

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

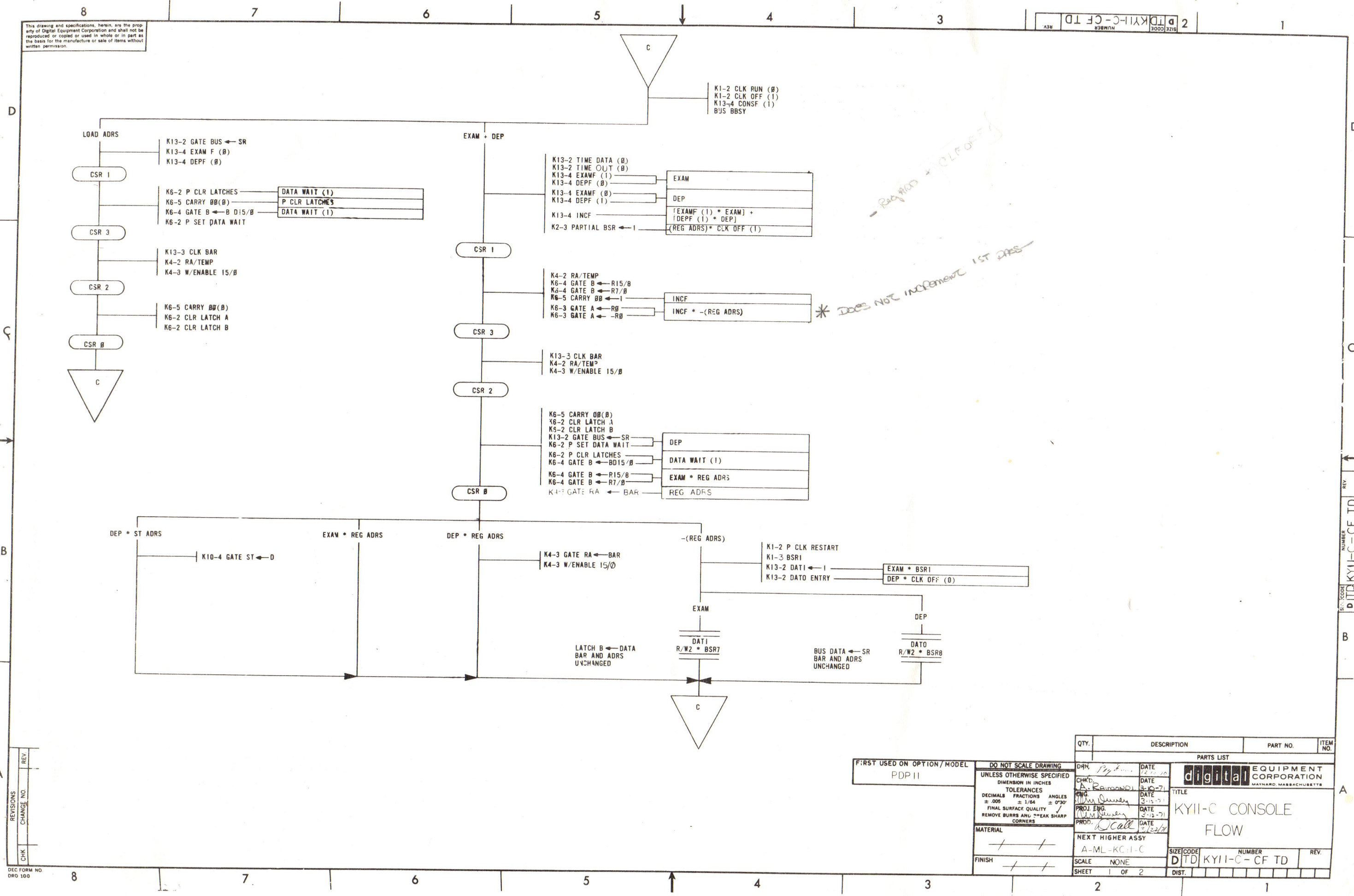
The material in this manual is for information purposes and is subject to change without notice.

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
DITD KYII-C-CF TD



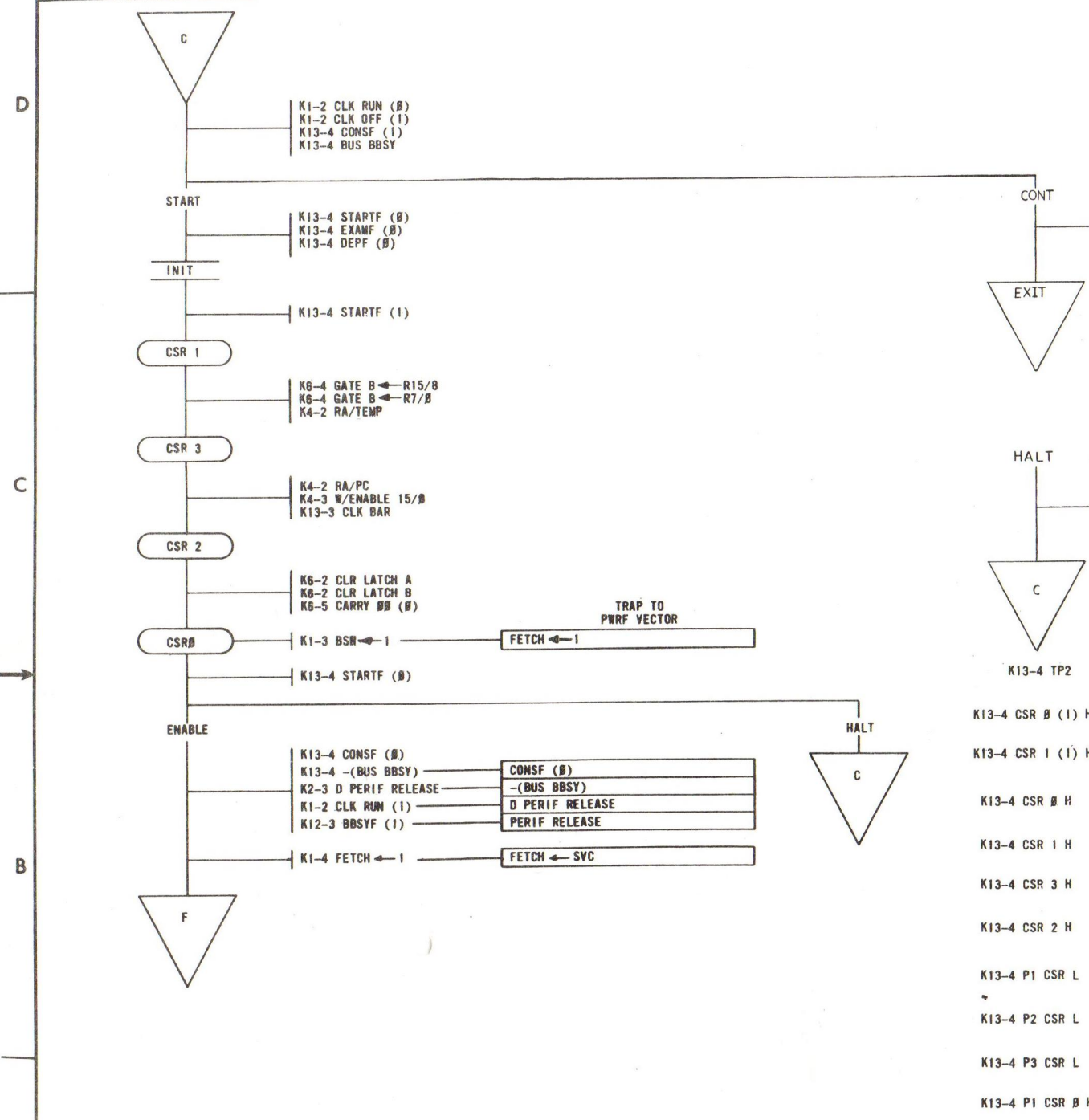
REV	
CHK	
CHANGE NO	

FIRST USED ON OPTION/MODEL
PDP 11

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

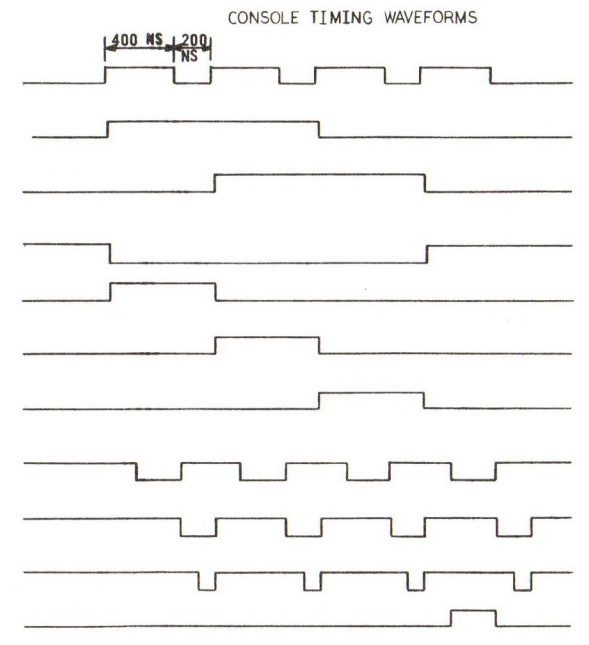
QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
TITLE KYII-C CONSOLE FLOW			
NEXT HIGHER ASSY A-ML-KC-I-C		SCALE NONE	REV.
SHEET 1 OF 2		DITD KYII-C-CF TD	

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 CONSF (0)	CONSF (0)
K13-4 -(BUS BBSY)	-(BUS BBSY)
K2-3 D PERIF RELEASE	D PERIF RELEASE
K1-2 CLK RUN (1)	PERIF RELEASE
K12-3 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 * ISR0 * [CBRF * - (TRAPS)] + [HALTF (1)]} + {NPR ENTRY * CNPRF (1)}
K13-4 CONSF (1)	CONSF (1)
K12-3 CONS GRANT (0)	CONSF (1)
K2-2 PROC RELEASE	{SERVICE * ISR0 * [HALT (1)] + [REQUEST * - (TRAPS)]} + {NPR ENTRY * CNPRF (1)}
K12-3 BBSYF (0)	CONSF (1)



REV.	
CHANGE NO.	
CHK	

FIRST USED ON OPTION / MODEL
 PDP 11

DO NOT SCALE DRAWING	
UNLESS OTHERWISE SPECIFIED	
DIMENSION IN INCHES	
TOLERANCES	
DECIMALS	FRACTIONS
± .005	± 1/64
FINAL SURFACE QUALITY	
REMOVE BURRS AND BREAK 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-KYII-C		SCALE NONE	SHEET 2 OF 2
SIZE CODE D TD		NUMBER KYII-C-CF TD	REV.

REV. 2
 NUMBER 1
 SIZE CODE D TD KYII-C-CF TD

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, E20	DEC 7416 IC	1909928	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 9801 IC	1909487	1
8	C12, 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	470Ω, 1/4W, 5% RES	1300316	54
16	R65 THRU R90, R108	1.2K, 1/4W, 5% RES	1301320	27
17	R61-R64	2K, 1/4W, 5% RES	1302388	4
18	R101	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	180Ω, 1/4W, 5% RES	1301322	7
22	R49, R50, R103, R146	390Ω, 1/4W, 5% RES	1300309	4
23	R43, R44, R147	1K, 1/4W, 5% RES	1300365	3
24	R109	47Ω, 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	L1 THRU L42	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	1205941	18
30	C17	3.9UF, 10V, 10% CAP	1000064	1
31	D56	1/4M, 2.4V DIODE	1101938	1

NOTES:

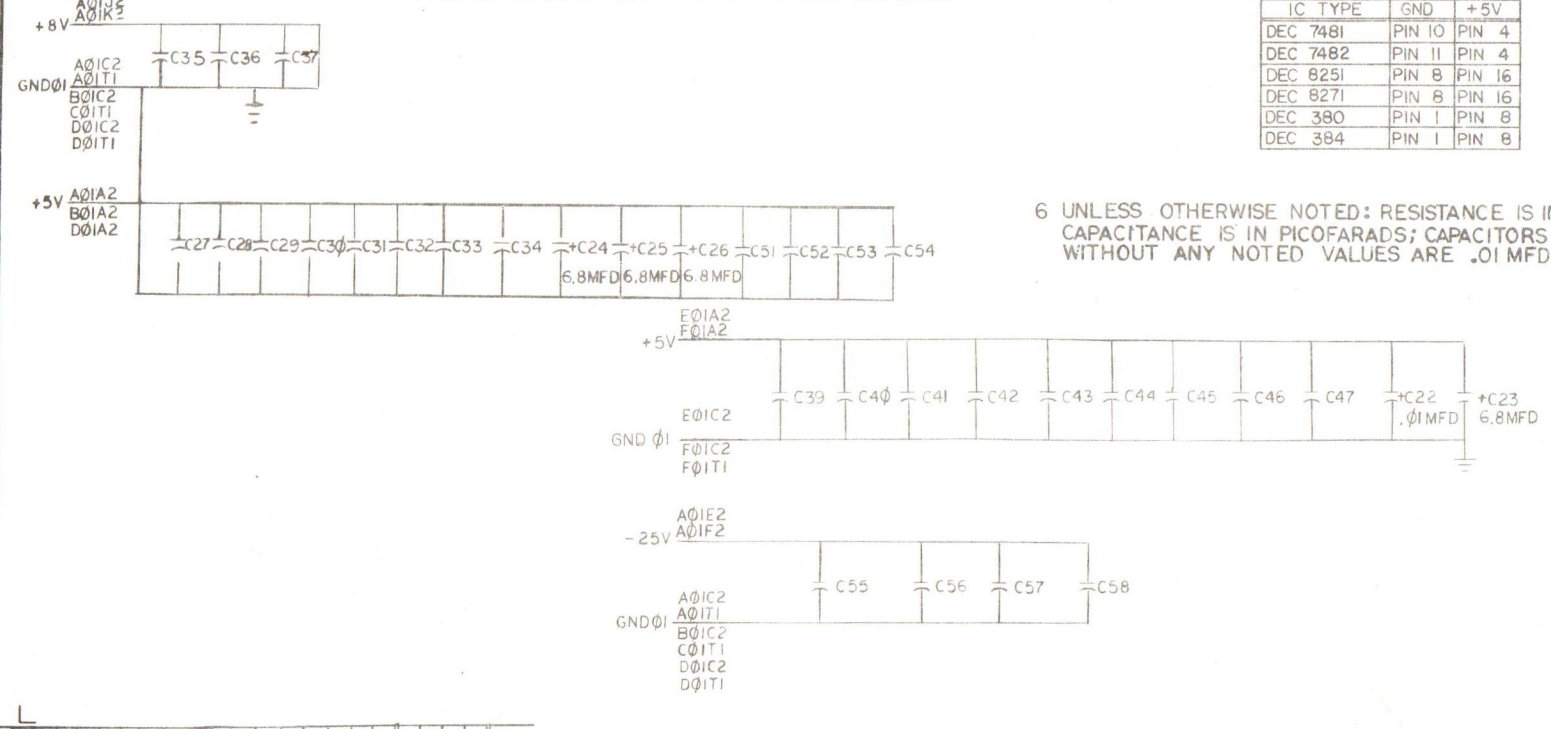
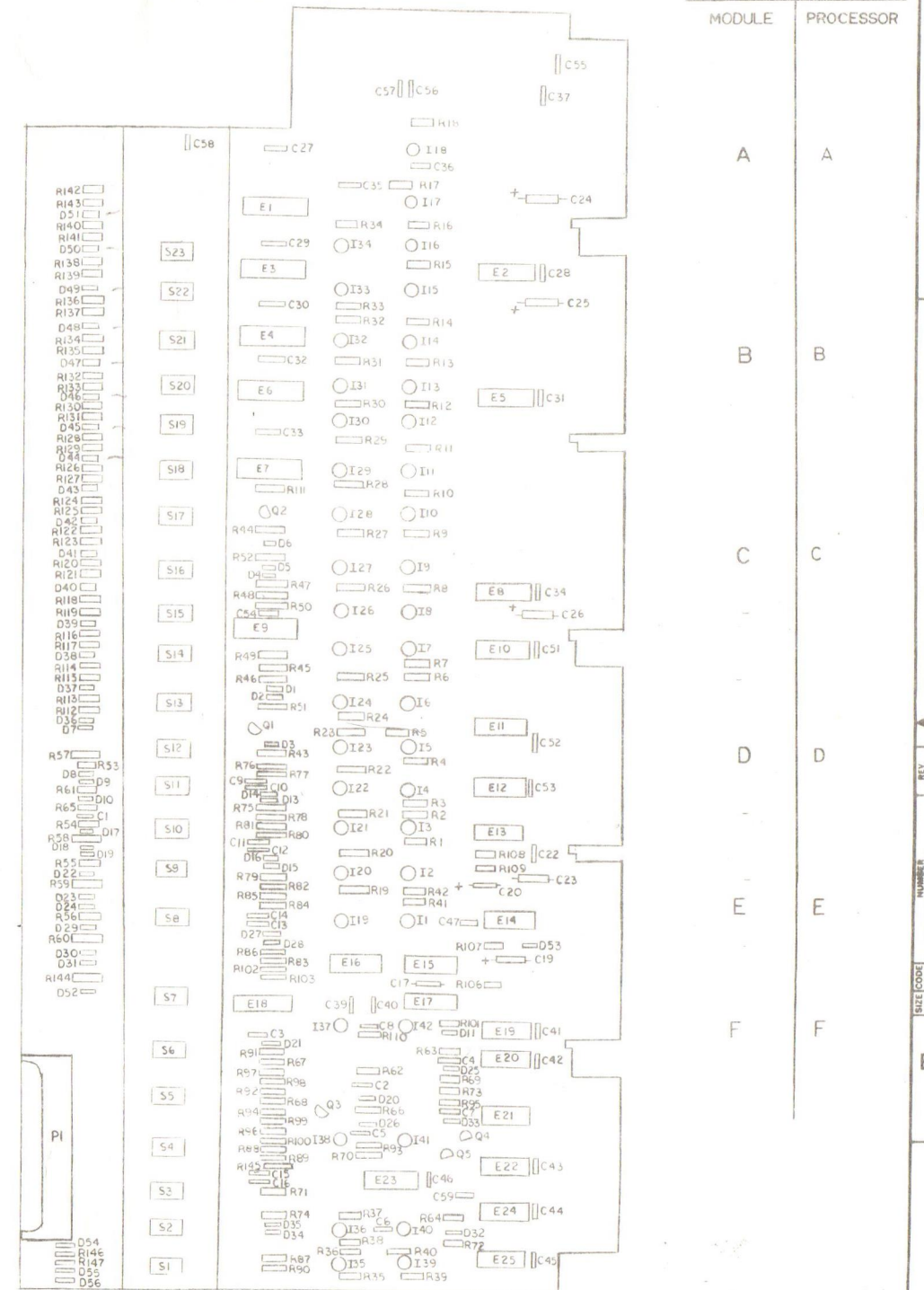
- PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE PROCESSOR. MODULE REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE FIRST LETTER, AND CONVERTING THE FIRST LETTER ACCORDING TO THE PIN NOMENCLATURE CHART AT RIGHT.
- ALL SIGNALS THAT HAVE MODULE PINS ARE SO NOTED; 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 PICOFARADS; CAPACITORS WITHOUT ANY NOTED VALUES ARE .01 MFD

COMPONENT PLACEMENT

PIN NOMENCLATURE

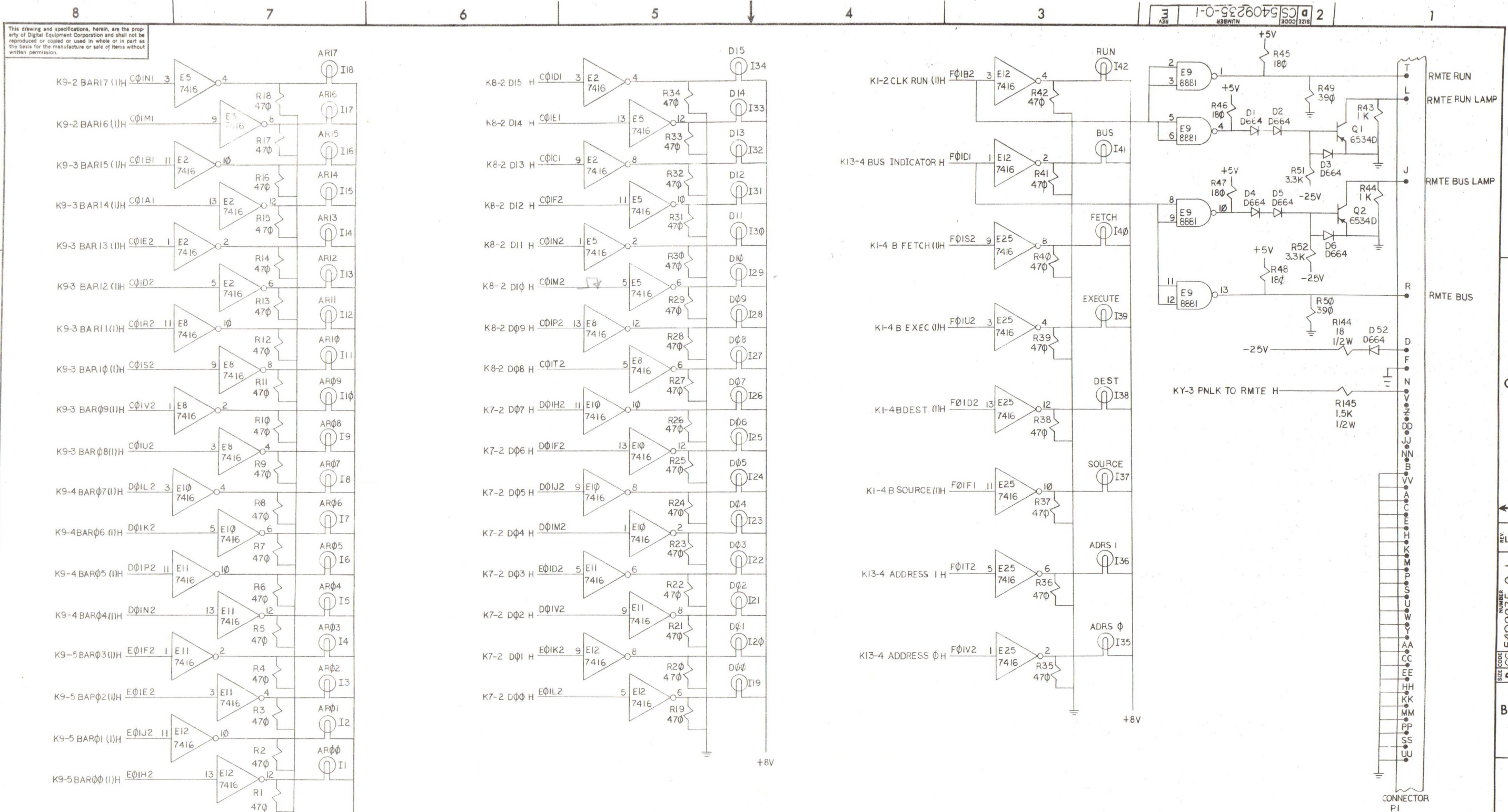


REVISIONS

CHK	REV	DATE	BY
1	1	5/12/71	T.C. SURETE
2	2	5/14/71	DEWEY
3	3	5/14/71	DEWEY
4	4	8/11/71	DEWEY
5	5	11/17/71	D. MUTNANSKY
6	6	1/17/72	D. MUTNANSKY
7	7	2/14/73	B. FITZGERALD

FIRST USED ON OPT/ MOD PDP 11 ETCH REV D	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 CHK'D ENG PROL ENG PROD	DATE DATE DATE DATE DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
MATERIAL FINISH	NEXT HIGHER ASSY SCALE NONE	TITLE CONSOLE PANEL KY-1		
SIZE CODE DCS 5409235-0-1		NUMBER REV E	SHEET 1 OF 4	

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

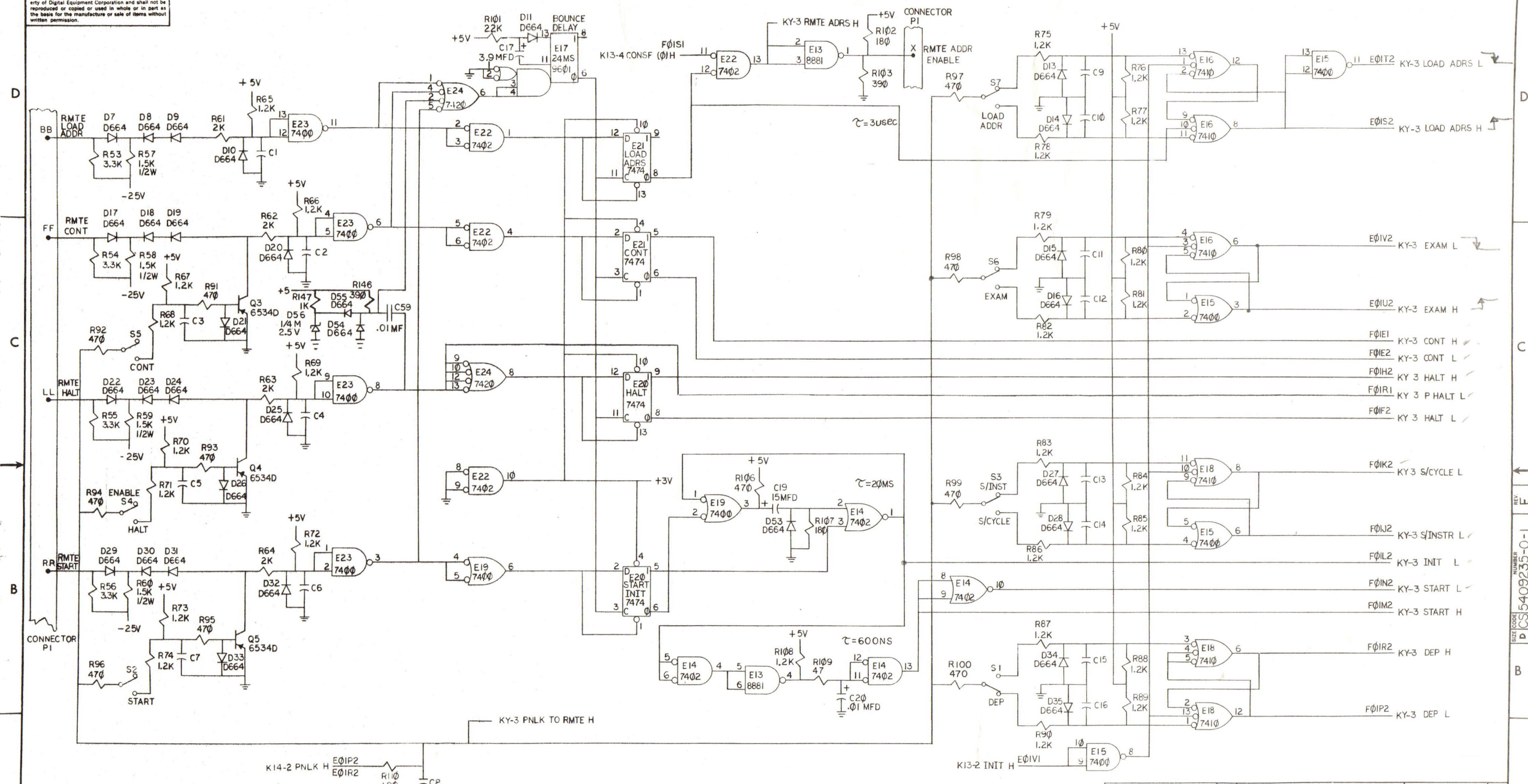


REV.	NO.	DATE	BY

DEC FORM NO. 010 1024

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	TITLE	
DIMENSION IN INCHES	A. Raymond	3-10-71	CONSOLE PANEL	
TOLERANCES	ENG.	DATE	LAMPS	
DECIMALS FRACTIONS ANGLES		3-12-71	KY-2	
± .005 ± 1/64 ± 0°30'	PRJ. ENG.	DATE	SIZE CODE NUMBER REV.	
FINAL SURFACE QUALITY		3-12-71	DCS 5409235-0-1 E	
REMOVE BURRS AND BREAK SHARP CORNERS	PROD.	DATE	SCALE NONE	
MATERIAL	NEXT HIGHER ASSY		SHEET 2 OF 4	
++	A-ML-KY11-C		DIST.	
FINISH				

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.	NO.

DEC FORM NO. 102A

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

