
BUS D04	L	A09E1		1-01 *					2	SOURCE		N 3-5/8		162
BUS D04	L	B08F1		1-02 *			KT-8		1	SOURCE		N 4-3/8		162
BUS D04	L	C09N2		1-03 *			DD		2	SOURCE		N 4-1/8		162
BUS D04	L	D04M2		1-04 *			K1-39		1	SOURCE (K1-39)		N 5-5/8	BIN-COD ER	162
BUS D04	L	F06E1		1-05 *			K5-2		2	SOURCE		N 3-1/8		162
BUS D04	L	F09N2		1-06 *			DD			SOURCE				162
BUS D04	L			1								20-7/8		162

KD11A.N RUN NAME	WRAPD .V35(102)-1 03-JUN-77										REMARKS	27-Oct-77	16117 NC LENGTH FLAG	PAGE 16 EXCEPTIONS	RUN NUMBER
	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW OPT	RV	RG	Y	X					
BUS D05	L	A09F2		1-01 *						1	SOURCE	N	4-1/8		163
BUS D05	L	B08H1		1-02 *						2	SOURCE	N	4-3/8		163
BUS D05	L	C09P2		1-03 *						1	SOURCE	N	6-7/8		163
BUS D05	L	E04C1		1-04 *						2	SOURCE (K1-39)	N	4-3/8	BIN-COD ER	163
BUS D05	L	F06D1		1-05 *						1	SOURCE	N	2-1/8		163
BUS D05	L	F09F1		1-06 *							SOURCE				163
BUS D05	L			1									21-7/8		163
BUS D06	L	A09F1		1-01 *						2	SOURCE	N	3-5/8		164
BUS D06	L	B08J2		1-02 *						1	SOURCE	N	4-5/8		164
BUS D06	L	C09V2		1-03 *						2	SOURCE	N	4-3/8		164
BUS D06	L	D04R1		1-04 *						1	SOURCE (K1-39)	N	6-1/8	BIN-COD ER	164
BUS D06	L	F03P1		1-05 *						2	SOURCE	N	2-4/8		164
BUS D06	L	F06C1		1-06 *						1	SOURCE	N	2-5/8		164
BUS D06	L	F09F2		1-07 *							SOURCE				164
BUS D06	L			1									23-7/8		164
BUS D07	L	A09H2		1-01 *						1	SOURCE	N	3-5/8		165
BUS D07	L	B08H2		1-02 *						2	SOURCE	N	3-7/8		165
BUS D07	L	C09M2		1-03 *						1	SOURCE	N	7-1/8		165
BUS D07	L	E04R1		1-04 *						2	SOURCE (K1-39)	N	5-3/8	BIN-COD ER	165
BUS D07	L	F03S1		1-05 *						1	SOURCE	N	3-3/8		165
BUS D07	L	F06F2		1-06 *						2	SOURCE	N	1-5/8		165
BUS D07	L	F09H1		1-07 *							SOURCE				165
BUS D07	L			1									25-0/8		165
BUS D08	L	A09H1		1-01 *						1	SOURCE	N	5-5/8		166
BUS D08	L	C08D1		1-02 *						2	SOURCE	N	1-4/8		166
BUS D08	L	C09L2		1-03 *						1	SOURCE	N	3-5/8		166
BUS D08	L	C04P1		1-04 *						2	SOURCE (K1-49)	N	5-1/8	BIN-COD ER	166
BUS D08	L	E03E1		1-05 *						1	SOURCE	N	4-7/8		166
BUS D08	L	F09K1		1-06 *							SOURCE				166
BUS D08	L			1									20-6/8		166
BUS D09	L	A09J2		1-01 *						2	SOURCE	N	4-3/8		167
BUS D09	L	B08P2		1-02 *						1	SOURCE	N	2-7/8		167
BUS D09	L	C09K2		1-03 *						2	SOURCE	N	3-5/8		167
BUS D09	L	C04R1		1-04 *						1	SOURCE (K1-49)	N	5-1/8	BIN-COD EP	167
BUS D09	L	E03F1		1-05 *							SOURCE				167
BUS D09	L			1									16-0/8		167
BUS D10	L	A09J1		1-01 *						2	SOURCE	N	4-1/8		168
BUS D10	L	B08M1		1-02 *						1	SOURCE	N	3-3/8		168
BUS D10	L	C09J2		1-03 *						2	SOURCE	N	3-5/8		168
BUS D10	L	C04M1		1-04 *						1	SOURCE (K1-49)	N	5-3/8	BIN-COD ER	168
BUS D10	L	E03J2		1-05 *							SOURCE				168
BUS D10	L			1									16-4/8		168
BUS D11	L	A09K2		1-01 *						2	SOURCE	N	4-3/8		169
BUS D11	L	F08R1		1-02 *						1	SOURCE	N	2-3/8		169
BUS D11	L	C09H1		1-03 *						2	SOURCE	N	2-6/8		169
BUS D11	L	C04H2		1-04 *						1	SOURCE (K1-49)	N	6-1/8	BIN-COD ER	169
BUS D11	L	E03H2		1-05 *							SOURCE				169
BUS D11	L			1									15-5/8		169

KD11A.N RUN NAME	WRAPD .V35(102)-1 03-JUN-77										REMARKS	27-Oct-77	16117 NC LENGTH FLAG	PAGE 17 EXCEPTIONS	RUN NUMBER
	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW OPT	RV	RG	Y	X					
BUS D12	L	A09K1		1-01 *						2	SOURCE	N	3-7/8		170
BUS D12	L	B04R1		1-02 *						1	SOURCE (K1-59)	N	4-7/8	BIN-COD ER	170
BUS D12	L	C09M2		1-03 *						2	SOURCE	N	1-4/8		170
BUS D12	L	C08P1		1-04 *						1	SOURCE	N	7-7/8		170
BUS D12	L	F03P2		1-05 *							SOURCE				170
BUS D12	L			1									18-1/8		170
BUS D13	L	A09L2		1-01 *						2	SOURCE	N	4-1/8		171
BUS D13	L	B04E2		1-02 *						1	SOURCE (K1-59)	N	4-1/8	BIN-COD ER	171
BUS D13	L	C09P2		1-03 *						2	SOURCE	N	1-3/8		171
BUS D13	L	C08H1		1-04 *						1	SOURCE	N	8-1/8		171
BUS D13	L	E03K2		1-05 *							SOURCE				171
BUS D13	L			1									17-6/8		171
BUS D14	L	A09L1		1-01 *						2	SOURCE	N	4-3/8		172
BUS D14	L	B04C1		1-02 *						1	SOURCE (K1-59)	N	4-3/8	BIN-COD ER	172
BUS D14	L	C09E2		1-03 *						2	SOURCE	N	1-3/8		172
BUS D14	L	C08C1		1-04 *						1	SOURCE	N	9-3/8		172
BUS D14	L	E03S2		1-05 *							SOURCE				172
BUS D14	L			1									19-4/8		172
BUS D15	L	A09M2		1-01 *						2	SOURCE	N	4-5/8		173
BUS D15	L	B04E1		1-02 *						1	SOURCE (K1-59)	N	4-4/8	BIN-COD ER	173
BUS D15	L	C09D2		1-03 *						2	SOURCE	N	1-3/8		173
BUS D15	L	C08E1		1-04 *						1	SOURCE	N	8-7/8		173
BUS D15	L	F03P2		1-05 *							SOURCE				173
BUS D15	L			1									19-3/8		173
BUS DC LO	L	B06C1		1-01 *	H					1	SOURCE TWP	N	2-5/8		174
BUS DC LO	L	B09F2	C09H1	1-02 *						2	SOURCE, EICH TO COM	N	3-7/8	BIN-COD ER	174
BUS DC LO	L	C09M1		1-03 *											174
BUS DC LO	L			1									6-4/8		174
BUS FM RA	H	A08S2		1-01 *						2	SOURCE	N	2-7/8		175
BUS FM RA	H	B07L2		1-02 *						1	SOURCE	N	6-7/8		175
BUS FM RA	H	D04J2		1-03 *											175
BUS FM RA	H			1									9-6/8		175
BUS FM D	H	B07N1		1-01 *						1	SOURCE	N	12-7/8		176
BUS FM D	H	F04V2		1-02 *											176
BUS FM D	H			1									12-7/8		176
BUS FM PS	L	B07J2		1-01 *						2	SOURCE	N	5-3/8		177
BUS FM PS	L	D08D1		1-02 *						1	SOURCE	N	6-7/8		177
BUS FM PS	L	F06F1		1-03 *											177
BUS FM PS	L			1									12-2/8		177
BUS FM SP	H	B04F1		1-01 *						1	SOURCE	N	9-5/8		178
BUS FM SR	H	E07D2		1-02 *											178
BUS FM SP	H			1									9-5/8		178

Table with columns: KD11A.N, RUN NAME, A/P, PIN, ORDER, BAY - ORDER, Q, DRAW, RV, RG, Y, X, Z, REMARKS, 27-Oct-77, 16117, PAGE 18, NC LENGTH EXCEPTIONS, RUN NUMBER. Rows include BUS INIT, BUS INTR, BUS MSYN, BUS NPG, BUS NPR, BUS PA, BUS PR, BUS RD FM PS, BUS RD00, BUS RD01.

Table with columns: KD11A.N, RUN NAME, A/P, PIN, ORDER, BAY - ORDER, Q, DRAW, RV, RG, Y, X, Z, REMARKS, 27-Oct-77, 16117, PAGE 19, NC LENGTH EXCEPTIONS, RUN NUMBER. Rows include BUS RD02, BUS RD03, BUS RD04, BUS RD05, BUS RD06, BUS RD07, BUS RD08, BUS RD09.

RD11A,N	WRAPD .V35(102)-1	03-JUN-77	27-Oct-77	16117	PAGE 22	NC LENGTH EXCEPTIONS	RUN NUMBER				
RUN NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW	RV RG Y X Z	REMARKS	NC LENGTH EXCEPTIONS	RUN NUMBER	
CIN00	L	A05P1		1-01 *				K3-8	N 11-3/8	221	
CIN00	L	E0482		1-02 *				K1-2		221	
CIN00	L			1					11-3/8	221	
CK0DA (1)	H	A07T2		1-01 *				K4-4	N 14-3/8	222	
CK0DA (1)	H	F08V2		1-02 *				KT-3		222	
CK0DA (1)	H			1					14-3/8	222	
CKOVF	H	A07R2		1-01 *				K4-4	N 6-1/8	223	
CKOVF	H	C04D1		1-02 *				K1-7	N 7-5/8	223	
CKOVF	H	E03U2		1-03 *				KJ-2		223	
CKOVF	H			1					13-6/8	223	
CLK (UPP*PUPP)	H	B03F2		1-01 *				K2-23	N 9-1/8	224	
CLK (UPP*PUPP)	H	D07V2		1-02 *				K4-2		224	
CLK (UPP*PUPP)	H			1					9-1/8	224	
CLK B	H	E04D2		1-01 *				K1-2345	N 2-3/8	225	
CLK B	H	E07M2		1-02 *				K4-2		225	
CLK B	H			1					2-3/8	225	
CLK B (1)	H	D03J1		1-01 *				K2-7	N 4-3/8	226	
CLK B (1)	H	E07L2		1-02 *				K4-2		226	
CLK B (1)	H			1					4-3/8	226	
CLK BA	H	A04H2		1-01 *				K1-6	N 12-1/8	227	
CLK BA	H	E07H1		1-02 *				K4-24	SOURCE (K4-2)	227	
CLK BA	H			1					12-1/8	227	
CLK BA (1)	H	B08U1		1-01 *	2			KT-9	N 7-1/8	228	
CLK BA (1)	H	D03L1		1-02 *				K2-7	N 3-4/8	228	
CLK BA (1)	H	E07J1		1-03 *				K4-2		228	
CLK BA (1)	H			1					10-5/8	228	
CLK BOVFLW	H	A07K2		1-01 *	1			K4-4	N 8-3/8	229	
CLK BOVFLW	H	D06F2		1-02 *				K5-4		229	
CLK BOVFLW	H			1					8-3/8	229	
CLK BUS	H	D08H1		1-01 *				KT-3	N 3-5/8	230	
CLK BUS	H	E07K1		1-02 *				K4-245	SOURCE (K4-2)	230	
CLK BUS	H			1					3-5/8	230	
CLK D	H	B04L2		1-01 *				K1-2345	N 9-3/8	231	
CLK D	H	E06N2		1-02 *				K5-2	N 1	231	
CLK D	H	E07N2		1-03 *				K4-2		231	
CLK D	H			1					10-3/8	231	
CLK D (1)	H	A01K2		1-01 *				KF-4	N 9-3/8	232	
CLK D (1)	H	D03K2		1-02 *				K2-7	N 5-2/8	232	
CLK D (1)	H	E07P2		1-03 *				K4-2		232	
CLK D (1)	H			1					14-5/8	232	
CLK EPS(C)	H	B02S2						KE-5	SOURCE	1-PIN RUN	233

RD11A,N	WRAPD .V35(102)-1	03-JUN-77	27-Oct-77	16117	PAGE 23	NC LENGTH EXCEPTIONS	RUN NUMBER				
RUN NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW	RV RG Y X Z	REMARKS	NC LENGTH EXCEPTIONS	RUN NUMBER	
CLK EPS(N,Z)	H	A01D2		1-01 *				KF-4	N 8-1/8	234	
CLK EPS(N,Z)	H	D02A1		1-02 *				KE-5	SOURCE	234	
CLK EPS(N,Z)	H			1					8-1/8	234	
CLK EPS(V)	H	C02L2						KE-6		1-PIN RUN	235
CLK EU(88157)	H	C01U2		1-01 *				KF-4	N 1-3/8	236	
CLK EU(88157)	H	C02N2		1-02 *				KE-457	SOURCE (KE-5)	236	
CLK EU(88157)	H			1					1-3/8	236	
CLK IR	H	B05J1		1-01 *				K3-3	N 5-7/8	237	
CLK IR	H	D07C1		1-02 *				K4-25	N 7-7/8	237	
CLK IR	H	F08R2		1-03 *				KT-78		237	
CLK IR	H			1					13-6/8	237	
CLK MSYN	H	E08M1		1-01 *				KT-56	N 3-1/8	238	
CLK MSYN	H	F07L2		1-02 *				K4-34	SOURCE (K4-4)	238	
CLK MSYN	H			1					3-1/8	238	
CLK NPR	H	C07C1						K4-5	SOURCE	1-PIN RUN	239
CLK PTRD	H	C07P1						K4-5	SOURCE	1-PIN RUN	240
CLK U(16109)	H	C03F1		1-01 *				K2-4	N 6-5/8	241	
CLK U(16109)	H	D07T2		1-02 *				K4-2	SOURCE	241	
CLK U(16109)	H			1					6-5/8	241	
CLK U(56117)	H	C03K1		1-01 *				K2-5678	N 4-2/8	242	
CLK U(56117)	H	D08K1		1-02 *				KT-2	N 1-5/8	242	
CLK U(56117)	H	D07U2		1-03 *				K4-2	SOURCE	242	
CLK U(56117)	H			1					5-7/8	242	
CLKTR (1)	H	D03T2		1-01 *				K2-8	N 3-4/8	243	
CLKTR (1)	H	E07P1		1-02 *				K4-2	N 3-1/8	243	
CLKTR (1)	H	F08K1		1-03 *				KT-7		243	
CLKTR (1)	H			1					6-5/8	243	
CLKL1 (0)	H	D03M2		1-01 *				K2-8	N 2-7/8	244	
CLKL1 (0)	H	E07A1		1-02 *				K4-2		244	
CLKL1 (0)	H			1					2-7/8	244	
CLKL1 (1)	H	D03N2		1-01 *				K2-8	N 2-5/8	245	
CLKL1 (1)	H	D07U1		1-02 *				K4-2		245	
CLKL1 (1)	H			1					2-5/8	245	
CLKLO (0)	H	D03R1		1-01 *				K2-8	N 6-5/8	246	
CLKLO (0)	H	F07H1		1-02 *				K4-2		246	
CLKLO (0)	H			1					6-5/8	246	
CLKLO (1)	H	D03L2		1-01 *				K2-8	N 4-5/8	247	
CLKLO (1)	H	E07M1		1-02 *				K4-2		247	
CLKLO (1)	H			1					4-5/8	247	
CLKOFF (1)	H	D03U2		1-01 *				K5-8	N 6-3/8	248	
CLKOFF (1)	H	F07J1		1-02 *				K4-2		248	
CLKOFF (1)	H			1					6-3/8	248	

RD11A,N RUN NAME	A/P	WRAPD .V35(102)-1 PIN NAME	ORDER PIN	RAY - ORDER	Q	DRAW	PV RG Y OPT	X	Z	REMARKS	27-Oct-77	16:17 NC LENGTH FLAG	PAGE 24 EXCEPTIONS	RUN NUMBER
CLR BERR	L	C06H1					K5-4			SOURCE			1-PIN RUN	249
CLR IR	L	B05H2					K3-3			SOURCE			1-PIN RUN	250
CLR PTF	L	D07H1					K4-56			SOURCE (K4-5)			1-PIN RUN	251
CLR PUPP	L	B03L1					K2-23			SOURCE (K2-2)			1-PIN RUN	252
CLR U(16:09)	L	C03H1					K2-4			SOURCE			1-PIN RUN	253
CLR UPP0	L	A03F2		1-01 *	1		K2-2		1			N 16-5/8		254
CLR UPP0	L	F07S2		1-02 *			K4-3			SOURCE		16-5/8		254
CLR UPP0	L			1										254
CLR UPP1	L	A03H2		1-01 *			K2-2		1			N 15-5/8		255
CLR UPP1	L	F07F2		1-02 *			K4-3			SOURCE		15-5/8		255
CLR UPP1	L			1										255
CLR UPP4,3	L	B03H1		1-01 *			K2-23		1			N 13-1/8		256
CLR UPP4,3	L	F07H2		1-02 *			K4-3			SOURCE		13-1/8		256
CLR UPP4,3	L			1										256
CLR UPP7,612	L	B03K1		1-01 *			K2-23		1			N 12-1/8		257
CLR UPP7,612	L	F07C1		1-02 *			K4-3			SOURCE		12-1/8		257
CLR UPP7,612	L			1										257
CLR UPP8,5	L	A03P1		1-01 *			K2-3		1			N 14-7/8		258
CLR UPP8,5	L	F07D2		1-02 *			K4-3			SOURCE		14-7/8		258
CLR UPP8,5	L			1										258
COMUXS0	H	B04H2		1-01 *			K1-5		1			N 5-1/8		259
COMUXS0	H	D05A1		1-02 *			K3-8			SOURCE		5-1/8		259
COMUXS0	H			1										259
COMUXS1	H	B04R2		1-01 *			K1-5		1			N 4-5/8		260
COMUXS1	H	D05D1		1-02 *			K3-8			SOURCE		4-5/8		260
COMUXS1	H			1										260
CONSL (0)	H	A07E1		1-01 *			K4-4		2			N 1-7/8		261
CONSL (0)	H	A06S2		1-02 *			K5-6		1	SOURCE		N 4-3/8		261
CONSL (0)	H	C07R1		1-03 *			K4-5		2			N 2-3/8		261
CONSL (0)	H	C08P2		1-04 *			KT-30		1			N 6-7/8		261
CONSL (0)	H	E05N2		1-05 *			K3-7		2			N 3-7/8		261
CONSL (0)	H	F07P1		1-06 *			K4-3		1					261
CONSL (0)	H			1								19-3/8		261
COUNT0 (1)	H	B01H2	D02R2	1-01 *			KF-4		1			N 7-1/8		262
COUNT0 (1)	H	D02R2		1-02 *			KE-6			SOURCE				262
COUNT0 (1)	H			1										262
COUNT1 (1)	H	B01H1	D02R1	1-01 *			KF-4		1			N 7-1/8		263
COUNT1 (1)	H	D02R1		1-02 *			KE-6			SOURCE				263
COUNT1 (1)	H			1								7-1/8		263

RD11A,N RUN NAME	A/P	WRAPD .V35(102)-1 PIN NAME	ORDER PIN	RAY - ORDER	Q	DRAW	PV RG Y OPT	X	Z	REMARKS	27-Oct-77	16:17 NC LENGTH FLAG	PAGE 25 EXCEPTIONS	RUN NUMBER
COUNT2 (1)	H	B01F1		1-01 *			KF-4		1			N 6-7/8		264
COUNT2 (1)	H	D02N1		1-02 *			KE-6			SOURCE				264
COUNT2 (1)	H			1								6-7/8		264
COUNT3 (1)	H	B01R2		1-01 *			KF-4		1			N 5-7/8		265
COUNT3 (1)	H	D02N2		1-02 *			KE-6			SOURCE				265
COUNT3 (1)	H			1								5-7/8		265
COUNT4 (1)	H	B01S2		1-01 *			KF-4		1			N 7-3/8		266
COUNT4 (1)	H	E02D2		1-02 *			KE-6			SOURCE				266
COUNT4 (1)	H			1								7-3/8		266
COUNT5 (1)	H	B01T2		1-01 *			KF-4		1			N 6-5/8		267
COUNT5 (1)	H	E02C1		1-02 *			KE-6			SOURCE				267
COUNT5 (1)	H			1								6-5/8		267
COUNT6 (1)	H	B01U2		1-01 *			KF-4		1			N 7-1/8		268
COUNT6 (1)	H	E02E2		1-02 *			KE-6			SOURCE				268
COUNT6 (1)	H			1								7-1/8		268
COUNT7 (1)	H	B01V2		1-01 *			KF-4		1			N 6-5/8		269
COUNT7 (1)	H	E02D1		1-02 *			KE-6			SOURCE				269
COUNT7 (1)	H			1								6-5/8		269
COUNT8	H	D02P2					KE-6			SOURCE			1-PIN RUN	270
COUT 15	L	B04D2		1-01 *			K1-5		1	SOURCE		N 5-1/8		271
COUT 15	L	C02N1		1-02 *			KE-6							271
COUT 15	L			1								5-1/8		271
COUT MUX	L	B04K2					K1-5			SOURCE			1-PIN RUN	272
D HOOK	H	E04V2		1-01 *			K1-8		1			N 3-4/8		273
D HOOK	H	E08J2		1-02 *			KT-9			SOURCE				273
D HOOK	H			1								3-4/8		273
D PERTE RELEASE	L	C07N1					K4-5			SOURCE			1-PIN RUN	274
D SACK	H	B07S2					K4-5			SOURCE			1-PIN RUN	275
D(03100)=0	H	D04D1		1-01 *			K1-7		1	SOURCE		N 3-5/8		276
D(03100)=0	H	E06B1		1-02 *			K5-2							276
D(03100)=0	H			1								3-5/8		276
D(07104)=0	H	D04H1		1-01 *			K1-7		1	SOURCE		N 3-6/8		277
D(07104)=0	H	E06D2		1-02 *			K5-2							277
D(07104)=0	H			1								3-6/8		277
D(15100)=0	H	B02U2		1-01 *			KE-46		2	SOURCE		N 4-5/8		278
D(15100)=0	H	D01F2		1-02 *			KF-4		1			N 2-5/8		278
D(15100)=0	H	D04V2		1-03 *			K1-7		2	SOURCE		N 1-5/8		278
D(15100)=0	H	D06P2		1-04 *			K5-2		1			N 5-7/8		278
D(15100)=0	H	F05N2		1-05 *			K3-2							278
D(15100)=0	H			1								14-6/8		278

KD11A,N	WRAPD .V35(102)-1	03-JUN-77	27-Oct-77	16117	PAGE 26	RUN					
RUN NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q DRAW	RV RG Y X Z	REMARKS	NC LENGTH	EXCEPTIONS	FLAG	NUMBER
D(15420)0	L	B02U1					KE-4				1-PIN RUN 279
D(C) (0)	H	B04N1		1-01 *			K1-5			N 1-3/8	280
D(C) (0)	H	B05L2		1-02 *			K3-9			1-3/8	280
D(C) (0)	H			1							280
D00 (1)	H	B05N2		1-01 *			K3-9			N 5-5/8	281
D00 (1)	H	D04H2		1-02 *			K1-27			5-5/8	281
D00 (1)	H			1							281
D07 (1)	H	D04L2		1-01 *			K1-37			N 3-3/8	282
D07 (1)	H	E06F2		1-02 *			K5-2				282
D07 (1)	H			1						3-3/8	282
D15 (1)	H	B04F2		1-01 *			K1-57			N 4-5/8	283
D15 (1)	H	C02K1		1-02 *			KE-4			N 7-3/8	283
D15 (1)	H	E06E2		1-03 *			K5-2				283
D15 (1)	H			1						12-0/8	283
DAD(3*2)	L	A05T2		1-01 *			K3-8			N 3-3/8	284
DAD(3*2)	L	B02C1		1-02 *			KE-5			N 7-1/8	284
DAD(3*2)	L	D01M1		1-03 *			KF-4				284
DAD(3*2)	L			1						10-4/8	284
DAD0 (1)	H	B06K2	C07S1	1-01 *			K5-6			N 3-7/8	285
DAD0 (1)	H	C07S1		1-02 *			K4-4			N 2-5/8	285
DAD0 (1)	H	D03D2		1-03 *			K2-7				285
DAD0 (1)	H			1						6-4/8	285
DAD1 (1)	H	B05B1		1-01 *			K3-8			N 4-5/8	286
DAD1 (1)	H	C07F2		1-02 *			K4-4			N 5-1/8	286
DAD1 (1)	H	D03P1		1-03 *			K2-7				286
DAD1 (1)	H			1						9-6/8	286
DAD2 (1)	H	A05S1		1-01 *			K3-8			N 5-5/8	287
DAD2 (1)	H	C07E2		1-02 *			K4-4			N 6-1/8	287
DAD2 (1)	H	D03N1		1-03 *			K2-7				287
DAD2 (1)	H			1						11-6/8	287
DAD3 (1)	H	B07M2		1-01 *			K4-4			N 2-1/8	288
DAD3 (1)	H	B05C1		1-02 *			K3-8			N 7-5/8	288
DAD3 (1)	H	D03M1		1-03 *			K2-7				288
DAD3 (1)	H			1						9-6/8	288
DISABLE TSACH	L	D07H2					K4-6				1-PIN RUN 289
DIV	L	C02D2					KE-45				1-PIN RUN 290
DM=0	L	E05J2		1-01 *			K3-3			N 2-1/8	291
DM=0	L	E08D1		1-02 *			KT-9				291
DM=0	L			1						2-1/8	291

KD11A,N	WRAPD .V35(102)-1	03-JUN-77	27-Oct-77	16117	PAGE 27	RUN					
RUN NAME	A/P	PIN NAME	ORDER PIN	BAY - ORDER	Q DRAW	RV RG Y X Z	REMARKS	NC LENGTH	EXCEPTIONS	FLAG	NUMBER
DMUX00	H	A08E1		1-01 *			KT-4			N 14-3/8	292
DMUX00	H	E02K1		1-02 *			KE-2			N 1-5/8	292
DMUX00	H	E04L1		1-03 *			K1-289			N 3-5/8	292
DMUX00	H	F05L1		1-04 *			K3-39				292
DMUX00	H			1						19-5/8	292
DMUX01	H	A08D1		1-01 *			KT-4			N 13-1/8	293
DMUX01	H	E04J2		1-02 *			K1-289			N 1-4/8	293
DMUX01	H	E02J2		1-03 *			KE-2			N 4-1/8	293
DMUX01	H	F05F1		1-04 *			K3-39				293
DMUX01	H			1						18-6/8	293
DMUX02	H	A08C1		1-01 *			KT-4			N 10-3/8	294
DMUX02	H	D06M1		1-02 *			K5-2			N 3-5/8	294
DMUX02	H	E02K2		1-03 *			KE-2			N 1-3/8	294
DMUX02	H	E04M1		1-04 *			K1-289			N 3-1/8	294
DMUX02	H	F05H1		1-05 *			K3-3				294
DMUX02	H			1						18-4/8	294
DMUX03	H	A08J1		1-01 *			KT-4			N 9-7/8	295
DMUX03	H	D06N1		1-02 *			K5-2			N 3-2/8	295
DMUX03	H	E02J1		1-03 *			KE-2			N 4-3/8	295
DMUX03	H	F04J2		1-04 *			K1-289			N 0-1/8	295
DMUX03	H	F05K1		1-05 *			K3-3				295
DMUX03	H			1						17-5/8	295
DMUX04	H	A08M1		1-01 *			KT-4			N 9-5/8	296
DMUX04	H	D04F1		1-02 *			K1-389			N 2	296
DMUX04	H	D05S2		1-03 *			K3-3			N 1-5/8	296
DMUX04	H	E06C1		1-04 *			K5-2			N 2-7/8	296
DMUX04	H	F02H1		1-05 *			KE-2				296
DMUX04	H			1						16-1/8	296
DMUX05	H	A08L1		1-01 *			KT-4			N 9-5/8	297
DMUX05	H	D04C1		1-02 *			K1-389			N 2-2/8	297
DMUX05	H	D05P2		1-03 *			K3-3			N 2-6/8	297
DMUX05	H	E02H2		1-04 *			KE-2			N 3-1/8	297
DMUX05	H	E06P1		1-05 *			K5-2				297
DMUX05	H			1						17-6/8	297
DMUX06	H	B08D1		1-01 *			KT-4			N 8-5/8	298
DMUX06	H	D04M1		1-02 *			K1-389			N 1-5/8	298
DMUX06	H	D05T2	E06V2	1-03 *			K3-3			N 3-5/8	298
DMUX06	H	E06V2		1-04 *			K5-2			N 3-4/8	298
DMUX06	H	F02N1		1-05 *			KE-2				298
DMUX06	H			1						17-3/8	298
DMUX07	H	B08F2		1-01 *			KT-4			N 7-5/8	299
DMUX07	H	D04F2		1-02 *			K1-389			N 1-7/8	299
DMUX07	H	D05R2		1-03 *			K3-3			N 3-3/8	299
DMUX07	H	E06R2		1-04 *			K5-2			N 3-6/8	299
DMUX07	H	F02M2		1-05 *			KE-2				299
DMUX07	H			1						16-5/8	299

KD11A, N RUN NAME		WRAPD .V35(102)-1 03-JUN-77						27-Oct-77			PAGE 28		
A/F	PIN NAME	ORDER PIN	BAY - ORDER	Q DRAW	RV RG Y	X Z	REMARKS	NC FLAG	LENGTH	EXCEPTIONS	RUN NUMBER		
H	B08J1		1-01 *			1	KT-4	N	3-1/8		300		
H	B04S2		1-02 *			2	K1-489	N	2-1/8	SOURCE (K1-4)	300		
H	C05H1		1-03 *			1	K3-3	N	6-5/8		300		
H	E03H1		1-04 *			2	KJ-2	N	3-7/8		300		
H	F02N2		1-05 *				KE-2				300		
H			1						15-6/8		300		
H	B08K2		1-01 *			1	KT-4	N	3-1/8		301		
H	B04T2		1-02 *			2	K1-489	N	2-1/8	SOURCE (K1-4)	301		
H	C05J1		1-03 *			1	K3-3	N	6-5/8		301		
H	E03J1		1-04 *			2	KJ-2	N	3-3/8		301		
H	F02J2		1-05 *				KE-2				301		
H			1						15-2/8		301		
H	C08J2		1-01 *			1	KT-4	N	2-5/8		302		
H	C05E1		1-02 *			2	K3-3	N	1-7/8	SOURCE (K1-4)	302		
H	B04U1		1-03 *			1	K1-489	N	7-5/8		302		
H	E03K1		1-04 *			2	KJ-2	N	3-5/8		302		
H	F02K1		1-05 *				KE-2				302		
H			1						15-6/8		302		
H	B08L2		1-01 *			1	KT-4	N	3-3/8		303		
H	B04U2		1-02 *			2	K1-489	N	1-7/8	SOURCE (K1-4)	303		
H	C05F1		1-03 *			1	K3-3	N	7-3/8		303		
H	E03M1		1-04 *			2	KJ-2	N	3-1/8		303		
H	F02K2		1-05 *				KE-2				303		
H			1						15-6/8		303		
H	A04B1		1-01 *			1	K1-589	N	5-1/8	SOURCE (K1-5)	304		
H	B05P1		1-02 *			2	K3-3	N	5-1/8		304		
H	C08V2		1-03 *			1	KT-2	N	7-5/8		304		
H	E03N1		1-04 *			2	KJ-2	N	2-5/8		304		
H	F02D1		1-05 *				KE-2				304		
H			1						20-4/8		304		
H	A04D2		1-01 *	2		2	K1-589	N	6-5/8	SOURCE (K1-5) 3-0	305		
H	B05N1		1-02 *			1	K3-3	N	6-3/8		305		
H	D08E2		1-03 *			2	KT-2	N	5-5/8		305		
H	E03F1		1-04 *			1	KJ-2	N	2-5/8		305		
H	F02E1		1-05 *				KE-2				305		
H			1						21-2/8		305		
H	A04F2		1-01 *			2	K1-589	N	3-7/8	SOURCE (K1-5)	306		
H	B05M1		1-02 *			1	K3-3	N	6-5/8		306		
H	D08D2		1-03 *			2	KT-2	N	6-4/8		306		
H	E03S1		1-04 *			1	KJ-2	N	2-3/8		306		
H	F02F1		1-05 *				KE-2				306		
H			1						19-3/8		306		
H	A04E2		1-01 *			1	K1-589	N	4-3/8	SOURCE (K1-5)	307		
H	B05P1		1-02 *			2	K3-3	N	5-1/8		307		
H	C08U2		1-03 *			1	KT-2	N	7-7/8		307		
H	E03R1		1-04 *			2	KJ-2	N	2-1/8		307		
H	F02B1		1-05 *				KE-2				307		
H			1						19-4/8		307		

KD11A, N RUN NAME		WRAPD .V35(102)-1 03-JUN-77						27-Oct-77			PAGE 29		
A/F	PIN NAME	ORDER PIN	BAY - ORDER	Q DRAW	RV RG Y	X Z	REMARKS	NC FLAG	LENGTH	EXCEPTIONS	RUN NUMBER		
H	B07H1		1-01 *			1	K4-4	N	8-3/8	SOURCE	308		
H	E08E1		1-02 *			2	KT-26	N	4-1/8		308		
H	E03V1		1-03 *				KJ-2				308		
H			1						12-4/8		308		
H	B07K1		1-01 *			1	K4-4	N	8-3/8	SOURCE	309		
H	E08F1		1-02 *				KT-6				309		
H			1						8-3/8		309		
L	A02L1						KE-5			1-PIN RUN	310		
H	B02B1		1-01 *			2	KE-23456	N	2-3/8	SOURCE (KE-2)	311		
H	B01P1		1-02 *			1	KF-2	N	8-1/8		311		
H	E01N2		1-03 *				KM-2				311		
H			1						10-4/8		311		
H	C01M2		1-01 *			1	KF-3	N	6-1/8	SOURCE (KE-2)	312		
H	E02F2		1-02 *				KE-23				312		
H			1						6-1/8		312		
H	C01B1		1-01 *			1	KF-3	N	6-5/8	SOURCE (KE-2)	313		
H	E02F1		1-02 *				KE-23				313		
H			1						6-5/8		313		
H	B01S1		1-01 *			1	KF-3	N	9-3/8	SOURCE (KE-2)	314		
H	E02V2		1-02 *				KE-23				314		
H			1						9-3/8		314		
H	B01D1		1-01 *			1	KF-3	N	9-3/8	SOURCE (KF-2)	315		
H	E02M1		1-02 *				KE-23				315		
H			1						9-3/8		315		
H	A01N1		1-01 *			1	KF-3	N	11-5/8	SOURCE (KE-2)	316		
H	E02R1		1-02 *				KE-23				316		
H			1						11-5/8		316		
H	A01F2		1-01 *			1	KF-3	N	12-3/8	SOURCE (KE-2)	317		
H	E02R2		1-02 *				KE-23				317		
H			1						12-3/8		317		
H	E02P1						KE-23			1-PIN RUN	318		
H	A01P2		1-01 *			1	KF-4	N	11-7/8	SOURCE (KE-2)	319		
H	E02V1		1-02 *				KE-23				319		
H			1						11-7/8		319		
H	A01R2		1-01 *			1	KF-4	N	9-6/8	SOURCE (KE-2)	320		
H	E01D2		1-02 *			2	KM-2	N	3-7/8		320		
H	F02J1		1-03 *				KE-23				320		
H			1						13-5/8		320		
H	F02H2						KE-23			1-PIN RUN	321		
H	E02T2						KE-23			1-PIN RUN	322		

KID11A, I RUN NAME	A/P	PIN NAME	FRAPP V35(102)-1		03-JUN-77		RV	RC	Y	X	Z	REMARKS	27-Oct-77	16117 NC LENGTH FLAG	PAGE 32		RUN NUMBER
			ORDER PIN	BAY =	Q	DRAW									EXCEPTIONS	RUN NUMBER	
EUHC6	L	AO3R1													1-PIN RUN		352
EUHC7	L	AO3R1													1-PIN RUN		353
EUHC8	L	AO3R1			1-01 *									N 3-1/8			354
EUHC9	L	AO2R1			1-02 *							SOURCE		3-1/8			354
EUHC8	L				1												
EUHF1 (1)	H	AO1T2			1-01 *									N 2-5/8			355
EUHF2 (1)	H	AO2T1			1-02 *							SOURCE (KF-7)		2-5/8			355
EUHF3 (1)	H				1												
EUHF1 (1)	H	AO1D2			1-01 *									N 1-7/8			356
EUHF1 (1)	H	AO2D1			1-02 *							SOURCE (KF-7)		1-7/8			356
EUHF1 (1)	H				1												
EUHF2 (1)	H	AO1V2			1-01 *									N 1-3/8			357
EUHF2 (1)	H	AO2N1			1-02 *							SOURCE (KE-7)		1-3/8			357
EUHF2 (1)	H				1												
EUHF3 (1)	H											SOURCE			1-PIN RUN		358
EUHF4 (1)	H	BO1D2			1-01 *									N 0-4/8			359
EUHF1 (1)	H	BO2R1			1-02 *							SOURCE		0-4/8			359
EUHF1 (1)	H				1												
EUHF8	H	BO2S2										SOURCE			1-PIN RUN		360
EXT E CIE TRAP	I	BO2F2			1-01 *									N 2-5/8			361
EXT E CIE TRAP	I	BO6F2			1-02 *							SOURCE		2-5/8			361
EXT E CIE TRAP	I				1												
FALSE EP	I	BO5M1			1-01 *									N 6-3/8			362
FALSE EP	I	BO6M1			1-02 *							SOURCE		6-3/8			362
FALSE EP	I				1												
FAULT	H	AO7H2			1-01 *									N 6-7/8			363
FAULT	H	AO9S1			1-02 *							SOURCE		6-7/8			363
FAULT	H				1												
FAULT	L	CO8R1			1-01 *									N 9-3/8			364
FAULT	L	CO5M2			1-02 *							SOURCE		9-3/8			364
FAULT	L				1												
FAUX AIP	H	AO2B1			1-01 *									N 10-3/8			365
FAUX AIP	H	AO1P1			1-02 *							SOURCE		10-3/8			365
FAUX AIP	H				1												
FC1BUS (1)	H	BO2A1			1-01 *									N 7-1/8			366
FC1BUS (1)	H	BO1M2			1-02 *							SOURCE		7-1/8			366
FC1BUS (1)	H				1												
FD1V	H	CO2F2			1-01 *									N 4-1/8			367
FD1V	H	CO1L2			1-02 *							SOURCE		4-1/8			367
FD1V	H				1												

KID11A, I RUN NAME	A/P	PIN NAME	FRAPP V35(102)-1		03-JUN-77		RV	RC	Y	X	Z	REMARKS	27-Oct-77	16117 NC LENGTH FLAG	PAGE 33		RUN NUMBER
			ORDER PIN	BAY =	Q	DRAW									EXCEPTIONS	RUN NUMBER	
ETS INST1	L	BO2R2			1-01 *									N 3-1/8			368
ETS INST1	L	CO2J1			1-02 *							SOURCE		4-1/8			368
ETS INST1	L	BO1R2			1-03 *									7-2/8			368
ETS INST1	L				1												
EUNCI	L	BO1J2			1-01 *									N 1-3/8			369
EUNCI	L	BO2P2			1-02 *							SOURCE		1-3/8			369
EUNCI	L				1												
GND AP		AO1C2			1-01 *	P								1			370
GND AP		AO2C2			1-02 *	P								1			370
GND AP		AO3C2			1-03 *	P								1			370
GND AP		AO4C2			1-04 *	P								1			370
GND AP		AO5C2			1-05 *	P								1			370
GND AP		AO6C2			1-06 *	P								1			370
GND AP		AO7C2			1-07 *	P								1			370
GND AP		AO8C2			1-08 *	P								1			370
GND AP		AO9C2			1-09 *	P								1			370
GND AP		AO9H2			1-10 *	P								0-1/8			370
GND AP		AO9M1			1-11 *	P								1-7/8			370
GND AP		AO9P1			1-12 *	P								0-1/8			370
GND AP		AO9R1			1-13 *	P								0-1/8			370
GND AP		AO9S1			1-14 *	P								0-1/8			370
GND AP		AO9T1			1-15 *	P								0-4/8			370
GND AP		AO9V2			1-16 *	P								1-2/8			370
GND AP		BO9P2			1-17 *	F								0-1/8			370
GND AP		BO9C2			1-18 *	P								0-1/8			370
GND AP		BO9D1			1-19 *	P								0-1/8			370
GND AP		BO9F1			1-20 *	P								0-4/8			370
GND AP		BO9G2			1-21 *	P								1			370
GND AP		BO7C2			1-22 *	P								0-4/8			370
GND AP		BO7C1			1-23 *	P								0-4/8			370
GND AP		BO6C2			1-24 *	P								1			370
GND AP		BO5C2			1-25 *	P								1			370
GND AP		BO4C2			1-26 *	P								1			370
GND AP		BO3C2			1-27 *	P								1			370
GND AP		BO2C2			1-28 *	P								1			370
GND AP		BO1C2			1-29 *	P								1-5/8			370
GND AP		AO1T1			1-30 *	P								1			370
GND AP		AO2T1			1-31 *	P								1			370
GND AP		AO3T1			1-32 *	P								1			370
GND AP		AO4T1			1-33 *	P								1			370
GND AP		AO5T1			1-34 *	P								1			370
GND AP		AO6T1			1-35 *	P								1			370
GND AP		AO7T1			1-36 *	P								1			370
GND AP		AO8T1			1-37 *	P								3-2/8			370
GND AP		BO8T1			1-38 *	P								1			370
GND AP		BO9T1			1-39 *	P								0-4/8			370
GND AP		BO9V2			1-40 *	P								1-7/8			370
GND AP		BO7T1			1-41 *	P								1			370
GND AP		BO6T1			1-42 *	P								1			370
GND AP		BO5T1			1-43 *	P								1			370
GND AP		BO4T1			1-44 *	P								1			370
GND AP		BO3T1			1-45 *	P								1			370
GND AP		BO2T1			1-46 *	P								1			370
GND AP		BO1T1			1-47 *	P								1			370

KD11A,N
RPN NAME

KRAFD .V35(102)-1 03-JUN-77
A/E PIN ORDER PAY - Q DRAW PV RG Y X Z
NAME PIN ORDEP OPT

27-Oct-77

16117 PAGE 34
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

A/E	PIN	ORDER	PAY -	Q	DRAW	PV	RG	Y	X	Z	REMARKS	NC LENGTH	EXCEPTIONS	RUN
NAME	PIN	ORDEP	ORDEP									FLAG		NUMBER
GND AR			1									41-3/R		370
GND CD	C01C2		1-01 *	P						2	GND AR	1		371
GND CD	C02C2		1-02 *	P						1	,GND CD,EF	4-4/H		371
GND CD	C03C1		1-03 *	P						2	ARE	0-4/H		371
GND CD	C03C2		1-04 *	P						1	PHYSICALLY	1		371
GND CD	C04C2		1-05 *	P						2	TIED	1		371
GND CD	C05C2		1-06 *	P						1	TOGETHER	1-4/H		371
GND CD	C07C2		1-07 *	P						2	BY ETCH	1		371
GND CD	C06C2		1-08 *	P						1		2-1/H		371
GND CD	C06T1		1-09 *	P						2		1		371
GND CD	C05T1		1-10 *	P						1		1		371
GND CD	C04T1		1-11 *	P						2		1		371
GND CD	C03T1		1-12 *	P						1		0-4/H		371
GND CD	C03V2		1-13 *	P						2		1-3/H		371
GND CD	C02T1		1-14 *	P						1		1		371
GND CD	C01T1		1-15 *	P						2		5-5/H		371
GND CD	C08C2		1-16 *	P						1		1		371
GND CD	C09C2		1-17 *	P						2		2-1/H		371
GND CD	C09T1		1-18 *	P						1		1		371
GND CD	C08T1		1-19 *	P						2		1		371
GND CD	C07T1		1-20 *	P						1		2		371
GND CD	D09C2		1-21 *	P						2		1		371
GND CD	D08C2		1-22 *	P						1		1		371
GND CD	D07C2		1-23 *	P						2		1		371
GND CD	D09C2		1-24 *	P						1		32		371
GND CD	D05C2		1-25 *	P						2		1		371
GND CD	D04C2		1-26 *	P						1		1		371
GND CD	D03C2		1-27 *	P						2		0-4/H		371
GND CD	D03C1		1-28 *	P						1		0-4/H		371
GND CD	D02C2		1-29 *	P						2		1		371
GND CD	D01C2		1-30 *	P						1		2-1/H		371
GND CD	D01T1		1-31 *	P						2		1		371
GND CD	D02T1		1-32 *	P						1		1		371
GND CD	D03T1		1-33 *	P						2		0-4/H		371
GND CD	D03V2		1-34 *	P						1		0-4/H		371
GND CD	D04T1		1-35 *	P						2		1		371
GND CD	D05T1		1-36 *	P						1		1		371
GND CD	D06T1		1-37 *	P						2		1		371
GND CD	D07T1		1-38 *	P						1		1		371
GND CD	D08T1		1-39 *	P						2		1		371
GND CD	D09T1		1-40 *	P						1		106-3/H		371

KD11A,N
RPN NAME

KRAFD .V35(102)-1 03-JUN-77
A/E PIN ORDER PAY - Q DRAW PV RG Y X Z
NAME PIN ORDEP OPT

27-Oct-77

16117 PAGE 35
NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

A/E	PIN	ORDER	PAY -	Q	DRAW	PV	RG	Y	X	Z	REMARKS	NC LENGTH	EXCEPTIONS	RUN
NAME	PIN	ORDEP	ORDEP									FLAG		NUMBER
GND EF	E09C2		1-01 *	P						2	GND AR	0-4/H		372
GND EF	E09A1		1-02 *	P						1	,GND CD	0-4/H		372
GND EF	E08C2		1-03 *	P						2	AND GND EF	1		372
GND EF	E07C2		1-04 *	P						1	ARE	1		372
GND EF	E06C2		1-05 *	P						2	PHYSICALLY	1		372
GND EF	E05C2		1-06 *	P						1	TIED	1		372
GND EF	E04C2		1-07 *	P						2	TOGETHER	1		372
GND EF	E03C2		1-08 *	P						1	BY ETCH	1		372
GND EF	E02C2		1-09 *	P						2		1		372
GND EF	E01C2		1-10 *	P						1		2-1/H		372
GND EF	E01T1		1-11 *	P						2		1		372
GND EF	E02T1		1-12 *	P						1		1		372
GND EF	E03T1		1-13 *	P						2		1		372
GND EF	E04T1		1-14 *	P						1		1		372
GND EF	E05T1		1-15 *	P						2		1		372
GND EF	E06T1		1-16 *	P						1		1		372
GND EF	E07T1		1-17 *	P						2		1		372
GND EF	E08T1		1-18 *	P						1		1		372
GND EF	E09T1		1-19 *	P						2		1-5/H		372
GND EF	E09C2		1-20 *	P						1		1		372
GND EF	E08C2		1-21 *	P						2		1		372
GND EF	E07C2		1-22 *	P						1		1		372
GND EF	E06C2		1-23 *	P						2		1		372
GND EF	E05C2		1-24 *	P						1		1		372
GND EF	E04C2		1-25 *	P						2		1		372
GND EF	E03C2		1-26 *	P						1		1		372
GND EF	E02C2		1-27 *	P						2		1		372
GND EF	E01C2		1-28 *	P						1		2-1/H		372
GND EF	E01T1		1-29 *	P						2		1		372
GND EF	E02T1		1-30 *	P						1		1		372
GND EF	E03T1		1-31 *	P						2		1		372
GND EF	E04T1		1-32 *	P						1		1		372
GND EF	E05T1		1-33 *	P						2		1		372
GND EF	E06T1		1-34 *	P						1		1		372
GND EF	E07T1		1-35 *	P						2		1		372
GND EF	E08T1		1-36 *	P						1		1		372
GND EF	E09T1		1-37 *	P						2		1-5/H		372
GND EF	E09T2		1-38 *	P						1		39-4/H		372
GPC=1	A01N2		1-01 *							1	FF-4	1-7/H		373
GPC=1	A02A1		1-02 *							1	KE-5	1		373
GPC=1			1									1-7/H		373
GPC=2	A02F1		1-01 *							1	KE-5	9-5/H		374
GPC=2	D01N1		1-02 *							1	KF-4	1		374
GPC=2			1									9-5/H		374
GPC=5	A02J1		1-01 *							1	KE-25	6-7/H		375
GPC=5	C01T2		1-02 *							1	KF-2	1		375
GPC=5			1									6-7/H		375
GPC=6	A02K2		1-01 *							1	KE-5	9-5/H		376
GPC=6	D01R1		1-02 *							1	KF-4	1		376
GPC=6			1									9-5/H		376

RTIA, RUN NAME	WHARD .V35(102)-1	03-JUN-77				27-Oct-77	16117	PAGE 40		
	A/P	PIN NAME	ORDER PIN	RAY = Q	DRAW	RV RG Y X Z	REMARKS	NC LENGTH	EXCEPTIONS	RUN NUMBER
				ORDER	OPT			FLAG		
IR=075XXX	L	AW2U2		1-01 *		KE-4	SOURCE	N 8-1/8		435
IR=075XXX	L	DM1T1		1-02 *		KF-4		8-1/8		435
IR=075XXX	L			1						435
JAPDTK	H	E07R1				K4-23	SOURCE (K4-3)		1-PIN RUN	436
JAMPFP	H	C06T2		1-01 *		K5-4		N 6-5/8		437
JAMPFP	H	F07A1		1-02 *		K4-23	SOURCE (K4-3)		6-5/8	437
JAMPFP	H			1						437
JAMPFP	L	D03S2	A03V1	1-01 *	1	K2-5678		N 8-1/8		438
JAMPFP	L	A03V1		1-02 *		K2-3		N 6-1/8		438
JAMPFP	L	C06L1		1-03 *		K5-4		N 8-1/8		438
JAMPFP	L	F07E1		1-04 *		K4-3	SOURCE		22-3/8	438
JAMPFP	L			1						438
JREFR (0)	H	F07L1				K4-3	SOURCE		1-PIN RUN	439
JPUR (0)	H	E06T2		1-01 *		K5-8		N 11-3/8		440
JPUR (0)	H	F07T2		1-02 *		K4-3	SOURCE		11-3/8	440
JPUR (0)	H			1						440
KT INSR	L	D05B1		1-01 *		K3-5		N 5-5/8		441
KT INSR	L	E08B1		1-02 *		KI-7	SOURCE		5-5/8	441
KT INSR	L			1						441
KTSR16	L	B06B2		1-01 *		K5-7		N 4-3/8		442
KTSR16	L	C08K1		1-02 *		KI-9	SOURCE		4-3/8	442
KTSR16	L			1						442
KTSR17	L	A06P2		1-01 *		K5-7		N 7-5/8		443
KTSR17	L	C08L2		1-02 *		KI-9	SOURCE		7-5/8	443
KTSR17	L			1						443
LOAD PS	L	B05K2		1-01 *		K3-9		N 6-3/8		444
LOAD PS	L	D06P1		1-02 *		K5-2	SOURCE		6-3/8	444
LOAD PS	L			1						444
LTC	L	F03R1	C09D1	1-01 *	1	KW-2		N 12-5/8		445
LTC	L	C09L1		1-02 *		DD			12-5/8	445
LTC	L			1						445
MCLA	L	F01R1		1-01 *	1	KM-2		N 3-7/8		446
MCLA	L	F07V2		1-02 *		K4-2			3-7/8	446
MCLA	L			1						446
MCLA ENABLE	L	C06S2	E07M1	1-01 *		K5-5		N 5-5/8		447
MCLA ENABLE	L	E07M1		1-02 *		K4-26	SOURCE	N 5-5/8		447
MCLA ENABLE	L	F01V2		1-03 *		KM-2			11-2/8	447
MCLA ENABLE	L			1						447
MFP SW	L	D06V1		1-01 *		K5-5		N 3-1/8		448
MFP SW	L	I08C1		1-02 *		KI-9	SOURCE		3-1/8	448
MFP SW	L			1						448

RTIA, RUN NAME	WHARD .V35(102)-1	03-JUN-77				27-Oct-77	16117	PAGE 41		
	A/P	PIN NAME	ORDER PIN	RAY = Q	DRAW	RV RG Y X Z	REMARKS	NC LENGTH	EXCEPTIONS	RUN NUMBER
				ORDER	OPT			FLAG		
MFR (1)	H	E08U2				KI-7	SOURCE		1-PIN RUN	449
MODP SELL	H	E04U1		1-01 *	1	K1-8		N 3-2/8		450
MODP SELL	H	E08A1		1-02 *		KI-2	SOURCE		3-2/8	450
MODP SELL	H			1						450
MSR0	L	A02L2		1-01 *		K6-5		N 9-1/8		451
MSR0	L	D01R2		1-02 *		KF-2	SOURCE		9-1/8	451
MSR0	L			1						451
MSR0 (1)	H	A02F2		1-01 *		K6-5		N 9-7/8		452
MSR0 (1)	H	D01P2		1-02 *		KF-2	SOURCE	N 2-2/8		452
MSR0 (1)	H	E01R2		1-03 *		KM-2			12-1/8	452
MSR0 (1)	H			1						452
MSR1 (1)	H	B01K2		1-01 *		KF-24		N 8-1/8		453
MSR1 (1)	H	E01J2		1-02 *		KM-2	SOURCE (KF-2)		8-1/8	453
MSR1 (1)	H			1						453
MSR1 (1)	H	E07D1		1-01 *		K4-246	SOURCE (K4-4)	N 9-7/8		454
MSR1 (1)	H	F08P2		1-02 *		KI-2		N 0-1/8		454
MSR1 (1)	H	E08E2		1-03 *		KI-256			10-0/8	454
MSR1 (1)	H			1						454
MSR1A	L	A07R1				K4-4	SOURCE		1-PIN RUN	455
MSR1A (1)	H	A07K1				K4-4	SOURCE		1-PIN RUN	456
MTE1 (1)	H	E08T2				KI-7	SOURCE		1-PIN RUN	457
MUR	L	C02P1				KE-245	SOURCE (KF-4)		1-PIN RUN	458
N DATA	L	B05D1		1-01 *		K3-9		N 9-7/8		459
N DATA	L	E06S1		1-02 *		K5-2	SOURCE		9-7/8	459
N DATA	L			1						459
NO STOP	L	E07S1		1-01 *		K4-2		N 4-1/8		460
NO STOP	L	F01R2		1-02 *		KM-2	SOURCE		4-1/8	460
NO STOP	L			1						460
NO SYB	L	A07C1		1-01 *		K4-4		N 10-5/8		461
NO SYB	L	D08R2		1-02 *		KI-6	SOURCE		10-5/8	461
NO SYB	L			1						461
NOPT (0)	H	C06D2		1-01 *		K5-4		N 4-7/8		462
NOPT (0)	H	D07S2		1-02 *		K4-346	SOURCE (K4-6)		4-7/8	462
NOPT (0)	H			1						462
NOBAC (1)	H	D07P2				K4-6	SOURCE		1-PIN RUN	463
NPH (0)	H	E07H1				K4-56	SOURCE (K4-5)		1-PIN RUN	464
ODA ERR	L	C06C1		1-01 *		K5-4		N 8-1/8		465
ODA ERR	L	E07U2		1-02 *		K4-34	SOURCE (K4-4)		8-1/8	465
ODA ERR	L			1						465

KD114,N RUN NAME	WKAPP V35(102)-1		W3-JUN-77		27-Oct-77	16:17	PAGE 42	RUN	
A/P	PIN NAME	ORDER PIN	PAY - ORDER	Q DRAW OPT	PV RG Y X Z	REMARKS	NC LENGTH FLAG	EXCEPTIONS	NUMREP
OUT HIGH	H	D09K1	1-01 *		DD	SOURCE	N 3-3/8		466
OUT HIGH	H	E09M2	1-02 *		DD	SOURCE			466
OUT HIGH	H		1				3-3/8		466
OUT LOW	H	D09D1	1-01 *		DD	SOURCE	N 4		467
OUT LOW	H	E09N1	1-02 *		DD	SOURCE			467
OUT LOW	H		1				4-0/8		467
OVFL	H	A02V2	1-01 *		KE-4	SOURCE	N 7-5/8		468
OVFL	H	D01H2	1-02 *	E01E1	KF-4	SOURCE	N 2-7/8		468
OVFL	H	E01E1	1-03 *		KM-2		10-4/8		468
OVFL	H		1						468
OVFLA EPF	L	E06M1	1-01 *		K5-4	SOURCE (K4-4)	N 9-3/8		469
OVFLY EPF	L	E07S2	1-02 *		K4-34		9-3/8		469
OVFLY EPF	L		1						469
OVFLW IPF	L	E03R2			KJ-2			1-PIN RUN	470
OVLP (1)	H	C06S1	1-01 *		K5-4	SOURCE	N 2-3/8		471
OVLP (1)	H	D07D1	1-02 *		K4-5		N 3-7/8		471
OVLP (1)	H	E05D1	1-03 *		K3-7		N 4-7/8		471
OVLP (1)	H	E07J2	1-04 *		K4-2				471
OVLP (1)	H		1				11-1/8		471
OVLP CYCLE	L	A07M1	1-01 *		K4-4	SOURCE	N 6-7/8		472
OVLP CYCLE	L	C05P1	1-02 *		K3-4				472
OVLP CYCLE	L		1				6-7/8		472
OVLP INSTR	H	C05P1	1-01 *		K3-4	SOURCE	N 2-5/8		473
OVLP INSTR	H	D06F2	1-02 *		K5-4				473
OVLP INSTR	H		1				2-5/8		473
P BUT 37	H	C06P2			K5-46	SOURCE (K5-6)		1-PIN RUN	474
P CLK UPPER	H	E03R1	1-01 *		K4-2	SOURCE	N 5-3/8		475
P CLK UPPER	H	C02V1	1-02 *		KE-5				475
P CLK UPPER	H		1				5-3/8		475
P CLK MSYN	L	E07K2	1-01 *	1	K4-45	SOURCE (K4-4)	N 7-1/8		476
P CLK MSYN	L	D08V1	1-02 *		KT-9				476
P CLK MSYN	L		1				7-1/8		476
P END	H	C02P1	1-01 *		KE-59	SOURCE	N 4		477
P END	H	D07P1	1-02 *	E04F2	K4-2		N 2-6/8		477
P END	H	E04F2	1-03 *		K1-9				477
P END	H		1				6-6/8		477
P ENDRESET	L	E06J1	1-01 *		K5-8	SOURCE	N 11-7/8		478
P ENDRESET	L	E07M1	1-02 *		K4-2				478
P ENDRESET	L		1				11-7/8		478
P ESTART	L	E07M2			K4-2			1-PIN RUN	479
P JAMSTART	H	D07L1			K4-236	SOURCE (K4-3)		1-PIN RUN	480

KD114,N RUN NAME	WKAPP V35(102)-1		W3-JUN-77		27-Oct-77	16:17	PAGE 43	RUN	
A/P	PIN NAME	ORDER PIN	PAY - ORDER	Q DRAW OPT	PV RG Y X Z	REMARKS	NC LENGTH FLAG	EXCEPTIONS	NUMREP
P JAMSTART	L	E07E1			K4-3	SOURCE (K4-3)		1-PIN RUN	481
P PATCH	L	E04F2			K1-9	SOURCE		1-PIN RUN	482
P ASYN	L	D07K2			K4-5	SOURCE		1-PIN RUN	483
P NO SACK	L	C07J1			K4-5	SOURCE		1-PIN RUN	484
P1	H	A01J2	1-01 *		KF-4		N 4-7/8		485
P1	H	B02V2	1-02 *		KE-5		N 5-7/8		485
P1	H	D06D2	1-03 *		K5-4		N 3-7/8		485
P1	H	E07L1	1-04 *		K4-2	SOURCE			485
P1	H		1				14-5/8		485
P2	H	B02V1	1-01 *		KE-5		N 3-7/8		486
P2	H	C06J2	1-02 *		K5-4		N 6-7/8		486
P2	H	E07R2	1-03 *	E07H1	K4-2	SOURCE	N 9-7/8		486
P2	H	E07E1	1-04 *	D08U1	K4-4		N 7-7/8		486
P2	H	D08U1	1-05 *		KT-9				486
P2	H		1				28-4/8		486
P3	H	C02C1	1-01 *		KE-5		N 3-5/8		487
P3	H	C06M2	1-02 *		K5-48		N 5-3/8		487
P3	H	E07F1	1-03 *		K4-25	SOURCE (K4-2)			487
P3	H		1				9-0/8		487
PAF6 GRANT 01	H	C07L1			K4-5	SOURCE		1-PIN RUN	488
PAF6 P END	H	A06P2	1-01 *		K5-6		N 8-1/8		489
PAF6 P END	H	C02U2	1-02 *		KE-5		N 3-7/8		489
PAF6 P END	H	D07R1	1-03 *		K4-2	SOURCE			489
PAF6 P END	H		1				12-0/8		489
PASTA (1)	H	A05V2	1-01 *		K3-9		N 10-3/8		490
PASTA (1)	H	E06P1	1-02 *		K5-2	SOURCE			490
PASTA (1)	H		1				10-3/8		490
PASTH	H	A05R1	1-01 *		K3-9		N 10-7/8		491
PASTH	H	E06K2	1-02 *		K5-2	SOURCE			491
PASTH	H		1				10-7/8		491
PASTC (0)	H	A05A1	1-01 *		K3-9		N 12-7/8		492
PASTC (0)	H	E06N1	1-02 *		K5-2	SOURCE			492
PASTC (0)	H		1				12-7/8		492
PRA06	H	A08P1	1-01 *		KT-4	SOURCE	N 9-7/8		493
PRA06	H	E08E2	1-02 *		KT-6		N 5-1/8		493
PRA06	H	E01P1	1-03 *		KM-2				493
PRA06	H		1				15-0/8		493
PRA07	H	A08P2	1-01 *	1	KT-4	SOURCE	N 10-5/8		494
PRA07	H	E08L2	1-02 *		KT-6		N 4-3/8		494
PRA07	H	E01K1	1-03 *		KM-2				494
PRA07	H		1				15-0/8		494

KT11A, N RUN NAME	AKAPD .V35(102)-1	03-JUN-77	27-Oct-77	16117	PAGE 44	RUN NUMBER						
A/P	PIN NAME	ORDEP PIN	BAY - ORDER	Q	DRAW	PV RG Y	X	Z	REMARKS	NC LENGTH	EXCEPTIONS	
										FLAG		
PRA08	H	A08N1	1-01 *	1		KT-4		1	SOURCE	N	10-1/8	495
PRA08	H	E08D2	1-02 *			KT-6		2		N	5-3/8	495
PRA08	H	E01S2	1-03 *			KM-2						495
PRA08	H		1								15-4/8	495
PRA09	H	A08M2	1-01 *	1		KT-4		1	SOURCE	N	9-3/8	496
PRA09	H	D08V2	1-02 *			KT-6		2		N	6-1/8	496
PRA09	H	E01P1	1-03 *			KM-2						496
PRA09	H		1								15-4/8	496
PRA10	H	B08R1	1-01 *			KT-4		1	SOURCE	N	12-5/8	497
PRA10	H	E01T1	1-02 *			KM-2						497
PRA10	H		1								12-5/8	497
PRA11	H	A08V2	1-01 *			KT-4		1	SOURCE	N	8-3/8	498
PRA11	H	D08V2	1-02 *			KT-6		2		N	5-1/8	498
PRA11	H	E01P1	1-03 *			KM-2						498
PRA11	H		1								13-4/8	498
PRA12	H	A08T2	1-01 *			KT-4		1	SOURCE	N	13-5/8	499
PRA12	H	E01J1	1-02 *			KM-2						499
PRA12	H		1								13-5/8	499
PRA13	H	A08U2	1-01 *			KT-4		1	SOURCE	N	12-7/8	500
PRA13	H	E01C1	1-02 *			KM-2						500
PRA13	H		1								12-7/8	500
PRA14	H	E08S1	1-01 *			KT-4		1	SOURCE	N	11-3/8	501
PRA14	H	E01T2	1-02 *			KM-2						501
PRA14	H		1								11-3/8	501
PRA15	H	C08A1	1-01 *			KT-4		1	SOURCE	N	9-7/8	502
PRA15	H	E01K2	1-02 *			KM-2						502
PRA15	H		1								9-7/8	502
PRA16	H	B08U2	1-01 *			KT-4		1	SOURCE	N	11-1/8	503
PRA16	H	E01M1	1-02 *			KM-2						503
PRA16	H		1								11-1/8	503
PRA17	H	B08S2	1-01 *			KT-4		1	SOURCE	N	12-1/8	504
PRA17	H	E01V1	1-02 *			KM-2						504
PRA17	H		1								12-1/8	504
PERF RELEASE	H	D07A1				K4-25			SOURCE (K4-5)		1-PIN RUN	505
PERF (M)	H	B07U1	1-01 *			K4-3		1	SOURCE	N	11-3/8	506
PERF (M)	H	E06V1	1-02 *			F5-5						506
PERF (M)	H		1								11-3/8	506
PRIV INSTR	I	E05N1	1-01 *			F3-6		1	SOURCE	N	4-7/8	507
PRIV INSTR	I	E08P1	1-02 *			KT-7						507
PRIV INSTR	I		1								4-7/8	507
PROD RELEASE	L	A07N2				K4-45			SOURCE (K4-5)		1-PIN RUN	508

KT11A, N RUN NAME	AKAPD .V35(102)-1	03-JUN-77	27-Oct-77	16117	PAGE 45	RUN NUMBER						
A/P	PIN NAME	ORDEP PIN	BAY - ORDER	Q	DRAW	PV RG Y	X	Z	REMARKS	NC LENGTH	EXCEPTIONS	
										FLAG		
PROD RESECON	H	A07S1				K4-6			SOURCE		1-PIN RUN	509
PS 00RS	H	A07E2	1-01 *			K4-6		1		N	9-1/8	510
PS 00RS	H	D06S2	1-02 *			K5-2		2		N	2	510
PS 00RS	H	E04D1	1-03 *			F1-7		1	SOURCE	N	2-7/8	510
PS 00RS	H	E08F2	1-04 *			KT-6		2	SOURCE	N	2-5/8	510
PS 00RS	H	E05V2	1-05 *			K3-7						510
PS 00RS	H		1								16-5/8	510
PS(C)	H	A05P2	1-01 *			F3-89		1		N	3-7/8	511
PS(C)	H	E04R1	1-02 *			K1-5		2		N	5-5/8	511
PS(C)	H	E06F1	1-03 *			K5-2		1	SOURCE	N	8-7/8	511
PS(C)	H	E01P2	1-04 *			KM-2						511
PS(C)	H		1								18-3/8	511
PS(C) (1)	H	A05D1	1-01 *			K3-8		1		N	14-3/8	512
PS(C) (1)	H	E06H1	1-02 *			K5-23		2	SOURCE (K5-2)	N	2-7/8	512
PS(C) (1)	H	E01T2	1-03 *			KM-2						512
PS(C) (1)	H		1								17-2/8	512
PS(C) (R) (RS)	H	B07E1	1-01 *			K4-6		1	SOURCE	N	8-5/8	513
PS(C) (R) (RS)	H	E06F1	1-02 *			K5-2						513
PS(C) (R) (RS)	H		1								8-5/8	513
PS(C) (P) (RS)	H	E07D1	1-01 *			K4-2		2	SOURCE	N	1	514
PS(C) (P) (RS)	H	E06D1	1-02 *			K5-2		1		N	2-2/8	514
PS(C) (P) (RS)	H	E08S2	1-03 *			KT-29						514
PS(C) (P) (RS)	H		1								3-2/8	514
PS(C) (1)	H	E05S2	1-01 *			K3-7		2		N	2-7/8	515
PS(C) (1)	H	E06J2	1-02 *			F5-2		1	SOURCE	N	3	515
PS(C) (1)	H	E01J2	1-03 *			KM-2						515
PS(C) (1)	H		1								5-7/8	515
PS(V) (1)	H	E06L1	1-01 *			K5-23		1	SOURCE (K5-2)	N	3-6/8	516
PS(V) (1)	H	E01P2	1-02 *			KM-2						516
PS(V) (1)	H		1								3-6/8	516
PS(2) (1)	H	E06M1	1-01 *			K5-23		1	SOURCE (K5-2)	N	3-7/8	517
PS(2) (1)	H	E01H1	1-02 *			KM-2						517
PS(2) (1)	H		1								3-7/8	517
PS05 (1)	H	B07E1	1-01 *			K4-6		1		N	7-5/8	518
PS05 (1)	H	E06F1	1-02 *			K5-2			SOURCE			518
PS05 (1)	H		1								7-5/8	518
PS06 (1)	H	C07K2	1-01 *			K4-6		1		N	8-1/8	519
PS06 (1)	H	E06R1	1-02 *			K5-2			SOURCE			519
PS06 (1)	H		1								8-1/8	519
PS07 (1)	H	B07R2	1-01 *			K4-6		1		N	8-5/8	520
PS07 (1)	H	E06P2	1-02 *			K5-2			SOURCE			520
PS07 (1)	H		1								8-5/8	520
PS12 (1)	H	C08D1				KT-2			SOURCE		1-PIN RUN	521

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

RD11A,N RUN NAME	A/P	PIN NAME	ORDER PIN	RAY - ORDER	Q	DRAW OPT	RV RG Y	X	Z	REMARKS
ROMA (1)	H	D08L1		1-01 *			KT-2		1	SOURCE
ROMA (1)	H	E01P2		1-02 *			KM-2			
ROMA (1)	H			1						
ROME (1)	H	D08M1		1-01 *			KT-2		1	SOURCE
ROME (1)	H	E01U2		1-02 *			KM-2			
ROME (1)	H			1						
ROMC (1)	H	D08P1		1-01 *			KT-2		1	SOURCE
ROMC (1)	H	E01D1		1-02 *			KM-2			
ROMC (1)	H			1						
RO40 (1)	H	D08S1		1-01 *			KT-2		1	SOURCE
RO4T (1)	H	E01M1		1-02 *			KM-2			
RO4D (1)	H			1						
RSVD INSTP	L	C06F1		1-01 *			K5-5		2	
RSVD INSTP	L	D02C1		1-02 *			KE-5		1	
RSVD INSTP	L	E05C1		1-03 *			K3-6			SOURCE
RSVD INSTP	L			1						
S HOOK	H	F08H2		1-01 *			KT-9		1	SOURCE
S HOOK	H	F04A1		1-02 *			K1-8			
S HOOK	H			1						
SALUM (1)	H	A05F2		1-01 *			K3-8		1	
SALUM (1)	H	C03U2		1-02 *			K2-6			SOURCE
SALUM (1)	H			1						
SALU1 (1)	H	A05F1		1-01 *			K3-8		1	
SALU1 (1)	H	C03T2		1-02 *			K2-6			SOURCE
SALU1 (1)	H			1						
SALU2 (1)	H	A05E1		1-01 *			K3-8		1	
SALU2 (1)	H	C03P2		1-02 *			K2-6			SOURCE
SALU2 (1)	H			1						
SALU3 (1)	H	A05D2		1-01 *			K3-8		1	
SALU3 (1)	H	C03N2		1-02 *			K2-6			SOURCE
SALU3 (1)	H			1						
SALUM (1)	H	A05M1		1-01 *			K3-8		1	
SALUM (1)	H	E03E1		1-02 *			K2-6			SOURCE
SALUM (1)	H			1						
SRAN (1)	H	A04J1		1-01 *			K1-2345		1	
SRAN (1)	H	C03J2		1-02 *			K2-5			SOURCE
SRAN (1)	H			1						
SRC0 (1)	H	D03D1		1-01 *			K2-6		1	SOURCE
SRC0 (1)	H	E06J1		1-02 *			K5-5			
SRC0 (1)	H			1						
SRC1 (1)	H	C03R2		1-01 *			K2-6		1	SOURCE
SRC1 (1)	H	F06R2		1-02 *			K5-5			
SRC1 (1)	H			1						

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NC LENGTH EXCEPTIONS
FLAG

RUN
NUMBER

RD11A,N RUN NAME	A/P	PIN NAME	ORDER PIN	RAY - ORDER	Q	DRAW OPT	RV RG Y	X	Z	REMARKS
SRC2 (1)	H	C03U1		1-01 *			K2-6		1	SOURCE
SRC2 (1)	H	C06F1		1-02 *			K5-5			
SRC2 (1)	H			1						
SRC3 (1)	H	C03S2		1-01 *			K2-6		1	SOURCE
SRC3 (1)	H	F06S2		1-02 *			K5-5			
SRC3 (1)	H			1						
SRC=10	L	F06U1		1-01 *	1		K5-5		1	
SRC=10	L	C06V1		1-02 *			KT-9			
SRC=10	L			1						
SRC=10	L	E06V1		1-01 *			K5-5		1	SOURCE
SRC=10	L	E06J1		1-02 *			KT-9			
SRC=10	L			1						
SRAN (1)	H	A04V1		1-01 *			K1-45		1	
SRAN (1)	H	C03M1		1-02 *			K2-5			SOURCE
SRAN (1)	H			1						
SRAN (1)	H	A04U1		1-01 *			K1-45		1	
SRAN (1)	H	C03N1		1-02 *			K2-5			SOURCE
SRAN (1)	H			1						
SRAN (1)	H	C03J1		1-01 *			K2-5		1	SOURCE
SRAN (1)	H	D04S1		1-02 *			K1-23			
SRAN (1)	H			1						
SRAN (1)	H	C03T1		1-01 *			K2-5		1	SOURCE
SRAN (1)	H	D04U2		1-02 *			K1-23			
SRAN (1)	H			1						
SRAN (1)	H	A04M1		1-01 *			K1-2345		1	
SRAN (1)	H	C03K2		1-02 *			K2-5			SOURCE
SRAN (1)	H			1						
SRAN (1)	H	A04V2		1-01 *			K1-2345		1	
SRAN (1)	H	C03T2		1-02 *			K2-5			SOURCE
SRAN (1)	H			1						
SELECT 0	H	E09F1		1-01 *			DD		1	
SELECT 0	H	E09S2		1-02 *			DD			SOURCE
SELECT 0	H			1						
SELECT 2	H	D09J1		1-01 *			DD		1	
SELECT 2	H	F09T2		1-02 *			DD			SOURCE
SELECT 2	H			1						
SELECT 4	H	D09F1		1-01 *			DD		1	
SELECT 4	H	E09P2		1-02 *			DD			SOURCE
SELECT 4	H			1						
SELECT 6	H	D09C1		1-01 *			DD		1	
SELECT 6	H	E09S1		1-02 *			DD			SOURCE
SELECT 6	H			1						

KD11A.N RUN NAME	A/P	WRAED J.V35(102)-1		03-JUN-77		DRAW	RV RG Y	X Z	REMARKS
		PIN NAME	ORDER PIN	BAY - ORDER	Q OPT				
STALL (0)	H	C06M1		1-01 *				2	SOURCE
STALL (0)	H	C07P2		1-02 *				1	
STALL (0)	H	D08F1		1-03 *					
STALL (2)	H			1					
START SW (0)	H	A06R1		1-01 *				1	SOURCE
START SW (0)	H	F07U1		1-02 *					
START SW (0)	H			1					
SWICH (1)	H	A06R2		1-01 *				1	SOURCE
SWICH (1)	H	F05J2		1-02 *					
SWICH (1)	H			1					
T14 (1)	H	D08A1							1-PIN RUN
T15 (1)	H	D08F1							1-PIN RUN
TDATA (0)	H	D07N2							1-PIN RUN
TRAC	L	B06M2		1-01 *				1	SOURCE
TRAC	L	F05S1		1-02 *					
TRAC	L			1					
TRAF	L	B06S1		1-01 *				1	SOURCE
TRAF	L	F05E1		1-02 *					
TRAF	L			1					
TRAF (1)	H	D06H1		1-01 *				1	SOURCE
TRAF (1)	H	F01D1		1-02 *					
TRAF (1)	H			1					
TRAFS DATA	L	B06N2		1-01 *				1	SOURCE
TRAFS DATA	L	D05H2		1-02 *					
TRAFS DATA	L			1					
TRUE RR	L	D05L1		1-01 *				1	SOURCE
TRUE RR	L	D06F1		1-02 *					
TRUE RR	L			1					
TSACK (0)	H	D07J1							1-PIN RUN
URF0 (1)	H	C03F2		1-01 *				2	SOURCE
URF0 (1)	H	C06N1		1-02 *				1	
URF0 (1)	H	F05S1	B07L1	1-03 *				2	
URF0 (1)	H	D07L1		1-04 *					
URF0 (1)	H			1					
URF1 (1)	H	C03P1		1-01 *				2	SOURCE
URF1 (1)	H	C06N2		1-02 *				1	
URF1 (1)	H	E05P1		1-03 *					
URF1 (1)	H			1					
URF2 (1)	H	C03R1		1-01 *				2	SOURCE
URF2 (1)	H	C06P2		1-02 *				1	
URF2 (1)	H	F05N1		1-03 *					
URF2 (1)	H			1					

N 1-3/8	606
N 3-3/8	606
	606
4-6/8	606
N 15-7/8	607
	607
15-7/8	607
N 13-3/8	608
	608
13-3/8	608

KD11A.N RUN NAME	A/P	WRAED J.V35(102)-1		03-JUN-77		DRAW	RV RG Y	X Z	REMARKS
		PIN NAME	ORDER PIN	BAY - ORDER	Q OPT				
URF3 (1)	H	E06P2		1-01 *				2	SOURCE
URF3 (1)	H	C03S1		1-02 *				1	
URF3 (1)	H	F05F2		1-03 *					
URF3 (1)	H			1					
URF4 (1)	H	B06P2		1-01 *				2	SOURCE
URF4 (1)	H	C03H2		1-02 *				1	
URF4 (1)	H	D05K1		1-03 *					
URF4 (1)	H			1					
UNF1	H	A01L2		1-01 *				1	SOURCE
UNF1	H	B02M2	E01F2	1-02 *				2	
UNF1	H	E01F2		1-03 *					
UNF1	H			1					
UPP MATCH	H	C04T2		1-01 *				1	SOURCE
UPP MATCH	H	F07A2		1-02 *					
UPP MATCH	H			1					
V DATA	L	B05H1		1-01 *				1	SOURCE
V DATA	L	E06U2		1-02 *					
V DATA	L			1					
WA11	L	B05F1		1-01 *				1	SOURCE
WA11	L	B06P1		1-02 *					
WA11	L			1					
WA11 (0)	H	C06P1		1-01 *				1	SOURCE
WA11 (0)	H	E05J1		1-02 *					
WA11 (0)	H			1					
WR F(07:00)	L	E07P2		1-01 *				1	SOURCE
WR F(07:00)	L	F04V1		1-02 *					
WR F(07:00)	L			1					
WR F(15:00)	L	B04A1		1-01 *				1	SOURCE
WR F(15:00)	L	E07K2		1-02 *					
WR F(15:00)	L			1					
WRH (1)	H	D03J2		1-01 *				1	SOURCE
WRH (1)	H	E07H2		1-02 *					
WRH (1)	H			1					
WRL (1)	H	D03H2		1-01 *				1	SOURCE
WRL (1)	H	E07E2		1-02 *					
WRL (1)	H			1					
ZR (1)	H	A01F1		1-01 *				1	SOURCE
ZR (1)	H	A02M1		1-02 *					
ZR (1)	H			1					
ZR+FPS(Z)	H	A01J1		1-01 *				1	SOURCE
ZR+FPS(Z)	H	B02K2		1-02 *					
ZR+FPS(Z)	H			1					


N 4-7/8	621
N 8-5/8	621
	621
13-4/8	621
N 2-6/8	622
N 4-1/8	622
	622
6-7/8	622
N 3-7/8	623
N 7-7/8	623
	623
11-6/8	623
N 9-5/8	624
	624
9-5/8	624
N 10-1/8	625
	625
10-1/8	625
N 1-7/8	626
	626
1-7/8	626
N 5-3/8	627
	627
5-3/8	627
N 6-3/8	628
	628
6-3/8	628
N 10-7/8	629
	629
10-7/8	629
N 3-7/8	630
	630
3-7/8	630
N 3-4/8	631
	631
3-4/8	631
N 1-3/8	632
	632
1-3/8	632
N 3-7/8	633
	633
3-7/8	633

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DRAWING NUMBER	INIT REL	AUTOMATIC WIRE TESTER (AWT) REVISION STATUS											
	H	J	K	L	M	N	P						
K-WL-KD11-A-WL	H	J	J	K	L	M	N						
D-AD-7010230-0-0		*	*	A	B	B	C						
C-CS-5410904-0-1	B	B	C	C	C	C	C						

REV P
NUMBER 7010230-0
SIZE CODE A WT

REVISIONS		CHANGE NO.	REV.
CHK	-	KD11A-00011	J
		ORIGINATED	
	-	5410904-1	K
		KD11A-00012	L
		KD11A-00013	M
		KD11A-00014	N
		KD11A-00015	P

DRN <i>E. R. K...</i>	DATE 8-29-74	 EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. <i>R. Gilbert</i>	DATE 8-29-74	
ENG. <i>J. E.</i>	DATE 9-5-74	
PROJ. ENG. <i>J. E.</i>	DATE 9-5-74	
PROD. <i>J. E.</i>	DATE 9-5-74	
FIRST USED ON KD11-A	TITLE KD11-A	
SCALE —	AWT REVISION STATUS	
SHEET 1 OF 1	SIZE CODE A WT	NUMBER 7010230-0
	DIST.	RFV. P

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

PARTS LIST

QUANTITY / VARIATION

MADE BY <i>J J O'Dougherty</i>	CHECKED <i>J J O'Dougherty</i>	SECTION
DATE <i>9/26/72</i>	DATE <i>9/27/72</i>	
ENG <i>J J O'Dougherty</i>	PROD <i>J J O'Dougherty</i>	ISSUED SECT.
DATE <i>9/27/72</i>	DATE <i>9-27-72</i>	

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
1	D-CS-M7237-Ø-1	STACK LIMIT REGISTER
2	D-MU-KD11-A-MU	MODULE UTILIZATION

KJ11-A	QUANTITY / VARIATION											
1												
REF												

TITLE STACK LIMIT REGISTER (PL)	ASSY NO. <i>XXXX</i>	SIZE A	CODE PL	NUMBER KJ11-A-Ø	REV.	ECO NO.
	SHEET 1 OF 1	DIST. <input type="checkbox"/>				

PARTS REFERENCE

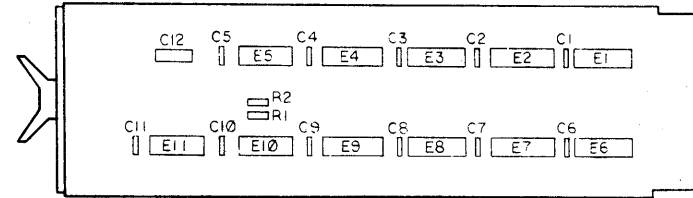
ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	E1 E6	DEC 5384	IC 1910394	2
2	E2 E7	DEC 74175	IC 1910651	2
3	E3 E8	DEC 8381	IC 1909705	2
4	E4 E9	DEC 7485	IC 1910224	2
5	E5 E10	DEC 74H00	IC 1909056	1
6	E6 E11	DEC 74H20	IC 1905635	1
7	E7 E12	DEC 7429	IC 1910155	1
8	C1 THRU C11	.01 MFD 100V 20% CAP	1001610	11
9	C12	6.8 MFD 35V 20% CAP	1000967	1
10	R1 R2	1K 1/4W 5% RES	1300365	2
REF		STACK LIMIT REGISTER	A-PL-M7237-0-0	

NOTES:

- PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE PROCESSOR. MODULE REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE FIRST LETTER, AND CONVERTING THE FIRST LETTER ACCORDING TO THE PIN NOMENCLATURE CHART AT RIGHT.
- ALL SIGNALS THAT HAVE MODULE PINS ARE SO NOTED; MULTIPLE NOTATIONS OF THE SAME SIGNALS WITHIN A MODULE HAVE THE PIN NOTED ON EACH. AN INPUT SIGNAL IS NOTED ONLY ONCE PER SHEET UNLESS SEPERATE PINS ARE USED; MULTIPLE INPUTS ARE CONNECTED. MODULE OUTPUT SIGNALS ARE BROUGHT TO THE EXTREME RIGHT OF EACH SHEET
- KJ11 SIGNAL SOURCE NOTATION (K1-2, FOR EXAMPLE) IDENTIFIES THE SIGNAL SOURCE FROM THE PROCESSOR. FIRST NUMBER AFTER THE K INDICATES THE MODULE PRINT SET, WHILE THE SECOND INDICATES THE SHEET WITHIN THE SET. SIGNALS WITH A "BUS" PREFIX REPRESENT A "WIRED OR" SITUATION, AND MULTIPLE SOURCES FOR THESE SIGNALS CAN EXIST.
- UNLESS OTHERWISE SPECIFIED: RESISTANCE IS IN OHMS
- DETAILS ON COMPONENTS ARE NOTED IN THE PARTS REFERENCE, PLACEMENT IS NOTED IN THE COMPONENT PLACEMENT DIAGRAM. CAPACITORS WITHOUT NOTED VALUES ARE .01 MFD.
- GND AND +5V ARE USUALLY PIN 7 AND PIN 14, RESPECTIVELY. EXCEPTIONS ARE:

IC TYPE	GND	+5V
DEC 5384	PIN 1	PIN 8
DEC 74175	PIN 8	PIN 16

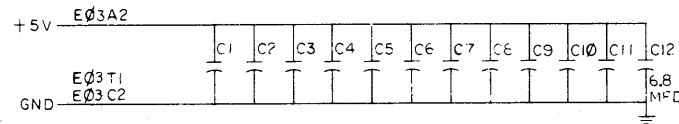
COMPONENT PLACEMENT



PIN NOMENCLATURE

MODULE PROCESSOR

A E03

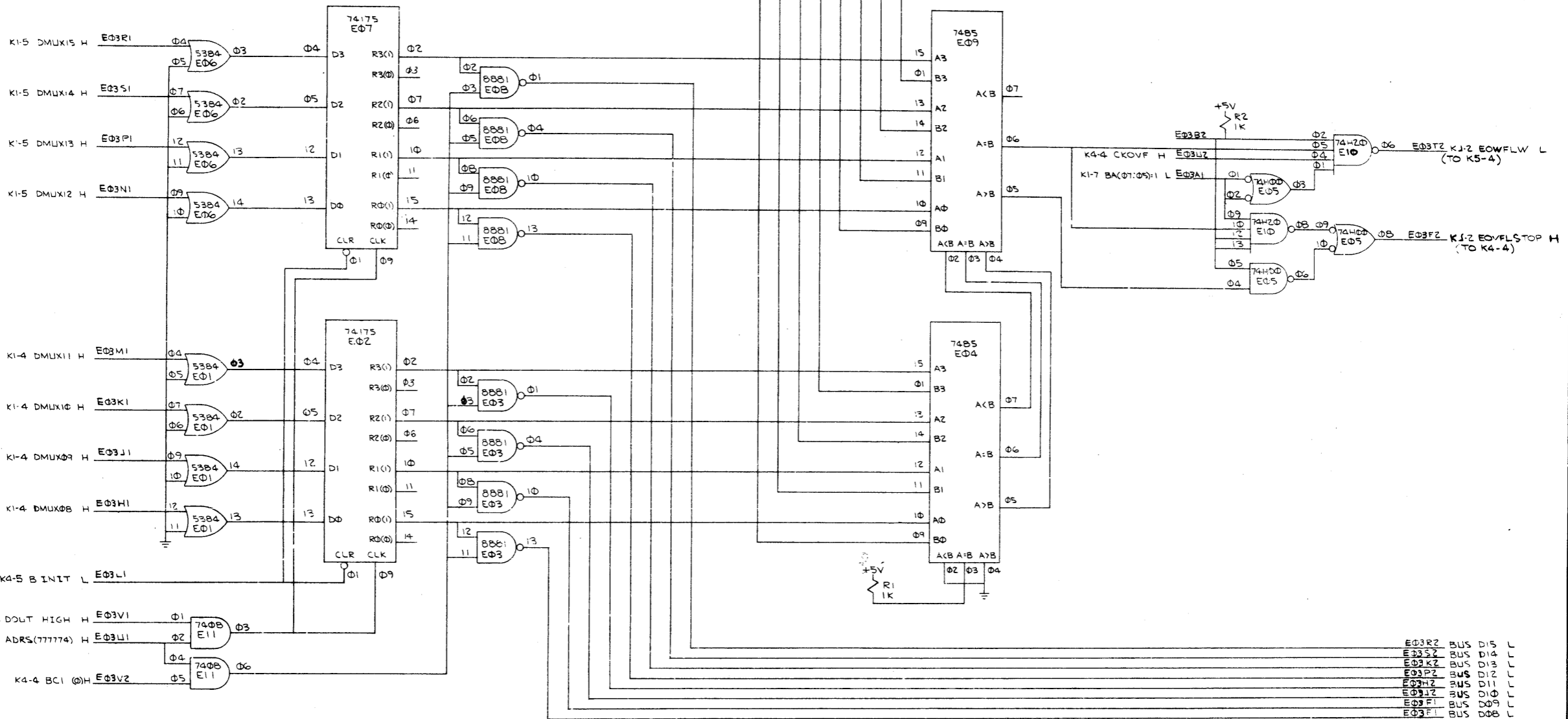


REV	CHG	NO
B		17237-0001
A		9-15-74

FIRST USED ON OPTION / MODEL PDP 11/35	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN W. MAJOR	DATE 9/22/71	PARTS LIST digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
TOLERANCES DECIMALS FRACTIONS ANGLES = .005 ± 1/64 ± 0°30'	CHKD J. Rogers	DATE 3/1/72	TITLE STACK LIMIT REGISTER	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	ENG J. Rogers	DATE 5-23-72	MATERIAL ++	
MATERIAL ++	PROD J. Rogers	DATE 5/23/72	NEXT HIGHER ASSY A-ML-KJ11-A	
FINISH -/-	SCALE ++	SHEET 1 OF 2	NUMBER DICS M7237-0-1	
			REV B	

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- K1-6 BA15 (1)H E03E2
- K1-6 BA14 (1)H E03L2
- K1-6 BA13 (1)H E03M2
- K1-6 BA12 (1)H E03N2
- K1-6 BA11 (1)H E03D2
- K1-6 BA10 (1)H E03B1
- K1-6 BA09 (1)H E03C1
- K1-6 BA08 (1)H E03D1



- E03R2 BUS D15 L
- E03S2 BUS D14 L
- E03K2 BUS D13 L
- E03P2 BUS D12 L
- E03H2 BUS D11 L
- E03I2 BUS D10 L
- E03F1 BUS D09 L
- E03F1 BUS D08 L

REV	CHANGE NO	CHK

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 11/35				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN W. MAJOR	DATE 7-22-71	 digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	ANGLES	DATE 3-7-72		
XXX - 006 XX - 02 X - 1	±0° 30'	DATE 8-23-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROBING DATE 5-22-73	DATE 5-22-73		
MATERIAL	NEXT HIGHER ASSY.	TITLE STACK LIMIT REGISTER M7237 KJ-2		
FINISH	A-ML-KJ11-A			
SCALE	SHEET 2 OF 2			
		SIZE CODE	NUMBER	REV
		D CS	M7237-0-1	B
		DIST		

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

SOFTWARE LIST

LEGEND

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

QUANTITY/VARIATION

MADE BY *J. F. Dougherty* CHECKED *J. F. Dougherty* SECTION
 DATE *9/26/72* DATE *9/27/72*
 ENG *J. F. Dougherty* PROD *J. F. Dougherty* ISSUED SECT.
 DATE *9/27/72* DATE *7-28-72*

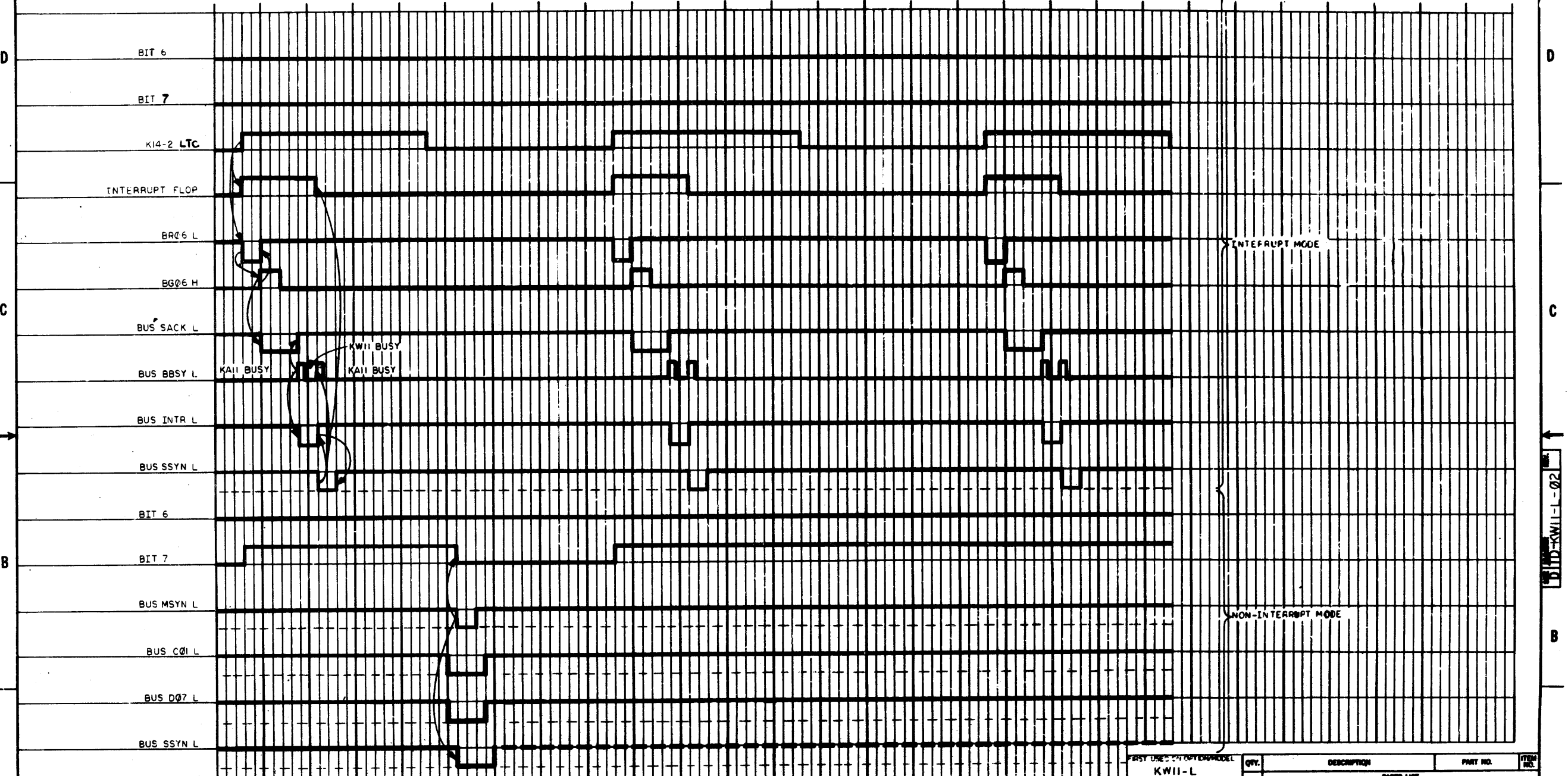
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY/VARIATION							KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE
			KJ11-A												
1	MAINDEC-11-DCKBF-A-D	STACK LIMIT TEST	1												
2	MAINDEC-11-DCKBF-A-PB	STACK LIMIT TEST	1												

TITLE STACK LIMIT REGISTER	ASSY. NO. <i>44</i>	SIZE CODE A SL	NUMBER KJ11-A-SL	REV.	ECCO NO.
	SHEET 1 OF 1	DIST.			

CUSTOMER PRINT SET										CUSTOMER PRINT SET										
KW11-L																				
DEPT SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.	DEPT SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.	DEPT SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
X		D-ID-KW11-L-02	*	1	TIMING DIAGRAM, KW11-L															
X		D-BS-KW11-L-01	A	2	LINE FREQUENCY INTERNAL CLOCK															
X		A-SP-KW11-L-03	*	3	TEST PROCEDURE															
X		D-CS-M787-0-1	#	2	LINE CLOCK															
X		A-PL-KW11-L-0	*	1	LINE FREQUENCY CLOCK															
X		A SL KW11 L 28	*	1	SOFTWARE LIST															

TITLE	SHEET 2 OF 2	SIZE	CODE	NUMBER	REV
LINE FREQUENCY CLOCK (KW11-L)		B	DD	KW11-L-0	*

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REV.	
CHG	
NO.	
DATE	

PART USED IN THIS MODEL KWII-L		QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES GENERAL FINISHES MATERIAL FINISH		<i>Handwritten</i>	<i>Handwritten</i>	<i>Handwritten</i>	<i>Handwritten</i>
EQUIPMENT CORPORATION MAYFIELD, MASSACHUSETTS		PARTS LIST			
TITLE TIMING DIAGRAM (KWII-L)		DATE <i>Handwritten</i>			
DRAWN <i>Handwritten</i>		CHECKED <i>Handwritten</i>			
SCALE SHEET 1 OF 1		D TD KWII-L-02			

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PARTS REFERENCE

ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	R1 R3	300 1/4 W 5% CC	1300300	2
2	R2 R6 - R11	1K 1/4 W 5% CC	1300385	7
3	R4 R5	100 1/4 W 5% CC	1301322	2
4	R12	2.2K 1/4 W 5% CC	1305177	1
5	C1 - C15 C18 C19	01 MFD 100V 20% DISC	1001810	17
6	C16 C17	500 MFD 100V 5% D.M.	1000025	2
7	Q1 Q2	TRANSISTOR DEC 3000 B.S.	1003100	2
8	E1 E5 E9 E10 E19	I.C. DEC 380	1006485	5
9	E2	I.C. DEC 7430	1005578	1
10	E3	I.C. DEC 8815	1008713	1
11	E4	I.C. DEC 7400	1005575	1
12	E6 E7 E13	I.C. DEC 7474	1005647	3
13	E11	I.C. DEC 7404	1008888	1
14	F12 F14 F15	I.C. DEC 8881	1008705	3

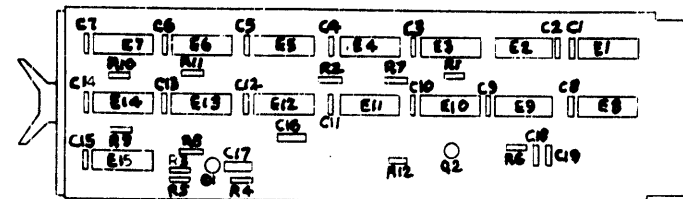
NOTES

- PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE K111 PROCESSOR. MODULE REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE FIRST LETTER, AND CONVERTING THE FIRST LETTER ACCORDING TO THE PIN NOMENCLATURE CHART AT RIGHT.
- ALL SIGNALS THAT HAVE MODULE PINS ARE SO NOTED. MULTIPLE NOTATIONS OF THE SAME SIGNALS WITHIN A MODULE HAVE THE PIN NOTED ON EACH. AN INPUT SIGNAL IS NOTED ONLY ONCE PER SHEET UNLESS SEPARATE PINS ARE USED. MULTIPLE INPUTS ARE CONNECTED. MODULE OUTPUT SIGNALS ARE BROUGHT TO THE EXTREME RIGHT OF EACH SHEET.
- PROCESSOR SIGNAL SOURCE NOTATION (K10-2, FOR EXAMPLE) IDENTIFIES THE SIGNAL SOURCE (POINT AND MODULE). THE FIRST NUMBER AFTER THE K INDICATES THE MODULE PPINT SET WHILE THE SECOND INDICATES THE SHEET WITHIN THE SET. IF ON A PPINT, THE FIRST NUMBER OF THE K PREFIXES COINCIDE FOR A SIGNAL NAME AND THE PPINT (SEE TITLE BLOCK). THE SIGNAL IS GENERATED ON THE MODULE. A DIFFERENCE IN THE FIRST NUMBER OF THE K PREFIXES INDICATES A SIGNAL GENERATED OFF THE MODULE. SIGNALS WITH A "BUS" PREFIX REPRESENT A "WIRED OR" SITUATIONS AND MULTIPLE SOURCES FOR THE SIGNAL CAN EXIST.
- DETAILS ON COMPONENTS ARE NOTED IN THE PARTS REFERENCE. PLACEMENT IS NOTED IN THE COMPONENT PLACEMENT DIAGRAM.
- GND AND +5V ARE USUALLY PIN 7 AND PIN 14, RESPECTIVELY. EXCEPTIONS ARE:

IC TYPE	GND	+5V
DEC 7401	PIN 10	PIN 4
DEC 7402	PIN 11	PIN 4
DEC 8251	PIN 8	PIN 16
DEC 8271	PIN 8	PIN 16
DEC 380	PIN 1	PIN 8
DEC 384	PIN 1	PIN 8

- UNLESS OTHERWISE NOTED - RESISTANCE IS IN OHMS; CAPACITANCE IS IN MICRO MICRO FARADS. CAPACITORS WITHOUT ANY NOTED VALUES ARE 01MFD.

COMPONENT PLACEMENT



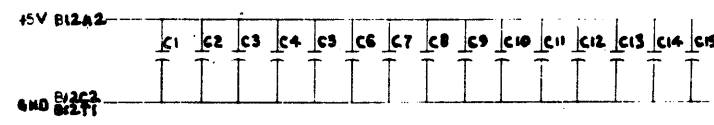
PIN NOMENCLATURE

MODULE PROCESSOR

A B

INSTALLATION PROCEDURE

- REMOVE JUMPER FROM B12V2 TO B12A2.
- INSTALL M18T LINE FREQUENCY CLOCK MODULE IN K111 SLOT #12.
- RUN MAINDEC DEC-11-02DA LINE FREQUENCY CLOCK TEST.



REV	CHANGE NO.	DATE
A	1	11/17/70

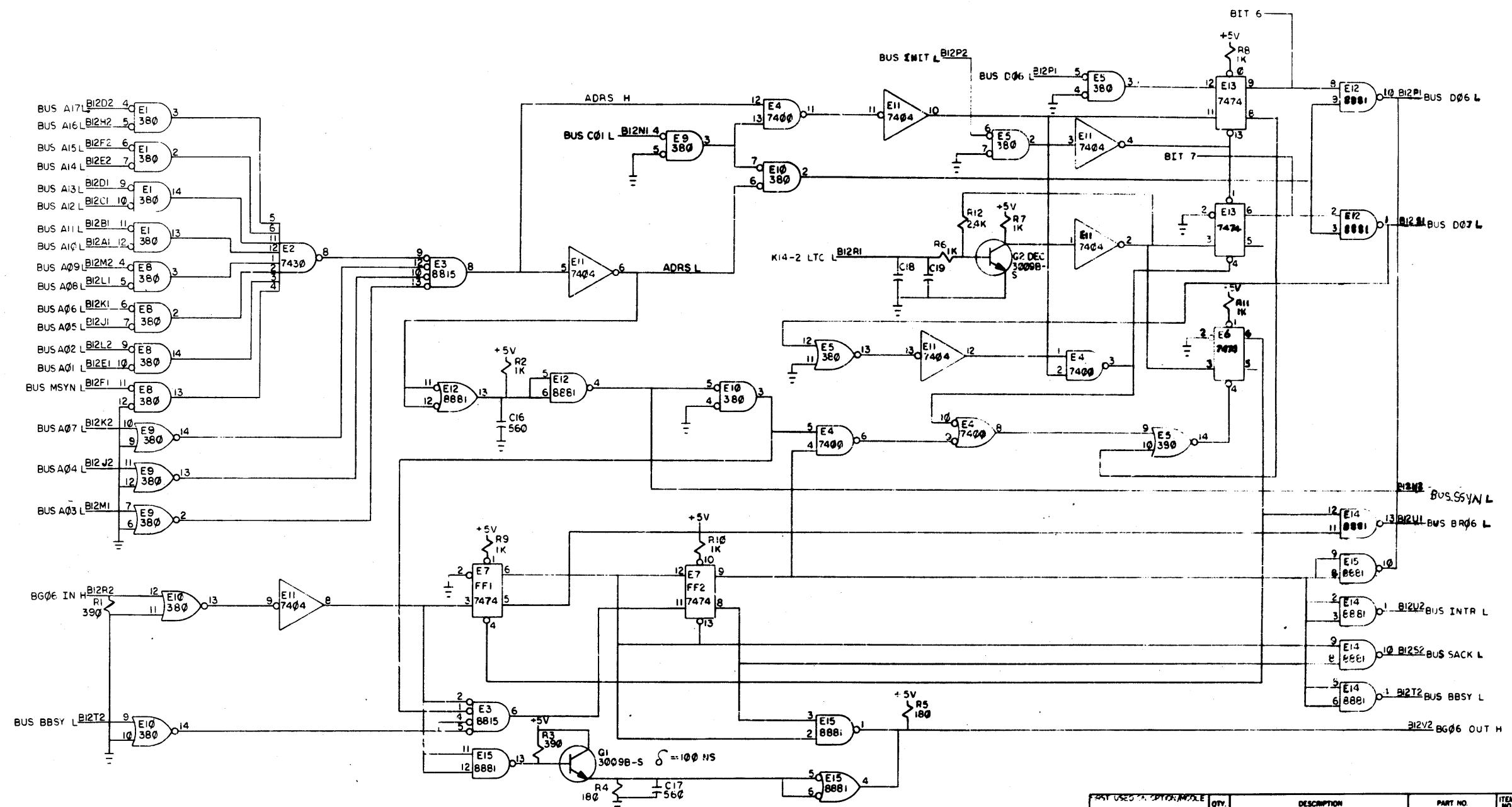
FIRST USED ON OPTION/ MODEL
K111-L

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
± .005 ± .002 ± .001 ± .002
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN. <i>J. Landon</i> DATE <i>11/17/70</i>		 DIGITAL EQUIPMENT CORPORATION MATTAPOISETT, MASSACHUSETTS	
CHK'D. <i>J. P. Ross</i> DATE <i>11/17/70</i>			
DATE <i>11/17/70</i>		TITLE LINE FREQUENCY INTERVAL CLOCK	
PROJ. ENL. <i>J. P. Ross</i> DATE <i>11/17/70</i>		SCALE A-M-L-K111-L	
NEXT HIGHER ASST <i>Eric D. Nelson</i> DATE <i>11/17/70</i>		SHEET CODE D1BSK111-L-01	
SHEET 1 OF 2		REV. A	

SHEET NUMBER
 D1BSK111-L-01

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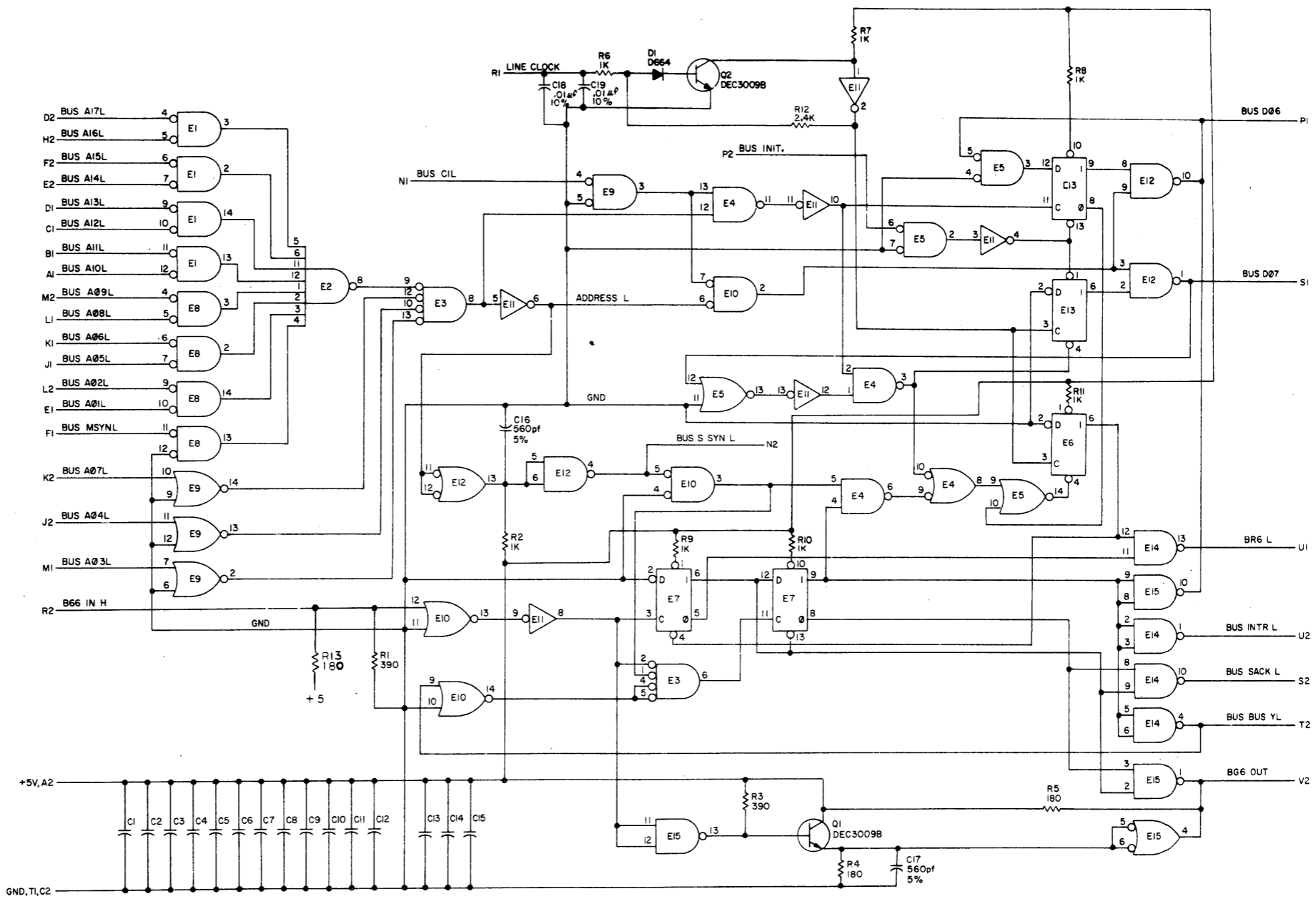
D
C
B
A

D
C
B
A

REV	
CHANGE NO.	
CHK	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ± .010 ± .005 ± .075 FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL FINISH			
DATE: 4/2/70 DATE: 7/2/70 DATE: 7/2/70 DATE: 7/2/70 DATE: 7/2/70		EQUIPMENT CORPORATION MATHEWASH MASSACHUSETTS TITLE LINE FREQUENCY INTERVAL CLOCK	
SERIAL CODE A-ML-KW11-L		NUMBER DBSKW11-L-01	
SCALE SHEET 2 OF 2		REV. A	

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1970 BY DIGITAL EQUIPMENT CORPORATION.



UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01uF, 100V, 20%
DEC640 = E1, E5, E8, E10, E9
DEC7430 = E2
DEC8815 = E3
DEC7400 = E4
DEC7404 = E11
DEC8881 = E15, E12, E14
DEC7474 = E6, E7, E13

PIN 1 = GND ON E1, E8, E9, E10, E5
PIN 8 = +5V
PIN 7 = GND ON E2, E3, E4, E11, E12, E14, E13, E7, E15, E6
PIN 14 = +5V

NOTES
1 DEC 8640 REPLACES THE OBSOLETE DEC 380

CARLSON K. POON 1/15/70		DATE: 1-2-70 BY: BUTLER	TRANSISTOR & DIODE CONVERSION CHART DEC: 2N3009 EIA: 2N3009B DEC: 2N3009 EIA: 2N3009	TITLE: LINE TIME CLOCK INTERRUPT M787 PART: D CODE: CS NUMBER: M787-0-1 REV: E
-------------------------------	--	----------------------------	--	--

REV: 1
NUMBER: M787-0-1
DATE CODE: CS

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY M. Buczynski
 DATE 6-15-72
 ENG M. Buczynski
 DATE 6-15-72

CHECKED *[Signature]*
 DATE 7/20/72
 PROD *[Signature]*
 DATE 6/15/72

SECTION
 ISSUED SECT.

QUANTITY / VARIATION

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
1	M787	LINE TIME CLOCK INTERRUPT

KW11-L													
	X												

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
LINE FREQUENCY CLOCK (KW11-L)		A	PL	KW11-L-0	*	
SHEET 1 OF 1		DIST.				

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

SOFTWARE LIST

LEGEND

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

QUANTITY / VARIATION

MADE BY M. Buczynski
 DATE 6-15-72
 CHECKED *[Signature]*
 DATE *7/23/72*

SECTION
 ISSUED SECT.

ENG M. Buczynski
 DATE 6-15-72
 PROD *[Signature]*
 DATE *6/15/72*

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
1	MAINDEC 11-DZDA-PB	LINE FREQUENCY CLOCK TEST
2	MAINDEC 11-D2DA-D	LINE FREQUENCY CLOCK TEST

QUANTITY / VARIATION										KIT CHECK	BY DATE		INSTALLATION CHECK	BY DATE	
1															
1															

TITLE
 LINE FREQUENCY CLOCK (KW11-L)

ASSY. NO.
 SHEET 1 OF 1

SIZE CODE
 A SL
 DIST.

NUMBER
 KW11-L-28

REV. ECO NO
 *

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W130 PARTS REFERENCE

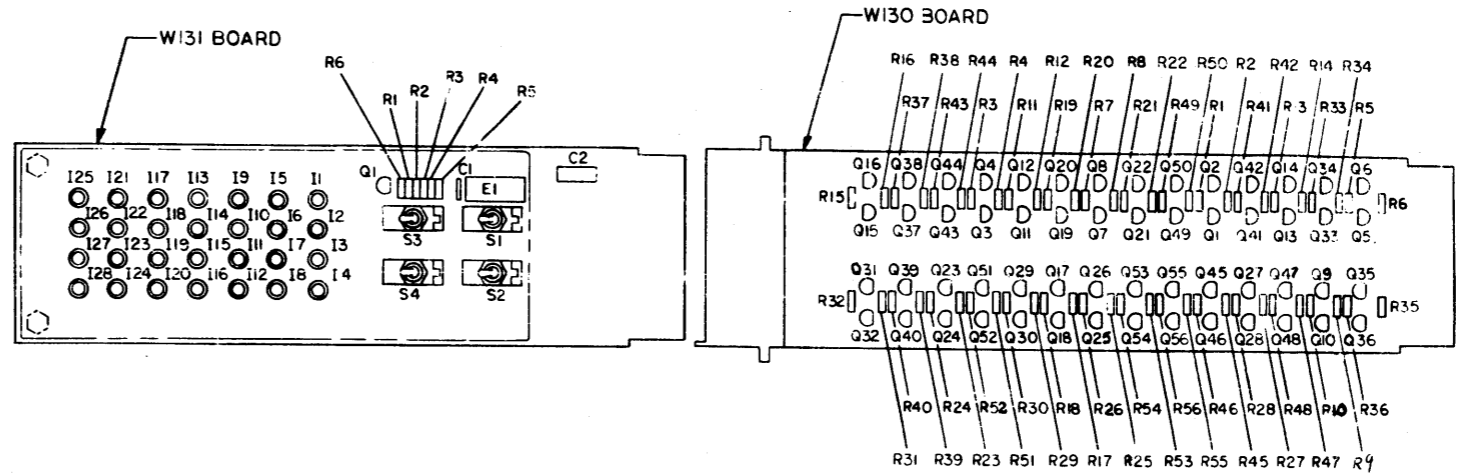
ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	R1, R3, R5, R7, R9, R11, R13, R15, R17, R19, R21, R23, R25, R27, R29, R31, R33, R35, R37, R39, R41, R43, R45, R47, R49, R51, R53, R55	15K, 1/4W, 5% RES.	1300496	28
2	R2, R4, R6, R8, R10, R12, R14, R16, R18, R20, R22, R24, R26, R28, R30, R32, R34, R36, R38, R40, R42, R44, R46, R48, R50, R52, R54, R56	470, 1/4W, 5% RES.	1300316	28
3	Q1-Q56	DEC 3009B TRANSISTOR	1503100	56
4	PI	H607 BLOCK CONNECTOR	1209123	1

W131 PARTS REFERENCE

ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	E1	DEC 7400N IC	1905575	1
2	C1	.01 MFD, 100V, 20% DC CAP.	1001610	1
3	C2	6.8 MFD, 35V, 20% ST. CAP.	1000067	1
4	R1, R2, R3, R4, R5	3K, 1/4W, 5% RES.	1300432	5
5	R6	330, 1/4W, 5% RES.	1300295	1
6	Q1	DEC 3009B TRANSISTOR	1503100	1
7	I1-I28	LAMP, HUDSON, BLUE *2309G	1209219	28
8	S1-S4	SWITCH, TOGGLE, SPST, 6AT-12	1201163	4

- NOTES:
- THE KM11 IS A TWO MODULE (W130, W131) OPTION TO THE KM11 TO AID MAINTENANCE. THIS PREWIRED OPTION IS INSTALLED BY INSERTING THE W130 MODULE INTO LOCATION B02 AND INSERTING THE W131 MODULE INTO THE W130. NOTE THAT THE SWITCHES AND LIGHTS FACE TOWARD AND EXTEND BELOW THE CONSOLE. THE BOTTOM COVER MUST BE REMOVED WITH THE CHASSIS EXTERNAL TO THE CABINET.
 - LABELS FOR THE INTERNAL MACHINE STATES LAMPS ARE NOTED ON THE W131 ETCH BOARD. SWITCHES PROVIDE A MANUAL CLOCK AND BUS RESPONSE AND ARE ACTIVE WHEN THE TOGGLE IS TOWARD THE NAME. NORMAL MACHINE OPERATION REQUIRES THAT ALL SWITCHES BE IN THE OFF POSITION.
 - "M CLK ENABLE" AND "M CLK" PROVIDE A MANUAL CLOCK FOR THE KM11. "M CLK ENABLE" IS ACTIVATED WHILE THE PROCESSOR IS HALTED. EACH TOGGLE OF "M CLK" THEN STEPS THE PROCESSOR THROUGH THE SMALLEST PROCESSOR CLOCK INTERVALS, THE R/W STATES, THE NEXT HIGHEST CLOCK INTERVAL (S CLK) IS PROVIDED BY FOUR TOGGLES (2 COMPLETE SWITCH CYCLES) AND INDICATED BY THE R/W2 LAMP. R/W2 IS THE LAST (OR REST) R/W STATE IN A "S CLK" INTERVAL. NORMAL OPERATION IS RESUMED WHEN "M CLK" AND THEN "M CLK ENABLE" ARE RETURNED TO OFF.
 - "NO TIME OUT" AND "SSYN" PROVIDE A MANUAL BUS RESPONSE TO THE PROCESSOR. IT IS USED WHEN OTHER DEVICES ARE NOT AVAILABLE. "NO TIME OUT" IS ACTIVATED, WHILE THE PROCESSOR IS HALTED, TO ELIMINATE AN ERROR TRAP ON MANUAL "SSYN". AT THE APPROPRIATE TIMES IN A BUS TRANSFER "SSYN" IS ACTIVATED AND DEACTIVATED.

COMPONENT PLACEMENT



PIN NOMENCLATURE

MODULE PROCESSOR

A B

REV	CHANGE NO.

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
FIRST USED ON OPTION / MODEL PDPII		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMAL FRACTIONS ANGLES ± .005 ± .1/64 ± .030 FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	
MATERIAL + + +		NEXT HIGHER ASSY A-ML-KM11-Ø	
FINISH + + +		SCALE 1/1	
DRN: [Signature]		DATE: 11/22/70	
ENG: [Signature]		DATE: 5/17/70	
PRO. ENG: [Signature]		DATE: 5/17/70	
MATERIAL: [Signature]		DATE: 5/23/70	
digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		TITLE MAINTENANCE BOARD (182) KM-1	
SIZE CODE DBS KM11-Ø-MB		NUMBER REV.	
SHEET 1 OF 3		DST.	

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D

C

B

A

D

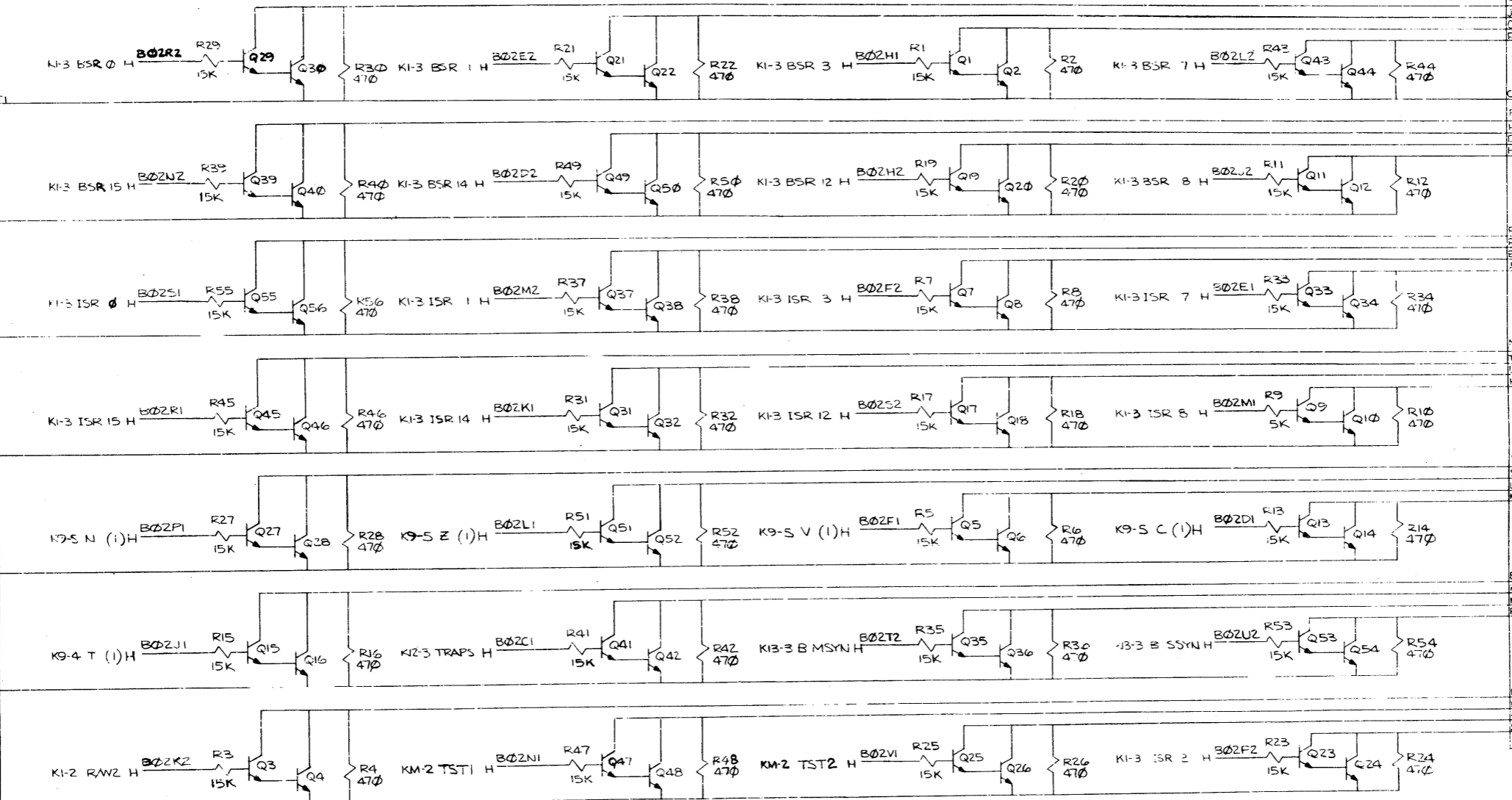
C

B

A

CONNECTOR AT REAR OF MODULE TO EXTEND MAINTENANCE BOARD 2, W131 (KM-3).

+5V	B02A2	A2	+5V
+8V	B02B1	B1	+8V
KM-3 M CLK ENABLE L		V2	B02V2 KM-2 M CLK ENABLE L
KM-3 M CLK L		V1	B02U1 KM-2 M CLK L
KM-2 TIME OUT (1) H	B02B2	R2	B02A1 KM-2 TIME OUT (1) H
BUS SSYN L		A1	B02A1 BUS SSYN L

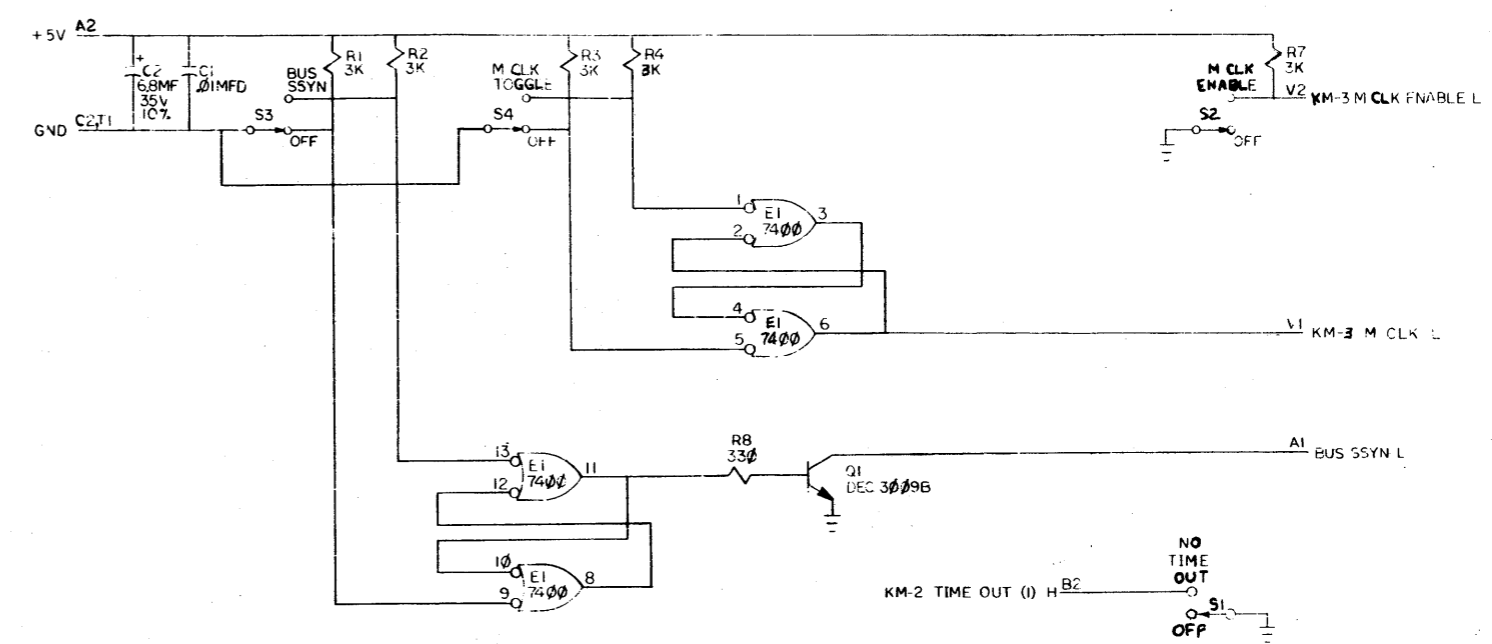
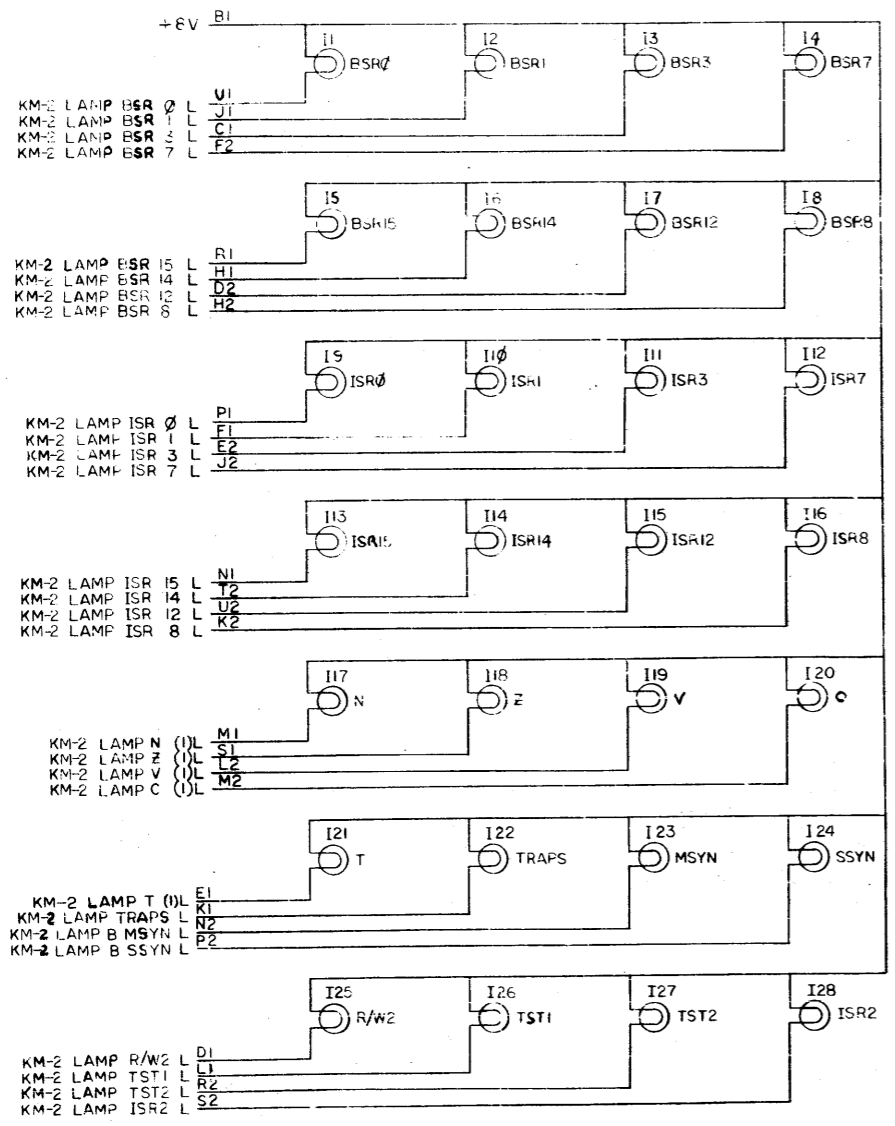


KM-2 LAMP BSR 0 L
KM-2 LAMP BSR 1 L
KM-2 LAMP BSR 3 L
KM-2 LAMP BSR 7 L
GND
KM-2 LAMP ESR 15 L
KM-2 LAMP ESR 14 L
KM-2 LAMP ESR 12 L
KM-2 LAMP ESR 8 L
KM-2 LAMP ISR 0 L
KM-2 LAMP ISR 1 L
KM-2 LAMP ISR 3 L
KM-2 LAMP ISR 7 L
KM-2 LAMP ISR 13 L
KM-2 LAMP ISR 14 L
KM-2 LAMP ISR 12 L
KM-2 LAMP ISR 8 L
KM-2 LAMP N (1) L
KM-2 LAMP Z (1) L
KM-2 LAMP V (1) L
KM-2 LAMP C (1) L
KM-2 LAMP T (1) L
KM-2 LAMP TRAPS L
KM-2 LAMP B MSYN L
KM-2 LAMP B SSYN L
KM-2 LAMP R/WZ L
KM-2 LAMP TST1 L
KM-2 LAMP TST2 L
KM-2 LAMP TST 2 L

REV	
CHANGE NO	
CHK	

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
PDP11				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	digital CORPORATION	
UNLESS OTHERWISE SPECIFIED	ENG	DATE	TITLE	
UNLESS OTHERWISE SPECIFIED	PROJ. ENG	DATE	MAINTENANCE BOARD (1)	
UNLESS OTHERWISE SPECIFIED	PRD	DATE	W130 KM-2	
MATERIAL	NEXT HIGHER ASSY			
FINISH	SCALE NONE			
	SHEET	OF	DIST	
	2	3		

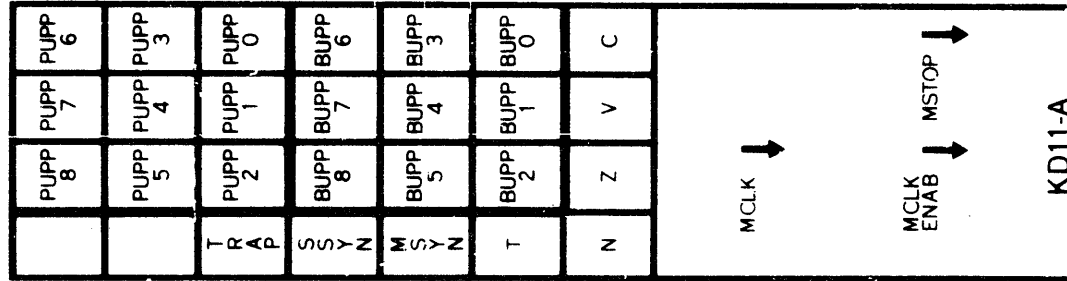
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REV	CHANGE NO	REVISIONS

FIRST USED ON OPTION/MODEL PDP-11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED				
DRN	DATE	PARTS LIST		
CHKD	DATE	digital CORPORATION		
ENG	DATE	TITLE		
PROJ ENG	DATE	MAINTENANCE BOARD(2)		
DATE	DATE	W131 KM-3		
MATERIAL	NEXT HIGHER ASSEMBLY	SIZE CODE	NUMBER	REV
FINISH	SCALE NONE	DBS KM11-0-MB		
SHEET 3 OF 3		DIST.		

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FIRST USED ON OPT / MOD
KD11A

REVISIONS	REV.	
	CHANGE NO.	
CHK		

SPEC # 9200100-94 (BLACK)

DRN <i>D. Mattson</i>	DATE 6-9-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
CHK'D. <i>BW</i>	DATE 7/7/72	
ENG <i>E. Frigo</i>	DATE 7/7/72	TITLE
PROLENG <i>A. Chouhnan</i>	DATE 7-7-72	MAINT MODULE OVERLAY (KD11-A)
PROD <i>A. Stinger</i>	DATE 7/31/72	
NEXT HIGHER ASSY		
C.MD.5509081-0-0		SIZE CODE NUMBER REV.
SCALE		ASS 5509081-0-12
SHEET OF		DIST.

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KE11-E.F				KT11-D			
EXP OVFL	MSR 01	EPS (N)	ROM D	EXP UNFL	MSR 00	EPS (Z)	ROM C
ECN 00	DRO9	EPS (V)	PBA 07	B 15	DRO0	EPS (C)	ROM B
PBA 08	PBA 11	PBA 10	PBA 06	PBA 12	PBA 09	PBA 15	PBA 17
PBA 14	PBA 13	PBA 16					PBA 16


KT11-D
KE11-E.F

First used on opt/mod
KT11-D
KE11-E.F

REVISIONS	REV.	
	CHANGE NO.	
CHK		

SPEC #

9200101-94 (BLACK)

DRN. <i>J. Daniels</i>	DATE 7-12-72	 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. <i>BN</i>	DATE 7-12-72	
ENG. <i>F. Blough</i>	DATE 7/25/72	
PROJ. ENG. <i>R. Stanger</i>	DATE 7/25/72	
PROD. ENG. <i>R. Stanger</i>	DATE 7/31/72	
NEXT HIGHER ASSY:		TITLE
C-MD-5509081-0-0		Maint. module OVERLAY (KT11-D KE11-E.F)
SCALE	SIZE CODE ASS	NUMBER 5509081-0-13
SHEET	OF	REV.
	DIST. G	

