

PARTS REFERENCE

ITEM	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59	DEC 7400N	IC 1905575	14
2	E2, E12, E24, E25, E52, E54	DEC 7410N	IC 1905576	6
3	E3, E30, E37, E40, E42, E47, E49, E50	DEC 7450N	IC 1905580	8
4	E4, E6, E21, E61	DEC 8815A	IC 1905713	4
5	E5, E13, E17, E32, E33, E45, E53, E56	DEC 7402N	IC 1905004	8
6	E7, E23, E26, E57	DEC 7440N	IC 1905579	4
7	E9	DEC 7453N	IC 1905582	1
8	E11	DEC 7420N	IC 1905577	1
9	E14, E15, E38, E41, E43, E46, E48, E51	DEC 7460N	IC 1905581	8
10	E19	DEC 7453N	IC 1905062	1
11	E20	DEC 74H00N	IC 1905056	1
12	E28, E29	DEC 7474N	IC 1905547	2
13	E31	DEC 7401N	IC 1905590	1
14	E35	DEC 74H30N	IC 1905059	1
15	E60	DEC 74H40N	IC 1905586	1
16	C1-C54	.01 MFD 100V 20%	CAP 1001610	54
17	C55-C58	6.8 MFD 35V 20%	CAP 1000067	4
18	C59	270 MMF 100V 5%	CAP 1000022	1
19	C60, C61, C62	330 MMF 100V 5%	CAP 1000023	3
20	R1	1000 OHMS 1/4W 5%	RES 1300365	1
21	R2	47 OHMS 1/4W 5%	RES 1300202	1
22	R3, R5	470 OHMS 1/4W 5%	RES 1300316	2
23	R4, R6, R8	220 OHMS 1/4W 5%	RES 1300271	3
24	R7	560 OHMS 1/4W 5%	RES 1301890	1
25	D1, D2, D3	D664 DIODE	1100114	3

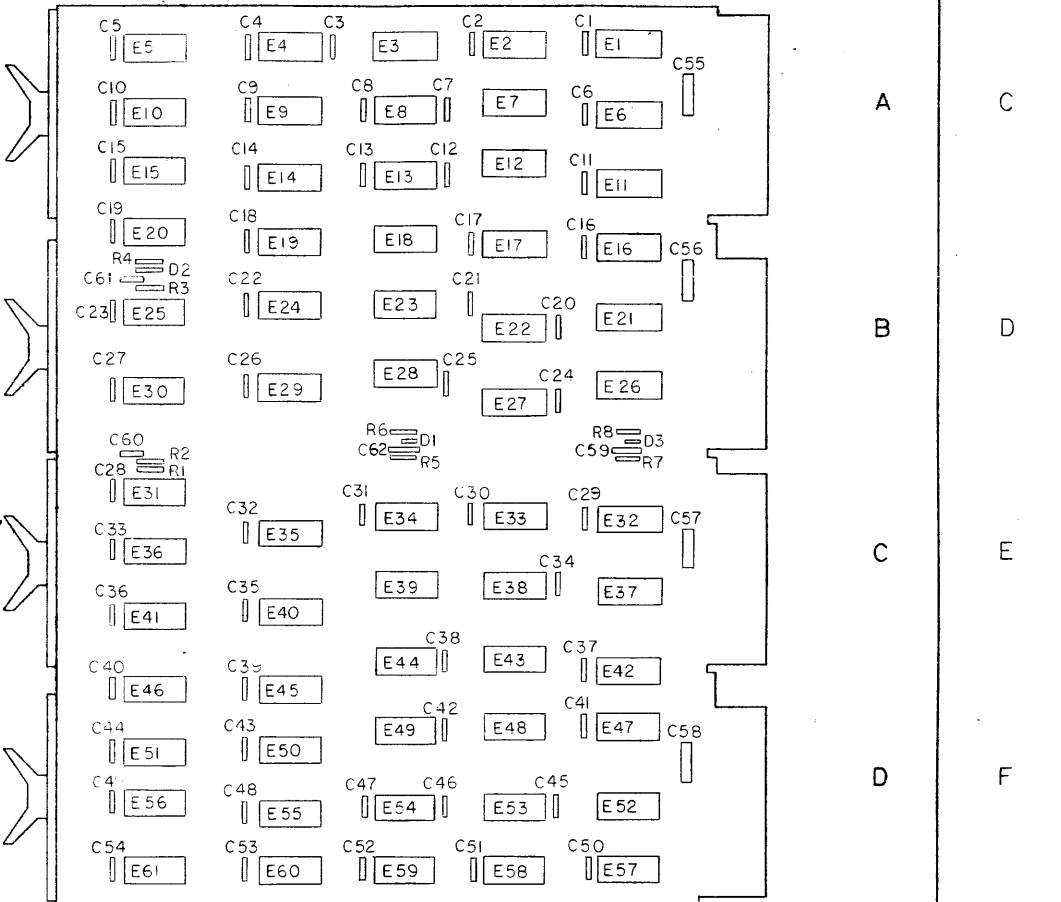
NOTES:

- PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE KAI1 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.
- PROCESSOR SIGNAL SOURCE NOTATION (K10-2, 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. IF ON A PRINT, THE FIRST NUMBER OF THE K PREFIXES COINCIDE FOR A SIGNAL NAME AND THE PRINT (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" SITUATION, 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
6251	PIN 8	PIN 16
DEC 8271	PIN 8	PIN 16
DEC 380	PIN 1	PIN 8
DEC 384	PIN 1	PIN 8

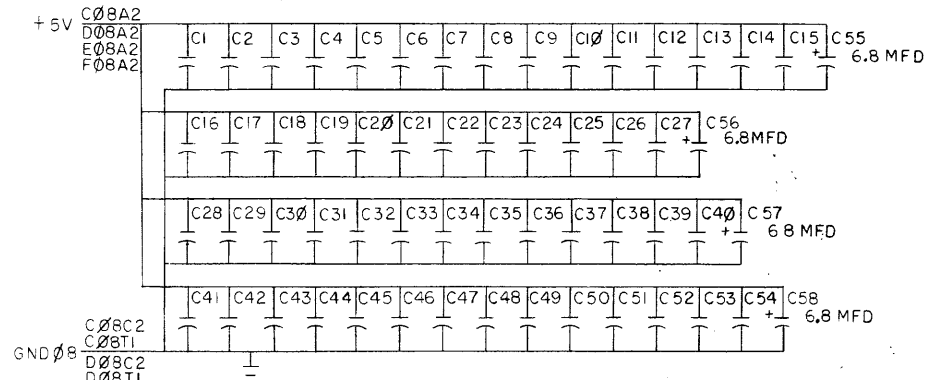
- UNLESS OTHERWISE NOTED: RESISTANCE IS IN OHMS; CAPACITANCE IS IN MICROFARADS. CAPACITORS WITHOUT ANY NOTED VALUES ARE .01 MFD.

COMPONENT PLACEMENT



PIN NOMENCLATURE

MODULE	PROCESSOR
A	C
B	D
C	E
D	F

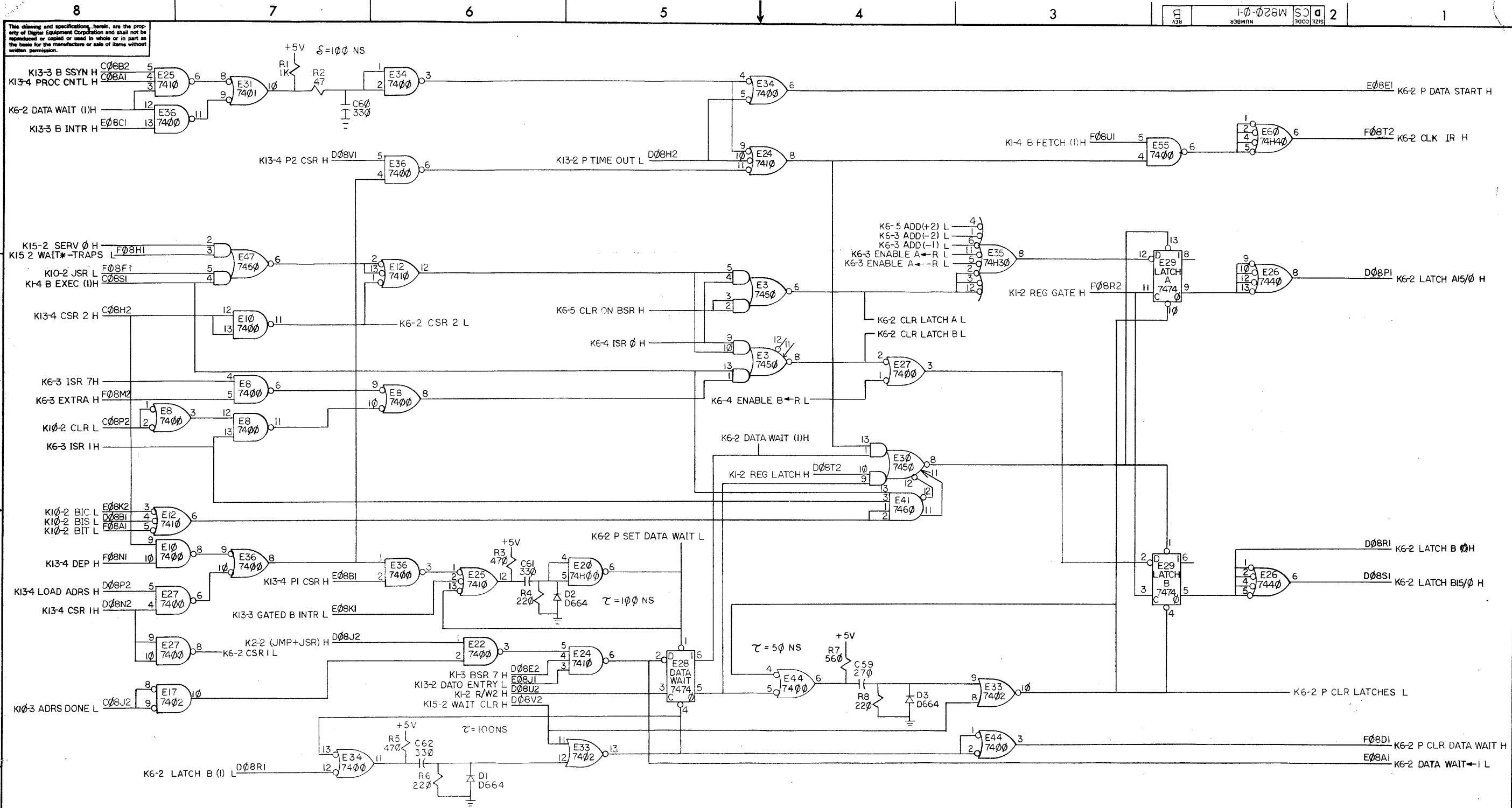


FIRST USED ON OPTION/MODEL PDP 11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN <i>[Signature]</i>	DATE 12 FEB 70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES DECIMALS FRACTIONS ANGLES = .005 = 1/64 = 0°30'	CHK'D <i>[Signature]</i>	DATE 3/2/70	TITLE DATA PATH CNTL	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	ENG. <i>[Signature]</i>	DATE 3-6-70	M820 K6-1	
MATERIAL //	PROJ. ENG. <i>[Signature]</i>	DATE 3-6-70	A-ML-KAI1-0	
FINISH //	PROD. <i>[Signature]</i>	DATE	SCALE 1 OF 5	
NEXT HIGHER ASSY			SIZE CODE NUMBER DCS M820-0-1	
ETCH REV. B C			REV. B	

REV	DATE	BY	DESCRIPTION
B	4/23/70	J. O'LOUGHLIN	
A			

REV B  
NUMBER  
DCS M820-0-1

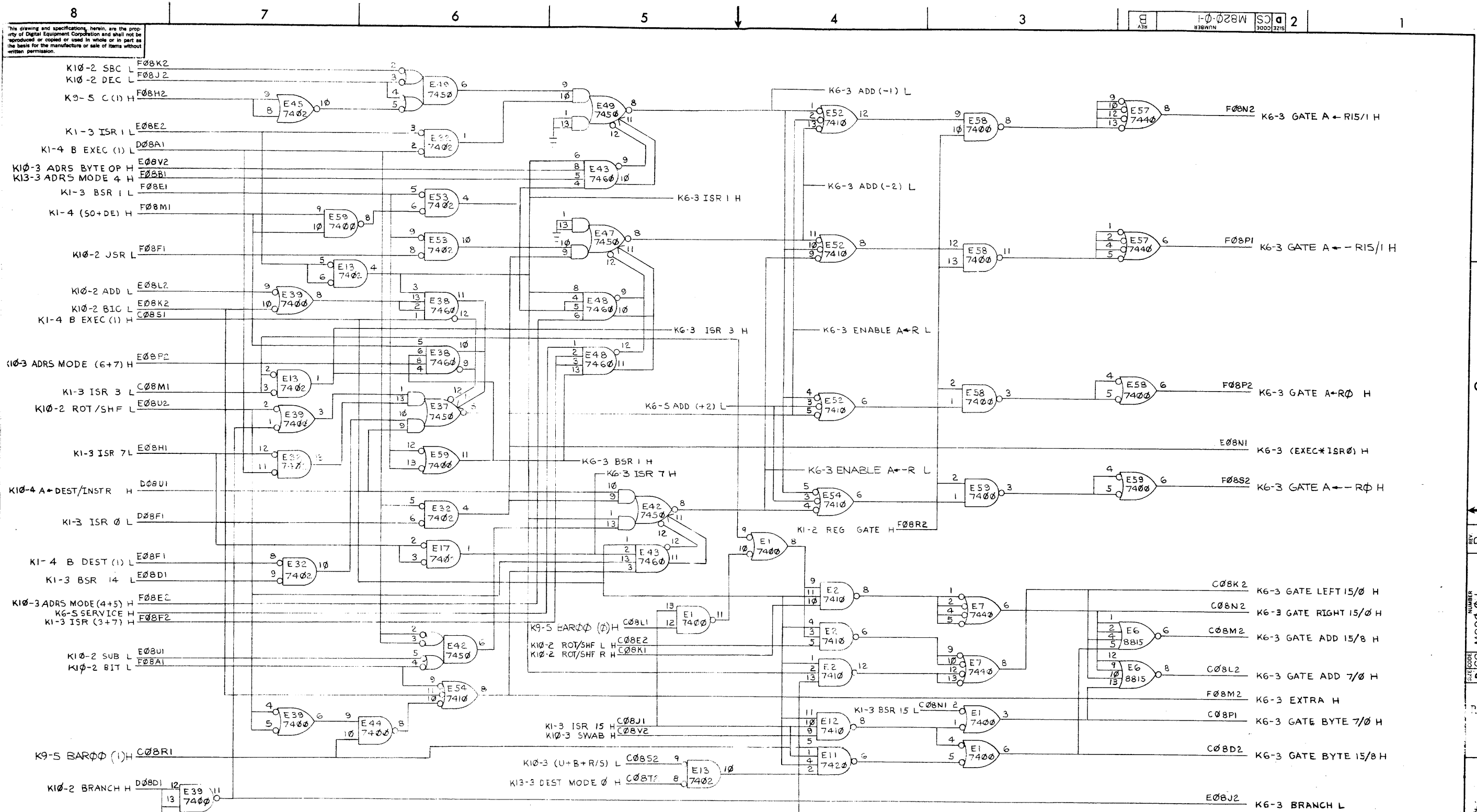
DIST. 344 444 435 1 Pin



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REV	NO
CHK	NO

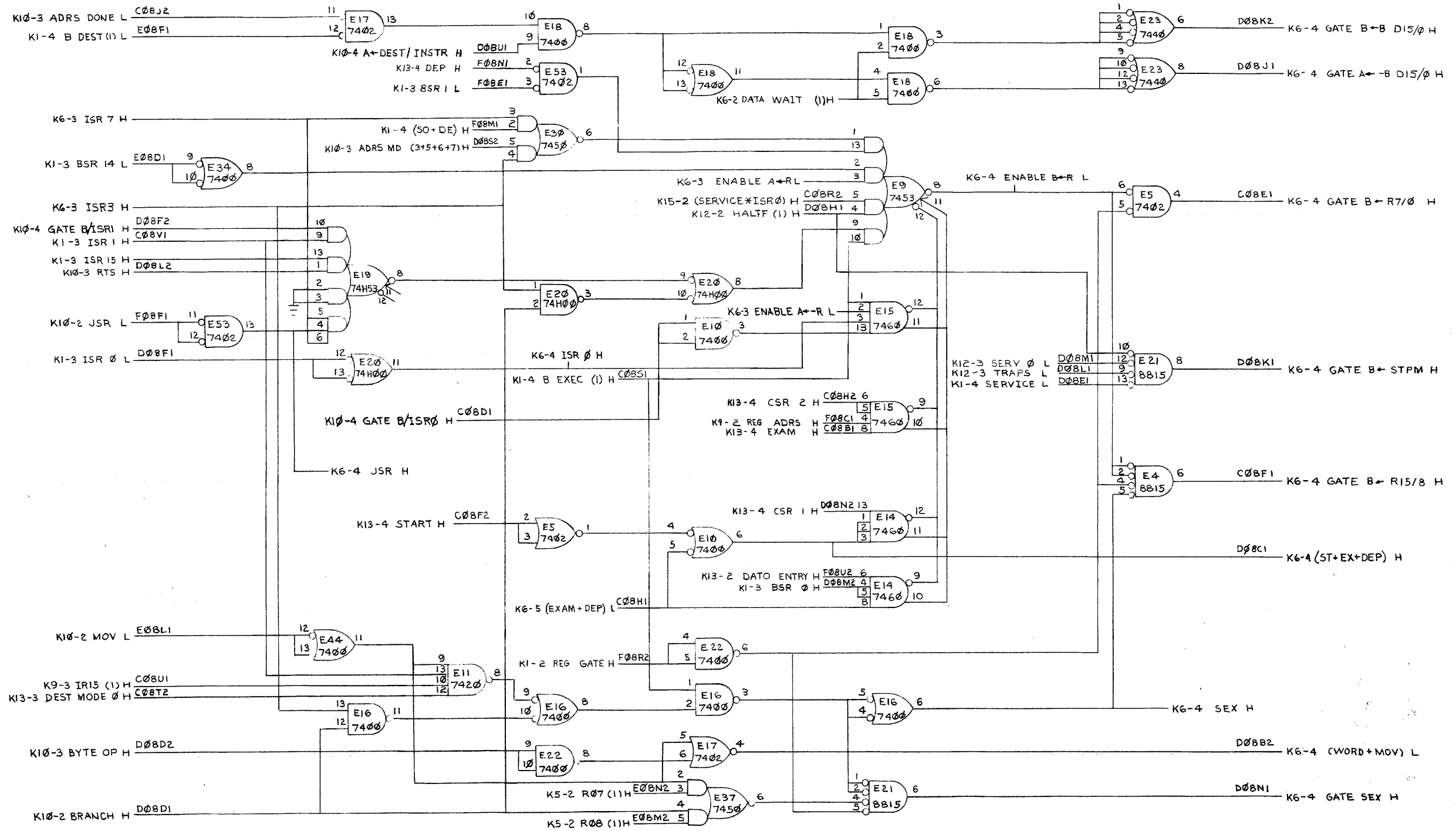
FIRST USED ON OPTION/MODEL PDP11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				
TITLE <b>DATA PATH CNTL</b>				
MATERIAL				
NEXT HIGHEST ASSY A-ML-KA11-0				
FINISH				
SCALE NONE				
SHEET 2 OF 5				
SIZE CODE NUMBER REV. DICS M820-0-1 B				



REV.	
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL PDPII	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED				
UNLESS OTHERWISE SPECIFIED	DRN.	DATE	PARTS LIST	
DIMENSION IN INCHES	CHK'D.	DATE	digital CORPORATION	
TOLERANCES	ENG.	DATE	MAYNARD, MASSACHUSETTS	
DECIMALS FRACTIONS ANGLES	PRJ. ENG.	DATE	TITLE	
= .005 = 1/64 = 0°30'	PRSD.	DATE	DATA PATH CNTL	
FINAL SURFACE QUALITY			MATERIAL	
REMOVE BURRS AND BREAK SHARP CORNERS			NEXT HIGHER ASSY	
			A-ML-K111-0	
			FINISH	
			SCALE NONE	
			SHEET 3 OF 5	
			SIZE CODE	
			DICS M820-0-1	
			NUMBER	
			K6-3	
			REV	
			BT	

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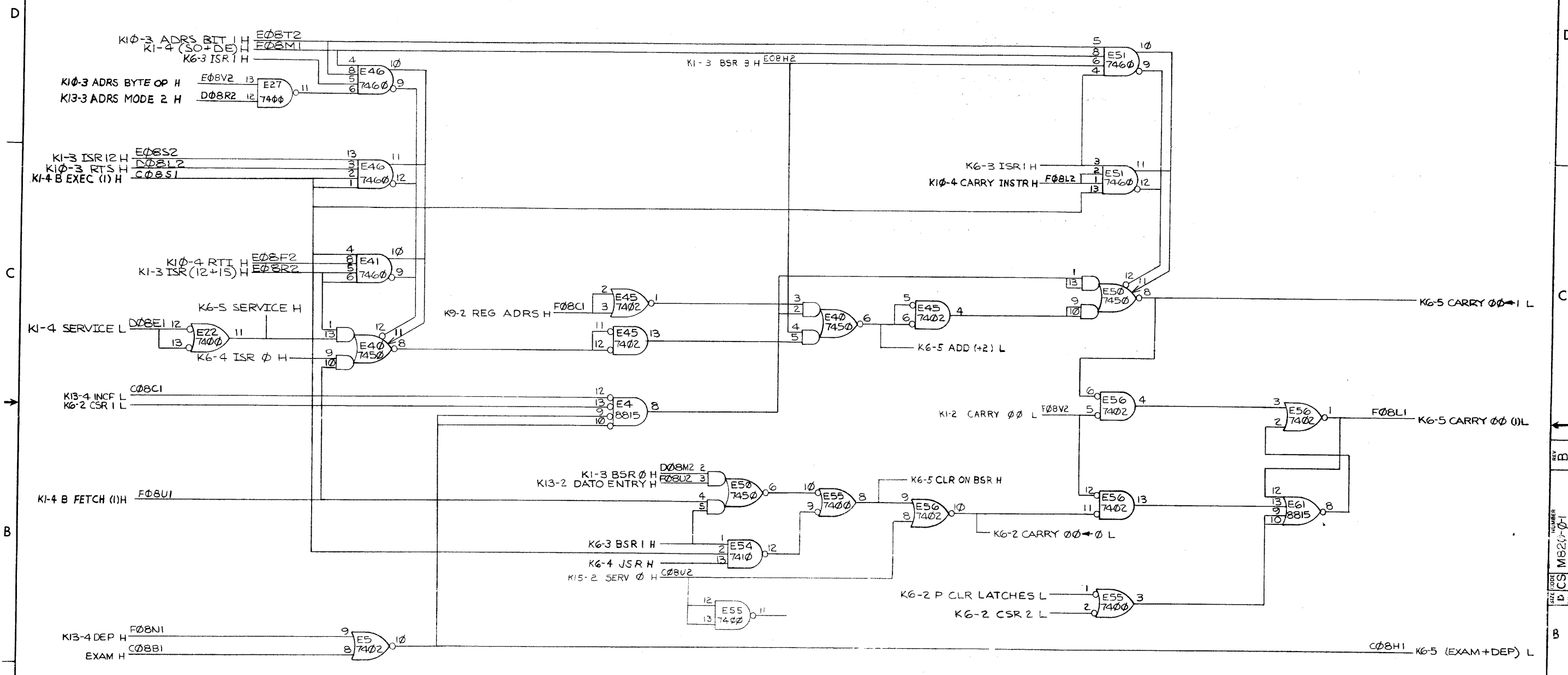


REV.	CHG. NO.	REVISIONS

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 EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES	ENG.	DATE	TITLE	
DECIMALS FRACTIONS ANGLES	PROJ. ENGR.	DATE	DATA PATH CNTL	
± .005 ± 1/64 ± 0°30'	PROD.	DATE	M820 K6-4	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS			A-ML-KA11-0	
MATERIAL			SIZE CODE NUMBER REV	
			DCS M820-0-1 B.1	
FINISH			SCALE NONE	
			SHEET 4 OF 5	

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SIZE CODE DCS M820-0-1 2



REV	CHANGE NO

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
TOLERANCES FRACTIONS ANGLES				
DECIMALS = .005 FRACTIONS = 1/64 ANGLES = 0°30'				
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
FINISH				
NEXT HIGHER ASSY		M820 K6-5		
A-ML-KA11-0		SIZE CODE DCS M820-0-1		
SCALE NONE		NUMBER		
SHEET 5 OF 5		REV. B		

1 Pink