

**PC8-E
HSPT reader/punch
engineering drawings**

digital equipment corporation • maynard, massachusetts

1st Printing July 1971
2nd Printing December 1971

Copyright © 1971 by Digital Equipment Corporation

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

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

DIC	PDP
ELIPLTOP	LOCAL
DIGITAL	COMPUTER LAB

MASTER DRAWING LIST

MAINTENANCE MANUALS		UNIT VARIATIONS									
		1	2	3	4	5	6	7	8	9	10
NO.	TITLE	1	2	3	4	5	6	7	8	9	10
PC8-E	HIGH SPEED RDR/PUN	X	X	X	X	X	X	X	X	X	X

USED ON OPTIONS	
PDP6/E	

REV.	DATE	CHG. NO.	APP'D.	REVISIONS
5/71	PC8-2	I. K.	<i>[Signature]</i>	
1/72	PC8-3			
4/72	PC8-4			
6/72	PC8-5			
10/72	PC8-6			

DRN.	NAME	DATE	TITLE	SIZE CODE	NUMBER	REV.
L. MARSH	1/71	DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	HIGH SPEED READER AND PUN (50 - 7)	A ML	PC8-E	E
K. GUJACK	3/71					
L. MARSH	3/71					
L. MARSH	3/71					
L. SAYLOR	3/71					

DRA 131
Dec 16-(325)-1048-1-N471

PC8-E	PRINT SET	DWG. NO.	REV. NO. OF LET. SHEETS	OPTION NO.
C		A-ML-PC04-0	# 1	PC04
X		E-CS-N840-0-1	# 3	
X		D-UA BC08K-0-0	# 1	BC08K
X		A-SP-PC8-PA-1	3	
X		A-SP-PC8-E-2	1	
X		A-SP-7665129-0-0	2	
X		A-SP-7665138-0-0	2	
		LIBKIT-EE-PC9E	REF	
X		A-PL-PC8E-0-0	1	
X		A-AL-PC8-E-3	B 1	

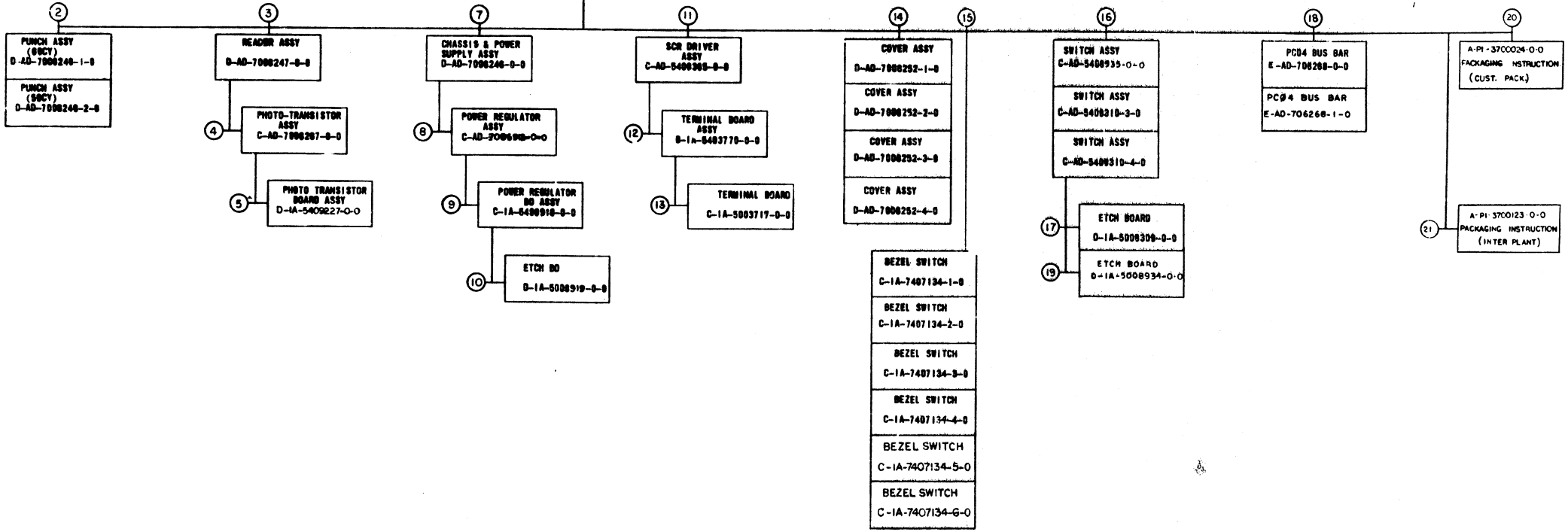
TITLE	SHEET	2	OF	2	SIZE CODE	NUMBER	REV
HIGH SPEED READER & PUNCH (50 - 60 HZ)					A ML	PC8-E	E

DRA 132
DEC 16-(325)-1048-1-N471

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 a basis for the manufacture or sale of items without permission.

MODEL	DESCRIPTION	C.Y.	COMPOSITION																	
			FIND NUMBER																	
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
PC04-B, B04 BL	PUNCH & READER	80	-1	X	X	X														
PC04-BA, BC & BM	PUNCH & READER	50	-2	X	X	X		X	X	X	X									
PC04-C	PUNCH, READER, DRIVER	80	-1	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X
PC04-CA	PUNCH, READER, DRIVER	50	-2	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X
PC04-PA PL	PUNCH	80	-1					X	X	X	X									
PC04-PA & PM	PUNCH	50	-2					X	X	X	X									
PC04-R & RB	READER			X	X	X		X	X	X	X									

NOTES:
 1 THE KEY TO SYMBOLS IN THE FIND NO. COLUMNS IN FIND BLOCK 1 IS:
 AN "X" MEANS THE ASSY IS USED.
 A BLANK SPACE MEANS THE ASSY IS NOT USED.
 A DASH AND NUMBER (-1, -2 ETC) MEANS THE ASSY IS USED AND THAT VARIATION OF THE ASSY HAVING THAT PARTICULAR DASH NUMBER AS PART OF ITS DWG. NUMBER IS USED.
 EXAMPLE:
 A PUNCH MODEL FROM FIND COLUMN 14 USES A (-2) OR A D-AD-7006252-2-0 COVER ASSY



UNIT ASSY. DWG. NO. D-UA-PC04-0-0

REV.	CHG. NO.	REV.	DATE	BY	CHK.
1	PC04-00006	A	10/10/69	J. Beckner	J. Beckner
2	PC04-00009	B	10/10/69	J. Beckner	J. Beckner
3	PC04-00011	C	10/10/69	J. Beckner	J. Beckner
4	PC04-00013	D	11/11/69	G. Beckner	G. Beckner
5	PC04-00036	H	11/11/69	G. Beckner	G. Beckner
6	PC04-00014	I	11/11/69	J. Beckner	J. Beckner
7	PC04-00022	K	11/11/69	J. Beckner	J. Beckner
8	PC04-00041	P	11/11/69	J. Beckner	J. Beckner
9	PC04-00044	R	11/11/69	J. Beckner	J. Beckner
10	PC04-00046	S	11/11/69	J. Beckner	J. Beckner
11	PC04-00051	T	11/11/69	J. Beckner	J. Beckner
12	PC04-00054	V	11/11/69	J. Beckner	J. Beckner
13	PC04-00057	W	11/11/69	J. Beckner	J. Beckner
14	PC04-00058	X	11/11/69	J. Beckner	J. Beckner
15	PC04-00059	Y	11/11/69	J. Beckner	J. Beckner
16	PC04-00060	Z	11/11/69	J. Beckner	J. Beckner

QTY.	DESCRIPTION	PART NO.	ITEM NO.
	PARTS LIST		
	digital EQUIPMENT CORPORATION		
	DRAWING INDEX LIST, PC04		
	SCALE: 1 OF 2		
	SHEET: 1 OF 2		

8 7 6 5 4 3 2 1
 D I D I P C 0 4 - 0 - 1
 Z

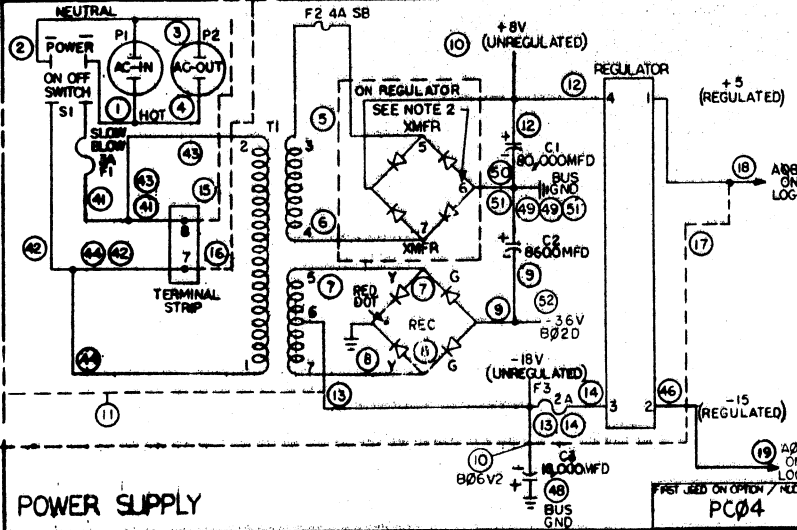
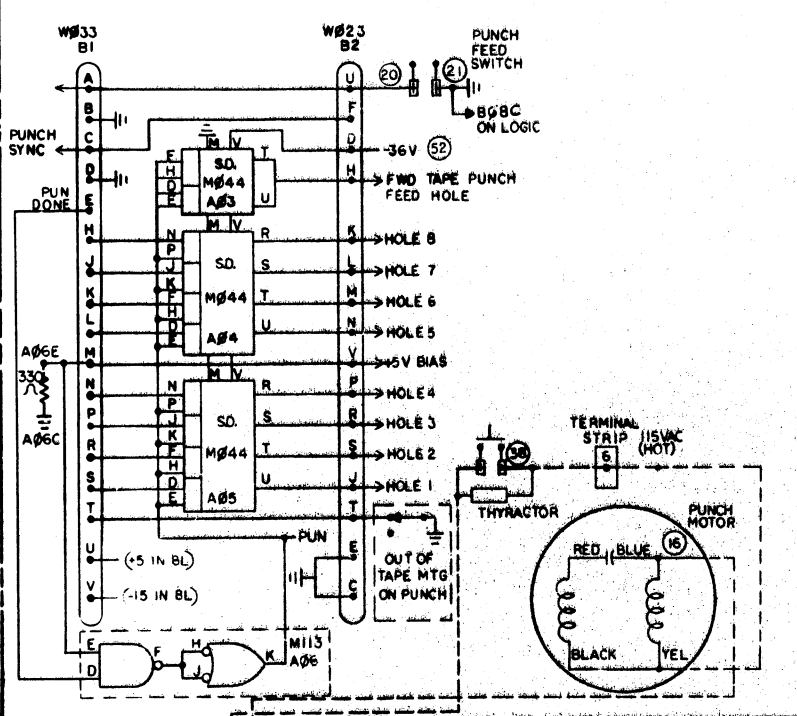
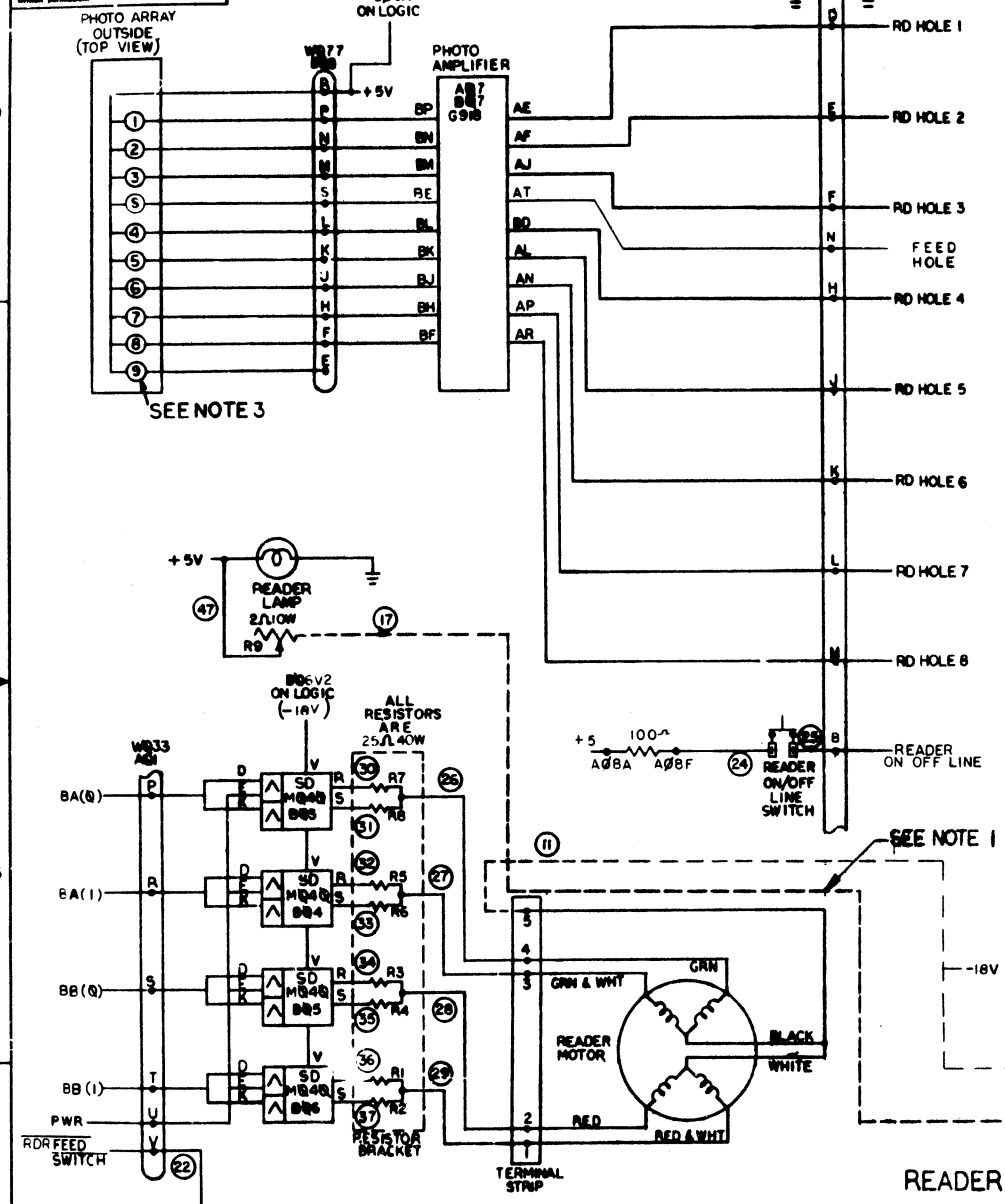
MECHANICAL				DEPT USAGE				MECHANICAL				DEPT USAGE				ELECTRICAL				DEPT USAGE				
FINO	DESCRIPTION	PART NO	PROD	CUST	F/C	FINO	DESCRIPTION	PART NO	PROD	CUST	F/C	FINO	DESCRIPTION	PART NO	PROD	CUST	F/C	FINO	DESCRIPTION	PART NO	PROD	CUST	F/C	
4	PCB4- READER & PUNCH (PL)	A-PL-PC84-B-B				4	PHOTO TRANSISTOR ASSY	C-1A-7008267-0-0				16	SWITCH ASSY	C-AD-5408945-0-0				1	PAPER TAPE READER	A-ME-PC04-0				
	CHAD BOX	B-MD-7405300-0-0					TEST SCHEMATIC	D-CS-7406267-1-1					SWITCH ASSY	C-AD-5408310-3-0						A-ME-PC04-0				
	TAPE CONTAINER	D-MD-7407131-0-0					TEST PROCEDURE	A-SP-7406267-1-1					SWITCH ASSY	C-AD-5408310-4-0						A-ME-PC04-0				
	I/O CABLE ASSY	C-1A-7008261-0-0					PHOTO TRANSISTOR BD ASSY	D-1A-5409227-0-0					SWITCH ASSY (PL)	A-PL-5409310-0-0						A-ME-PC04-0				
	PCB4-PA PUNCH	D-AD-PC84-PA-B										BAR SPACER SW. BD.	B-WD-7407175-0-0							A-ME-PC04-0				
	BRKT. RESISTOR	C-MD-7405642-0-0																		A-ME-PC04-0				
	SCR MODULE RETAINER	C-1A-7405642-0-0																		A-ME-PC04-0				
	HELIX DOWN BAR	C-1A-7408339-7-0																		A-ME-PC04-0				
	PACKAGING INSTRUCTIONS	A-PI-3700024-0-0																		A-ME-PC04-0				
	PCD HEADLINE PUNCH	D-AD-7008248-1-0																		A-ME-PC04-0				
	PUNCH ASSY (SOCT)	D-AD-7008248-2-0																		A-ME-PC04-0				
	PUNCH ASSY (PL)	A-PL-7008248-0-0																		A-ME-PC04-0				
	CHAD TUBE	B-MD-7407348-0-0																		A-ME-PC04-0				
	PUNCH MTC CHASSIS	D-1A-7407071-0-0																		A-ME-PC04-0				
	HINGE	B-MD-7407071-0-0																		A-ME-PC04-0				
	BRKT FEED	D-MD-7408008-0-0																		A-ME-PC04-0				
	TAPE GUIDE	D-1A-7407171-0-0																		A-ME-PC04-0				
	TAPE DEPRESSOR	D-SC-1209925-0-0																		A-ME-PC04-0				
	PLLY (SOCT)	B-MD-7408172-0-0																		A-ME-PC04-0				
	PLLY (SOCT)	B-MD-7408088-1-0																		A-ME-PC04-0				
	PLLY (SOCT)	B-MD-7408088-2-0																		A-ME-PC04-0				
	TORSION SPRING	C-SC-1209924-0-0																		A-ME-PC04-0				
	READER ASSY	D-AD-7008247-0-0																		A-ME-PC04-0				
	READER ASSY (PL)	A-PL-7008247-0-0																		A-ME-PC04-0				
	TAPE PATH GUIDE	D-MD-7407078-0-0																		A-ME-PC04-0				
	READER PLATE	D-MD-7407065-0-0																		A-ME-PC04-0				
	BLDCI READER	B-MD-7407118-0-0																		A-ME-PC04-0				
	SHAFT READER PLATE	B-MD-7407120-0-0																		A-ME-PC04-0				
	ARM SPRING	B-MD-7407118-0-0																		A-ME-PC04-0				
	SPRING BULB	A-MD-7407118-0-0																		A-ME-PC04-0				
	DEPRESSOR TAPE	C-MD-7407121-0-0																		A-ME-PC04-0				
	BRKT TAPE HOLD DOWN	C-MD-7407144-0-0																		A-ME-PC04-0				
	GLO SYN MOTOR REWORK	B-1A-7407684-0-0																		A-ME-PC04-0				
	SHIM	B-MD-7407800-0-0																		A-ME-PC04-0				
	LENS	B-MD-7404989-0-0																		A-ME-PC04-0				

1. JAMES
 2. JAMES
 3. JAMES
 4. JAMES
 5. JAMES
 6. JAMES
 7. JAMES
 8. JAMES

QTY	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED	DATE	digital EQUIPMENT CORPORATION	
TOLERANCES	DATE	DRAWING INDEX	
DEFINIAL FRACTIONS ANGLES	DATE	LIST PC04	
FINAL BREAK QUALITY	DATE		
REMOVE DIMS AND BREAK DIMS	DATE		
FINISH	SCALE	SIZE CODE	NUMBER
	2 OF 2	DID PC04-0-1	REV 2
SHEET		DIST	

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z
AA
AB
AC
AD
AE
AF
AG
AH
AI
AJ
AK
AL
AM
AN
AO
AP
AQ
AR
AS
AT
AU
AV
AW
AX
AY
AZ
BA
BB
BC
BD
BE
BF
BG
BH
BI
BJ
BK
BL
BM
BN
BO
BP
BQ
BR
BS
BT
BU
BV
BW
BX
BY
BZ
CA
CB
CC
CD
CE
CF
CG
CH
CI
CJ
CK
CL
CM
CN
CO
CP
CQ
CR
CS
CT
CU
CV
CW
CX
CY
CZ
DA
DB
DC
DD
DE
DF
DG
DH
DI
DJ
DK
DL
DM
DN
DO
DP
DQ
DR
DS
DT
DU
DV
DW
DX
DY
DZ
EA
EB
EC
ED
EE
EF
EG
EH
EI
EJ
EK
EL
EM
EN
EO
EP
EQ
ER
ES
ET
EU
EV
EW
EX
EY
EZ
FA
FB
FC
FD
FE
FF
FG
FH
FI
FJ
FK
FL
FM
FN
FO
FP
FQ
FR
FS
FT
FU
FV
FW
FX
FY
FZ
GA
GB
GC
GD
GE
GF
GG
GH
GI
GJ
GK
GL
GM
GN
GO
GP
GQ
GR
GS
GT
GU
GV
GW
GX
GY
GZ
HA
HB
HC
HD
HE
HF
HG
HH
HI
HJ
HK
HL
HM
HN
HO
HP
HQ
HR
HS
HT
HU
HV
HW
HX
HY
HZ
IA
IB
IC
ID
IE
IF
IG
IH
II
IJ
IK
IL
IM
IN
IO
IP
IQ
IR
IS
IT
IU
IV
IW
IX
IY
IZ
JA
JB
JC
JD
JE
JF
JG
JH
JI
JJ
JK
JL
JM
JN
JO
JP
JQ
JR
JS
JT
JU
JV
JW
JX
JY
JZ
KA
KB
KC
KD
KE
KF
KG
KH
KI
KJ
KK
KL
KM
KN
KO
KP
KQ
KR
KS
KT
KU
KV
KW
KX
KY
KZ
LA
LB
LC
LD
LE
LF
LG
LH
LI
LJ
LK
LL
LM
LN
LO
LP
LQ
LR
LS
LT
LU
LV
LW
LX
LY
LZ
MA
MB
MC
MD
ME
MF
MG
MH
MI
MJ
MK
ML
MM
MN
MO
MP
MQ
MR
MS
MT
MU
MV
MW
MX
MY
MZ
NA
NB
NC
ND
NE
NF
NG
NH
NI
NJ
NK
NL
NM
NN
NO
NP
NQ
NR
NS
NT
NU
NV
NW
NX
NY
NZ
OA
OB
OC
OD
OE
OF
OG
OH
OI
OJ
OK
OL
OM
ON
OO
OP
OQ
OR
OS
OT
OU
OV
OW
OX
OY
OZ
PA
PB
PC
PD
PE
PF
PG
PH
PI
PJ
PK
PL
PM
PN
PO
PP
PQ
PR
PS
PT
PU
PV
PW
PX
PY
PZ
QA
QB
QC
QD
QE
QF
QG
QH
QI
QJ
QK
QL
QM
QN
QO
QP
QQ
QR
QS
QT
QU
QV
QW
QX
QY
QZ
RA
RB
RC
RD
RE
RF
RG
RH
RI
RJ
RK
RL
RM
RN
RO
RP
RQ
RR
RS
RT
RU
RV
RW
RX
RY
RZ
SA
SB
SC
SD
SE
SF
SG
SH
SI
SJ
SK
SL
SM
SN
SO
SP
SQ
SR
SS
ST
SU
SV
SW
SX
SY
SZ
TA
TB
TC
TD
TE
TF
TG
TH
TI
TJ
TK
TL
TM
TN
TO
TP
TQ
TR
TS
TT
TU
TV
TW
TX
TY
TZ
UA
UB
UC
UD
UE
UF
UG
UH
UI
UJ
UK
UL
UM
UN
UO
UP
UQ
UR
US
UT
UU
UV
UW
UX
UY
UZ
VA
VB
VC
VD
VE
VF
VG
VH
VI
VJ
VK
VL
VM
VN
VO
VP
VQ
VR
VS
VT
VU
VV
VW
VX
VY
VZ
WA
WB
WC
WD
WE
WF
WG
WH
WI
WJ
WK
WL
WM
WN
WO
WP
WQ
WR
WS
WT
WU
WV
WW
WX
WY
WZ
XA
XB
XC
XD
XE
XF
XG
XH
XI
XJ
XK
XL
XM
XN
XO
XP
XQ
XR
XS
XT
XU
XV
XW
XX
XY
XZ
YA
YB
YC
YD
YE
YF
YG
YH
YI
YJ
YK
YL
YM
YN
YO
YP
YQ
YR
YS
YT
YU
YV
YW
YX
YY
YZ
ZA
ZB
ZC
ZD
ZE
ZF
ZG
ZH
ZI
ZJ
ZK
ZL
ZM
ZN
ZO
ZP
ZQ
ZR
ZS
ZT
ZU
ZV
ZW
ZX
ZY
ZZ

The ground and identification, locate, use the proper type of Digital Equipment Corporation and should not be reproduced or copied in whole or in part without the express written permission.



- NOTES:**
1. DOTTED LINES INDICATE POSSIBLE CONNECTIONS BETWEEN POWER SUPPLY, READER AND PUNCH.
 2. THE UNCIRCLED NUMBERS (THRU 7) REFER TO CONNECTIONS ON REGULATOR BOARD.
 3. THIS PHOTO TRANSISTOR IS NOT USED.
 4. CIRCLED NUMBERS (1 THRU 46) ARE WIRE NUMBERS. SEE TABLE.

WIRE TABLE

WIRE NO	COLOR	WIRE NO	COLOR
1	RED	24	WHITE-YELLOW
2	WHITE	25	BROWN
3	WHITE	26	WHITE-BROWN
4	RED	27	WHITE-ORANGE
5	ORANGE	28	WHITE-YELLOW
6	GRAY-BLUE	29	WHITE-VIOLET
7	GRAY-WHITE	30	BROWN
8	YELLOW	31	BROWN
9	BLUE	32	ORANGE
10	GRN	33	ORANGE
11	GRN	34	YELLOW
12	GRAY-VIOLET	35	YELLOW
13	GREEN	36	VIOLET
14	GREEN	37	VIOLET
15	RED	38	RED
16	WHITE	39	
17	GRAY-RED	40	
18	GRAY-RED	41	RED
19	GRAY-YELLOW	42	WHITE
20	WHITE	43	RED
21	BLACK	44	WHITE
22	YELLOW		
23	WHITE-BLACK	46	GRAY-YELLOW
48 (THRU) 51	BLACK	47	GRAY-RED
52	BLUE		

LEGEND

CONN ECTIONS	MODEL	PC04 PL	PC04 RB
PWR SUP TO READER	PC04 3L PC04 8M		SAME AS PC04-BL PC04-8M
PWR SUP TO PUNCH	30 TO PUNCH CABLE B020 115V (HOT) TO PUNCH SW 115 (NEUTRAL) TO PUNCH MOTOR		SAME AS PC04 BL PC04 8M

PC04

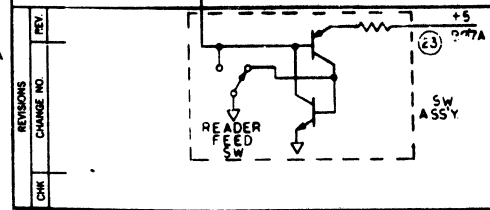
QTY.	DESCRIPTION	PART NO.	ITEM NO.

POWER AND CONTROL SCHEMATIC DIAGRAM (8L, 8E, 8M, 8F)

A-ML-PC04

SCALE NONE

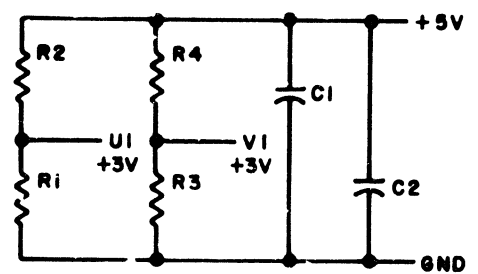
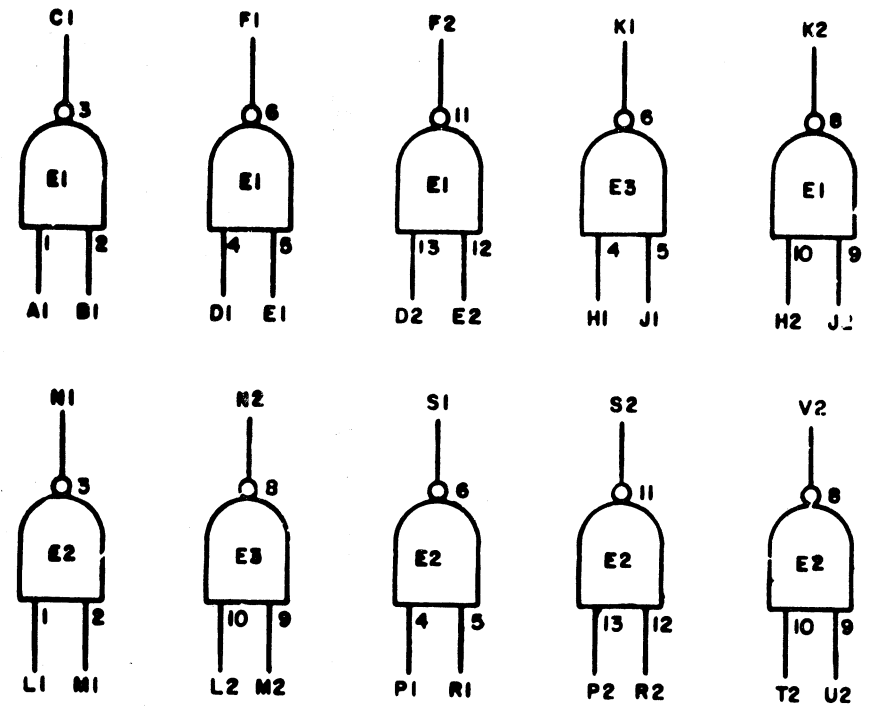
SHEET 3 OF 3



REV C
 NUMBER MI13-0-1
 CS B
 SIZE 8

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY
 COPYRIGHT 1967 BY DIGITAL EQUIPMENT CORPORATION

+5V ——— A2
 NOT USED -15V ——— B2
 GND ——— C2, T1



NOTES:
 PIN 7 ON EACH IC - GND
 PIN 14 ON EACH IC = +5V

E1 THRU E3	INTEGRATED CKT. DEC7400N	1905575
R1 AND R3	RES. 750 1/4W 5% CC	1301401
R2 AND R4	RES. 330 1/4W 10% CC	1300293
C1 AND C2	CAP. .01MFD 100V 20% DISC	1001610
	PARTS LIST	A-PL-MI13-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

REV	NO	DATE
1	1	11-67
2	2	11-67
3	3	11-67
4	4	11-67
5	5	11-67

DRN	DATE
CHK'D	DATE
ENG	DATE
PRD	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

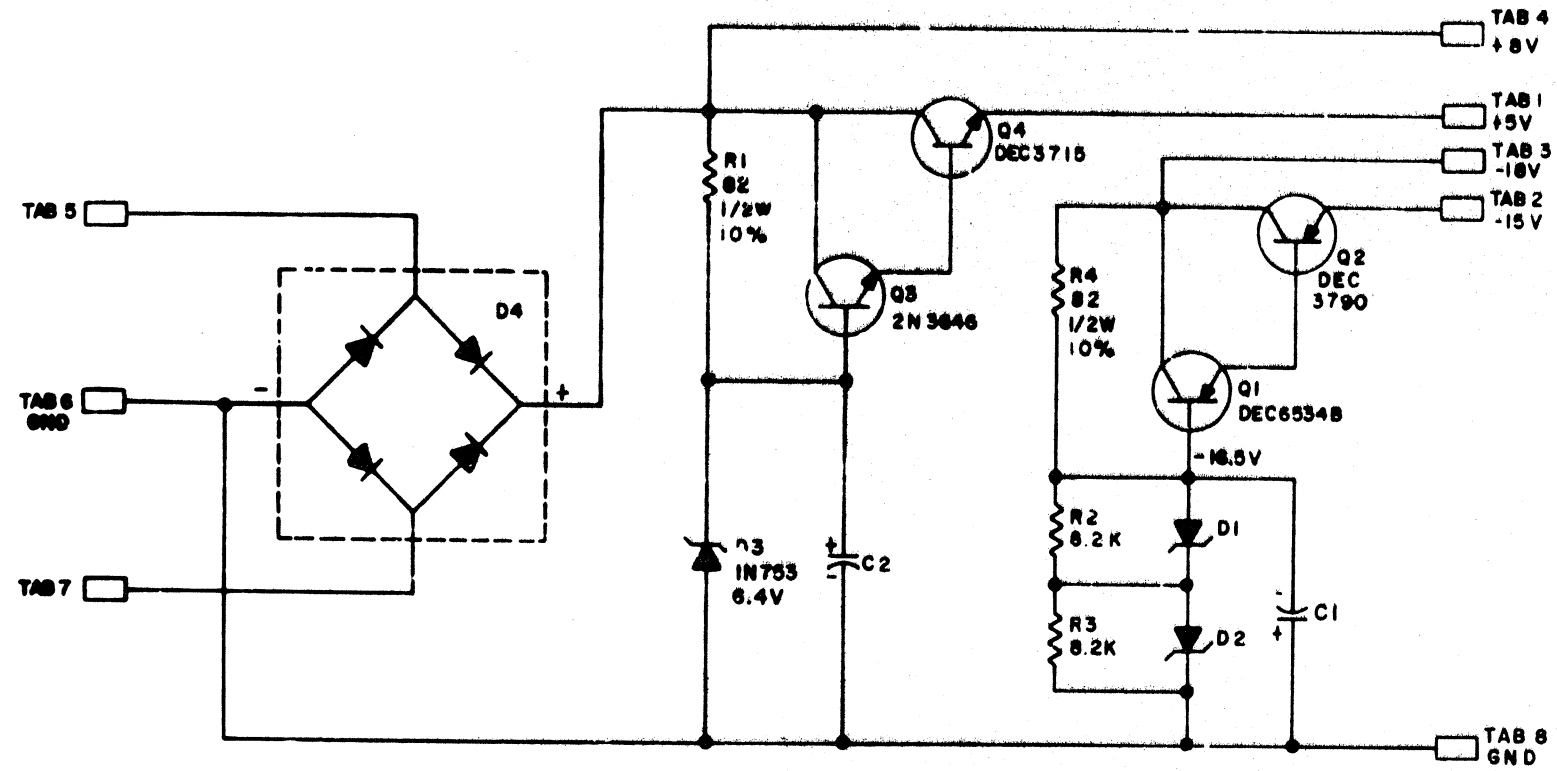
EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE			
10-2 INPUT NAND GATES MI13.			
SIZE	CODE	NUMBER	REV.
B	CS	MI13-0-1	C
PRINTED CIRCUIT REV			D

↑ PINK DIS. 12/1/67

REV C
 NUMBER 5408308-0-1
 SIZE B
 CODE CS

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES THE
 CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY
 COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION



UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE 0.05MFD 35V 20%
 DIODES ARE IN756A, 0.2V
 D4 IS MB400-3
 RESISTORS ARE 1/4W 5%
 TABS ARE AMP 41290

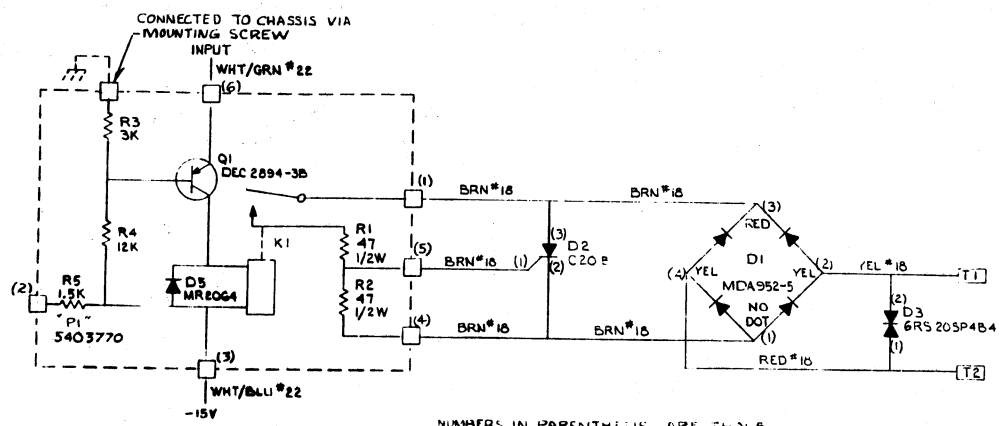
REV	REV	REV	REV	REV	REV	REV	REV	REV	REV

DATE	BY	DATE	BY

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EA	DEC	EA
IN753	6.4V	IN756A	0.2V
DEC3715	2N3646	DEC3790	2N3790
DEC6534B	2N3646	DEC6534B	2N3646

EQUIPMENT CORPORATION		MAYNARD, MASSACHUSETTS	
-----------------------	--	------------------------	--

TITLE PCO POWER SUPPLY REGULATOR 5408308			
SIZE B	CODE CS	NUMBER 5408308-0-1	REV C
PRINTED CIRCUIT REV. D			

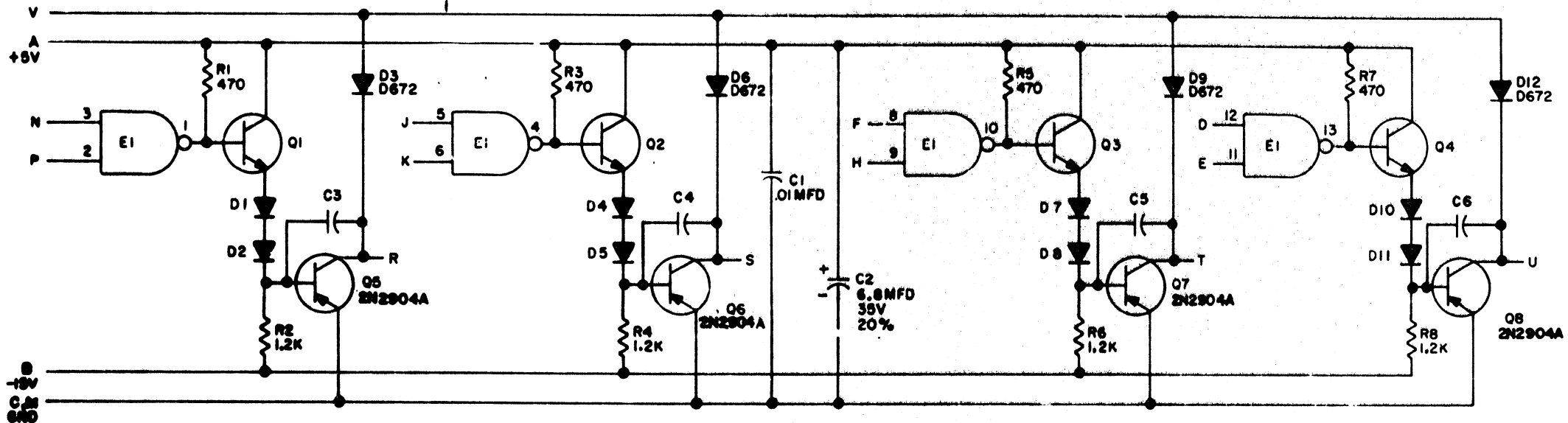


NUMBERS IN PARENTHESES ARE THOSE INDICATED IN CAD 5408385-0-1 AND NOT MARKED ON COMPONENTS

UNLESS OTHERWISE INDICATED:
 RESISTORS = 1/4W, 5%
 *T INDICATES MALE AMP FASTON TAB
 □ ETCH LAND FOR SOLDERING WIRES
 KI IS WHEELOCK 266-2A

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
DRN	DATE	DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
CHK'D	DATE	TITLE SCR DRIVER ASSY		
ENG	DATE			
PROJ. ENG.	DATE			
PROD.	DATE			
NEXT HIGHER ASSY				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	SCALE
SEMICONDUCTOR CONVERSION CHART				
CHK	CHANGE NO.	REV	REVISIONS	SIZE CODE NUMBER 5408385-0-1 REV. A
SHEET OF				DIST.

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION

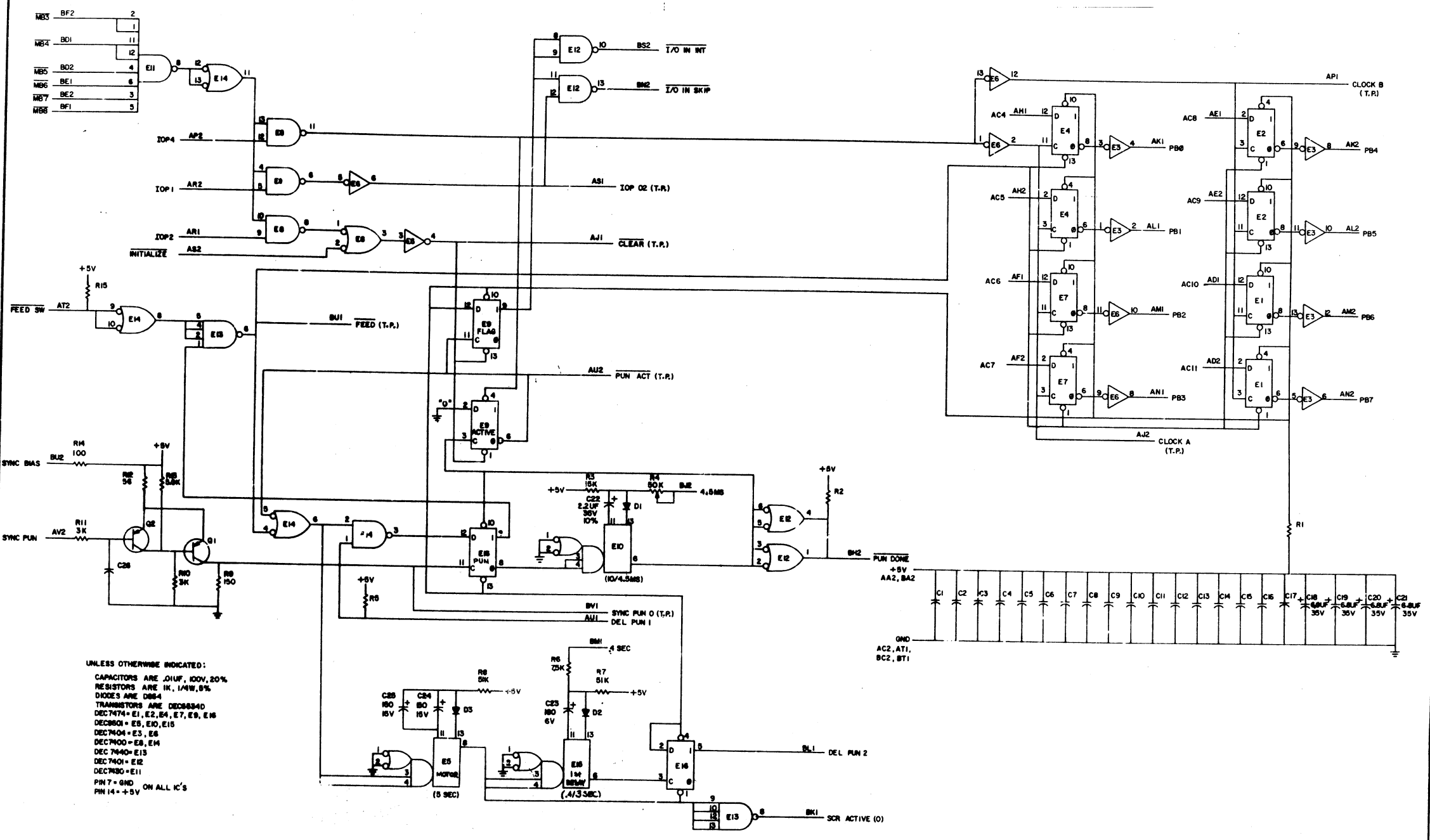


UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 10%
 DIODES ARE 9664
 E1 IS DEC7401N
 TRANSISTORS ARE DEC3009B
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 CAPACITORS ARE 100pF, 100V, 5%

REVISIONS CHG. NO. REV. DATE 1 1 1969 2 1 1969 3 1 1969	DRN. BUTLER DATE 4/23/69	TRANSISTOR & DIODE CONVERSION CHART					TITLE 4-100MA SOLENOID DRIVER MO44		
	CHG. NO. REV. DATE 1 1 1969 2 1 1969 3 1 1969	PROD. DATE	DEC D672 EIA IN3206	DEC 9664 EIA 2N2904	DEC 3009B EIA 2N3009		EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	SIZE B CODE CS	NUMBER MO44-0-1

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

X
 1-0-Q/J/W
 S3 0
 3002 J/LS

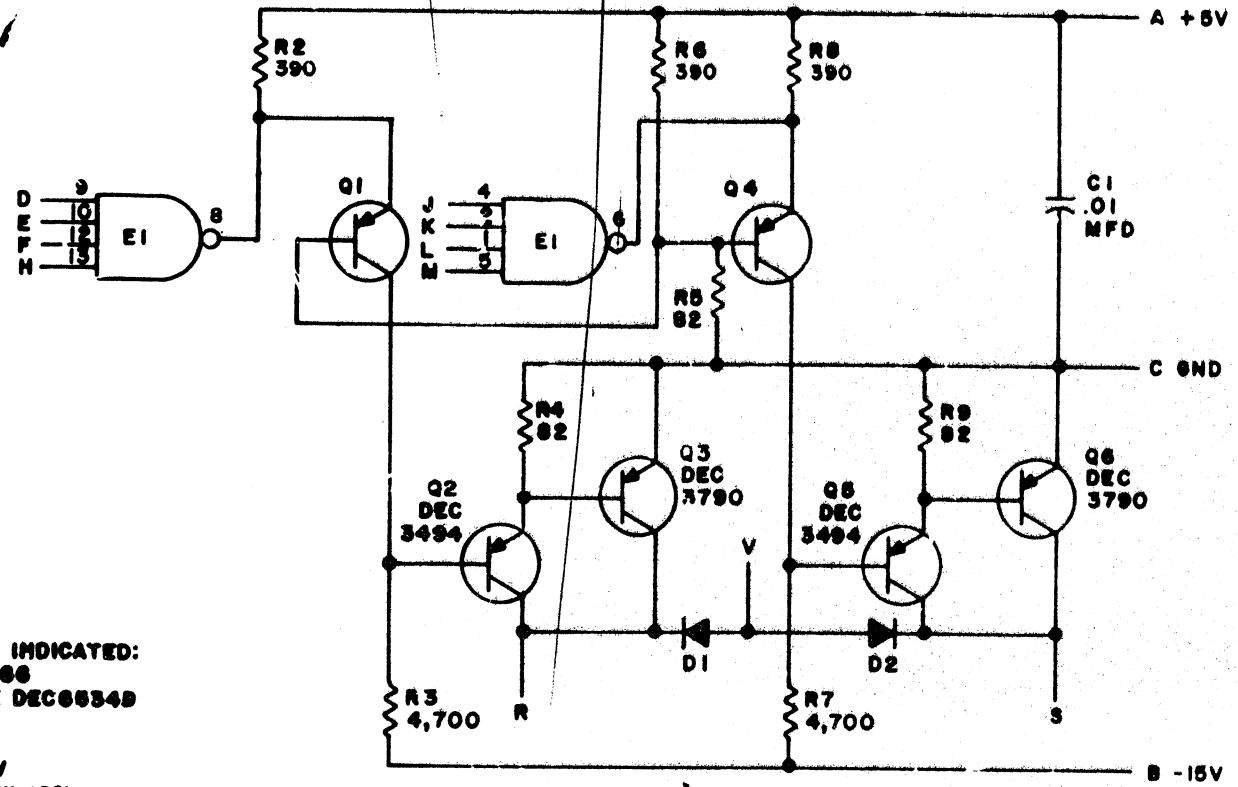


UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01UF, 100V, 20%
 RESISTORS ARE 1K, 1/4W, 5%
 DIODES ARE 1N4148
 TRANSISTORS ARE DEC28834D
 DEC7474 = E1, E2, E4, E7, E9, E16
 DEC2801 = E3, E10, E15
 DEC7404 = E5, E6
 DEC7400 = E8, E14
 DEC7400 = E13
 DEC7401 = E12
 DEC7430 = E11
 PIN 7 = GND ON ALL IC'S
 PIN 14 = +5V

TRANSISTOR & DIODE CONVERSION CHART				TITLE PUNCH CONTROL M710	
DEC	SI	DEC	SI	REV	NUMBER
					M710-0-1
EQUIPMENT CORPORATION				REV	K
MAYFORD, MASSACHUSETTS				PRINTED CIRCUIT REV.	

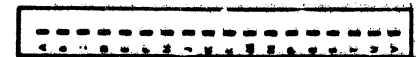
THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1967 BY DIGITAL EQUIPMENT CORPORATION

REV E
 NUMBER M040-0-1
 CS B
 CODE 3003
 SIZE 3216



UNLESS OTHERWISE INDICATED:
 DIODES ARE MR2066
 TRANSISTORS ARE DEC6634B
 E1 IS DEC7420N
 PIN 7 ON IC = GND
 PIN 14 ON IC = +5V
 RESISTORS ARE 1/4W, 10%

PARTS LIST A-PL-M040-0-0



REVISIONS	CHK	NO	REV
	00001		E
	00002		

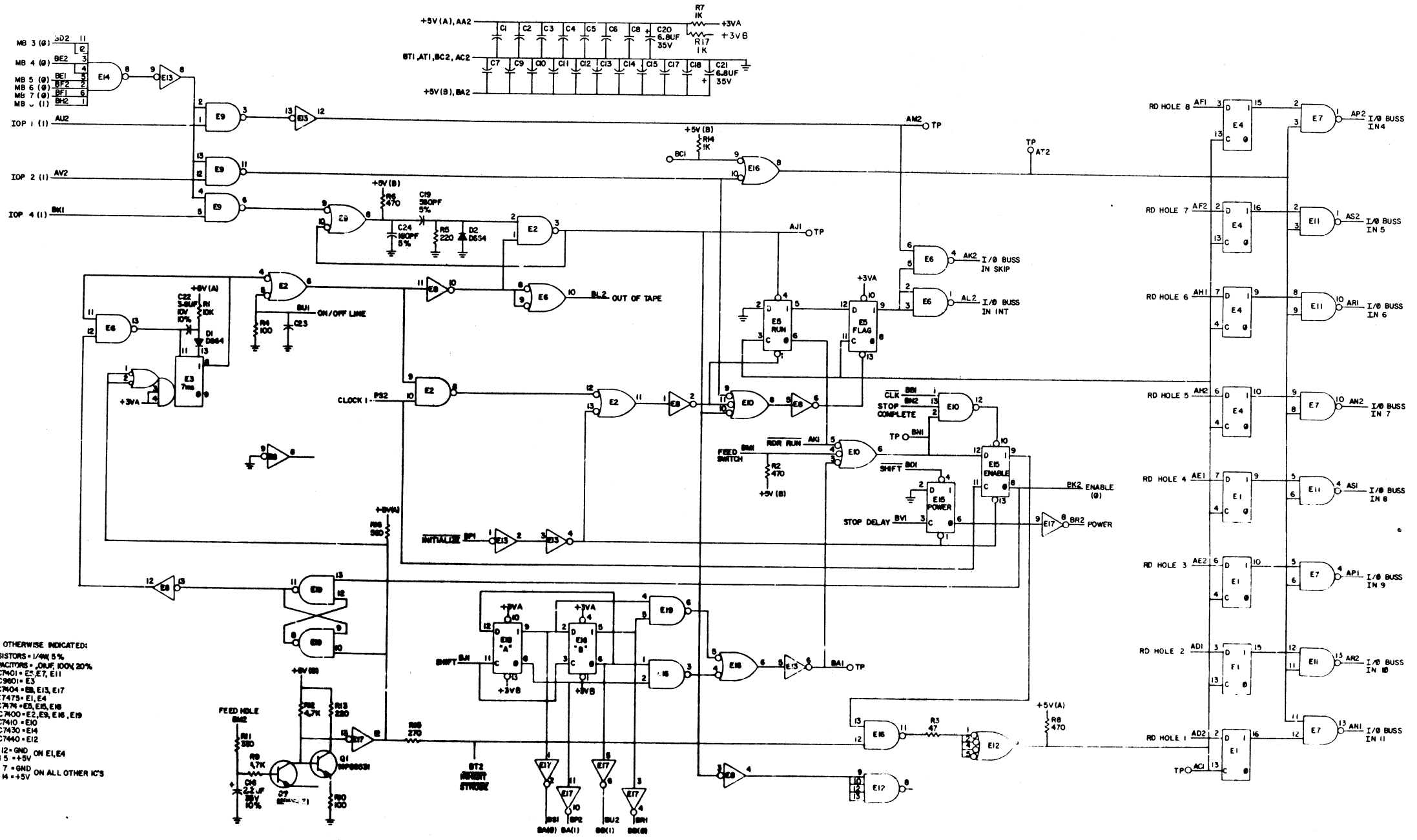
DRN	DATE
RD. Miller	2-17-67
CHK'D	DATE
	9/22/67
DATE	DATE
7/19/67	
PROD	DATE
4	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3494	SAME		
DEC3790	2N3790		
DEC6634B	MP6634		
D862	1N245		
MR2066	1N4003		

EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE			
SOLENOID DRIVER M040			
SIZE	CODE	NUMBER	REV
B	CS	M040-0-1	E
PRINTED CIRCUIT REV.			E

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1971 BY DIGITAL EQUIPMENT CORPORATION.



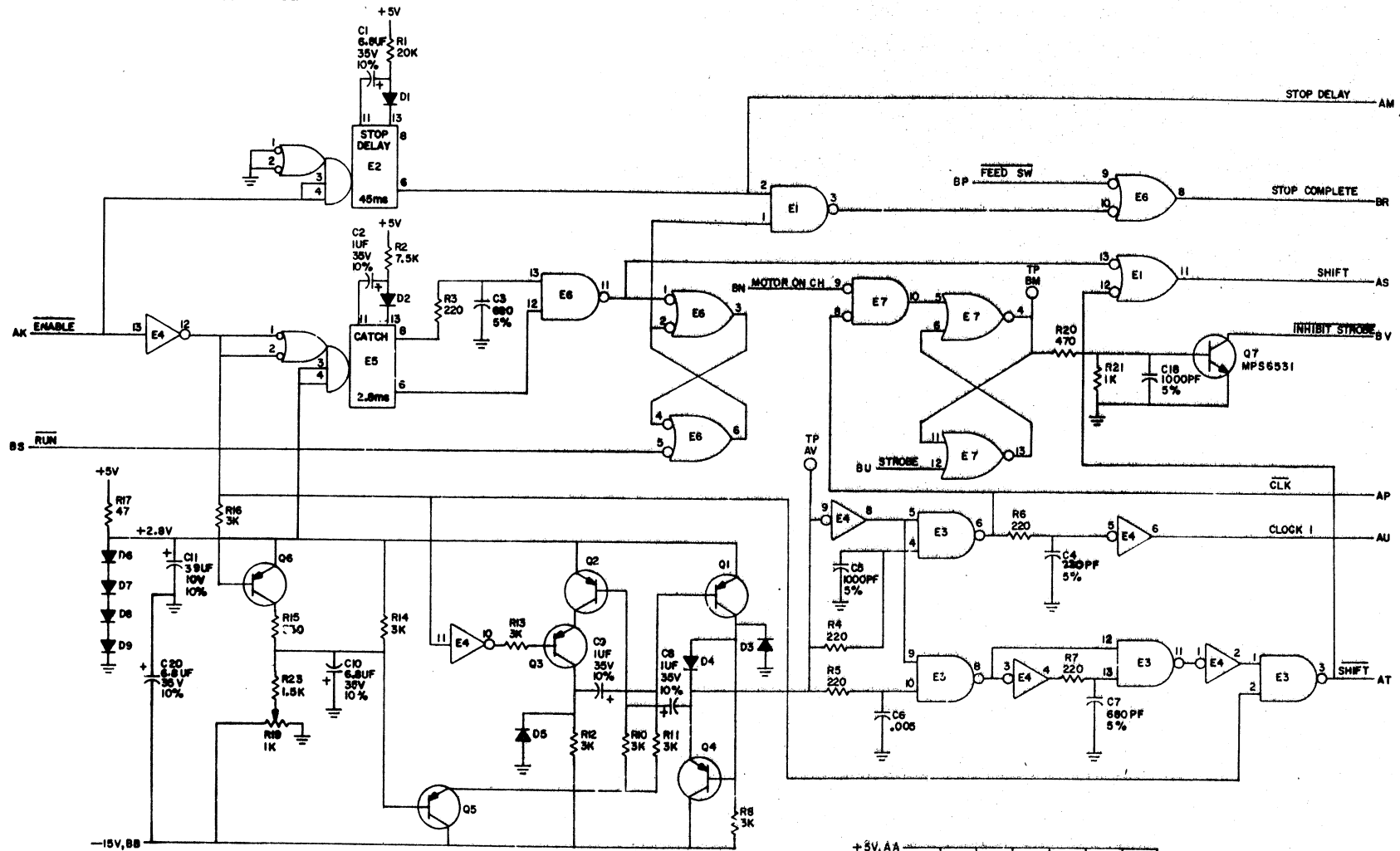
UNLESS OTHERWISE INDICATED:
 RESISTORS = 1/4W 5%
 CAPACITORS = .01UF, 100X 20%
 DEC7401 = E5, E7, E11
 DEC9801 = E3
 DEC7404 = E8, E13, E17
 DEC7475 = E1, E4
 DEC7476 = E8, E9, E16
 DEC7400 = E2, E3, E16, E19
 DEC7410 = E10
 DEC7430 = E14
 DEC7440 = E12
 PIN 12 = GND ON E1, E4
 PIN 5 = +5V
 PIN 7 = GND ON ALL OTHER IC'S
 PIN 14 = +5V



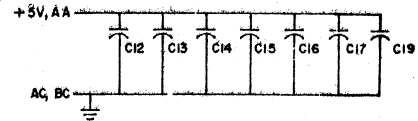
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
MP35531	MP35531	2444	1R3409

TITLE			
REV	DATE	BY	CHK
1	1/11/71	DEC	CS
EQUIPMENT CORPORATION			
PRINTED CIRCUIT REV		NUMBER	REV
		M7050-0-1	E

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1967 BY DIGITAL EQUIPMENT CORPORATION



UNLESS OTHERWISE INDICATED:
 TRANSISTORS = DEC6834D
 DIODES = D644
 RESISTORS = 1/4W, 5%
 CAPACITORS = .01UF, 100V, 20%
 E1, E3, E6 = DEC7400
 E4 = DEC7404
 E2, E5 = DEC9601
 PIN 7 = GND ON ALL IC'S
 PIN 14 = +5V ON ALL IC'S
 E7 = DEC7402



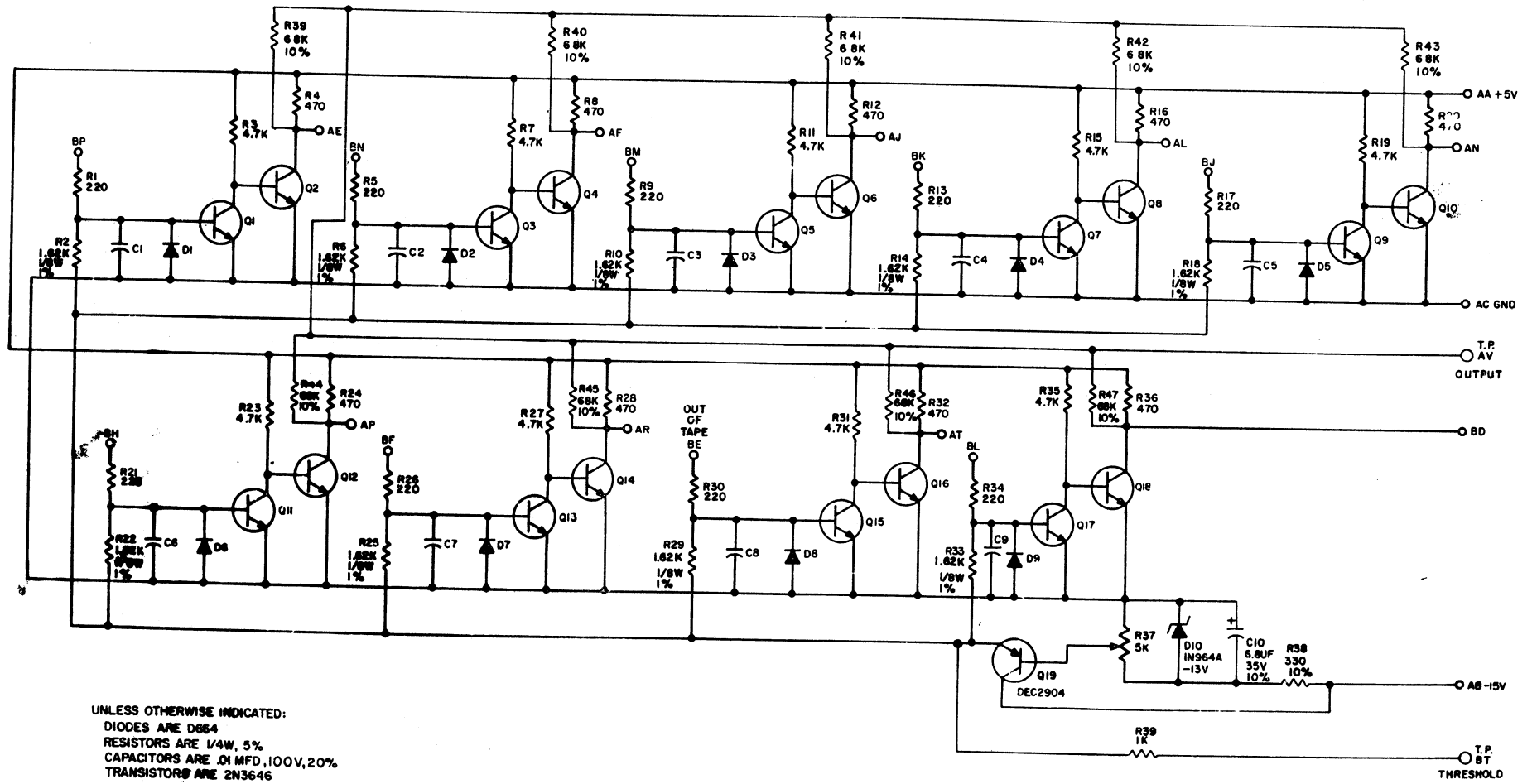
REV. L
 NUMBER M715-0-1
 SIZE CODE C CS

REV.	CHG. NO.	REV.
1	00002	E
2	00005	K
3	00008	M
4	00009	N
5	00007	L
6	00008	L

DRN	M. MALLER	DATE	10/16/67	TRANSISTOR & DIODE CONVERSION CHART			
DATE	DEC 28/67	DEC 28/67	DEC 28/67	DEC 28/67	DEC 28/67	DEC 28/67	DEC 28/67
ENG.	R. SILVERMAN	DATE	11/2/67	DEC 6834D	MP 6834	IN758	SAME
ENG.	R. S. BOGSE	DATE	11/2/67	D644	IN758		
PROD.		DATE		DEC 6831	MP 6831		

TITLE READER CLOCK M715			
SIZE CODE C CS	NUMBER M715-0-1	REV. L	
EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
PRINTED CIRCUIT REV. F			

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION



UNLESS OTHERWISE INDICATED:
 DIODES ARE D664
 RESISTORS ARE 1/4W, 5%
 CAPACITORS ARE .01 MFD, 100V, 20%
 TRANSISTORS ARE 2N3646
 O INDICATES TEST POINT

REVISIONS	CHK	CHG	NO.	REV.

DRN	REVISED	DATE	4/1/69
CHK'D		DATE	6/1/69
ENG.		DATE	6/1/69
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
2N3646	2N3009	IN964A -13V	SAME
D664	IN3306	DEC2904	2N1132



TITLE				PHOTO TRANSISTOR AMPLIFIER G918			
SIZE	CODE	NUMBER	REV.	SIZE	CODE	NUMBER	REV.
C	CS	G918-0-1	B	C	CS	G918-0-1	B
PRINTED CIRCUIT REV.				D			

SIZE CODE NUMBER REV.
 C CS G918-0-1 B

Dimensions and specifications shown are the standard for the equipment and shall not be used for the manufacture of parts or items without the permission of Digital Equipment Corporation.

NOTES:
 1. G918 REVISION MUST BE THE CIRCUIT SCHEMATIC, DETCHED BOARD OF HIGHER.
 2. FOR SEPARATION

1	2	3	4	5	6	7	8
WC77					W512	G918	W512
PUNCH CONTROL CABLE					PHOTO AMPLIFIER		PHOTO AMPLIFIER
W077	W023	W044	W044	W044	W044	W044	W077
PUNCH CONTROL CABLE					PHOTO AMPLIFIER		PHOTO AMPLIFIER

PC04-B-BA*-C-CA*
 (7006268-1; PDP-8/S; K10)

1	2	3	4	5	6	7	8
W077	W023						
PUNCH CONTROL CABLE							

PC04-P-PA*
 (SEE E-AD-7006268-0-0 WITH NOTE 4; PDRP-8/S)

1	2	3	4	5	6	7	8
W077					W512	G918	W512
PUNCH CONTROL CABLE					PHOTO AMPLIFIER		PHOTO AMPLIFIER
	W044	W044	W044	W044			W077
					PHOTO AMPLIFIER		PHOTO AMPLIFIER

PC04-R
 (SEE E-AD-7006268-1-0 WITH NOTE 4; PDRP-8/S)

1	2	3	4	5	6	7	8
	W077					G918	
W077	W023	W044	W044	W044	W044	W044	W077
PUNCH CONTROL CABLE							PHOTO AMPLIFIER

PC04-RH-HC*
 (7006268-0; PDP-8/I)

1	2	3	4	5	6	7	8
		W044	W044	W044			
W033	W023						
PUNCH CONTROL CABLE							

PC04-PL-FM*
 (7006268-1; PDP-8/I; 8/E; 8/M; 8/F)

1	2	3	4	5	6	7	8
W077							
PUNCH CONTROL CABLE							

PC04-RF
 (7006268-0; PDP-8/I)

1	2	3	4	5	6	7	8
W033	W023	W044	W044	W044	W044	W044	G918
W033	W023	W044	W044	W044	W044	W044	W077
PUNCH CONTROL CABLE							PHOTO AMPLIFIER

PC04-RI-IM*
 (7006268-1; PDP-8/I; 8/E; 8/M; 8/F)

1	2	3	4	5	6	7	8
W033						G918	
W033	W023	W044	W044	W044	W044	W044	W077
READER CONTROL CABLE							PHOTO AMPLIFIER

PC04-RL
 (7006268-1; PDP-8/I; 8/E; 8/M; 8/F)

1	2	3	4	5	6	7	8
W033	W044	W044	W044			G918	
W033	W023	W044	W044	W044	W044	W044	W077
READER CONTROL CABLE							PHOTO AMPLIFIER

PC04-CL-CM*
 (7006268-2; K10)

REV	DATE	BY	CHKD
1	4-22-72	W. K.	
2	4-29-72	C. YOUSE	

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
PC04-1				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
IF DIMALS	ANGLES	DATE	PARTS LIST	
XX - 02	10 00	6-2-72	DIGITAL EQUIPMENT CORPORATION	
X - 1		6-2-72	TITLE	
		6-2-72	MODULE IDENTIFICATION	
		6-2-72	LIST PC04	
REMOVE BURRS AND BREAK SHARP CORNERS TO SURE SIZE QUALITY		DATE	NEXT HIGHER ASSY	
		6-2-72	A-M-L-PC04	
MATERIAL		SCALE	SIZE CODE	NUMBER
		1 OF 1	DMU	PC04-2-3
FINISH		SHEET	DIST	REV
				D

PC04-0-3

**DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS**

PARTS LIST

MADE BY: M. MARCOTTE
 DATE: 6/5/69
 ENG: [blank]
 DATE: 6/2/69
 CHECKED: [blank]
 DATE: 6/5/69
 SECTION: 1
 ISSUED SECT.: 1

ITEM NO	DWG NO	PART NO.	DESCRIPTION	PC04-B-0	PC04-B-A-0	PC04-C-0	PC04-A-0	PC04-P-0	PC04-I-A-0	PC04-R-0	PC04-BB-0	PC04-BC-0	PC04-RB-0
1	G918	*	PHOTO AMPLIFIER	1	1	1	1	1	1	1	1	1	1
2	W042		NEGATIVE INPUT CONVERTER	1	1	1	1	1	1	1	1	1	1
3	W040		SOLENOID DRIVER	4	4	4	4	4	4	4	4	4	4
4	W512		POSITIVE LEVEL CONVERTER	2	2	2	2	2	2	2	2	2	2
5	M040		SOLENOID DRIVER (+ 8I)	-	-	-	-	-	-	-	-	-	-
6	M044		SOLENOID DRIVER (+8L)	-	-	-	-	-	-	-	-	-	-
	M113		I0-2 INPUT NAND GATE	-	-	-	-	-	-	-	-	-	-

* NOTE: G918 MUST BE D BOARD REV OR HIGHER

TITLE: MODULE UTILIZATION
 ASSY NO.: D-MU-PC04-0-1
 SIZE CODE: A PL
 SHEET 1 OF 2
 NUMBER: PC04-0-3
 REV: D
 ECO NO.: PC04-00055

DEC FORM NO
 DRA 110

**DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS**

PARTS LIST

MADE BY: M. MARCOTTE
 DATE: 6/5/69
 ENG: [blank]
 DATE: 6/6/69
 CHECKED: R. CARVELLI
 DATE: 6/5/69
 SECTION: 1
 ISSUED SECT.: 1

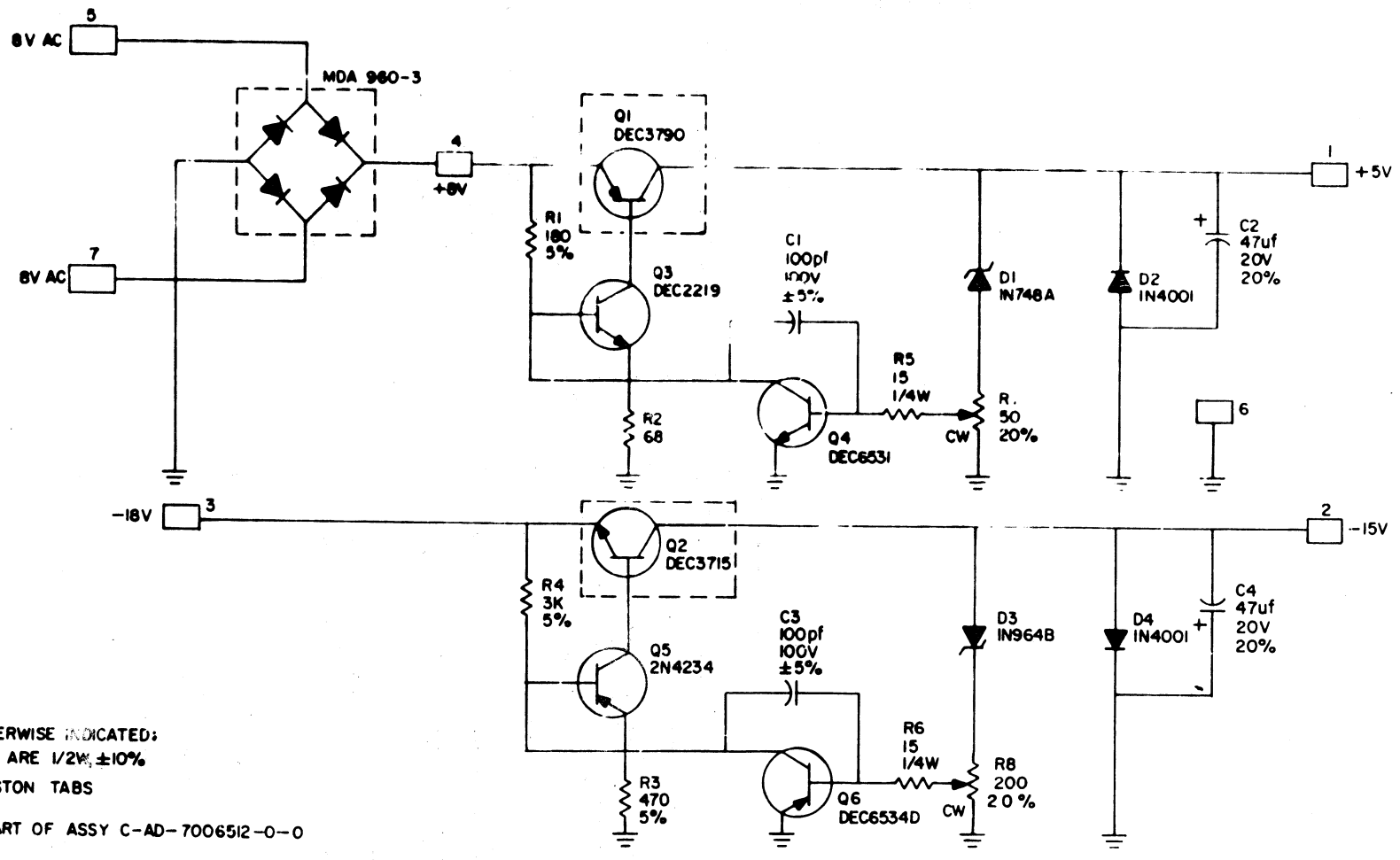
ITEM NO	DWG NO	PART NO.	DESCRIPTION	PC04-BB-0	PC04-RT-0	PC04-CT-0	PC04-M-0	PC04-IT-0	PC04-RT-0
1	G918	*	PHOTO AMPLIFIER	1	1	1	1	1	1
2	W040		SOLENOID DRIVER (-)	-	-	-	-	-	-
3	W512		POSITIVE LEVEL CONVERTER	-	-	-	-	-	-
4	M040		SOLENOID DRIVER (+)	4	4	4	4	4	4
5	M044		SOLENOID DRIVER (+ 8L)	3	3	3	3	3	3
	M113		I0-2 INPUT NAND GATE	1	1	1	1	1	1

* NOTE: G918 MUST BE D REV BOARD OR HIGHER

TITLE: [blank]
 ASSY NO.: D-MU-PC04-0-3
 SIZE CODE: A PL
 SHEET 2 OF 2
 NUMBER: PC04-0-3
 REV: D
 ECO NO.: [blank]

DEC FORM NO
 DRA 110

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 1/2W ±10%
 □ = FASTON TABS
 □ = PART OF ASSY C-AD-7006512-0-0

REVISIONS CHK'G NO. REV.	DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE		B CS NUMBER 5408918-0-1	REV A
	W. H. MOORE	7/8/70	DEC	EIA	DEC	EIA		PCO REGULATOR			
	CHK'D	DATE	DEC3790-2	2N3790	DEC6531	MP6631		5408918			
	ENG	DATE	DEC2219	2N2219	IN748A	SAME					
PROD	DATE	DEC3715	2N3715	IN748B	SAME						
			2N4234	2N4234	IN4001	SAME					
			DEC6534D	MP6634							

DIGITAL EQUIPMENT CORPORATION
ENGINEERING SPECIFICATION

DATE 11/11/69

ENGINEERING SPECIFICATION

TITLE PC64 Engineering Specification			
REVISIONS			
REV	DESCRIPTION	CHG NO	DATE
A		PC64 M. LEIS	3-1959

General Information:

The PC64 comes in eight (8) configurations. They are the PC64P, PL (basic punch), PC64R, RB (basic reader), PC64S, RB, RL, (punch and reader), and PC64C (punch, SCR, and reader). The 50 cycle variations are PC64PA, PR; PC64RA, RC. Table I-1 gives the block schematic references, UML, interface cables, and the applicable computers.

Logic Levels: Negative Logic Systems
 Logic 1 is -3.2v to -3.9 volts
 Logic 0 is 0v to -0.3 volts

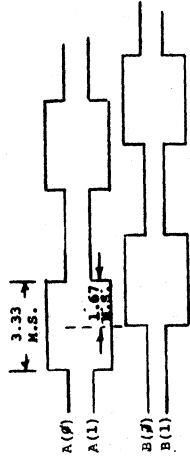
Logic Levels: Positive Logic Systems
Outputs
 Logic 1 is >+2.4v
 Logic 0 <+0.8v

Reader Signals:

Reference drawing MS-D-PC64-0-2

(1) A(0), A(1), B(0), and B(1) are the signals used to drive the stepping motors via the four solenoid drivers.

The timing chart and graph for these signals would be:



ENG Charles A Jones, Appr Joe Becken
 DEC FORM NO DRA 10A
 SIZE CODE A
 NUMBER PC64-0-4
 SHEET 1 OF 7

PC64 Engineering Specification

PC64 Engineering Specification

- (5) The eight data holes also require a 10 msec. level to activate the punches.
- (6) Out-of-tape signal is generated from a micro-switch on the punch. It is at ground when the punch is out-of-tape.
- (7) Punch feed switch is used to manually feed tape through the punch.
- (8) The -3 volt or +5v supply is a bias on the punch sync coil.
- (9) The punch on/off power switch is used in the options not using the SCR driver. It simply supplies 115 volts to the punch motor.

Power Supply

- (1) Regulated +5 volts ± 1.25 volts
- (2) Regulated -15 volts ± 1.0 volt
- (3) -36 volts ± 4 volts

Power Requirements

Unit will run at 50 or 60 cycles, 115 volts $\pm 10\%$. 2.5 AMPS run 4 AMPS surge

Reader

- (a) Temperature
 (1) 55° - 110°F operating, 10° - 150°F non-operating
- (b) Humidity
 (1) 20% - 95% w/o condensation operating; 5% - 95% w/o condensation non-operating.
- (c) Speed
 (1) 300 - 310 characters/second full speed.
 (2) 20 - 26 character/second single character rate.

Type of tape

- (1) non-oil (less than 12% transmissivity)
- (e) Tape Life: Acceleration de-accelerate type operation = 30,000 cycles.

DEC FORM NO DRA 10A
 SIZE CODE A
 NUMBER PC64-0-4
 SHEET 3 OF 7

PC64 Engineering Specification

PC64 Engineering Specification

- (2) Power (1) serves the function of supplying only half current to the stepping motor when the motor is stopped. This signal is 0 volts when the motor is stopped and -3 volts when the motor is active for negative logic systems and +2.0 volts when motor is active a.r.l. <+0.8 v when the motor is stopped for positive logic systems.
- (3) The reader feed switch is simply an off line means of moving tape through the reader. A ground level performs this function.
- (4) The reader on/off line switch allows the operator to disable the unit from reading by putting the switch in the off-line position.
- (5) The reader on/off line switch is open whenever the reader is off line, and is >2.4V when the reader is on line.

Data Output Lines:

Hole	No Hole
-3 volts	0 volts
+2.4 volts	0 volts

Punch Signals:

Refer to drawing MS-D-PC64-0-2

- (1) The interface signal used to turn on the punch motor with an SCR driver option is Gnd when active and open or -3v when inactive.
- (2) The -36 volt is supplied to the solenoid coils on the punch motor and also to the solenoid drivers at the external control.
- (3) Punch sync is the signal generated from the sync timing wheel on the punch. Equally spaced (in time) positive and negative pulses (one each) for each shaft revolution is generated on this line.
- (4) Forward tape and punch feed hole: A ground level for 10 msec. 20% will punch feed hole and then advance the tape forward in preparation for another cycle for all configurations except PC64P and RL when the solenoid drivers are activated by a +2.0v signal.

DEC FORM NO DRA 10A
 SIZE CODE A
 NUMBER PC64-0-4
 SHEET 4 OF 7

CONTINUATION SHEET		TABLE 1-1 PC#4 Configuration					SIZE CODE	PCO NUMBER	REV
CONFIGURATION	REFERENCE BLOCK SCHEMATICS	PUNCH MODULES	INTERFACE CABLES	READER MODULES	APPLICABLE COMPUTERS	A	PCO-0-4	A	
PC#4P	D/BS/PC#4-0-2 Page 1 of 3	None	1-W077A	N/A	PDP8; PDP8/S; PDP8/I	A	7	7	
PC#4PL	D/BS/PC#4-0-2 Page 3 of 3	3-M044	1-W033A	N/A	PDP8/L; PDP8E	A	7	7	
PC#4R	D/BS/PC#4-0-2 Page 1 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S	A	7	7	
PC#4RB	D/BS/PC#4-0-2 Pages 2 and 3 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8/I; PDP8/L PDP8/E	A	7	7	
PC#4B	D/BS/PC#4-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S	A	7	7	
PC#4BB	D/BS/PC#4-0-2 Page 2 of 3	None	2-W077A	1-G918 4-W040	PDP8/I	A	7	7	
PC#4BL	D/BS/PC#4-0-2 Page 3 of 3	3-M044	2-W033C	1-G918 4-W040	PDP8/L PDP8/E	A	7	7	
PC#4C	D/BS/PC#4-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP9; PDP1#	A	7	7	

DEC FORM NO 16-1022
DIA 108

SIZE CODE A
PCO NUMBER 7
REV A

SHEET 5 OF 7

ENGINEERING SPECIFICATION		CONTINUATION SHEET		
TITLE PC#4 Engineering Specification - Test Procedure for Reader				
B.	-15 volts on A#8B and B#8B (± 1 volts).	SIZE CODE	PCO NUMBER	REV
C.	-30 volts on B#6V and B#2D (-32 to -40 volts).	A	7	A
3.	Shut power off and insert modules for PC#4.			
4.	Apply power and make same check as in 2.			
5.	Put cap. (6.8uf, 10-5306) between pins A#3A (+) and A#3C (-) and between pins B#3C (+) and B#3B (-).			

DEC FORM NO 16-1022
DIA 108

SIZE CODE A
PCO NUMBER 7
REV A

SHEET 7 OF 7

CONTINUATION SHEET		TABLE 1-1 PC#4 Configuration					SIZE CODE	PCO NUMBER	REV
CONFIGURATION	REFERENCE BLOCK SCHEMATICS	PUNCH MODULES	INTERFACE CABLES	READER MODULES	APPLICABLE COMPUTERS	A	PCO-0-4	A	
PC#4P	D/BS/PC#4-0-2 Page 1 of 3	None	1-W077A	N/A	PDP8; PDP8/S; PDP8/I	A	7	7	
PC#4PL	D/BS/PC#4-0-2 Page 3 of 3	3-M044	1-W033A	N/A	PDP8/L; PDP8E	A	7	7	
PC#4R	D/BS/PC#4-0-2 Page 1 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S	A	7	7	
PC#4RB	D/BS/PC#4-0-2 Pages 2 and 3 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8/I; PDP8/L PDP8/E	A	7	7	
PC#4B	D/BS/PC#4-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S	A	7	7	
PC#4BB	D/BS/PC#4-0-2 Page 2 of 3	None	2-W077A	1-G918 4-W040	PDP8/I	A	7	7	
PC#4BL	D/BS/PC#4-0-2 Page 3 of 3	3-M044	2-W033C	1-G918 4-W040	PDP8/L PDP8/E	A	7	7	
PC#4C	D/BS/PC#4-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP9; PDP1#	A	7	7	

DEC FORM NO 16-1022
DIA 108

SIZE CODE A
PCO NUMBER 7
REV A

SHEET 6 OF 7

CONTINUATION SHEET		TABLE 1-1 PC#4 Configuration					SIZE CODE	PCO NUMBER	REV
CONFIGURATION	REFERENCE BLOCK SCHEMATICS	PUNCH MODULES	INTERFACE CABLES	READER MODULES	APPLICABLE COMPUTERS	A	PCO-0-4	A	
PC#4P	D/BS/PC#4-0-2 Page 1 of 3	None	1-W077A	N/A	PDP8; PDP8/S; PDP8/I	A	7	7	
PC#4PL	D/BS/PC#4-0-2 Page 3 of 3	3-M044	1-W033A	N/A	PDP8/L; PDP8E	A	7	7	
PC#4R	D/BS/PC#4-0-2 Page 1 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S	A	7	7	
PC#4RB	D/BS/PC#4-0-2 Pages 2 and 3 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8/I; PDP8/L PDP8/E	A	7	7	
PC#4B	D/BS/PC#4-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S	A	7	7	
PC#4BB	D/BS/PC#4-0-2 Page 2 of 3	None	2-W077A	1-G918 4-W040	PDP8/I	A	7	7	
PC#4BL	D/BS/PC#4-0-2 Page 3 of 3	3-M044	2-W033C	1-G918 4-W040	PDP8/L PDP8/E	A	7	7	
PC#4C	D/BS/PC#4-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP9; PDP1#	A	7	7	

DEC FORM NO 16-1022
DIA 108

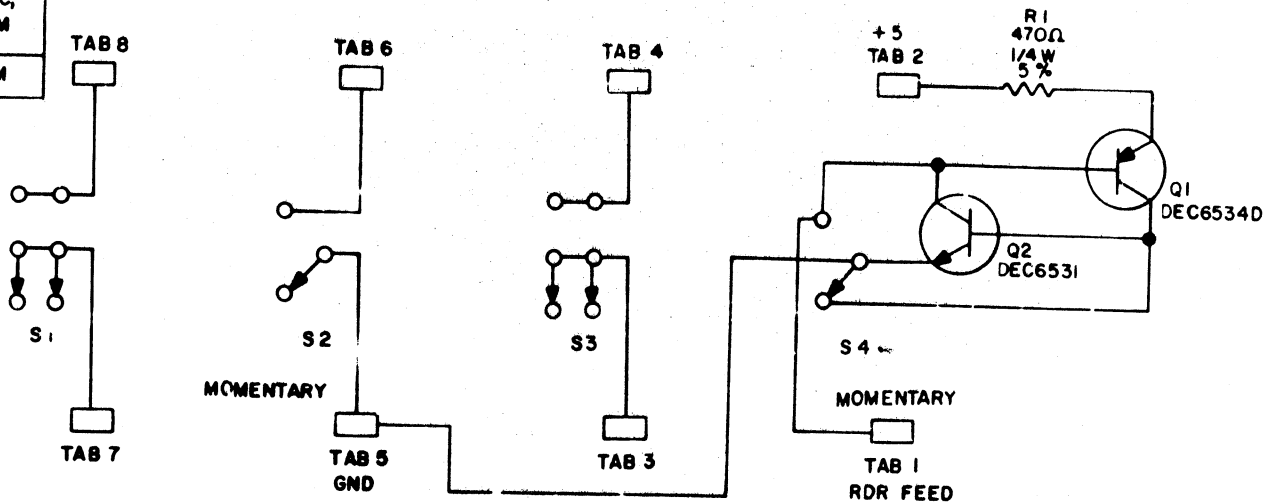
SIZE CODE A
PCO NUMBER 7
REV A

SHEET 7 OF 7

REV F
 NUMBER 5408310-0-1
 SIZE CODE B CS

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION

PART NUMBER	SWITCHES INSTALLED	USAGE
5408310-1	S2	PC05-P-PA
5408310-3	S2, S3, S4	PC04-C-CA PC05-C-CA
5408310-4	S1, S2, S3, S4	PC04-B-BA BB, BC, BL, BM
5408310-5	S2, S4	PC04-CL-CM



UNLESS OTHERWISE INDICATED:
 S1, S3 ARE ROCKER # 1208841
 S2, S4 ARE ROCKER # 1208375
 TABS ARE FASTON TAB 41290 AMP

REV	CHG	NO	REV
1	6	5408310	1
2	8	5408310	2
3	8	5408310	3
4	8	5408310	4
5	8	5408310	5
6	8	5408310	6

DESIGNED BY <i>M. M. ...</i>	DATE 8-1-68
CHECKED BY <i>M. M. ...</i>	DATE 8-1-68
APPROVED BY <i>J. C. ...</i>	DATE 5/12/68
PROOF	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC6531	2N2934		
DEC6534	2N2934		

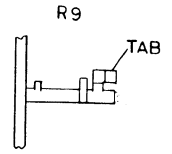
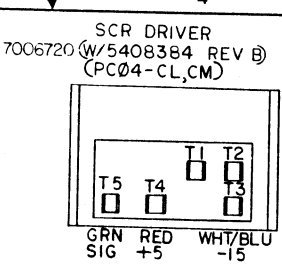
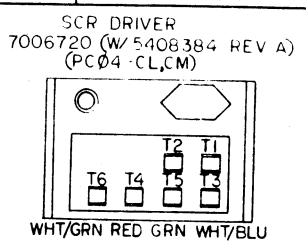
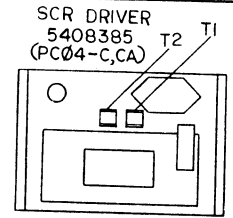
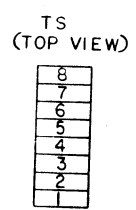
digital
EQUIPMENT CORPORATION
 MAYNARD MASSACHUSETTS

TITLE PCC SWITCH BOARD
 5408310

SIZE	CODE	NUMBER	REV
B	CS	5408310-0-1	F

PRINTED CIRCUIT REV D

Dimensions and tolerances shown are the property of Digital Equipment Corporation and shall not be used or used in whole or in part as a basis for the manufacture of parts without the express permission of Digital Equipment Corporation.



PC04-B,BA,BB,BC,BL,BM
5408310-4
DETAIL "A"

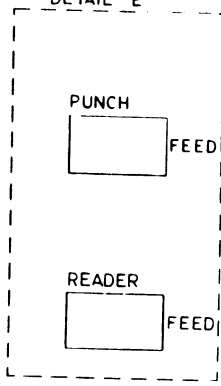
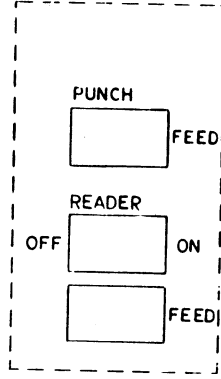
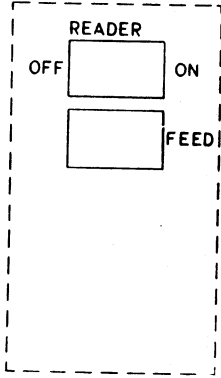
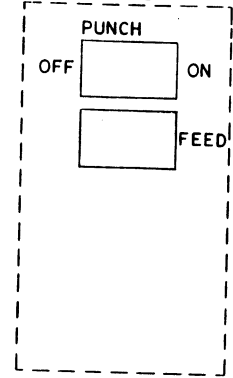
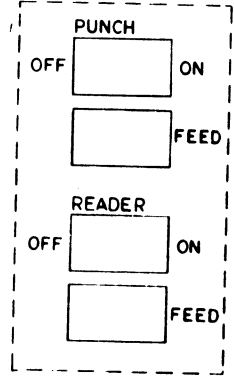
PC04-P,PA,PL,PM
5408935-0
DETAIL "B"

PC04-R,RB,RL
5408935-0
DETAIL "C"

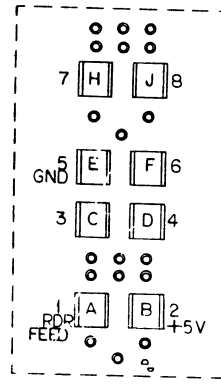
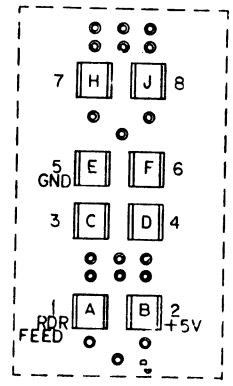
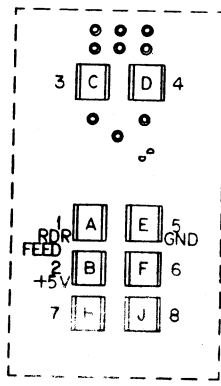
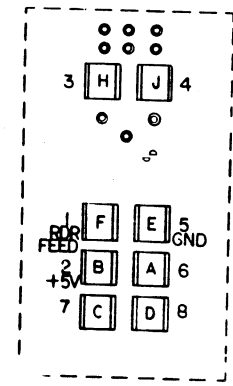
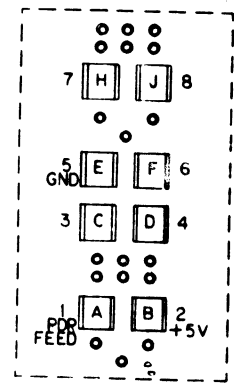
PC04-C,CA
5408310-3
DETAIL "D"

PC04-CL,CM
5408310-5
DETAIL "E"

FRONT VIEW



REAR VIEW



FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
PC04				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED (IN THE MARGIN IN INCHES)	DRN B. HUTNAK	DATE 1-10-69	digital EQUIPMENT CORPORATION WATERTOWN, MASSACHUSETTS	
TOLERANCES	CHK'D R. CADWELL	DATE 6-5-69		
DECIMALS	ENG. G. BECKNER	DATE 6-6-69	TITLE PC04 READ-TO-PUNCH (SW E TERM LOCATIONS)	
ANGLES	PROJ. ENG. G. BECKNER	DATE 6-6-69		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE FINISH	PROD. B. ANTONUCCI	DATE 6-6-69		
MATERIAL	NEXT HIGHER ASSY		SIZE CODE	NUMBER
FINISH	A-ML-PC01-0		DUA	PC04-0-0
	SCALE			REV
	SHEET 3 OF 4			F

REV. P
DUA PC04-0-0

A

... and specifications herein, are the property of Digital Equipment Corporation and shall not be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Digital Equipment Corporation.

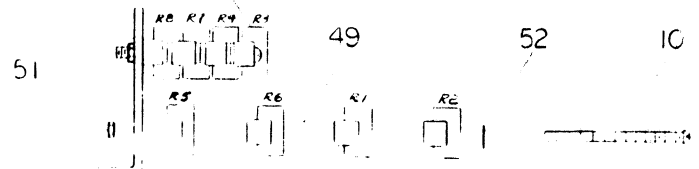
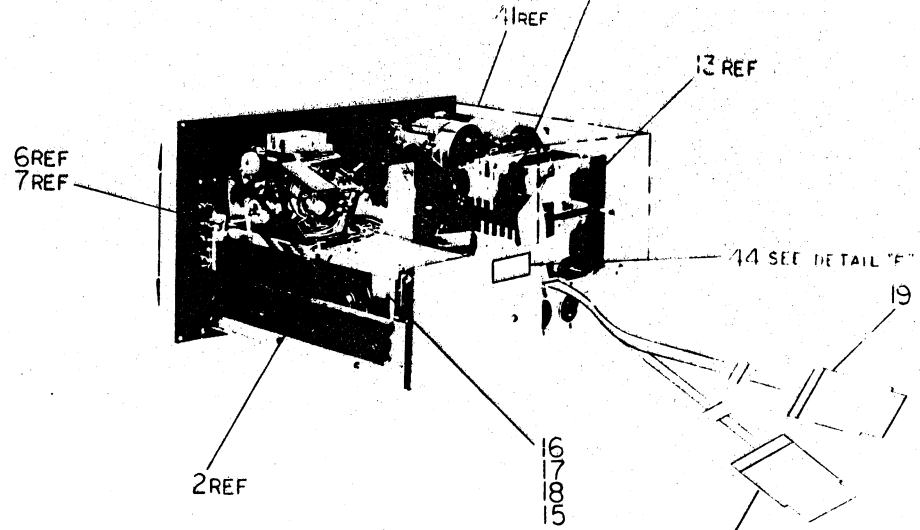
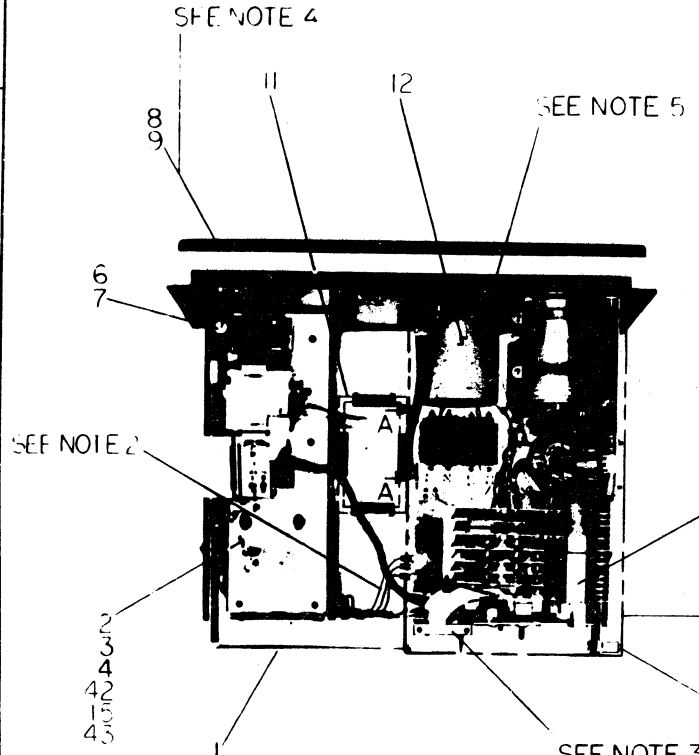
3 0-0-1000000 2

STAMP COMPLETE
MODIF NO. HERE

SEE NOTE 7

DETAIL F

STAMP SERIAL NO. HERE
(ALL PC04 TYPE UNITS ARE
SERIALIZED IN A SINGLE
SEQUENCE)



QTY	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION			
PC04 READER AND PUNCH			
UNLESS OTHERWISE SPECIFIED:		DATE	
UNLESS OTHERWISE SPECIFIED:		DATE	
DIMENSIONS IN INCHES		DATE	
TOLERANCES		DATE	
DECIMALS FRACTIONS ANGLES		DATE	
.009 .004 .001 .002 .005 .010 .015 .020 .030 .040 .050 .060 .070 .080 .090 .100 .125 .150 .175 .200 .250 .300 .375 .450 .500 .625 .750 .875 .900 .950 .990		DATE	
FINISH SURFACE QUALITY		DATE	
REMOVE BURRS AND DEBurr		DATE	
CHAMFER		DATE	
MATERIAL		DATE	
FINISH		DATE	
SCALE		DATE	
SHEET		DATE	
SIZE CODE		NUMBER	
DUA-PC04-0-0		REV.	
SCALE		DIST.	
SHEET		OF 4	

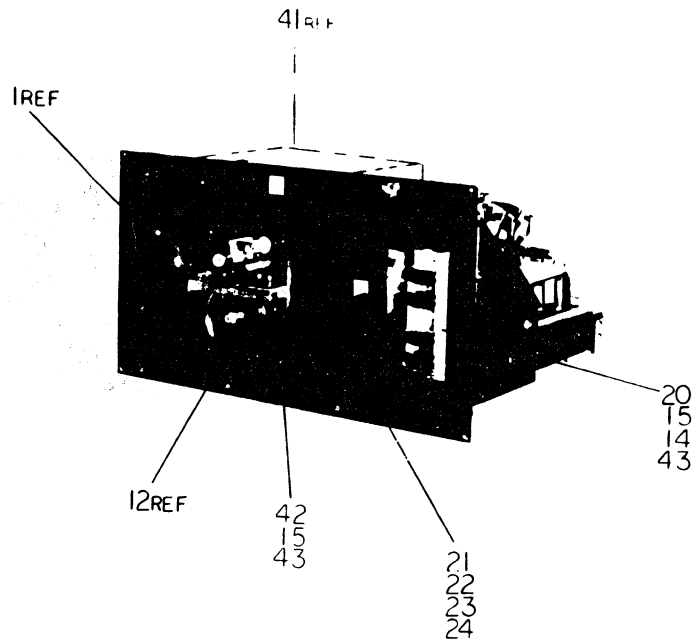
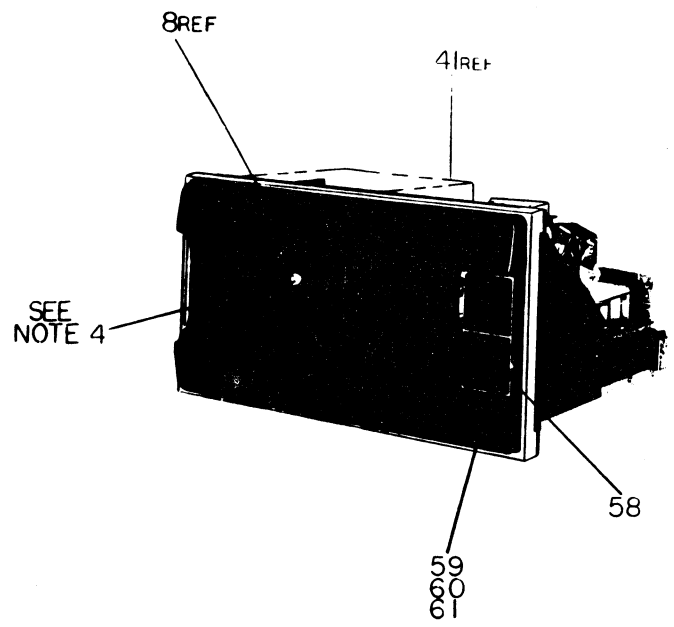
REV. 1

REV. 1
DUA-PC04-0-0

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

LEGEND	
MODEL	VARIATION
	COMPOSITION
PC04 - B, B ₁ , & B ₂	6C READER & PUNCH
PC04 - BA, BC, BM	5C READER & PUNCH
PC04 - C	6C READER, PUNCH & SCR
PC04 - CA	5C READER, PUNCH II & SCR
PC04 - P, & PL	6C PUNCH
PC04 - PA, & PV	5C PUNCH
PC04 - R & RB	6C READER

- NOTES:
1. WIRING OF SWITCHES VARIES DEPENDING ON UNIT MODEL BEING BUILT. FOR SWITCH CONFIGURATION, FOR WIRING PURPOSES SEE: DETAIL "W" FOR MODEL B, B₁, B₂, & B₂ & DETAIL "E" FOR MODEL BA, BC, & BM. DETAIL "R" & "B" ARE THE SAME FOR MODEL "R" & "RB" AND DETAIL "D" FOR MODEL "CA" & "CA". DETAIL "H" HAS NO EFFECT.
 2. IF THE SCR DRIVER UNIT IS USED, THIS WIRE WILL CONNECT TO SCR DRIVER UNIT, NOT TO 6. FOR CORRECT WIRING WHEN UNIT IS USED, SEE SCR DRIVER WIRE LIST (SHEET 3).
 3. REMOVE CLAMP FROM CHASSIS, PLACE CABLE IN POSITION, THEN REINSTALL CLAMP IN POSITION OVER CABLE.
 4. COVER ASSY TO BE ATTACHED TO CHASSIS ASSY AFTER ALL OTHER INSTALLATIONS ARE COMPLETE. TO DO SO, READER KNOB MUST BE REMOVED, COVER INSTALLED, THEN KNOB REPLACED ON PUNCH SHAFT.
 5. PIN WELDS P AND P₁ THIS WIRE WILL BE TIED BACK AND WHITE SHRINKABLE TUBING (ITEM 45) REQD.
 6. ON ALL MODELS ALL UNUSED WIRES SHOULD BE CONNECTED TO THEIR APPROPRIATE TABS.
 7. SHALL HOLD BOWL BACK TO BE INSTALLED BEFORE SHIPPING MACHINE.



REV.	NO.	DATE	BY	CHKD.
1	1	1/16/69	BECKNE7	
2	2	1/16/69	BECKNE7	
3	3	1/16/69	BECKNE7	
4	4	1/16/69	BECKNE7	
5	5	1/16/69	BECKNE7	
6	6	1/16/69	BECKNE7	
7	7	1/16/69	BECKNE7	
8	8	1/16/69	BECKNE7	

UNLESS OTHERWISE SPECIFIED	QTY	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED				
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
FINISH				
SCALE				
SHEET 1 OF 1				

DATE: 1/16/69
 BY: Beckne7
 CHKD: Beckne7
 TITLE: PC04 READER AND PUNCH
 SIZE CODE: DUA
 NUMBER: PC04-0-0
 REV: 1

D
C
F
B
A

COLOR/AWG	WIRE	CONNECTION	REMARKS
RED #18	*9	TS - 6	
BLK & YEL	PUNCH MOTOR	TS - 6	IF PUNCH PRESENT
RED #18	*7	SW BOARD - "A"	SEE DETAIL "A" OR "B" OR "C"

COLOR	WIRE	CONNECTION	REMARKS
WHT #22	PUNCH CAR	TS - 7	
PLUG PUNCH DATA CABLE (W#23) INTO SLOT B#2			

COLOR/AWG	WIRE	CONNECTION	REMARKS
GRY/RED #18	*7	-	SLEEP WIRE ITEM # 452 TIE BACK

COLOR/AWG	WIRE	CONNECTION	REMARKS
RED #18	*9	SCR - T1	
BLK & YEL	PUNCH MOTOR	SCR - T2	
RED #18	*7	SW BOARD - "J"	SEE DETAIL "D"
WHT/BLU #22	SCR LEAD	A#7B	
WHT/GRN #22	SCR LEAD	B#1B	

COLOR/AWG	WIRE	CONNECTION	REMARKS
GRY/RED #18	*7	R9 TAB	LAMP RESISTOR
WHT/RED	READER MOTOR	TS - 1	
RED	READER MOTOR	TS - 2	
WHT/GRN	READER MOTOR	TS - 3	
GRN	READER MOTOR	TS - 4	
WHT & BLK	READER MOTOR	TS - 5	
PLUG READER PHOTOCELL CABLE (W#77) INTO SLOT B#8			

COLOR/AWG	WIRE	CONNECTION	REMARKS
RED #18	*9	SCR T1	
BLK & YEL	PUNCH MOTOR	SCR T2	
RED #18	*7	SW BOARD - "J"	SEE DETAIL "E"
WHT/BLU #22	SCR LEAD	A#7B	
WHT/GRN #22	SCR LEAD	A#7C	NOT USED ON 5408384 RFL
RED #22	SCR LEAD	A#7A	
GRN #22	SCR LEAD	B#1F	

ITEM NO	COLOR/AWG	FROM	USING ITEM NO.	TO	USING ITEM NO.
29	WHT/YO #22	R1 & R2	-	TS - 1	28
30	WHT/YEL #22	R3 & R4	-	TS - 2	28
31	WHT/ORN #22	R5 & R6	-	TS - 3	28
32	WHT/BRN #22	R7 & R8	-	TS - 4	28
33	VIO #22	R1	-	B#6R	-
33	VIO #22	R2	-	B#6S	-
34	YEL #22	R3	-	B#5R	-
34	YEL #22	R4	-	B#5S	-
35	ORN #22	R5	-	B#4R	-
35	ORN #22	R6	-	B#4S	-
36	BRN #22	R7	-	B#3R	-
36	BRN #22	R8	-	B#3S	-

SEE VIEW "A-A" ON SHEET 2 FOR IDENTIFICATION OF R1 THRU R8

COLOR/AWG	WIRE	CONNECTION	REMARK
BLK #18	*27	GND LUG	LOGIC GND
GRY/YEL #18	*29	A#8B	-15V
BLU #18	*31	B#2D	-30V
BLK #18	*28	GND LUG	LOGIC GND
GRY/RED #18	*30	A#8A	+5V
GRN #18	*32	B#6V	-18V
YEL #22	*1	SW BOARD - "A"	SEE DETAILS "A" THRU "E" FOR LOCATION.
WHT/BLK #22	*2	SW BOARD - "B"	
WHT/YEL #22	*3	SW BOARD - "C"	
BRN #22	*4	SW BOARD - "D"	
BLK #22	*5	SW BOARD - "E"	
WHT #22	*6	SW BOARD - "F"	
RED #18	*8	SW BOARD - "J"	
YEL #22	*11	A#1V	
WHT/BLK #22	*12	B#7A	+5V
WHT/YEL #22	*13	A#8F	
BLK #22	*15	B#8C	
WHT #22	*16	B#2U	

CONNECTION ON 7006268-0 LOGIC BLOCK (PC#4-B, -BA, -BB, BC, -C, -CA, -D, -PA, -R -RB)

COLOR/AWG	WIRE	CONNECTION
BRN #22	*14	A#2B

CONNECTION ON 7006268-1 AND -2 LOGIC BLOCK (PC#4-BL, -BM, -CL, -CM, -PL, -PM, -RL)

COLOR/AWG	WIRE	CONNECTION
BRN #22	*14	A#1B

NOTE: SEE SHEET 3 FOR TERMINAL IDENTIFICATION DIAGRAMS.

ITEM NO	COLOR/AWG	FROM	TO
57	GRN #24	A#8H	A#8F

FIRST USED ON OPTION/MODEL PC04-0	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. B. HUTNAK	DATE 4-10-69	DIGITAL EQUIPMENT CORPORATION WATYARD MASSACHUSETTS	
DECIMALS	CHK'D R. CARVILLI	DATE 6-5-69	TITLE	
ANGLES	ENG. COO. BECKNER	DATE 6-6-69	PC04	
XXX - .006	PROJ. ENG. COO. BECKNER	DATE 6-6-69	READER & PUNCH (WIRING)	
XX - .02	PROD. B. ANTONUCCIO	DATE 6-6-69	SIZE CODE	
X - .1			A-ML-PC04	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.		NUMBER	
MATERIAL			DUA PC04-0-0	
FINISH			REV	
			P	
	SCALE		SHEET	
			OF	
			DIST.	

REVISIONS
DATE
BY
CHANGE NO.

PC04-0-0
DUA PC04-0-0

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.

ITEM NO.	DWG. NO./PART NO.	DESCRIPTION	PCØ4															
			BB	BA	BL	BM	C	CA	CL	CM	P	PA	PL	PM	RB	RL		
30	9107400-94	WIRE, 22 AWG STRD TEFLON WHT/YEL TRACER	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
31	9107400-93	WIRE, 22 AWG STRD TEFLON WHT/ORN TRACER	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
32	9107400-91	WIRE, 22 AWG STRD TEFLON WHT/BRN TRACER	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
3	9107350-77	WIRE, 22 AWG STRD TEFLON VIO	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
34	9107350-44	WIRE, 22 AWG STRD TEFLON YEL	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
35	9107350-33	WIRE, 22 AWG STRD TEFLON ORN	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
36	9107350-11	WIRE, 22 AWG STRD TEFLON BRN	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
37	9006043-1	SCR, PHL PAN HD 8-32 X 1 LG SST	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
38	9006634	WASHER, INT TOOTH #8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
39	9006823	HEX SPACER 3/8 X 3/4 LG #8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
40	9006037-1	SCR, PHL PAN HD 8-32 X 3/8 LG SST	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
41	E-IA-7407438-0-0	POWER SUPPLY COVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
42	9006024-1	SCR, PHL PAN HD 6-32 X 1/2 LG SST	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
43	9006653	WASHER, FLAT #6 SST	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	
44	9008141	DEC NAME PLATE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
45	9107275	SHRINKABLE TUBING WHITE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
46	9006066-1-0	W/O CABLE Assy. (SL)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	D-IA-7407067-1-0	D/O CABLE ASST. (OR)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
48	7006145-1	L/O CABLE Assy. (SL)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
49	9006664	WASHER, FLAT #10	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
50	C-MD-7408091-0-0	BRK'T RESISTOR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
51	9006565	NUT, KEPS 10-32 X 3/8 X 3/16	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
52	9006635	WASHER, INT TOOTH #10	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
53	9007799-6	SCR, PHL FILLISTER HD 8-32 X 1.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
54	1209850	UNIVERSAL MODULE RETAINER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
55	C-IA-7405642-0-0	SCR, MODULE RETAINER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
56	C-IA-7408339-7-0	HOLD DOWN BAR (6")	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
57	9107470-55	WIRE, 24 AWG SOLID TEFLON GREEN	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	
58	C-IA-7407134-1-0	BEZEL SWITCH	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	
58	C-IA-7407134-2-0	BEZEL SWITCH	-	-	-	-	-	-	-	1	1	1	1	-	-	-	-	
58	C-IA-7407134-3-0	BEZEL SWITCH	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	
58	C-IA-7407134-4-0	BEZEL SWITCH	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	
58	C-IA-7407134-5-0	BEZEL SWITCH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
58	C-IA-7407134-6-0	BEZEL SWITCH	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
59	9006558	NUT HEX #6-32 SST	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
60	9006633	WASHER INT TOOTH LOCK #6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
61	9006656	WASHER FLAT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
62	A-PI-3700024-0-0	PACKAGING INSTRUCTIONS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
63	A-PI-3700123-0-0	PACKAGING INSTRUCTIONS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

REV. CHANGE NO.	CHK.	FIRST USED ON OPTION/MODEL PCØ4 (ALL)	UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ± .008 ± 1/64 ± 0°30'	DRN. R. HUTNAK	DATE 4-10-69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE PCØ4 READER AND PUNCH
				CHK'D. R. CARVELLI	DATE 6-5-69		
MATERIAL				ENG. GEO. BECKNER	DATE 6-6-69	SIZE CODE CPL PCØ4-Ø-Ø	NUMBER REV. P
FINISH				PROJ. ENG. GEO. BECKNER	DATE 6-6-69		
NEXT HIGHER ASSY.				PROD. R. ANTONUCCIO	DATE 6-6-69	DIST.	
SCALE				D-UA-PCØ4-Ø-Ø		SHEET 2 OF 2	

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MAD BY	ROBERT HUTNAK	CHECKED	<i>Carwell</i>	SECTION	1
DATE	2/20/69	DATE	5/5/69	ISSUED SECT.	1
ENG DATE	<i>Section 4/4/67</i>	PROD DATE	<i>1/6/66</i>		

ITEM NO.	WG NO. / PART NO.	DESCRIPTION
1	-IA-7407077-0-0	MTG BAR 6 IN.
2	202244	144 PIN CONN BLOCK WRAPTYPE
3	202188	BUS BAR BERG NO. 3584-032
4	107560-1	#22 AWG BUS WIRE
5	107265	#22 TUBING, TEFLON WHITE
6	007597	TERMINAL SHAKEPROOF #2116-08-00
7	006034	SCR PHL PAN HD #8-32 x .19 LG SST
8	107470-10	#21 AWG SOLID KYNAR BLUE
9	007641	SCR PHL FIL HD #8-32 x 1/2 LG SST
10	005306	CAP 6.8 MFD 35V 10%
11	000086	CAP 100 MFD 5V 10%
12	3-00231	RES 100ohm 1/4W 5%
13	300295	RES 330 OHM 1/4W 5%
REF	K-WL-PC04-0-5	WIRE LIST
REF	K-WL-PC04-0-6	WIRE LIST
REF	K-WL-PC04-0-7	WIRE LIST

QUANTITY VARIATION

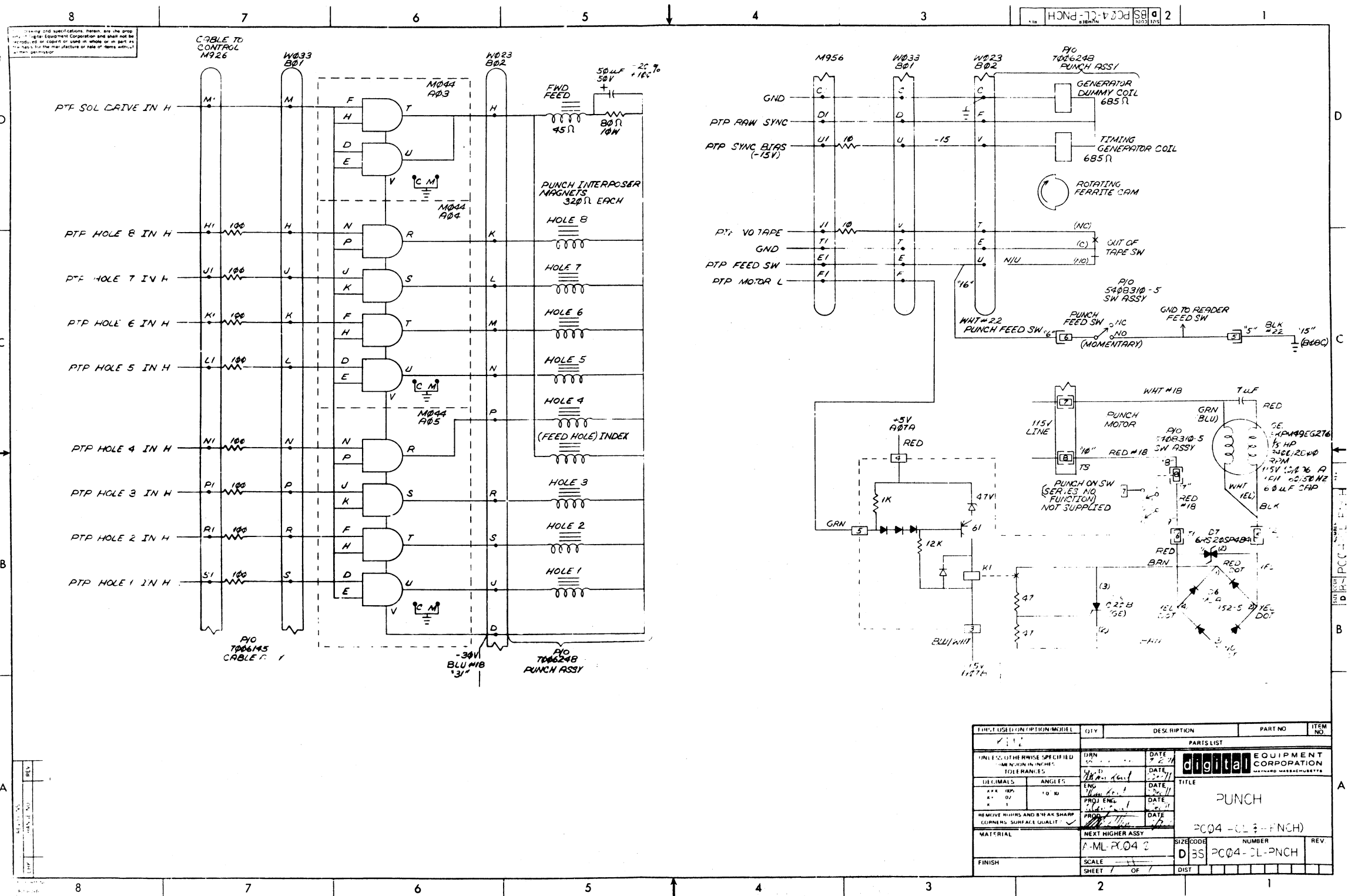
ITEM NO.	QUANTITY	VARIATION	REASON
1	1		
2	2		
3		/FA/R	
4		/FA/R	
5		/FA/R	
6	1		
7	1		
8		/FA/R	
9	4		
10	2		
12	1		
13	1		
REF			
REF			
REF			

TITLE	PC04 WIRED ASSY	ASSY NO.	E-AD-700b268-0-0	SIZE	A	CODE	PL
DEC	FORM NO.	SHEET	1 OF 1	DIST			

NUMBER	700b268-0-0	REV	rt	ECO NO.	PC04-00056
--------	-------------	-----	----	---------	------------

DEC 1969
DRA

Drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part in any form without the prior written consent of Digital Equipment Corporation.



REV	DATE	BY	CHKD

FINISH USED IN OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES	DRN 20	DATE 7-2-71	 digital EQUIPMENT CORPORATION <small>MADE IN MASSACHUSETTS</small>	
DECIMALS	18	DATE 7-2-71		
ANGLES	1/16	DATE 7-2-71		
XXX DEP	10	DATE 7-2-71		
REMOVE RUFFS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ ENG 7/2/71	DATE 7-2-71	PUNCH PC04-CL-PNCH	
MATERIAL	NEXT HIGHER ASSY A-ML-PC04 2	DATE 7-2-71		
FINISH	SCALE SHEET 1 OF 1	DATE 7-2-71	SIZE CODE D35	NUMBER PC04-CL-PNCH

4

3

1
REV

5

NUMBER

SIZE CODE
KWL

2

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.

B

B



A

A

REVISIONS	CHANGE NO.	REV
	ORIGINATED	-
	PC04 00014	
	PC04	
	10/15	
	1/1/72	

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04				
PARTS LIST				
DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE WIRELIST PC04 B, BA, BB, BC, C, CA, R, PA, R AND RB		
CHK'D	DATE			
ENG	DATE			
PROJ. ENG.	DATE			
PROJ.	DATE			
NEXT	DATE			
DATE	DATE	SIZE CODE	NUMBER	REV.
		KWL	PC04-0-5	H

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 H 6-0-6 PC04 NUMBER SIZE CODE K WL 2

REV	CHANGE NO	REVISIONS
-		INITIATED
		PC04-C054
A	55	PC04-
		4-9-72
		C. YOUSE
		PC04-C056
		YOUSE
		5-27-72

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04				
PARTS LIST				
DRN.	DATE	digital EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small> TITLE WIRELIST PC04-BL, BM, PL, FM AND RL		
CHK'D	DATE			
ENG	DATE			
PROJ ENG	DATE			
PRCD	DATE			
NEXT HIGHER ASSEMBLY		SCALE: NONE SIZE CODE: K WL NUMBER: 14-0-6 REV: H		

4

3

REV 11 2-0-FOO-K SIZE CODE NUMBER

2

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.

B

B

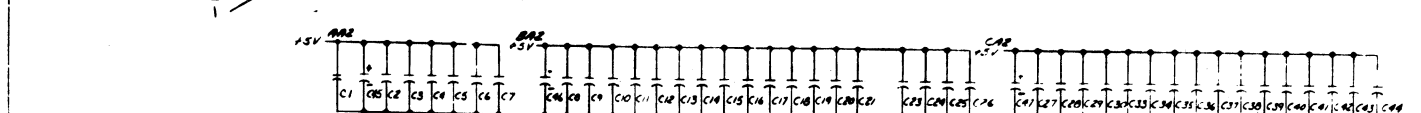
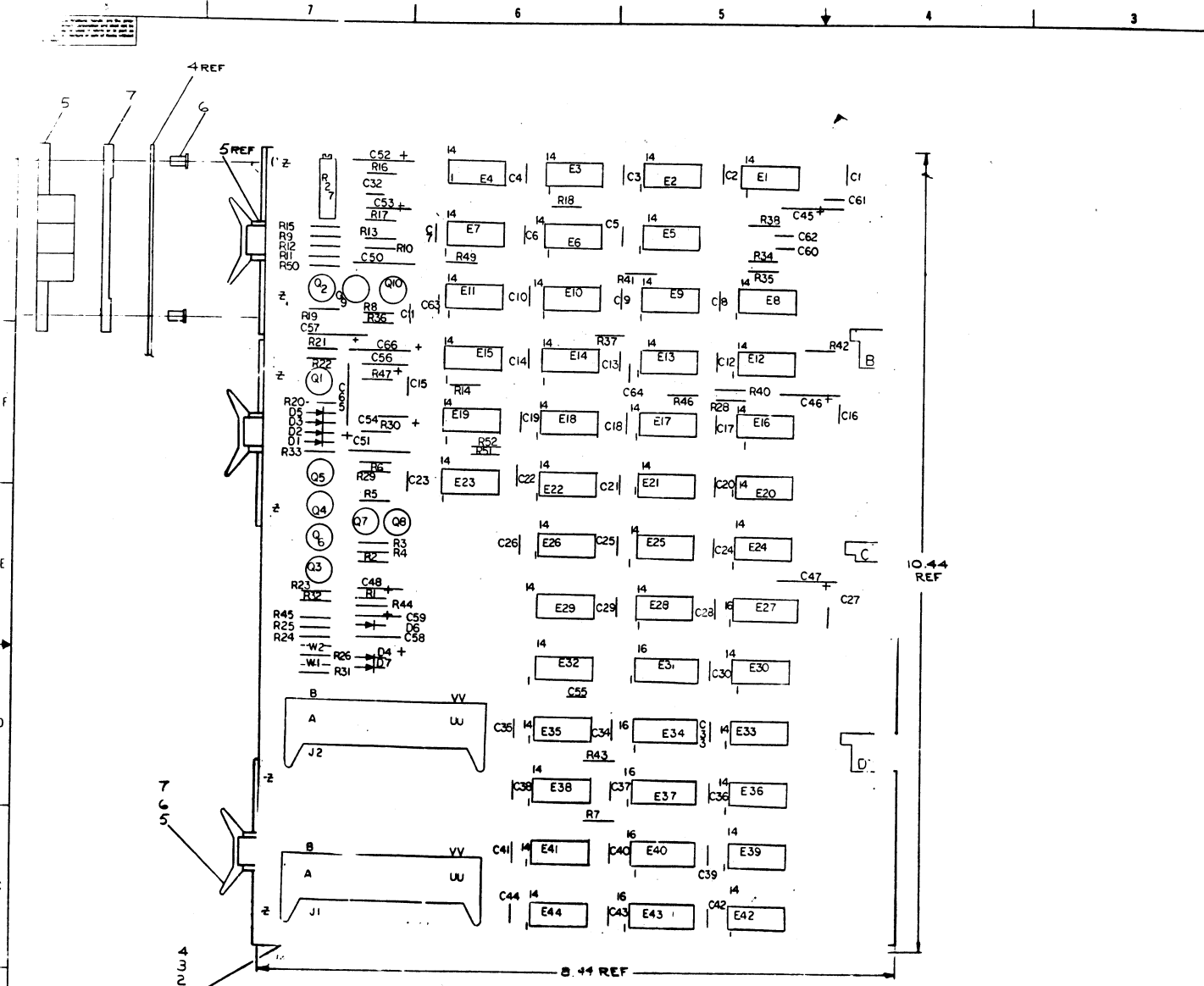
A

A

REVISIONS	
REV	CHANGE NO
-	ORIGINATED
54	PCØ4-CL AND CM
5	5-22-72

FIRST USED ON OPTION MODE:		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PCØ4					
PARTS LIST					
DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
<i>Alan T...</i>	<i>2-3-72</i>	TITLE WIRELIST PCØ4-CL AND CM			
CHK'D	DATE				
<i>A. Landetta</i>	<i>2-7-72</i>				
ENG	DATE				
<i>M. Pen</i>	<i>2-9-72</i>				
PROJ. ENG	DATE				
<i>C. D...</i>	<i>1-72</i>				
PROJ	DATE				
<i>...</i>	<i>4-72</i>				
NEXT HIGHER ASSEMBLY		SIZE	CODE	NUMBER	REV.
<i>...</i>		K	WI	<i>PCØ4-Ø-1</i>	
SHEET					

A



REV	DATE	BY	CHKD	DESCRIPTION
1	3/84	J		
2	6/3/84	A		
3	3/7/84	B	16	
4	3/80	J	57	22
			57	22

IC TYPE	QTY	REF	UNIT	TO FT
741	1	B		
742	1	A		
743	1	B		
744	1	B		
745	1	B		
746	1	B		
747	1	B		
748	1	B		
749	1	B		
750	1	B		
751	1	B		
752	1	B		
753	1	B		
754	1	B		
755	1	B		
756	1	B		
757	1	B		
758	1	B		
759	1	B		
760	1	B		
761	1	B		
762	1	B		
763	1	B		
764	1	B		
765	1	B		
766	1	B		
767	1	B		
768	1	B		
769	1	B		
770	1	B		
771	1	B		
772	1	B		
773	1	B		
774	1	B		
775	1	B		
776	1	B		
777	1	B		
778	1	B		
779	1	B		
780	1	B		
781	1	B		
782	1	B		
783	1	B		
784	1	B		
785	1	B		
786	1	B		
787	1	B		
788	1	B		
789	1	B		
790	1	B		
791	1	B		
792	1	B		
793	1	B		
794	1	B		
795	1	B		
796	1	B		
797	1	B		
798	1	B		
799	1	B		
800	1	B		
801	1	B		
802	1	B		
803	1	B		
804	1	B		
805	1	B		
806	1	B		
807	1	B		
808	1	B		
809	1	B		
810	1	B		
811	1	B		
812	1	B		
813	1	B		
814	1	B		
815	1	B		
816	1	B		
817	1	B		
818	1	B		
819	1	B		
820	1	B		
821	1	B		
822	1	B		
823	1	B		
824	1	B		
825	1	B		
826	1	B		
827	1	B		
828	1	B		
829	1	B		
830	1	B		
831	1	B		
832	1	B		
833	1	B		
834	1	B		
835	1	B		
836	1	B		
837	1	B		
838	1	B		
839	1	B		
840	1	B		
841	1	B		
842	1	B		
843	1	B		
844	1	B		
845	1	B		
846	1	B		
847	1	B		
848	1	B		
849	1	B		
850	1	B		
851	1	B		
852	1	B		
853	1	B		
854	1	B		
855	1	B		
856	1	B		
857	1	B		
858	1	B		
859	1	B		
860	1	B		
861	1	B		
862	1	B		
863	1	B		
864	1	B		
865	1	B		
866	1	B		
867	1	B		
868	1	B		
869	1	B		
870	1	B		
871	1	B		
872	1	B		
873	1	B		
874	1	B		
875	1	B		
876	1	B		
877	1	B		
878	1	B		
879	1	B		
880	1	B		
881	1	B		
882	1	B		
883	1	B		
884	1	B		
885	1	B		
886	1	B		
887	1	B		
888	1	B		
889	1	B		
890	1	B		
891	1	B		
892	1	B		
893	1	B		
894	1	B		
895	1	B		
896	1	B		
897	1	B		
898	1	B		
899	1	B		
900	1	B		
901	1	B		
902	1	B		
903	1	B		
904	1	B		
905	1	B		
906	1	B		
907	1	B		
908	1	B		
909	1	B		
910	1	B		
911	1	B		
912	1	B		
913	1	B		
914	1	B		
915	1	B		
916	1	B		
917	1	B		
918	1	B		
919	1	B		
920	1	B		
921	1	B		
922	1	B		
923	1	B		
924	1	B		
925	1	B		
926	1	B		
927	1	B		
928	1	B		
929	1	B		
930	1	B		
931	1	B		
932	1	B		
933	1	B		
934	1	B		
935	1	B		
936	1	B		
937	1	B		
938	1	B		
939	1	B		
940	1	B		
941	1	B		
942	1	B		
943	1	B		
944	1	B		
945	1	B		
946	1	B		
947	1	B		
948	1	B		
949	1	B		
950	1	B		
951	1	B		
952	1	B		
953	1	B		
954	1	B		
955	1	B		
956	1	B		
957	1	B		
958	1	B		
959	1	B		
960	1	B		
961	1	B		
962	1	B		
963	1	B		
964	1	B		
965	1	B		
966	1	B		
967	1	B		
968	1	B		
969	1	B		
970	1	B		
971	1	B		
972	1	B		
973	1	B		
974	1	B		
975	1	B		
976	1	B		
977	1	B		
978	1	B		
979	1	B		
980	1	B		
981	1	B		
982	1	B		
983	1	B		
984	1	B		
985	1	B		
986	1	B		
987	1	B		
988	1	B		
989	1	B		
990	1	B		
991	1	B		
992	1	B		
993	1	B		
994	1	B		
995	1	B		
996	1	B		
997	1	B		
998	1	B		
999	1	B		
1000	1	B		

REV	DATE	BY	CHKD	DESCRIPTION
1	3/84	J		
2	6/3/84	A		
3	3/7/84	B	16	
4	3/80	J	57	22
			57	22

REV	DATE	BY	CHKD	DESCRIPTION
1	3/84	J		
2	6/3/84	A		
3	3/7/84	B	16	
4	3/80	J	57	22
			57	22

REV	DATE	BY	CHKD	DESCRIPTION
1	3/84	J		
2	6/3/84	A		
3	3/7/84	B	16	
4	3/80	J	57	22
			57	22

REV	DATE	BY	CHKD	DESCRIPTION
1	3/84	J		
2	6/3/84	A		
3	3/7/84	B	16	
4	3/80	J	57	22
			57	22

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

DATE 8/13/70

ENGINEERING SPECIFICATION

PCB-E READER PUNCH CONTROL				
REVISONS				
REV	DESCRIPTION	CHG NO	ORIG	DATE

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.

TITLE PCB-E READER PUNCH CONTROL

CONTINUATION SHEET

TITLE PCB-E READER PUNCH CONTROL

- 4.1 Continued - Punch IOT's
- PCE 6020 Clr Interrupt Enable
PSF 6021 Skip if Punch Flag = 1
PCF 6022 Clr Flag
PPC 6024 Load Buffer & Punch Character
PLS 6026 Clr Flag, Load & Punch
- 4.2 There are no maintenance instructions.
- 4.3 Data format is parallel for both reader and punch. For the reader 8 bits are loaded from photo-cell into the reader buffer then onto the Data Bus. Then at the appropriate time the data is strobed into AC bits 4 thru 11. AC 11 being the least significant bit. The punch buffer is loaded from Data Bus bits 4 thru 11 then the contents of the punch buffer select or de-select solenoid drivers which punch the data.
- 4.4 There are no timing diagrams.
- 4.5 There are no operator controls except for one potentiometer that sets the clock circuit for a reader speed of 300 char/sec. This control is used during initial reader adjustment.
5. Interface Specifications
- 5.1 All bus signals conform to the bus rules of the PDP-8/E. All signals between the reader and punch appear on pins of the 2 connectors that are pin compatible with the PCB/L.
- 5.2 The following is a list of reader, punch variations for the 8/E.
- PC04-BL Reader Punch, 60 cycle
PC04-BM Reader Punch, 50 cycle
PC04-PL Punch only, 60 cycle
PC04-PM Punch only, 50 cycle
PC04-RB Reader only
or
PR8-ES 110 CPS Paper Tape Reader, 110V 50/60 Cycles

DEC FORM NO
DRA 1084

SIZE CODE
A SP

NUMBER
PCB-EA-1

REV
3

SHEET 3 OF 3

ENG Larry Narhi APD
DEC FORM NO. 1084

SIZE CODE
A SP

NUMBER
PCB-EA-1

REV
3

SHEET 1 OF 3

CONTINUATION SHEET

TITLE PCB-E READER PUNCH CONTROL

1. Overall Description
- The PCB-E is the reader/punch control for the PDP-8/E computer. The PCB/E is designed to control the reader/punch type PC04.
2. General Specification
- 2.1 The interface, entirely TTL, is designed around the constraints of the PDP-8/E bus. All connections to the reader/punch is via shielded flex-print connected to edge-type connectors.
- 2.2 Punch Done timing may be either 4.5 milliseconds or 10 milliseconds, jumper selectable on the board. Reader timing may be slowed by removing two jumpers, for use with the PR8-ES Reader.
- 2.3 The entire interface is contained on one 8 $\frac{1}{2}$ " by 11" quad board.
- 2.4 The temperature limits are 32F to 120F and relative humidity 10% to 90%, non-condensing. The power requirements are:
- + 5 volts at 1.25 amps.
 - 15 volts at 75 millamps.
- 2.5 The control is completely compatible with all software that is PCB/L oriented.
3. Specification of Vendor-Supplied Equipment
- 3.1 See applicable purchase specification for board components.
4. Programming
- 4.1 Reader IOT's
- RPE 6010 Set interrupt enable for reader and punch
RSF 6011 Skip if reader flag = 1
RRB 6012 Read reader buffer, clr flag
RFC 6014 Clr flag, fetch character
6016 Same as 12 and 14

NOTE: Initialize sets Program Interrupt Enable Flag

DEC FORM NO
DRA 1084

SIZE CODE
A SP

NUMBER
PCB-EA-1

REV
3

SHEET 2 OF 3

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.

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				DATE 1/22/71		
ENGINEERING SPECIFICATION						
TITLE P08-E TEST PROCEDURE						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG DEC FORM NO. 106-1022 DRA 107	APPROVED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	SIZE CODE A SP	NUMBER P08-E-2	REV

ENGINEERING SPECIFICATION				CONTINUATION SHEET															
TITLE P08-E TEST PROCEDURE																			
<p>PC04-BM/BL, PC04-PH/PL PC04-BM/BL, PC04-PH/PL PC04-BM/BL PC04-BB</p>																			
<p>PC05 - Punch test, random characters PC06 - Punch verify random characters PC07 - Combined reader and punch test, special binary count routine PC013- Reader speed print loop</p>																			
<p>4.2 Consult the diagnostic write up for starting addresses and setup procedures.</p>																			
<p>4.3 Execution times for the above test are as follows:</p> <table border="1"> <thead> <tr> <th>TEST</th> <th>RUN TIME</th> </tr> </thead> <tbody> <tr> <td>PC05</td> <td>1 Pass</td> </tr> <tr> <td>PC06</td> <td>3 Passes</td> </tr> <tr> <td>PC07</td> <td>3 Minutes each</td> </tr> <tr> <td>PC013</td> <td>10 Minutes</td> </tr> <tr> <td>PC02-6</td> <td>10 Minutes</td> </tr> <tr> <td>PC07</td> <td>10 Minutes</td> </tr> </tbody> </table>						TEST	RUN TIME	PC05	1 Pass	PC06	3 Passes	PC07	3 Minutes each	PC013	10 Minutes	PC02-6	10 Minutes	PC07	10 Minutes
TEST	RUN TIME																		
PC05	1 Pass																		
PC06	3 Passes																		
PC07	3 Minutes each																		
PC013	10 Minutes																		
PC02-6	10 Minutes																		
PC07	10 Minutes																		
<p>4.4 After a required sections of P08E diagnostic have been run, do the Teradyne copy routine as follows.</p>																			
<p>4.5 Load tape in reader with Teradyne loader and test tape.</p>																			
<p>4.5.1 Load in Teradyne loader in binary format.</p>																			
<p>4.5.2 Turn punch on.</p>																			
<p>4.5.3 Load and start 0101 for test tape</p>																			
<p>4.5.4 After test tape has read through and a punch copy has been made.</p>																			
<p>4.5.5 Load Harco 8 tape (in binary format)</p>																			
<p>4.5.6 Load Harco 8 tape into reader, and turn punch on.</p>																			
<p>4.5.7 Load 200 Start 40027. Make new tape.</p>																			
<p>4.5.8 Take new copy load in reader.</p>																			
<p>4.5.9 Load 200 Start 2002 prints out on TTY information on tape. Run for ten minutes.</p>																			
<p>NOTE: Teradyne Loader tape is on front of test tape.</p>																			
<p>4.6 Adjustment failures may occur during testing. All adjustments are preset, but should a minor adjustment be necessary use the new procedure as described in the PC04 manual.</p>																			
<p>5.0 HEAT TEST</p>																			
<p>5.1 Heat test is to be run after successful completion of all previously indicated tests.</p>																			
<p>5.2 Run the combined reader-punch test (PRG7) for 5 minutes with the heat box down, ports closed and heat off. Load per loading procedure step 3.0.</p>																			
<p>5.3 Raise the heat switch on the test station panel and once the indicator light goes off, run the combined reader-punch test (PRG7) test: for 10 minutes.</p>																			
<p>5.4 Turn the heat switch off and open the two ports on the left side of the heat box.</p>																			
<p>5.5 Allow 15 minutes for the machine to cool before removing the heat box.</p>																			
<p>5.6 Terminate the test once the machine has run for 5 minutes at room temperature.</p>																			

DEC FORM NO 106-1022 DRA 108	SIZE CODE A SP	NUMBER P08-E-2	REV

ENGINEERING SPECIFICATION				CONTINUATION SHEET													
TITLE P08-E TEST PROCEDURE																	
<p>1.0 EQUIPMENT</p>																	
<p>1.1 PDP8/E standard</p>																	
<p>1.2 Heat box</p>																	
<p>1.3 453 scope and voltage probes</p>																	
<p>1.4 Teletype</p>																	
<p>1.5 P08-E paper tape reader</p>																	
<p>1.6 PDP8 loader</p>																	
<p>1.7 P08E loader and following options</p>																	
<p>1.7.1 PR8-E - PC04-R and 1 BC08-K cable</p>																	
<p>1.7.2 PR8-E - PC04-R and 1 BC08-K cable</p>																	
<p>1.7.3 PC8-E - PC04-PH/PL and 1 BC08-K cable</p>																	
<p>1.7.4 PC8-E - PC04-BM/BL and 2 BC08-K cables</p>																	
<p>1.8 The following test tapes are also required:</p>																	
<p>1.8.1 Test PRG0 (zeros) MAINDEC-00-DIG1-PT</p>																	
<p>1.8.2 Test PRG2 (binary count) MAINDEC-00-DIG1-PT</p>																	
<p>1.8.3 Teradyne copy routine tape</p>																	
<p>1.9 Box of paper tape</p>																	
<p>2.0 TEST STATION SET UP</p>																	
<p>2.1 Check paperwork in the envelope making sure it is complete as required by DEC standard # 101.</p>																	
<p>2.1.1 Test and inspection record.</p>																	
<p>2.1.2 Key sheet and ECO status sheet will contain both CS and etch revision.</p>																	
<p>2.1.3 Quality Control inspection report.</p>																	
<p>2.1.4 PDP8/E progress report (inserted at this time).</p>																	
<p>2.2 Plug the PC04 power cord into the bench outlet.</p>																	
<p>2.3 Insert the H840 module in the Omnibus per "Recommended Module Assignment List. (ASP-PDP8-E-0-4)".</p>																	
<p>2.4 Attach the BC08K-E cables as follows:</p> <table border="1"> <thead> <tr> <th>Cable</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>Reader</td> <td>R1</td> <td>J1 (H840)</td> </tr> <tr> <td>Punch</td> <td>R1</td> <td>J2 (H840)</td> </tr> </tbody> </table>						Cable	From	To	Reader	R1	J1 (H840)	Punch	R1	J2 (H840)			
Cable	From	To															
Reader	R1	J1 (H840)															
Punch	R1	J2 (H840)															
<p>NOTE: If a PC04-BB (Reader) or PC04-PH (Punch) are ordered separately, only one BC08K cable is required.</p>																	
<p>3.0 LOADING PROCEDURE</p>																	
<p>3.1 Deposit Rin Loader (high speed) in PDP8-E per PDP8-E instruction card.</p>																	
<p>3.2 Load Binary Loader using starting address of 7756.</p>																	
<p>3.3 Load diagnostic MAINDEC-0E-DZCA using starting address of 7777.</p>																	
<p>4.0 P08-E CHECKOUT</p>																	
<p>4.1 The following test programs to be run are:</p> <table border="1"> <thead> <tr> <th>TEST NO.</th> <th>USED ON</th> </tr> </thead> <tbody> <tr> <td>PRG0</td> <td>PC04-BM/BL, PC04-R</td> </tr> <tr> <td>PRG1</td> <td>Basic reader and reader control logic test PC04-BM/BL, PC04-PH/PL</td> </tr> <tr> <td>PRG2</td> <td>Basic punch and punch control logic test PC04-BM/BL, PC04-R</td> </tr> <tr> <td>PRG3</td> <td>Reader test, special binary count pattern PC04-BM/BL, PC04-PH/PL</td> </tr> <tr> <td>PRG4</td> <td>Punch test, special binary count pattern PC04-BM/BL, PC04-PH/PL</td> </tr> </tbody> </table>						TEST NO.	USED ON	PRG0	PC04-BM/BL, PC04-R	PRG1	Basic reader and reader control logic test PC04-BM/BL, PC04-PH/PL	PRG2	Basic punch and punch control logic test PC04-BM/BL, PC04-R	PRG3	Reader test, special binary count pattern PC04-BM/BL, PC04-PH/PL	PRG4	Punch test, special binary count pattern PC04-BM/BL, PC04-PH/PL
TEST NO.	USED ON																
PRG0	PC04-BM/BL, PC04-R																
PRG1	Basic reader and reader control logic test PC04-BM/BL, PC04-PH/PL																
PRG2	Basic punch and punch control logic test PC04-BM/BL, PC04-R																
PRG3	Reader test, special binary count pattern PC04-BM/BL, PC04-PH/PL																
PRG4	Punch test, special binary count pattern PC04-BM/BL, PC04-PH/PL																

DEC FORM NO 106-1022 DRA 109	SIZE CODE A SP	NUMBER P08-E-2	REV

ENGINEERING SPECIFICATION				CONTINUATION SHEET	
TITLE P08-E TEST PROCEDURE					
<p>6.0 FINAL OPERATION AND INSPECTION</p>					
<p>6.1 Disconnect the H840 module from the PDP8-E and the cables from the reader and/or punch.</p>					
<p>6.2 Check that the following paperwork has been completed:</p> <ul style="list-style-type: none"> Envelope ECO Status Sheet QC Sheet O/E-Progress Report 					

DEC FORM NO 106-1022 DRA 110	SIZE CODE A SP	NUMBER P08-E-2	REV

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			LEGEND		QUANTITY / VARIATION														
ACCESSORY LIST			D DOCUMENT		PCB-E	PCB-EA	PCB-EF	PCB-EC				KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE		
			DN DOCUMENT CHANGE NOTICE															PA PAPER TAPE ASCII	PB PAPER TAPE BINARY
MADE BY J. Mc Cluskey		CHECKED <i>[Signature]</i>		SECTION															
DATE 4/10/72		DATE 4/14/72																	
ENG L. Narhi		PROD <i>[Signature]</i>		ISSUED SECT.															
DATE 4/10/72		DATE 4/14/72																	
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION			PCB-E	PCB-EA	PCB-EF	PCB-EC											
1	PC04-BL	High Speed Reader and Punch 60 HZ			1	0	0	0											
2	PC04-BM	High Speed Reader and Punch 50 HZ			0	1	0	0											
3	PC04-BL-TABLETOP	High Speed Reader And Punch 60 HZ Tabletop			0	0	1	0											
		Version with P.C. Cover																	
4	PC04-BM-TABLETOP	High Speed Reader and Punch 50 HZ Tabletop			0	0	0	1											
		Version with P.C. Cover																	
5	M840	High Speed Reader and Punch Control				1	1	1											
6	BC08-K	Control Cables			2	2	2	2											
7	LIBKIT-8E-PC8E-01	Maindecs for the High Speed Reader and Punch			1	1	1	1											
8	DEC-00-PC0A-DC1	PC04/PC05 Paper tape Reader Punch Manual			1	1	1	1											
9	ROYAL MC BEE	High Speed Punch Maintenance Manual			1	1	1	1											
10	DEC-00-PC0A-DC1	PC8/E Maintenance Manual			1	1	1	1											
11	A-ML-PC8-E	PC8/E Print set			1	1	1	1											
12	DEC-00-PC-4/5-DWG	PC04/PC05 Paper Tape Reader Punch ^{Engineering} Drawings			1	1	1	1											
13	36-5103	Box of Fanfold tape			4	4	1	1											
NOTE: THE FOLLOWING ITEMS MUST BE ADDED FOR FIELD ADD-ON'S ONLY																			
14	90-8851	Mounting hardware Bag			1	1	0	0											
15	91-7673-06	AC Line Cord 6 Ft.			1	1	1	1											
TITLE Accessory List For PC8-E				ASSY. NO.				SIZE CODE A AL		NUMBER PC-4-3				REV 3		FORM NO PC8E 10005			
SHEET OF				DIST.															

L



DIGITAL EQUIPMENT CORPORATION WORLDWIDE SALES AND SERVICE

MAIN OFFICE AND PLANT

Maynard, Massachusetts, U.S.A. 01754 • Telephone: From Metropolitan Boston 546-8000 • Elsewhere: (617) 897-5111
TWX: 710-347-0212 Cable: DIGITAL MAYN Telx: 94-8457

DOMESTIC

NORTHEAST

REGIONAL OFFICE:
235 Wyman Street, Waltham, Mass. 02154
Telephone: (617) 850-0300/0310 Dataphone: 617-850-3012 or 3013
CONNECTICUT
240 Pomeroy Avenue, Meriden, Conn. 06540
Telephone: (203) 237-8441/7466 Dataphone: 203-237-8005

NEW YORK
Rochester
130 Allens Creek Road, Rochester, New York
Telephone: (716) 461-1700 Dataphone: 716-244-1880
6700 Thompson Road
Syracuse, New York 13211
Telephone: (315) 437-1593/7085 Dataphone: 315-454-4152

MID-ATLANTIC

REGIONAL OFFICE:
U.S. Route 1, Princeton, New Jersey 08540
Telephone: (609) 452-2940

FLORIDA
Orlando
Suite 130, 7001 Lake Ellenor Drive, Orlando, Florida 32809
Telephone: (305) 851-4450 Dataphone: 305-859-2360

GEORGIA

Atlanta
2815 Clearview Place, Suite 100
Atlanta, Georgia 30340
Telephone: (404) 451-7411 Dataphone: 305-859-2360

NORTH CAROLINA
Durham/Chapel Hill
Executive Park
3700 Chapel Hill Blvd.
Durham, North Carolina 27707
Telephone: (919) 489-3347 Dataphone: 919-489-7832

NEW YORK
Fairfield, New Jersey 07006
Telephone: (201) 227-9280 Dataphone: 201-227-9280

NEW JERSEY
Metuchen
195 Main Street, Metuchen, New Jersey 08840
Telephone: (201) 549-4100/2000 Dataphone: 201-549-0144

PRINCETON
U.S. Route 1
Princeton, New Jersey 08540
Telephone: (609) 452-2940 Dataphone: 609-452-2940

MID-ATLANTIC (cont.)

NEW YORK
Long Island
1 Huntington Quadrangle
Suite 1507 Huntington Station, New York 11746
Telephone: (516) 694-4131, (212) 895-8095
Dataphone: 516-293-5693

MANHATTAN
810 7th Ave.
New York, N.Y. 10019
Telephone: (212) 582-1300
PENNSYLVANIA
Philadelphia
Digital Hall
1740 Walton Road, Blue Bell, Pennsylvania 19422
Telephone: (215) 825-4200

TENNESSEE
Knoxville
6311 Kingston Pike, Suite 21E
Knoxville, Tennessee 37919
Telephone: (615) 588-6571 Dataphone: 615-584-0571
WASHINGTON D.C.
Executive Building
6811 Kenilworth Ave., Riverdale, Maryland 20840
Telephone: (301) 779-1600, 752-8397
Dataphone: 301-779-1800 Ex. 53

CENTRAL

REGIONAL OFFICE:
1850 Frontage Road, Northbrook, Illinois 60062
Telephone: (312) 498-2500 Dataphone: 312-498-2500
Ex. 78

INDIANA
Indianapolis
21 Beachway Drive, Suite G
Indianapolis, Indiana 46224
Telephone: (317) 243-8341 Dataphone: 317-247-1212

ILLINOIS
Chicago
1850 Frontage Road
Northbrook, Illinois 60062 Dataphone: 312-498-2500

LOUISIANA
New Orleans
3100 Ridgeland Drive, Suite 108
Metairie, Louisiana 70002
Telephone: (504) 837-0257 Dataphone: 504-833-2800

MICHIGAN
Ann Arbor
230 Huron View Boulevard, Ann Arbor, Michigan 48103
Telephone: (313) 761-1150 Dataphone: 313-769-9883

CENTRAL (cont.)

DETROIT
2377 Greenfield Road
Suite 189
Southfield, Michigan 48075 Dataphone: 313-557-3063

MINNESOTA
Minneapolis
9330 Cedar Ave. South, Minneapolis, Minnesota 55420
Telephone: (612) 854-6562 3-4-5 Dataphone: 612-854-1410
MISSOURI
Kansas City
12401 East 43rd Street, Independence, Missouri 64055
Telephone: (816) 252-2300 Dataphone: 816-461-3100

OHIO
Cleveland
2500 Euclid Avenue, Euclid, Ohio 44117
Telephone: (216) 946-8484 Dataphone: 216-946-8477
DAYTON
3101 Kettering Boulevard
Dayton, Ohio 45439
Telephone: (513) 294-3323 Dataphone: 513-298-4724

OKLAHOMA
Tulsa
3140 S. Winston
Winston Sq. Bldg., Suite 4, Tulsa, Oklahoma 74126
Telephone: (918) 749-4476 Dataphone: 918-749-2714

PENNSYLVANIA
Pittsburgh
400 Penn. Center Boulevard, Pittsburgh, Pennsylvania 15235
Telephone: (412) 243-9404 Dataphone: 412-824-9730

TEXAS
Dallas
Plaza North, Suite 513
2880 LBJ Freeway, Dallas, Texas 75234
Telephone: (214) 620-2051 Dataphone: 214-620-2061

HOUSTON
656 Hornwood Drive
Monterey Park, Houston, Texas 77036
Telephone: (713) 777-3471 Dataphone: 713-777-1071

WISCONSIN
Milwaukee
8531 West Capitol Drive, Milwaukee, Wisconsin 53222
Telephone: (414) 463-9110 Dataphone: 414-463-9115

WEST

REGIONAL OFFICE:
310 Soquel Way, Sunnyvale, California 94066
Telephone: (408) 735-3200 Dataphone: 408-735-1820
ARIZONA
Phoenix
4535 East Broadway Road, Phoenix, Arizona 85040
Telephone: (602) 288-3488 Dataphone: 602-288-2731

CALIFORNIA
Santa Ana
2110 S. Anne Street, Santa Ana, California 92704
Telephone: (714) 979-2460 Dataphone: 714-979-7850
SAN DIEGO
9754 Mission Gorge Road
Suite 110, San Diego, California
Telephone: (714) 280-7880/7910 Dataphone: 714-280-7825

SAN FRANCISCO
1400 Terra Bella, Mountain View, California 94040
Telephone: (415) 964-6200 Dataphone: 415-964-1438

OAKLAND
7850 Edgewater Drive, Oakland, California 94621
Telephone: (415) 635-5657/7830 Dataphone: 415-562-2160

WEST LOS ANGELES
1510 Cotner Avenue, Los Angeles, California 90025
Telephone: (213) 479-3791/4318 Dataphone: 213-478-5626

COLORADO
2901 E. Bellevue Avenue
Suite 5, Englewood, Colorado 80110
Telephone: (303) 770-6150 Dataphone: 303-770-6628

NEW MEXICO
Albuquerque
10200 Manual N.E., Albuquerque, New Mexico 87112
Telephone: (505) 296-5411/5408 Dataphone: 505-294-2330

OREGON
Portland
Suite 168
5310 S.W. Westgate Drive, Portland, Oregon 97221
Telephone: (503) 297-3761/3765

UTAH
Salt Lake City
431 South 3rd East, Salt Lake City, Utah 84111
Telephone: (801) 328-9839 Dataphone: 801-364-9556

WASHINGTON
Bellevue
13401 N.E. Bellevue, Redmond Road, Suite 111
Bellevue, Washington 98005
Telephone: (206) 545-4058/455-5404 Dataphone: 206-747-3754

EUROPEAN HEADQUARTERS

Digital Equipment Corporation International Europe
81 route de l'Aire
THE HAGUE
1211 Geneva 26, Switzerland
Telephone: 42 79 50 Telex: 22 683

FRANCE
Equipment Digital
Centre Siliq
94 533 Rue de Paris, France
Telephone: 687-23-23 Telex: 26-840
GRENOBLE
Equipment Digital
Tour Mangin
16 - Rue de General Mangin, 38, 100 Grenoble, France
Telephone: (76) 87-03-21 Telex: 212-32862

GERMAN FEDERAL REPUBLIC
Digital Equipment GmbH
MUNICH
8 Muenchen 13, Wallensteinplatz 2
Telephone: 0811-35031 Telex: 524-226

COLOGNE
5 Koeln 41, Aachener Strasse 311
Telephone: 0221-40 44 95 Telex: 888-2269
Telegram: Flp Chp Koeln
FRANKFURT
6078 Neu-Isenburg 2
Am Forstus Gravelbruch 5-7
Telephone: 06102-5526 Telex: 41-76-82
HANNOVER
3 Hannover, Podbielskistrasse 102
Telephone: 0511-69-70-95 Telex: 922-952
STUTTGART
D-7201 Konstanz
Marco-Polo-Strasse 1
Telephone: (0711) 25-40 07 Telex: 725-3404

AUSTRIA
Digital Equipment Corporation Ges.m.b.H.
VIENNA
Mariahilferstrasse 136, 1190 Vienna 15, Austria
Telephone: 85 51 86

UNITED KINGDOM
Digital Equipment Co., Ltd.
U.K. HEADQUARTERS
Arkwright Road, Reading, Berks
Telephone: 0734-583555 Telex: 84327

READING
The Evening Post Building, Tessa Road
Reading, Berks
Butts Centre
Albuquerque
Reading, RG1 7ON
Telephone: Reading 583555
Telex: 84326

BIRMINGHAM
29/31, Birmingham Road, Sutton Coldfield, Warwick.
Telephone: (0464) 21-355 5201 Telex: 337 060

MANCHESTER
Digital Equipment Co., Ltd.
Arndale House
Chester Road, Streteford, Manchester M32 9BH
Telephone: (061) 865-7011 Telex: 668666

LONDON
Bilton House, Uabridge Road, Ealing, London W.5
Telephone: 215 35 43 Telex: 22371

EDINBURGH
Shiel House, Craigshill, Livingston,
West Lothian, Scotland
Telephone: 32705 Telex: 727113

NETHERLANDS
Digital Equipment N.V.
THE HAGUE
Sir Winston Churchillian 370
Rijswijk/The Hague, Netherlands
Telephone: 94 9720 Telex: 32533

BELGIUM
Digital Equipment N.V./S.A.
BRUSSELS
108 Rue D'Arion
1940 Brussels, Belgium
Telephone: 02 139256 Telex: 25297

SWEDEN
Digital Equipment AR
STOCKHOLM
Englundsvagen 7, 171 41 Solna, Sweden
Telephone: 98 11 80 Telex: 170 50
Cable: Digital Stockholm

NORWAY
Digital Equipment Corp. A/S
OSLO
Trondheimsveien 47
Oslo 5, Norway
Telephone: 02/68 34 40 Telex: 19079 DEC N

DENMARK
Digital Equipment Aktiebolag
COPENHAGEN
Hellerupvej 66
2900 Hellerup, Denmark

FINLAND
Digital Equipment AB
HELSINKI
Titsmaantie 6
SF-00710 Helsinki 71
Telephone: (000) 370133
Cable: Digital Helsinki

SWITZERLAND
Digital Equipment Corporation S.A.
GENEVA
81 Route de l'Aire
1211 Geneva 26, Switzerland
Telephone: 42 79 50 Telex: 22 683

ZURICH
Schauzerstrasse 21
CH-8006 Zurich, Switzerland
Telephone: 01/60 35 66 Telex: 59059

ITALY
Digital Equipment S.p.A.
MILAN
Corso Garibaldi 49, 20121 Milano, Italy
Telephone: 872 749 894 394 Telex: 33615

SPAIN
Digital Equipment Corporation Ltd.
MADRID
Ataio Ingenieros S.A., Enrique Larreta 12, Madrid 16
Telephone: 215 35 43 Telex: 27249

BARCELONA
Ataio Ingenieros S.A., Grandeur 76, Barcelona 6
Telephone: 221 44 86

ISRAEL
DEC Systems Computers Ltd.
TEL AVIV
Suite 103, Southern Habakuk Street
Tel Aviv, Israel
Telephone: (003) 443114/440763 Telex: 922-33-3163

CANADA
Digital Equipment of Canada, Ltd.
CANADIAN HEADQUARTERS
P.O. Box 11500
Ottawa, Ontario, Canada
K2H 8K8
Telephone: (613) 592-5111 TWX: 610-562-8732

TORONTO
2550 Goldenridge Road, Mississauga, Ontario
Telephone: (416) 270-9400 TWX: 610-462-7118

MONTREAL
9675 Cote de Liesse Road
Dorval, Quebec, Canada 760
Telephone: (514) 636-9393 TWX: 610-422-4124

CALGARY/Edmonton
Suite 140, 6940 Fisher Road S.E.
Calgary, Alberta, Canada
Telephone: (403) 435-4881 TWX: 403-255-7498

VANCOUVER
2210 West 12th Avenue
Vancouver 9, British Columbia, Canada
Telephone: (604) 736-5516 TWX: 610-929-2006

GENERAL INTERNATIONAL SALES
REGIONAL OFFICE
146 Main Street, Maynard, Massachusetts 01754
Telephone: (617) 897-5111
From Metropolitan Boston, 646-8600
TWX: 710-347-0217/0212
Cable: DIGITAL MAYN
Telx: 94-8457

AUSTRALIA
Digital Equipment Australia Pty. Ltd.
SYDNEY
P.O. Box 491, Crows Nest
N.S.W. Australia 3065
Telephone: 438-2566 Telex: AA20740
Cable: DIGITAL SYDNEY

MELBOURNE
80 Park Street, South Melbourne, Victoria, 3205
Telephone: 699-2888 Telex: AA40016

PERTH
643 Murray Street
West Perth, Western Australia 6005
Telephone: 21-4933 Telex: AA92140

ADELAIDE
6 Montrose Avenue
Norwood, South Australia 5067
Telephone: 42-1339 Telex: AA82925

BRISBANE
133 Leichhardt Street
Spring Hill
Brisbane, Queensland, Australia 4000
Telephone: 444047 Telex: 790-40615

NEW ZEALAND
Digital Equipment Corporation Ltd.
AUCKLAND
Hilton House, 430 Queen Street, Box 2471
Auckland, New Zealand
Telephone: 75333

JAPAN
Digital Equipment Corporation International
Kowa Building No. 16 - Annex, First Floor
9-20 Akasaka 1-Chome
Minato-Ku, Tokyo 107, Japan
Telephone: 586-2711 Telex: J-26428

JAPAN (cont.)
Rikei Trading Co., Ltd. (sales only)
Kozato-Kaikan Bldg.
No. 18-14 Nishishinbashi 1-Chome
Minato-Ku, Tokyo, Japan
Telephone: 5915246 Telex: 781-4208

PUERTO RICO
Digital Equipment Corporation de Puerto Rico
MIRAMAR
American Airlines Bldg.
804 Ponce De Leon, Miramar, Puerto Rico
Telephone: 809-723-9869/67 Telex: 385-9056

ARGENTINA
BUENOS AIRES
Varey del Pino, 4071, Buenos Aires
Telephone: 52-3185 Telex: 012-7284

BRAZIL
RIO DE JANEIRO - GB
Ambrex S.A.
Rua Ceara, 104, 2 e 3 andares ZC - 29
Rio De Janeiro - GB
Telephone: 264-7486/0481/7625

SAO PAULO
Ambrex S.A.
Rua Ipiranga, 535
Sao Paulo - SP
Telephone: 52-7966/1570, 51-0912

PORTO ALEGRE - RS
Rua Coronel Vicente 421/101
Porto Alegre - RS
Telephone: 24-7411

CHILE
SANTIAGO
Coastal Chile Ltda. (sales only)
Casilla 14588, Correo 15,
Telephone: 366713 Cable: COACHIL

INDIA
BOMBAY
Hindicon Computers Pvt. Ltd.
69/A, L. Jagmohandas Marg
Bombay 6 (WB) India
Telephone: 38-1615 38-5344 Telex: 011-2994 Plenthy
Cable: TEKHIND

MEXICO
MEXICO CITY
Mexitek, S.A.
Eugenia 408 Deptos. 1
Ajudo Postal 12-1012
Mexico 12, D.F.
Telephone: (905) 536-09-10

PHILIPPINES
MANILA
Stanford Computer Corporation
P.O. Box 1838
416 Dasmarinas St., Manila
Telephone: 49-68-96 Telex: 742-0352

VENEZUELA
CARACAS
Coasin, C.A.
Acazotas 5039
Sabana Grande No. 1, Caracas 105
Telephone: 72-8652, 72-9637
Cable: INSTRUVEN