

DEC-11-HYCA-D

**KY11-C
programmer's
console
engineering drawings**

1st Edition March 1971

KY11-C Programmer's Console

D-TD-KY11-C-CF TD
D-BS-KY11-C-CP
E-UA-KY11-C-0

KY11-C Console Flow
Console Panel
Console Assembly

Copyright © 1971 by Digital Equipment Corporation

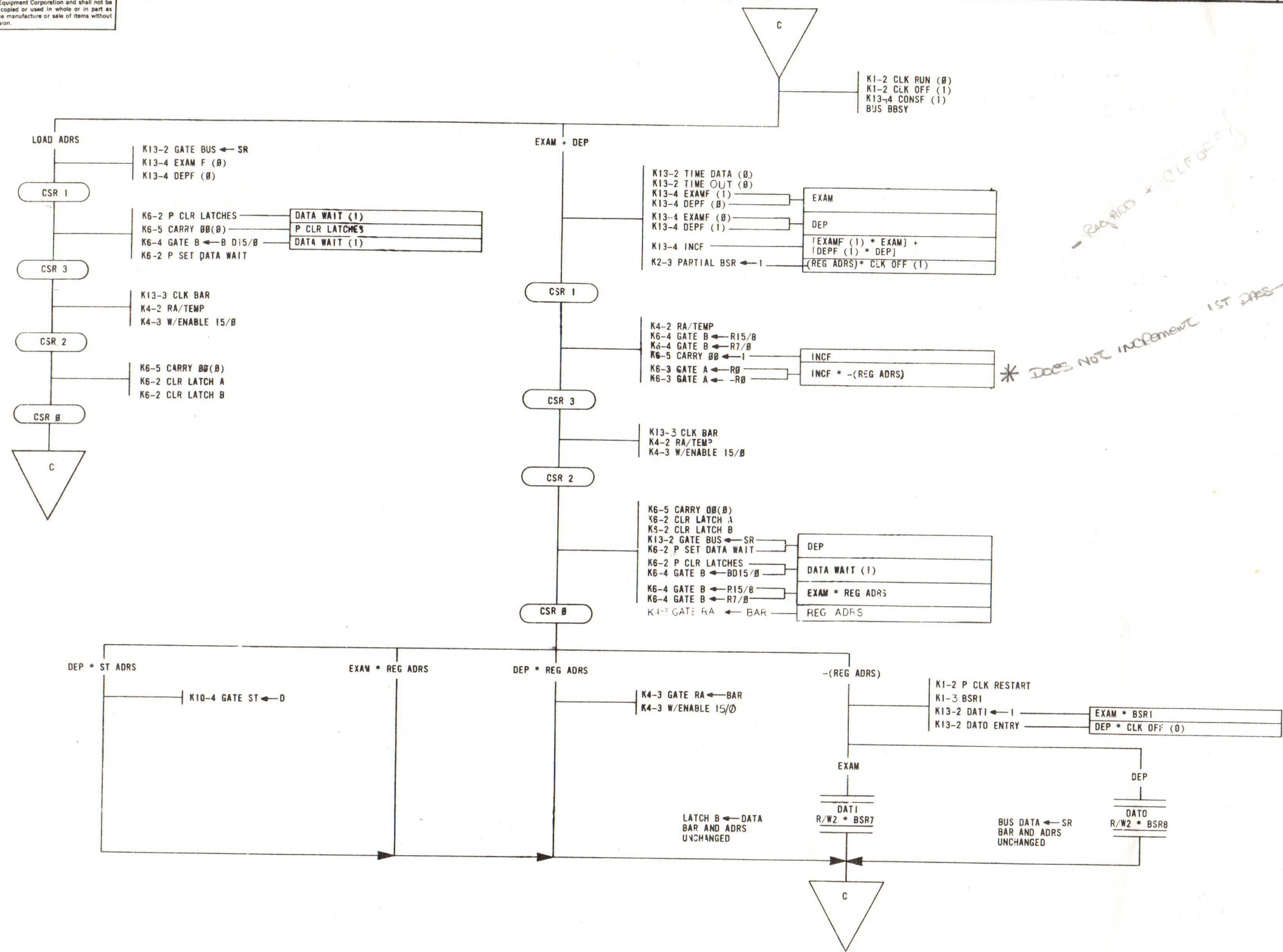
The material in this manual is for information purposes and is subject to change without notice.

The following are trademarks of Digital Equipment Corporation, Maynard, Massachusetts:

DEC	PDP
FLIP CHIP	FOCAL
DIGITAL	COMPUTER LAB
UNIBUS	

This drawing and specifications herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

REV 2
SIZE CODE
DITD KYII-C-CF TD



REV	CHG	NO
1	1	1

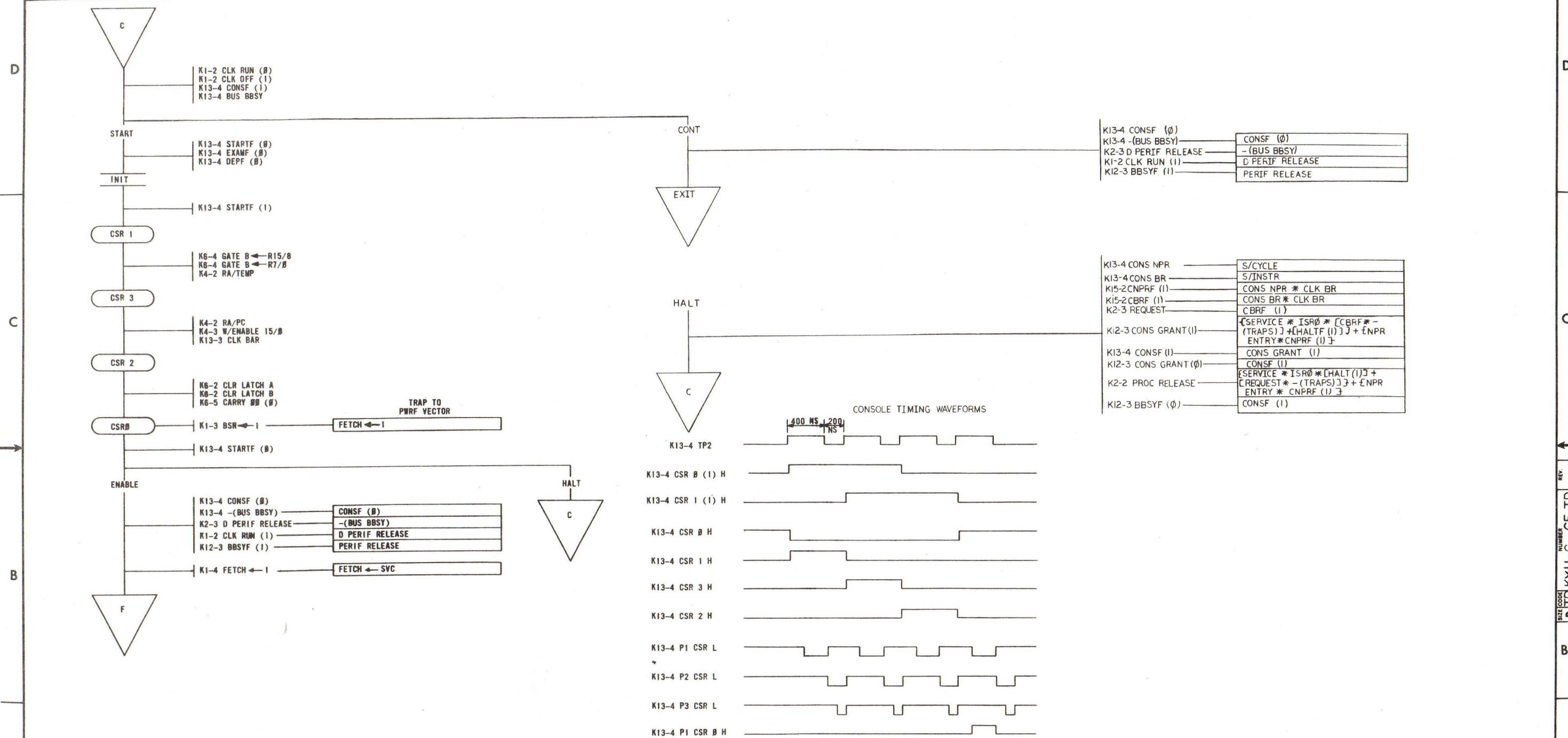
DEC FORM NO
DRO 100

FIRST USED ON OPTION/MODEL
PDP 11

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

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
TITLE			
KYII-C CONSOLE FLOW			
NEXT HIGHER ASSY			
A-ML-KC-I-C			
SCALE NONE			
SHEET 1 OF 2			
SIZE CODE NUMBER REV.			
DITD KYII-C-CF TD			
DIST.			

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



K13-4 CONS F (0)	CONS F (0)
K13-4 -(BUS BBSY)	-(BUS BBSY)
K2-3 D PERIF RELEASE	D PERIF RELEASE
K1-2 CLK RUN (1)	CLK RUN (1)
K12-3 BBSYF (1)	BBSYF (1)

K13-4 CONS NPR	S/CYCLE
K13-4 CONS BR	S/INSTR
K15-2 CNPRF (1)	CONS NPR * CLK BR
K15-2 CBRF (1)	CONS BR * CLK BR
K2-3 REQUEST	CBRF (1)
K12-3 CONS GRANT (1)	{SERVICE * ISRD * [CBRF * - (TRAPS)] + [HALT (1)]} + {NPR ENTRY * CNPRF (1)}
K13-4 CONS (1)	CONS GRANT (1)
K12-3 CONS GRANT (0)	CONS (1)
K2-2 PROC RELEASE	{SERVICE * ISRD * [HALT (1)] + [REQUEST * - (TRAPS)]} + {NPR ENTRY * CNPRF (1)}
K12-3 BBSYF (0)	CONS (1)

FIRST USED ON OPTION/MODEL PDP 11		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± 1/64 ± 0°30' FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		DRN. <i>By...</i> DATE <i>12/2/70</i>	CHW. <i>A. Raymond</i> DATE <i>3-10-71</i>	ENG. <i>...</i> DATE <i>3-12-71</i>	PROJ. ENG. <i>...</i> DATE <i>3-12-71</i>	PROD. <i>...</i> DATE <i>3-12-71</i>	PARTS LIST digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE KYII-C CONSOLE FLOW	
MATERIAL + +				NEXT HIGHER ASSY A-ML-KYII-C		SCALE NONE		SHEET 2 OF 2		SIZE CODE D TD	NUMBER KYII-C-CF TD	REV. 1

REVISIONS
CHANGE NO.
CHK

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

PARTS REFERENCE

ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	E2, E5, E8, E10, E11, E12, E23	DEC 7416	IC 1903928	7
2	E14, E22	DEC 7402	IC 1909004	2
3	E19, E23, E15, E7	DEC 7400	IC 1905575	4
4	E20, E21	DEC 7474	IC 1905547	2
5	E16, E18	DEC 7410	IC 1905576	2
6	E13, E9, E6, E4, E3, E1	DEC 8881	IC 1909705	6
7	E17	DEC 9601	IC 1909487	1
8	C1C2, C3, C4, C5, C6, C7, C9, C10, C11, C12, C13, C14, C15, C16, C22, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C39, C40, C41, C42, C43, C44, C45, C51, C52, C53, C54, C56, C57, C58, C20, C36, C46, C47, C59, C8	01UF, 100V, 20%	CAP 1001610	47
9	E24	DEC 7420	IC 1905577	1
10	C19	15UF, 20V, 10%	CAP 1004812	1
11				
12	C23-C26	6.8UF, 35V, 20%	CAP 1000067	4
13	R145, R57, R58, R59, R60	1.5K, 1/2W, 5%	RES 1300394	5
14	R144	18K, 1/2W, 10%	RES 1300182	1
15	R1 THRU R42, R91 THRU R100, R106, R111, R65 THRU R90, R108	470K, 1/4W, 5%	RES 1300316	54
16	R61-R64	1.2K, 1/4W, 5%	RES 1301320	27
17	R101	2K, 1/4W, 5%	RES 1302388	4
18	R102	2.2K, 1/4W, 5%	RES 1301808	1
19	R112-R143	2.2K, 1/4W, 5%	RES 1300417	32
20	R51 THRU R56	3.3K, 1/4W, 5%	RES 1300439	6
21	R45, R46, R47, R48, R102, R107, R110	180K, 1/4W, 5%	RES 1301322	7
22	R49, R50, R103, R146	390K, 1/4W, 5%	RES 1300309	4
23	R43, R44, R147	1K, 1/4W, 5%	RES 1300365	3
24	R109	47K, 1/4W, 5%	RES 1300202	1
25	S1, S2, S5, S6, S7	MOMENTARY ROCKER SWITCH SPDT	1205375	5
26	Q1 THRU Q5	DEC 6534D	TRANS 1503409	5
27	I1 THRU I42	10V HUDSON BLU	LIGHT 1209219	42
28	D1 THRU D11, D13 THRU D55	D664	DIODE 1100114	54
29	S3, S4, S8 THRU S23	SUSTAINED SWITCH DPDT	1205341	18
30	C17	3.9UF, 10V, 10%	CAP 1000064	1
31	D56	1/4M, 2.4V	DIODE 1101938	1

NOTES:

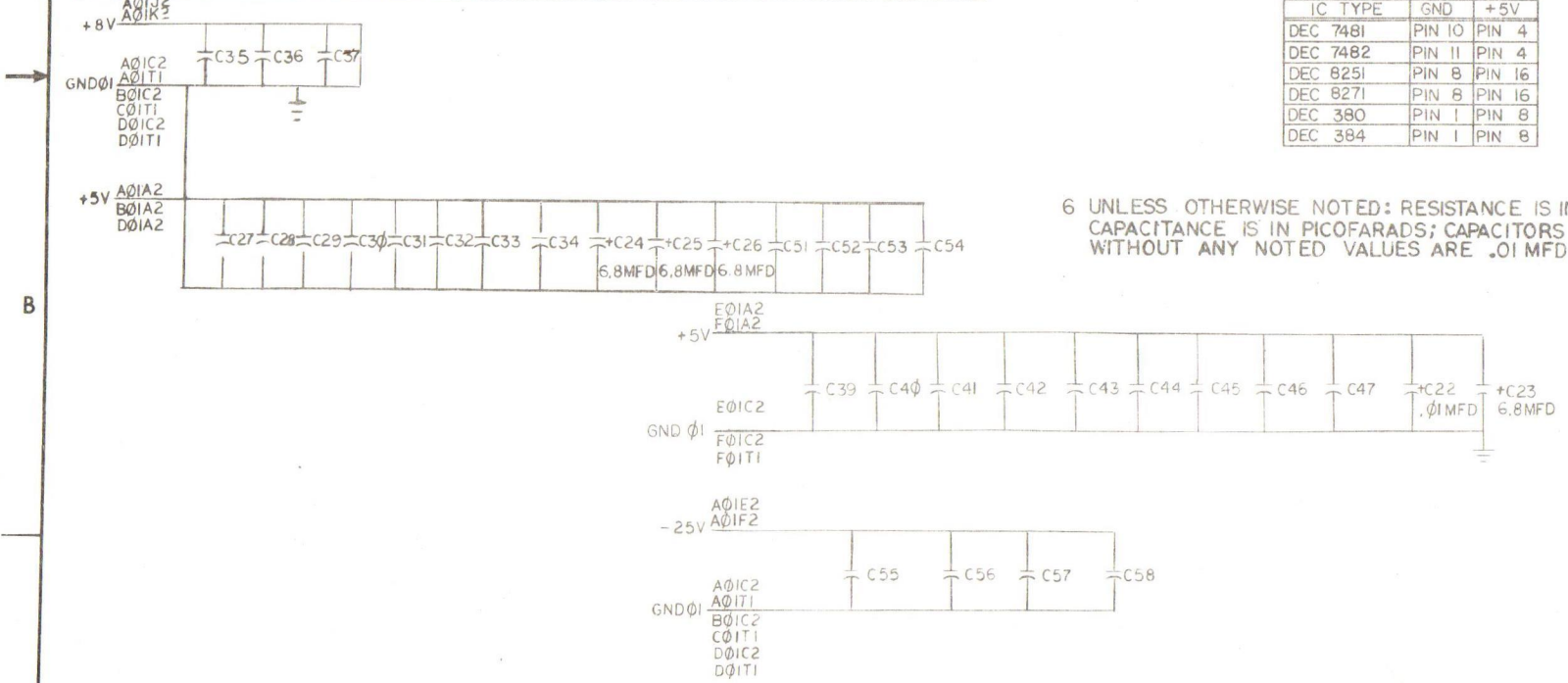
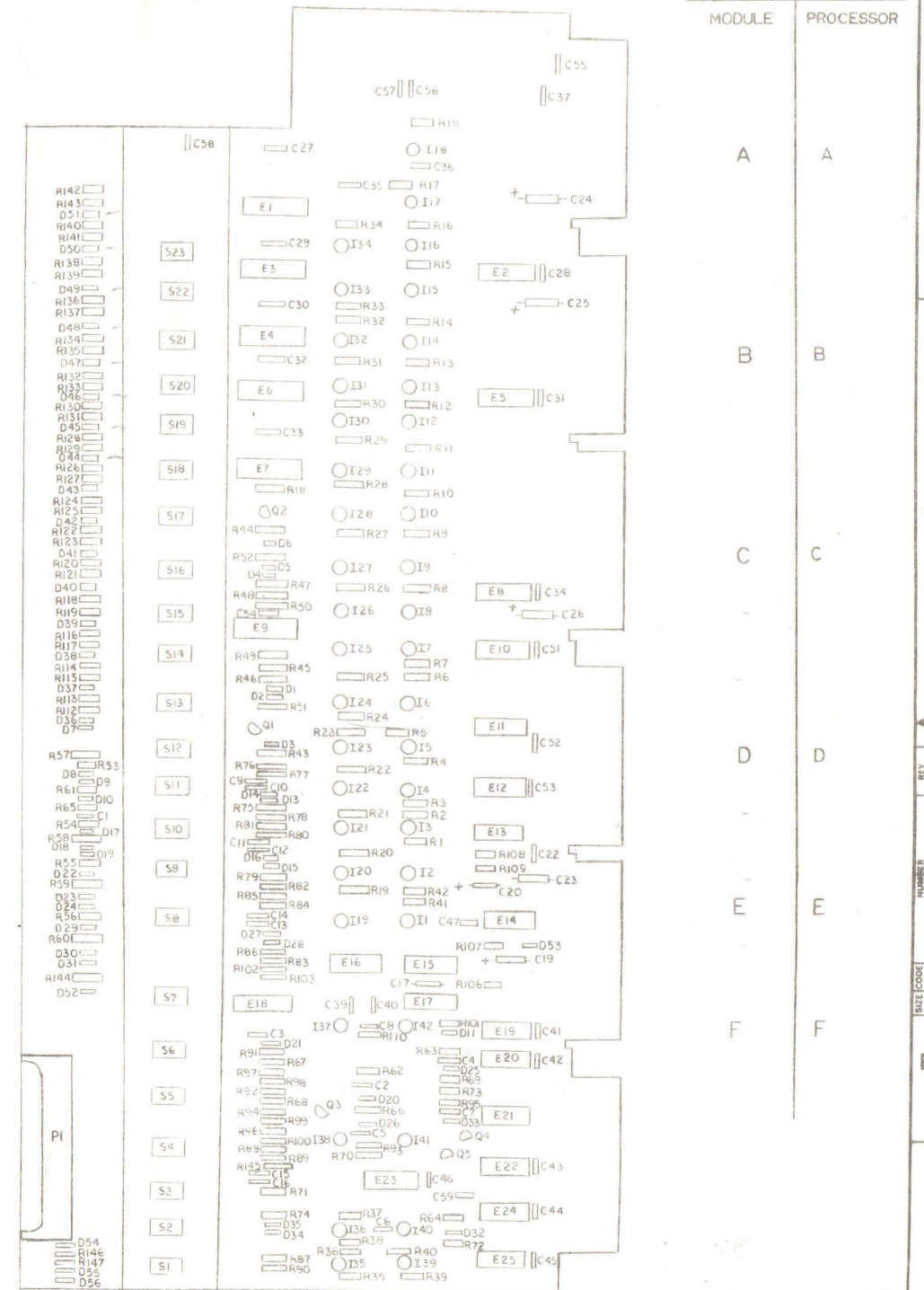
- PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE PROCESSOR. MODULE REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE FIRST LETTER, AND CONVERTING THE FIRST LETTER ACCORDING TO THE PIN NOMENCLATURE CHART AT RIGHT.
- ALL SIGNALS THAT HAVE MODULE PINS ARE SO NOTED; 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 SEPARATE PINS ARE USED; MULTIPLE INPUTS ARE CONNECTED. MODULE OUTPUT SIGNALS ARE BROUGHT TO THE EXTREME RIGHT OF EACH SHEET.
- PROCESSOR SIGNAL SOURCE NOTATION (, 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 7481	PIN 10	PIN 4
DEC 7482	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

6 UNLESS OTHERWISE NOTED: RESISTANCE IS IN OHMS; CAPACITANCE IS IN PICO FARADS; CAPACITORS WITHOUT ANY NOTED VALUES ARE .01 MFD

COMPONENT PLACEMENT

PIN NOMENCLATURE



REV	DATE	BY	CHK	APP
1	5/12/71	DEWEY		
2	5/12/71	DEWEY		
3	5/12/71	DEWEY		
4	5/12/71	DEWEY		
5	5/12/71	DEWEY		
6	5/12/71	DEWEY		
7	5/12/71	DEWEY		
8	5/12/71	DEWEY		

FIRST USED ON OPT/ MOD	UNLESS OTHERWISE SPECIFIED	DRN	DATE
PDP11	UNLESS OTHERWISE SPECIFIED	CHK'D	DATE
ETCH REV D	DIMENSION IN INCHES	ENG	DATE
	TOLERANCES	PROJ ENG	DATE
	DECIMALS FRACTIONS ANGLES	PROD	DATE
	± .005 ± .010 ± .030		
	REMOVE BURRS AND BREAK SHARP CORNERS		
MATERIAL	NEXT HIGHER ASSY		
FINISH	A-ML-KY11-C		
	SCALE NONE		
	SHEET 1 OF 4		
	DIST.		
	NUMBER		
	REV		
	E		

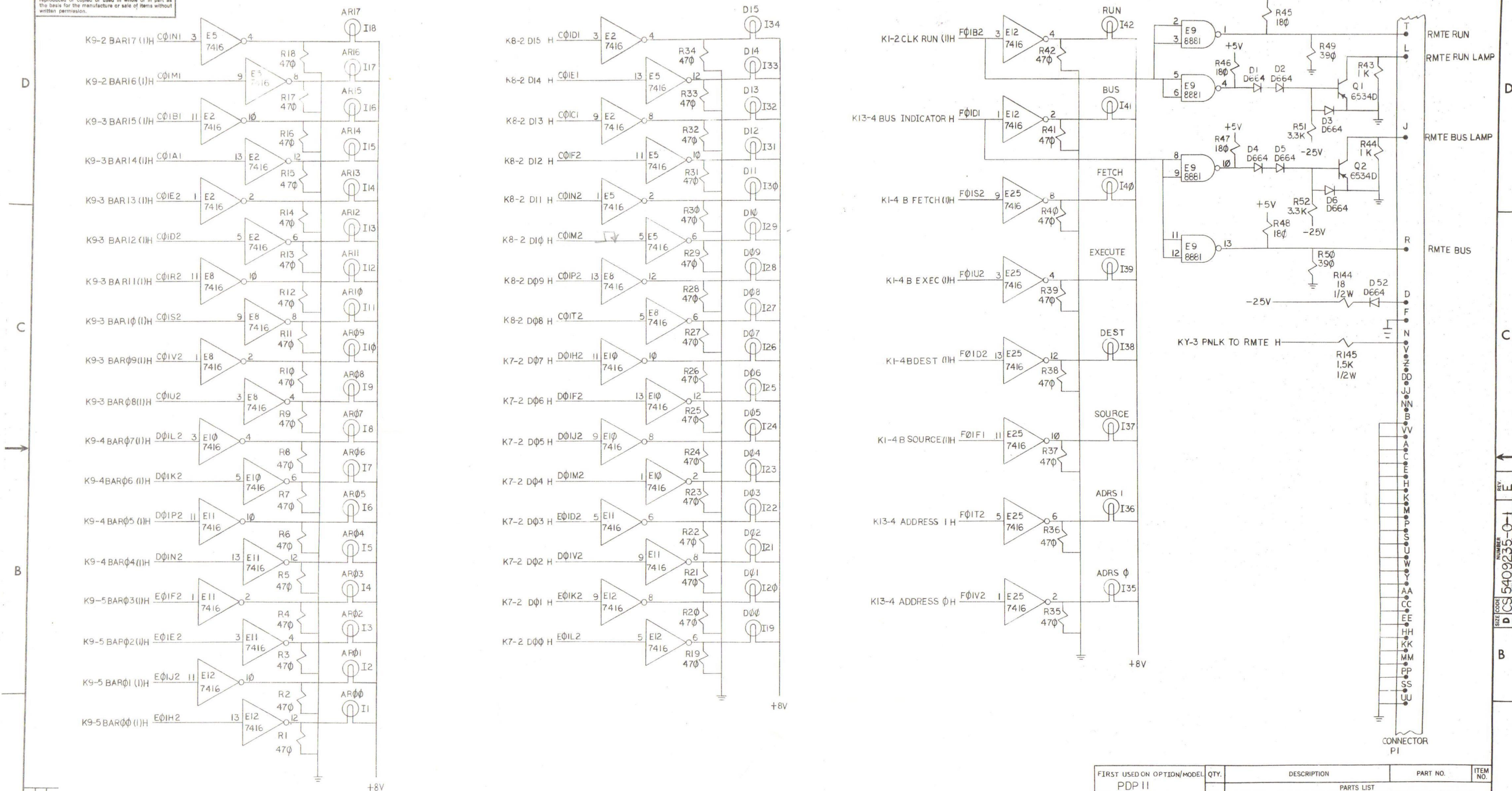
digital EQUIPMENT CORPORATION
WAYNAND MASSACHUSETTS

CONSULE PANEL

KY-1

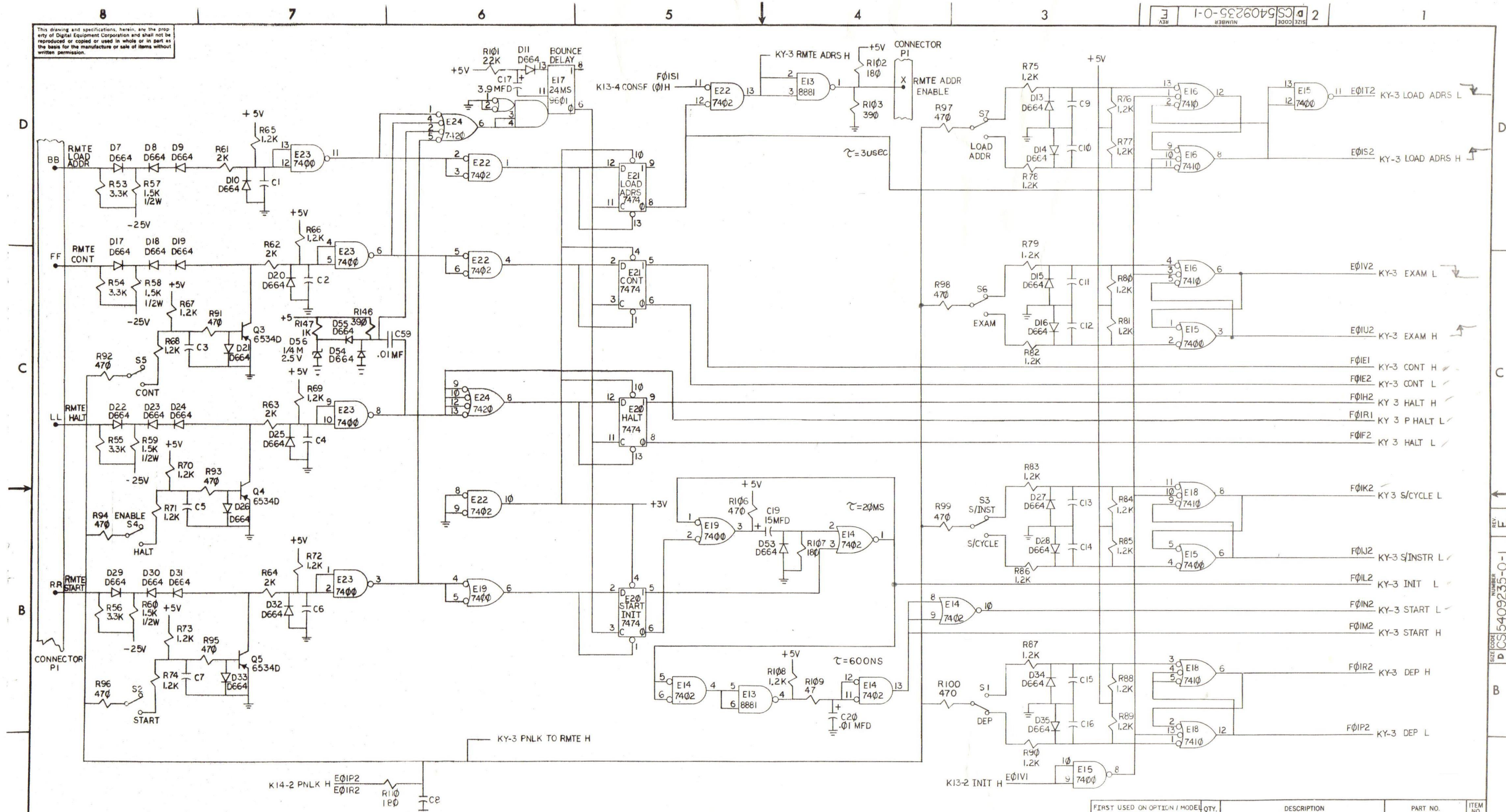
SIZE CODE DCS 5409235-0-1

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 11				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	digital EQUIPMENT CORPORATION	
DIMENSION IN INCHES	ENG.	DATE	MAYNARD, MASSACHUSETTS	
TOLERANCES	PROJ. ENG.	DATE	TITLE	
DECIMALS FRACTIONS ANGLES	PROD.	DATE	CONSULE PANEL	
± .005 ± 1/64 ± 0°30'			LAMPS	
FINAL SURFACE QUALITY			KY-2	
REMOVE BURRS AND BREAK SHARP CORNERS			SIZE CODE NUMBER	
MATERIAL	NEXT HIGHER ASSY		DCS 5409235-0-1	
FINISH	A-ML-KY11-C		REV. E	
	SCALE NONE		DIST.	
	SHEET 2 OF 4			

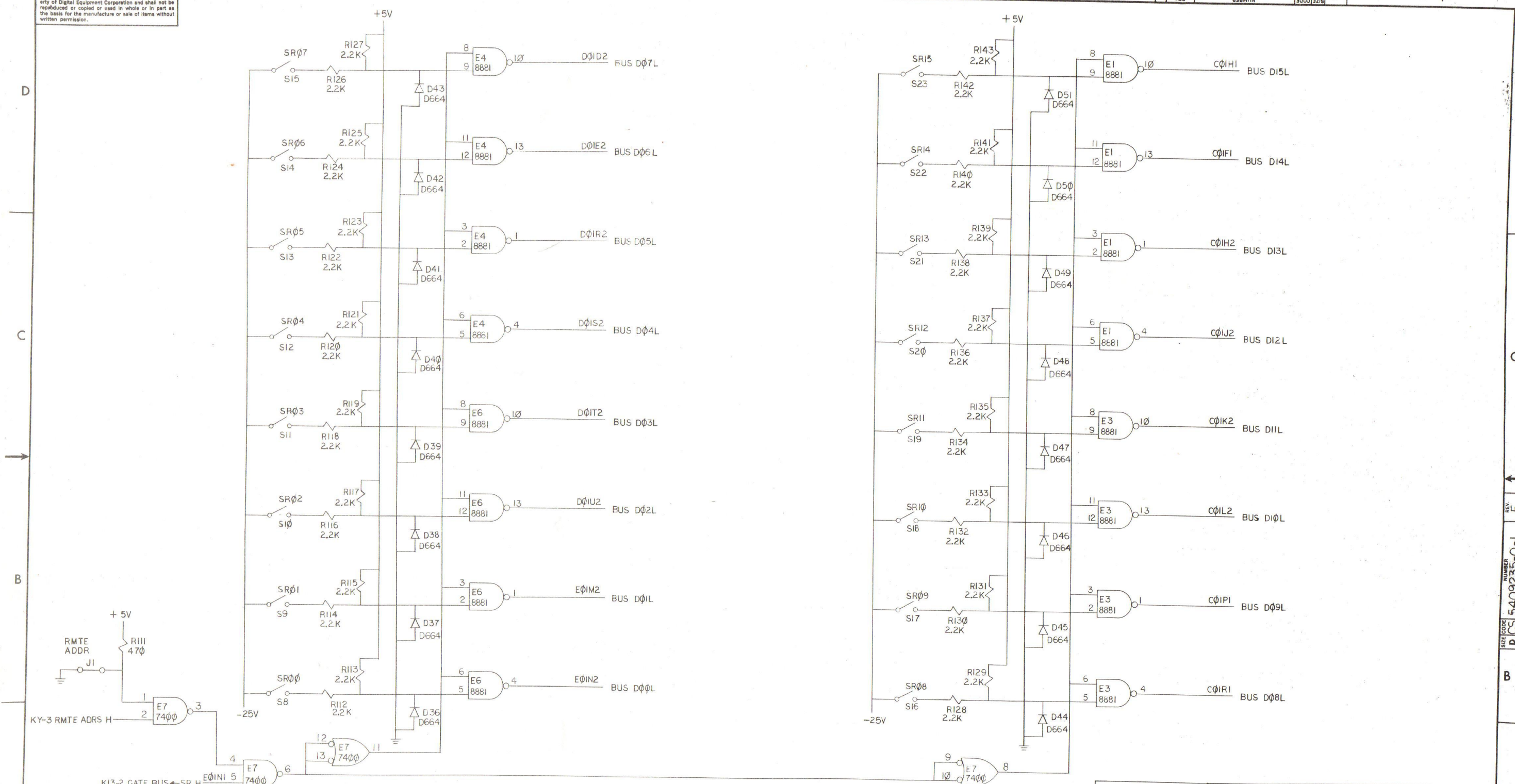
This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



FIRST USED ON OPTION / MODEL QTY.		DESCRIPTION		PART NO.	ITEM NO.
PDP 11		PARTS LIST			
UNLESS OTHERWISE SPECIFIED:		DRN. <i>11/17/70</i>	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE CONSOLE PANEL CONTROL SWITCHES KY-3 SIZE CODE DCS 5409235-0-1 NUMBER REV. E	
UNLESS OTHERWISE SPECIFIED:		CHK'D <i>11/17/70</i>	DATE		
DIMENSION IN INCHES		ENG. <i>11/17/70</i>	DATE		
TOLERANCES		PROJ. ENG. <i>11/17/70</i>	DATE		
DECIMALS FRACTIONS ANGLES		PROD.	DATE		
= .005 = 1/64 = 0°30'		NEXT HIGHER ASSY			
FINAL SURFACE QUALITY		A-ML-KY11-C			
REMOVE BURRS AND BREAK SHARP CORNERS		SCALE NONE			
MATERIAL		SHEET 3 OF 4			
FINISH		DIST.			

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

DEC FORM NO 102A



FIRST USED ON OPTION / MODEL PDP 11		QTY.	DESCRIPTION		PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED		DRN	DATE		 digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
UNLESS OTHERWISE SPECIFIED		CHK'D	DATE					
DIMENSION IN INCHES		A. Raymond		10-71				
TOLERANCES		ENG.		3-12-71				
DECIMALS FRACTIONS ANGLES		PROJ. ENG.		3-12-71				
± .005 ± 1/64 ± 0°30'		PROD.		DATE	CONSULE PANEL DATA SWITCHES			
FINAL SURFACE QUALITY		NEXT HIGHER ASSY						
REMOVE BURRS AND BREAK SHARP CORNERS		A-ML-KY11-C						
MATERIAL		SCALE		NONE				
FINISH		SHEET		4 OF 4				
		SIZE CODE		NUMBER	REV.			
		DCS		5409235-0-1	E			
		DIST.						