

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

digital equipment corporation • maynard, massachusetts

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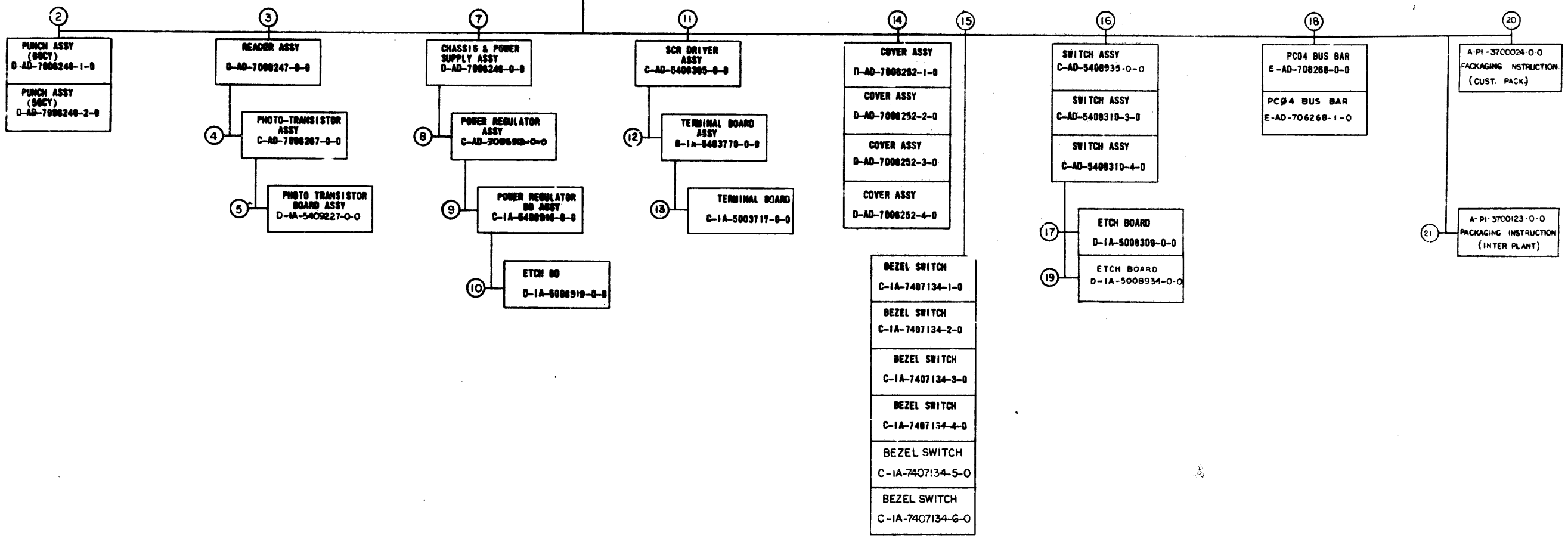
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ELIPLTOP	FOCAL
DIGITAL	COMPUTER LAB

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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

MODEL	DESCRIPTION	CY.	COMPOSITION																
			FIND NUMBER																
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PC04-B, BE& BL	PUNCH & READER	80	-1	X	X	X		X	X	X									
PC04-BA, BC & BM	PUNCH & READER	50	-2	X	X	X		X	X	X									
PC04-C	PUNCH READER DRIVER	60	-1	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						
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	X								



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

REV	CHANGE NO.	DATE	BY	CHKD
A	00006	7-29-69	T. Quillen	BECKNER
B	00009	7-17-69	T. Quillen	BECKNER
C	00011	10-10-69	T. Quillen	BECKNER
D	00013	1-6-67	G. Beckner	G. Beckner
E	00014	1-15-70	G. Beckner	G. Beckner
F	00002	7-21-70	I. Morris	I. Morris
G	00019	3-19-70	T. Quillen	T. Quillen
H	00019	5-17-70	C. Youse	C. Youse
I	00019	3-20-70	C. Youse	C. Youse
J	00021	4-21-70	A. E. Man	A. E. Man
K	00022	7-2-70	C. Youse	C. Youse
L	00016	5-21-70	M. Leis	M. Leis
M	00032	7-2-70	C. Youse	C. Youse
N	00036	1-23-71	M. Leis	M. Leis
P	00041	3-26-71	M. Leis	M. Leis
R	00044	4-19-71	L. Lawrence	L. Lawrence
S	00046	2-24-71	M. Leis	M. Leis
T	00051	6-11-71	E. Luitig	E. Luitig
U	0008E	6-21-71	M. Leis	M. Leis
V	00054	8-3-72	A. Williams	A. Williams
W	00057	3-20-72	A. Williams	A. Williams

FIRST USED ON OPTION/MODEL
PC04

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

MATERIAL: ---
FINISH: ---

DATE: 6/6/69
DATE: 6/6/69
DATE: 6/6/69

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: DRAWING INDEX LIST, PC04

NEXT HIGHER ASSY: A-ML-PC04

SCALE: ---
SHEET: 1 OF 2

REV: Z

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES DECIMALS FRACTIONS ANGLES FINISH SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS

MECHANICAL				DEPT USAGE				MECHANICAL				DEPT USAGE				ELECTRICAL				DEPT USAGE			
FIND NO	DESCRIPTION	PART NO	DEPT USAGE	FIND NO	DESCRIPTION	PART NO	DEPT USAGE	FIND NO	DESCRIPTION	PART NO	DEPT USAGE	FIND NO	DESCRIPTION	PART NO	DEPT USAGE	FIND NO	DESCRIPTION	PART NO	DEPT USAGE				
	PC#4 - READER & PUNCH (PL)	A-PL-PC#4-B-#		4	PHOTO TRANSISTOR ASSY	C-1A-7008267-0-0		16	SWITCH ASSY	C-AD-5409525-0-0		1	POWER TAPE READER	A-ML-PC#4-A									
	CHAD BOX	B-MD-7405300-0-0			TEST SCHEMATIC	D-SS-7406267-T-1			SWITCH ASSY	C-AD-5408310-3-0			PC#4-A READER & PUNCH	A-ML-PC#4-A									
	TAPE CONTAINER	D-MD-7407131-0-0		5	TEST PROCEDURE	A-SP-7406267-T-1			SWITCH ASSY	C-AD-5408310-4-0			PC#4-C READER & PUNCH & DRIVER	A-ML-PC#4-C									
	I/O CABLE ASSY	C-1A-7006261-0-0			PHOTO TRANSISTOR BD ASSY	D-1A-5409227-0-0			SWITCH ASSY (PL)	A-PL-5408310-0-0			PC#4-CA READER & PUNCH & DRIVER	A-ML-PC#4-CA									
	PC#4 PA PUNCH	D-UA-PC#4-PA-B		8					BAR SPACER SW. BD.	B-MD-7407175-0-0			PC#4-P PUNCH	A-ML-PC#4-P									
	BRK. RESISTOR	C-MD-7408091-0-0		7	CHASSIS & POWER SUPPLY ASSY	D-AD-7006246-0-0		17	PCD SWITCH BOARD	D-1A-5009309-0-0			POWER AND CONTROL SCHEMATIC										
	SCR MODULE RETAINER	C-1A-7405642-0-0			CHASSIS & POWER SUPPLY (PL)	A-PL-7008246-0-0		19	FLIP CHIP MODULE	D-MD-1402230-0-0			DIAGRAM	D-BS-PC#4-D-2									
	MOUNTING BAR	C-1A-7408339-0-0			PANEL FRONT	D-1A-7407075-0-0			PR SWITCH BOARD	D-1A-5008934-0-0			MODULE UTILIZATION	D-MU-PC#4-D-3									
	PACKAGING INSTRUCTIONS	A-PI-3700024-0-0			BRKT MTG BAR RIGHT HAND	C-1A-7407065-1-0							MODULE UTILIZATION (PL)	A-MU-PC#4-D-3									
	PCD HEAD REPAIR KIT	D-AD-7008246-1-0			BRKT MTG BAR LEFT HAND	C-1A-7407065-2-0							ENGINEERING SPECS	A-EN-PC#4-D-5									
	PUNCH ASSY (BOCY)	D-AD-7008246-2-0			CHASSIS	E-1A-7407074-0-0		20	PACKAGING INSTRUCTION	A-PI-3700024-0-0			WIRELIST	K-WL-PC#4-D-5									
	PUNCH ASSY (SOCT)	A-PL-7008246-8-0			COVER, JONES STRIP	C-MD-5309644-0-0			OUTER SHIPPING CARTON	A-PS-9905046-0-0			WIRELIST	K-WL-PC#4-D-7									
	CHAD TUBE	B-MD-7407386-0-0			HARNESS, CONTROL	D-1A-7008311-0-0			INNER SHIPPING CARTON	A-PS-9905047-0-0													
	PUNCH MTG CHASSIS	D-1A-7407071-0-0			HARNESS 1/0 110 VAC	D-1A-7326310-0-0			BOTTOM PAD	A-PS-9905053-0-0			PRINTED CIRCUIT BLKS	PC-1403770-D-1									
	HINGE	B-MD-7407083-0-0			HARNESS POWER SUPPLY	D-1A-7008308-0-0			FRONT SPACER	A-PS-9905054-0-0													
	BRKT FEED	D-MD-7408098-0-0			DECAL (PC#4)	A-DC-7407476-0-0			SIDE SPACER	A-PS-9905055-0-0			BUS BAR (PC#4)	E-AD-7005268-0-0									
	TEST CHUTE	D-1A-7408171-0-0							REAR SUPPORT	A-PS-9905032-0-0			BUS BAR (PL)	E-AD-7005268-0-0									
	TAPE DEPRESSOR	D-SC-1209925-0-0			PWR REGULATOR ASSY	C-AD-7008942-0-0			TOP SPACER	A-PS-9905056-0-0													
	PIV	B-MD-7408172-0-0			PWR REGULATOR (PL)	A-PL-7008942-0-0			TORO PAD	A-PS-9905044-1-0													
	PULLY (BOCY)	B-MD-7408088-1-0			HEATSINK, PWR REGULATOR	C-MD-7407066-0-0			POLY BAG	A-PS-9905129-7-0													
	PULLY (SOCT)	B-MD-7408088-2-0																					
	TORSION SPRING	C-SC-1209924-0-0																					
	READER ASSY	D-AD-7008247-0-0		9	PWR REGULATOP BOARD ASSY	C-1A-5408918-0-0																	
	READER ASSY (PL)	A-PL-7008247-0-0																					
	TAPE PATH GUIDE	D-MD-7407076-0-0		10	ETCH BOARD	D-1A-5008919-0-0																	
	READER PLATE	D-MD-7407065-0-0																					
	BLOCK READER	B-MD-7407118-0-0																					
	SHAFT READER PLATE	B-MD-7407120-0-0																					
	ARM SPRING	B-MD-7407118-0-0																					
	SPRING BULB	A-MD-7407118-0-0																					
	DEPRESSOR TAPE	C-MD-7407121-0-0																					
	BRKT TAPE HOLD DOWN	C-MD-7407144-0-0																					
	SLO SYN MOTOR REWORK	B-1A-7407684-0-0																					
	SHIM	B-MD-7407680-0-0																					
	LENS	B-MD-7404969-0-0																					

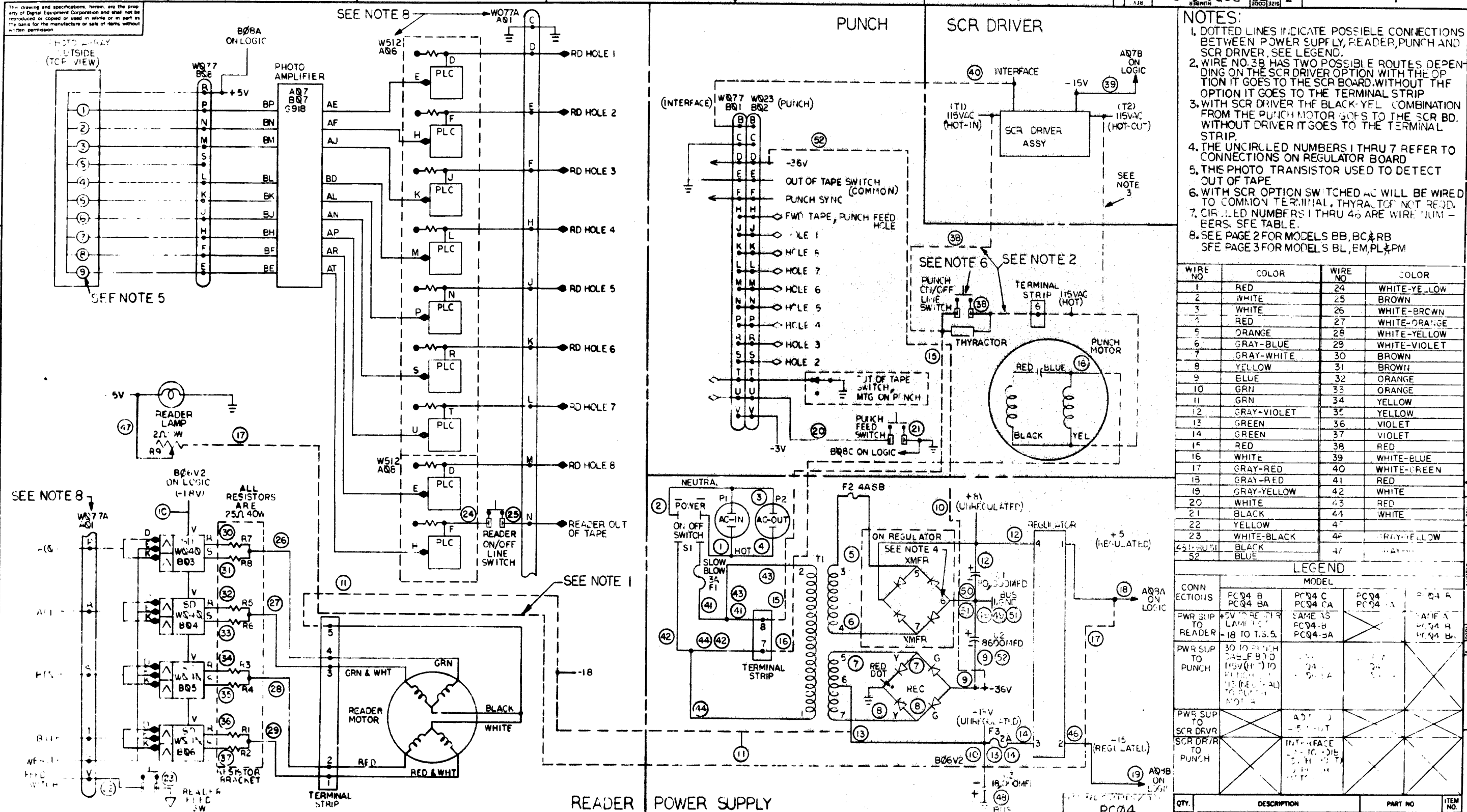
1. UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES
 2. DECIMALS FRACTIONS ANGLES
 3. FINISH SURFACE QUALITY
 4. REMOVE BURRS AND BREAK SHARP CORNERS
 5. MATERIAL
 6. FINISH
 7. SCALE
 8. SHEET 2 OF 2

UNLESS OTHERWISE SPECIFIED	DATE	DATE	DATE
UNLESS OTHERWISE SPECIFIED	DATE	DATE	DATE
TOLERANCES	DATE	DATE	DATE
DECIMALS FRACTIONS ANGLES	DATE	DATE	DATE
FINISH SURFACE QUALITY	DATE	DATE	DATE
REMOVE BURRS AND BREAK SHARP CORNERS	DATE	DATE	DATE
MATERIAL	DATE	DATE	DATE
FINISH	DATE	DATE	DATE
SCALE	DATE	DATE	DATE
SHEET 2 OF 2	DATE	DATE	DATE

digital EQUIPMENT CORPORATION
 DRAWING INDEX
 LIST 0024
 SIZE CODE: DDI-004-0-1
 NUMBER: 13
 DIST: 5

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PC04-02



- NOTES:**
1. DOTTED LINES INDICATE POSSIBLE CONNECTIONS BETWEEN POWER SUPPLY, READER, PUNCH AND SCR DRIVER. SEE LEGEND.
 2. WIRE NO. 38 HAS TWO POSSIBLE ROUTES. DEPENDING ON THE SCR DRIVER OPTION WITH THE OPTION IT GOES TO THE SCR BOARD. WITHOUT THE OPTION IT GOES TO THE TERMINAL STRIP.
 3. WITH SCR DRIVER THE BLACK-YEL. COMBINATION FROM THE PUNCH MOTOR GOES TO THE SCR BD. WITHOUT DRIVER IT GOES TO THE TERMINAL STRIP.
 4. THE UNCIRCLED NUMBERS 1 THRU 7 REFER TO CONNECTIONS ON REGULATOR BOARD.
 5. THIS PHOTO TRANSISTOR USED TO DETECT OUT OF TAPE.
 6. WITH SCR OPTION SWITCHED AC WILL BE WIRED TO COMMON TERMINAL. THYRACTOR NOT RECD.
 7. CIRCLED NUMBERS 1 THRU 46 ARE WIRE NUMBERS. SEE TABLE.
 8. SEE PAGE 2 FOR MODELS BB, BC & RB. SEE PAGE 3 FOR MODELS BL, EM, PL & PM.

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	WHITE-BLUE
17	GRAY-RED	40	WHITE-GREEN
18	GRAY-RED	41	RED
19	GRAY-YELLOW	42	WHITE
20	WHITE	43	RED
21	BLACK	44	WHITE
22	YELLOW	45	WHITE
23	WHITE-BLACK	46	GRAY-YELLOW
43	GRAY	47	GRAY
52	BLUE		

LEGEND

CONN. CONNECTIONS	MODEL PC04 B	MODEL PC04 C	MODEL PC04 A	MODEL PC04 R
PWR SUP TO READER LAMP	PC04 BA	PC04 CA	PC04 AA	PC04 RA
PWR SUP TO PUNCH	PC04 BA	PC04 CA	PC04 AA	PC04 RA
PWR SUP TO SCR DRVR	PC04 BA	PC04 CA	PC04 AA	PC04 RA
SCR DRVR TO PUNCH	PC04 BA	PC04 CA	PC04 AA	PC04 RA

REV	DATE	BY	CHK	DESCRIPTION
1	11/17/71	WILLIAMS	WILLIAMS	REVISED
2	11/19/71	WILLIAMS	WILLIAMS	REVISED
3	11/19/71	WILLIAMS	WILLIAMS	REVISED
4	11/19/71	WILLIAMS	WILLIAMS	REVISED
5	11/19/71	WILLIAMS	WILLIAMS	REVISED
6	11/19/71	WILLIAMS	WILLIAMS	REVISED
7	11/19/71	WILLIAMS	WILLIAMS	REVISED
8	11/19/71	WILLIAMS	WILLIAMS	REVISED

NOTE 9: SEE NOTE 4 ON AD-7006268-0-0 REFERENCE: 7006268-0-0 LOGIC BLOCK

PC04 PARTS LIST

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES		
1	TOLERANCES		
1	DECIMALS FRACTIONS ANGLES		
1	± 0.05 ± 1/64 ± 0°30'		
1	FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		
1	MATERIAL		
1	FINISH		

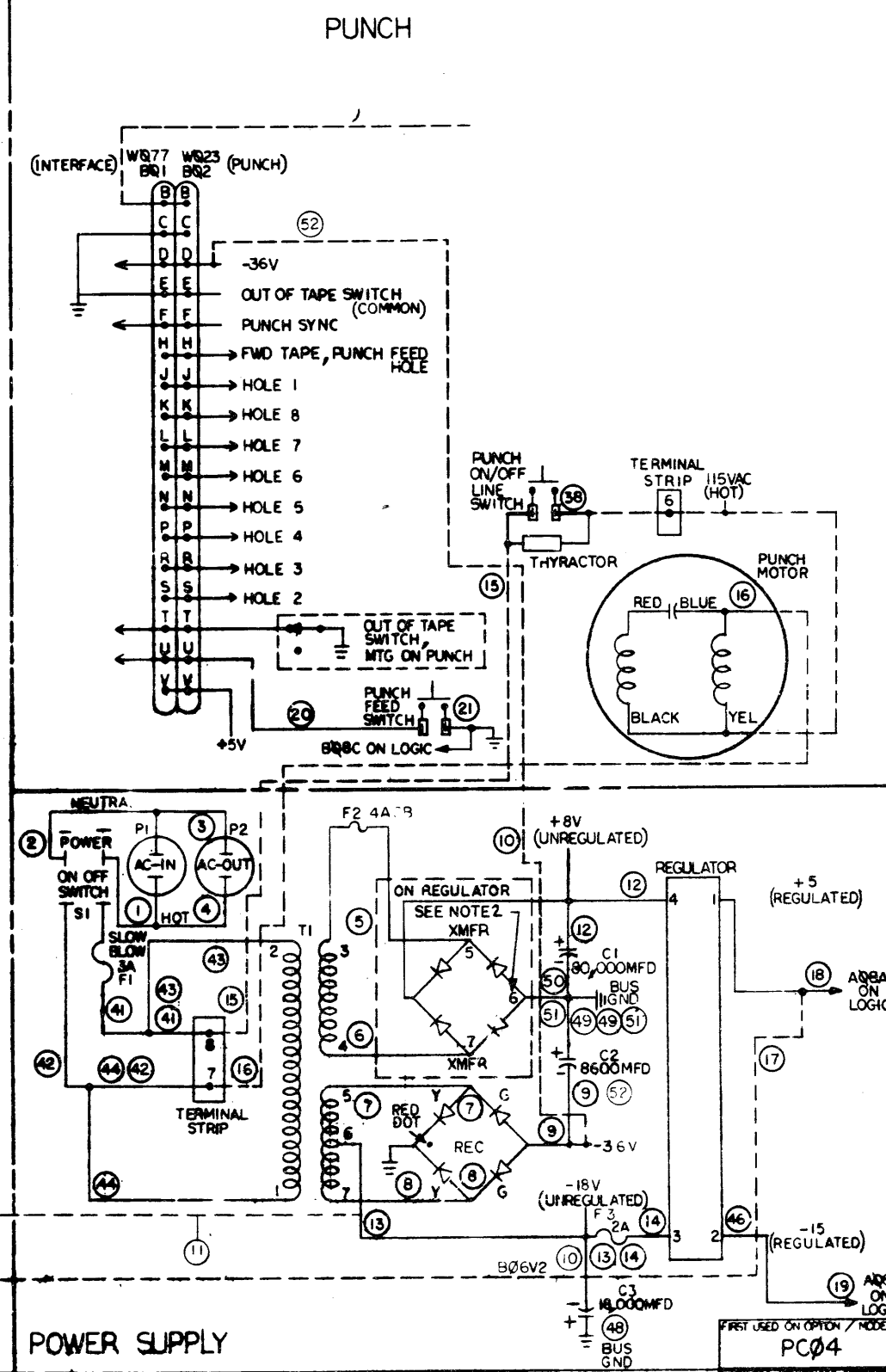
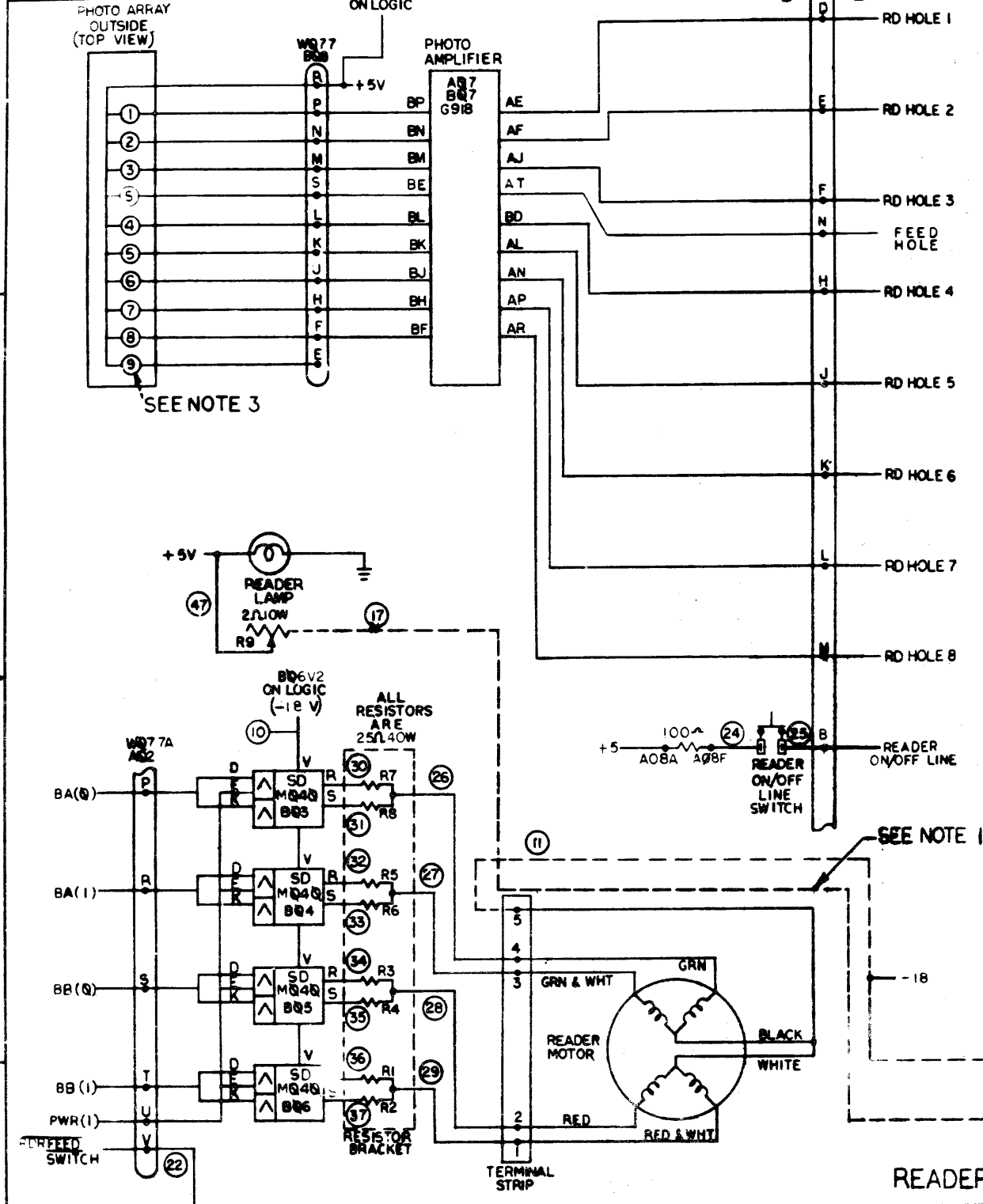
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POWER AND CONTROL SCHEMATIC DIAGRAM

SCALE: NONE

SHEET 1 OF 3

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NOTES:

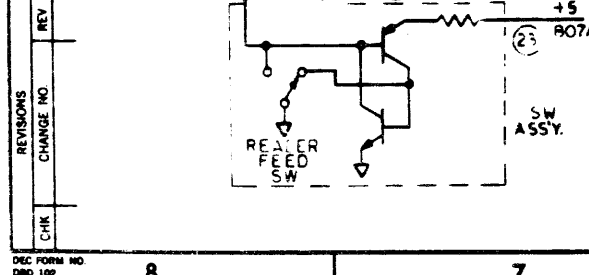
1. DOTTED LINES INDICATE POSSIBLE CONNECTIONS BETWEEN POWER SUPPLY, READER AND PUNCH.
2. THE UNCIRCLED NUMBERS 1 THRU 7 REFER TO CONNECTIONS ON REGULATOR BOARD.
3. THIS PHOTO TRANSISTOR IS NOT USED.
4. CIRCLED NUMBERS 1 THRU 46 ARE WIRE NUMBERS. SEE TABLE.

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		
17	GRAY-RED		
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
48THRU51	BLACK	47	GRAY-RED
52	BLUE		

LEGEND

CONNECTIONS	MODEL		
	PC04 BB PC04 BC	PC04 P PC04 PA	PC04 R6
PWR SUP TO READER	5V TO READER LAMP PNT 18 TO T.S.5		SAME AS PC04-B PC04-BC
PWR SUP TO PUNCH	30 TO PUNCH CABLE B01D 115V (HOT) TO PUNCH SW 115 (NEUTRAL) TO PUNCH MOTOR		SAME AS PC04 BB PC04 BC



REFERENCE 7006268-0 LOGIC BLOCK

REV	DESCRIPTION	DATE	BY	CHK
1	REVISED	1/10/68	J. B. ...	J. B. ...
2	REVISED	2/10/68	J. B. ...	J. B. ...
3	REVISED	3/10/68	J. B. ...	J. B. ...

PC04

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES

TOLERANCES

DECIMALS FRACTIONS ANGLES

±.005 ±.004 ±.007

FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

QUANTITY

DESCRIPTION

PART NO.

ITEM NO.

PARTS LIST

EQUIPMENT CORPORATION

MADE IN MASSACHUSETTS

TITLE

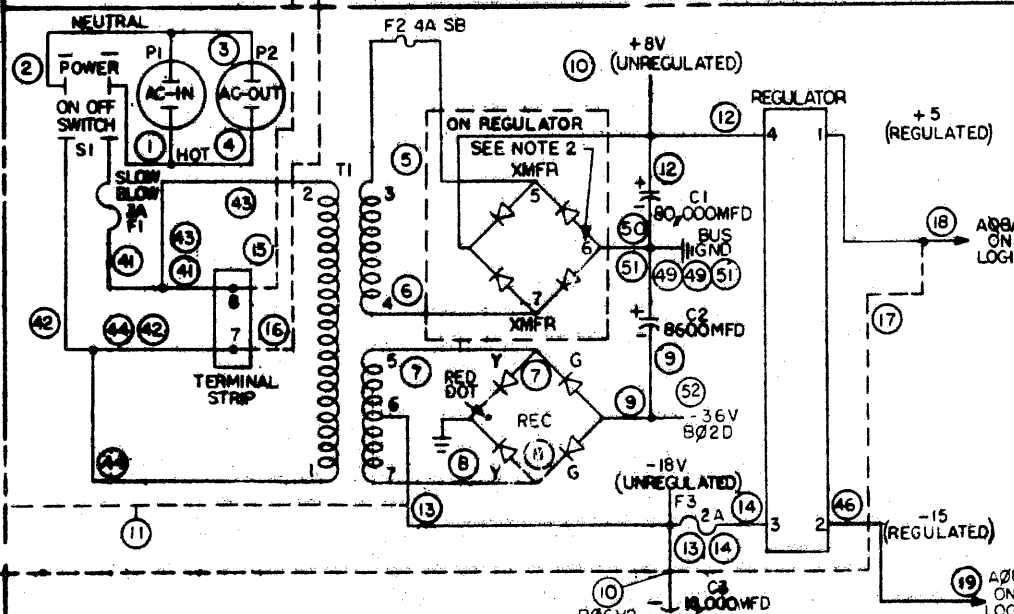
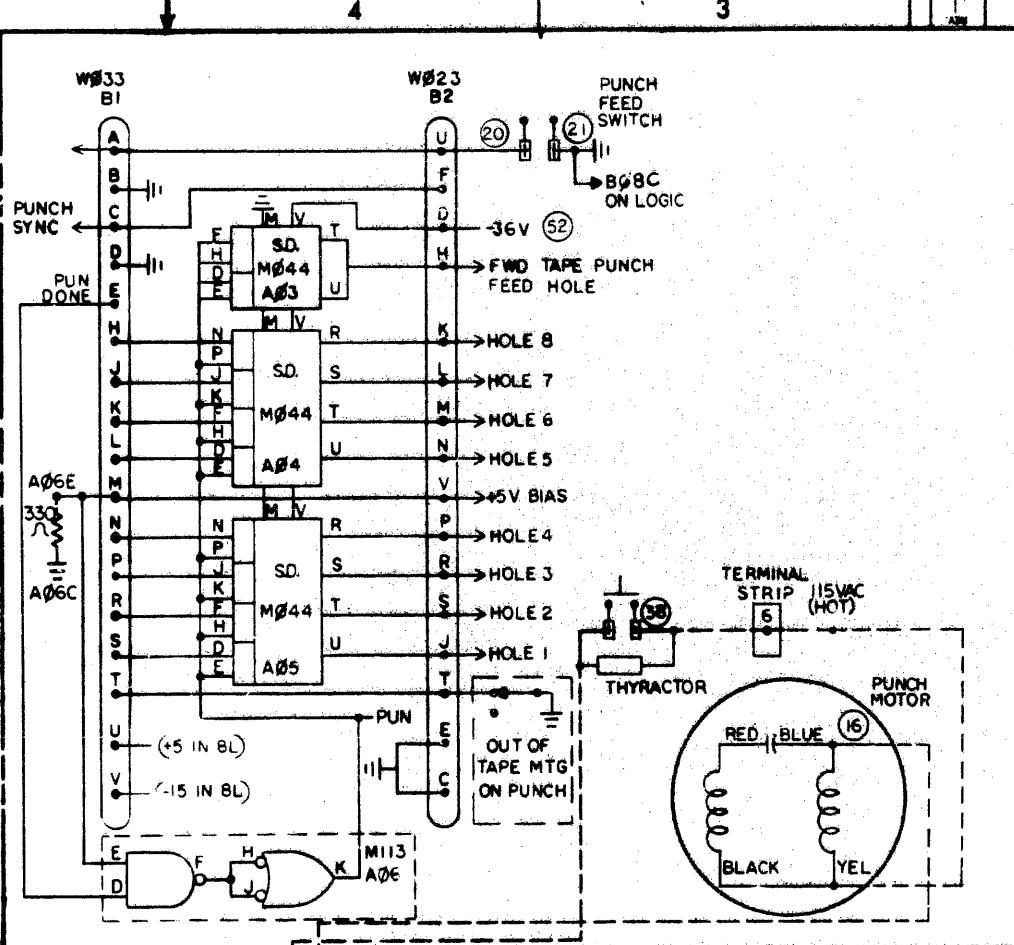
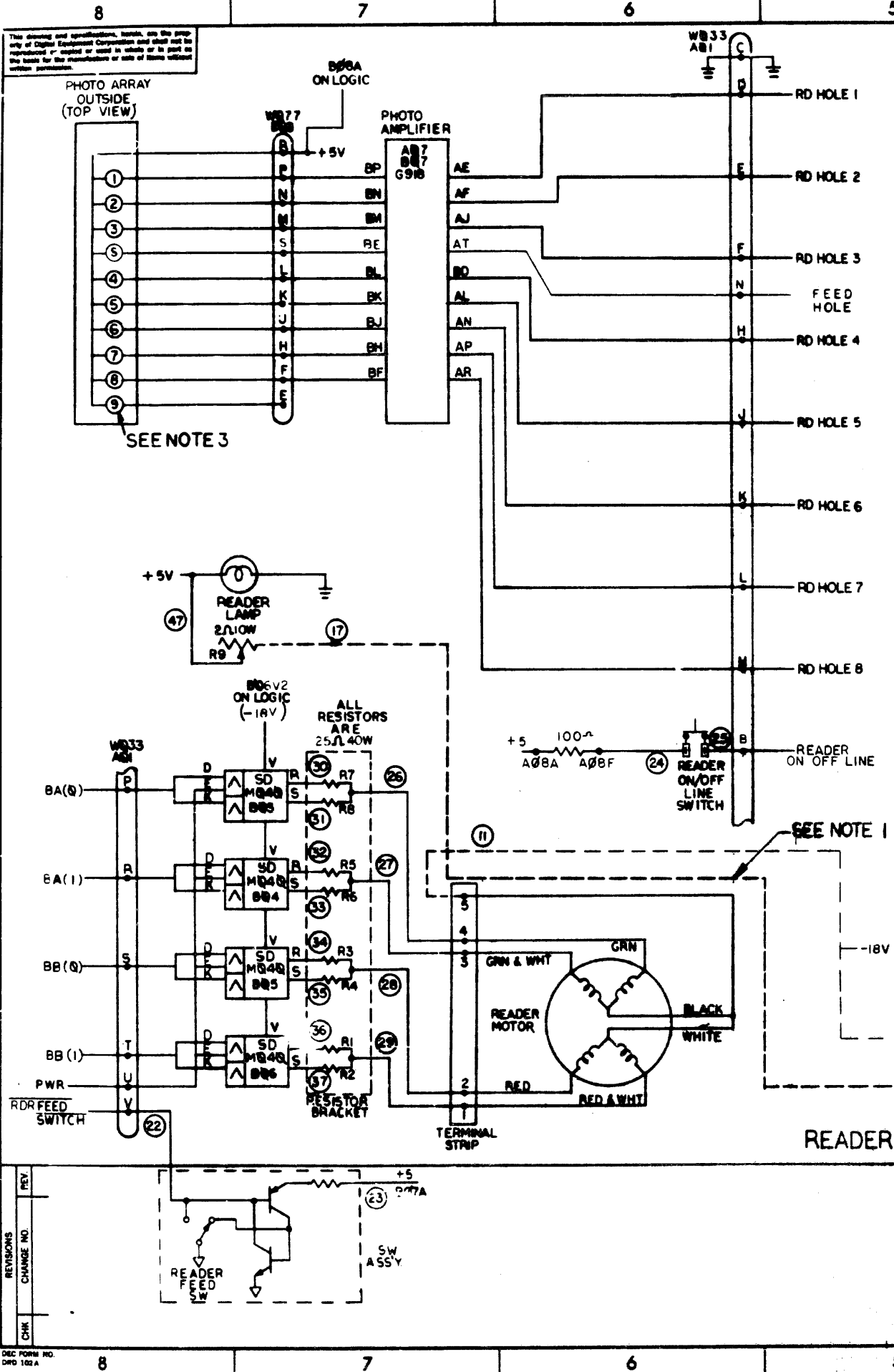
POWER AND CONTROL SCHEMATIC DIAGRAM (81)

SCALE NONE

DIST. DBS PC04-0-2

REV. J

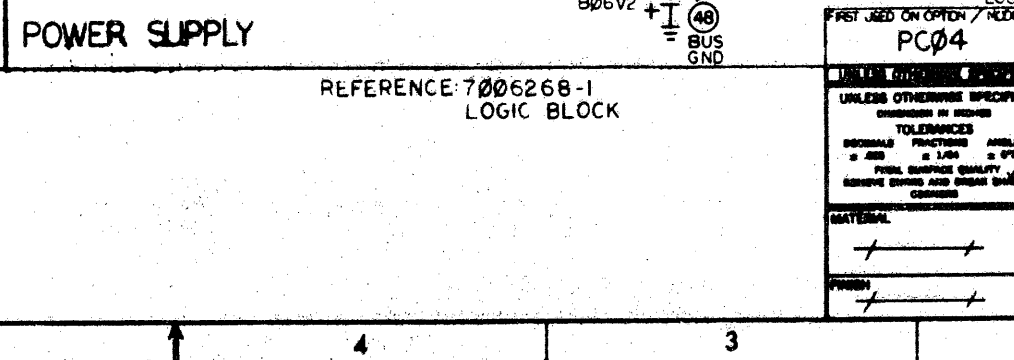
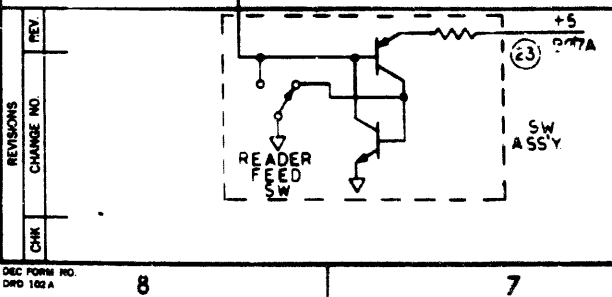
SHEET 2 OF 3



NOTES:
 1. DOTTED LINES INDICATE POSSIBLE CONNECTIONS BETWEEN POWER SUPPLY, READER AND PUNCH.
 2. THE UNCIRCLED NUMBERS 1 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			
CONNECTIONS	MODEL		
	PC04 3L PC04 3M	PC04 PL PC04 PM	PC04 RB PC04 RM
PWR SUP TO READER	+5V TO READER LAMP POT 18 TO T.S.5		SAME AS PC04-BL PC04-BM
PWR SUP TO PUNCH	30 TO PUNCH CABLE B02D 115V (HOT) TO PUNCH SW 115 (NEUTRAL) TO PUNCH MOTOR		SAME AS PC04 BL PC04 BM



REFERENCE: 7006268-1
 LOGIC BLOCK

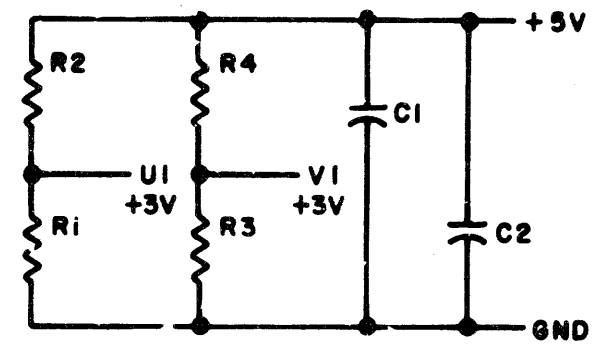
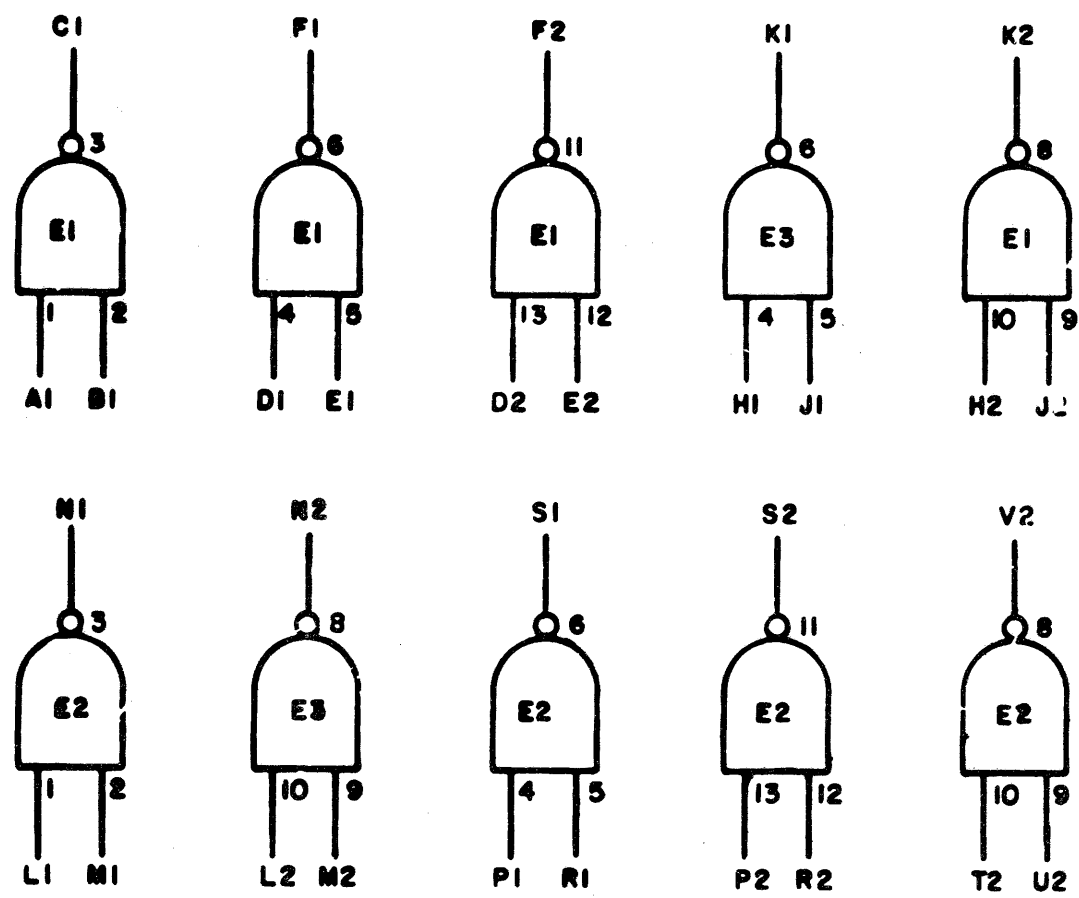
QTY.	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST			
QTY.	DESCRIPTION	PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES DIMENSIONAL FINISHES MATERIAL PUNISH	TITLE POWER AND CONTROL SCHEMATIC DIAGRAM (8L, 8E, 8M, 8F) NUMBER DBS PC04-0-2 REV. J	EQUIPMENT CORPORATION BATHURST MASSACHUSETTS DATE 1/10/68 DRAWN BY J. S. ... CHECKED BY J. S. ... SCALE NONE SHEET 3 OF 3
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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.

REV. A	REV. B	REV. C
0418	0401	0400

DRN	DATE
CHK'D	DATE
ENG	DATE
PROD	DATE

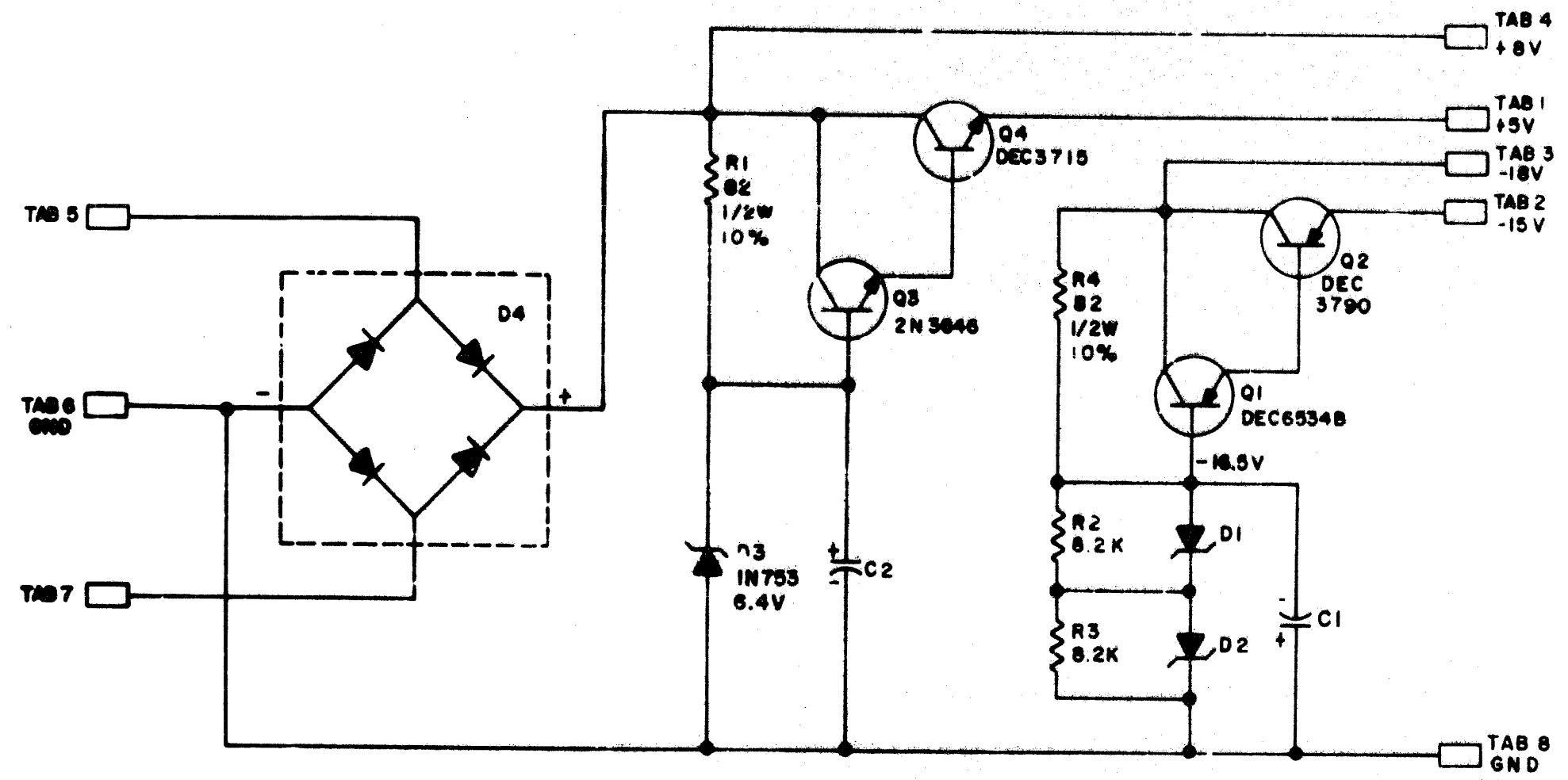
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	FIA

EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

REV C
 NUMBER 5408308-0-1
 SIZE B
 CODE CS
 3215

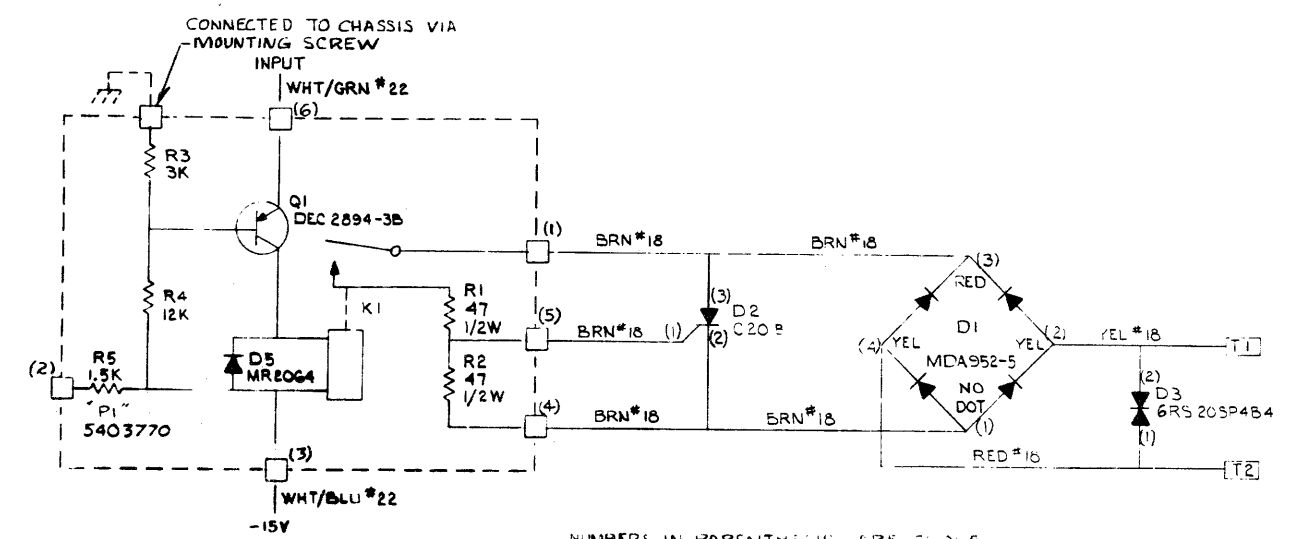
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 COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION



UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE 0.05 MFD 35V 20%
 DIODES ARE IN756A, 0.2V
 D4 IS MDA800-3
 RESISTORS ARE 1/4W 5%
 TABS ARE AMP 41290

REV	DATE	TRANSISTOR & DIODE CONVERSION CHART		EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE PCO POWER SUPPLY REGULATOR 5408308		
CS	DATE	DEC	EIA		SIZE B	CODE CS	NUMBER 5408308-0-1
CS	DATE	DEC	EIA	PRINTED CIRCUIT REV	D		

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. THIS DRAWING IS THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM DIGITAL EQUIPMENT CORPORATION.



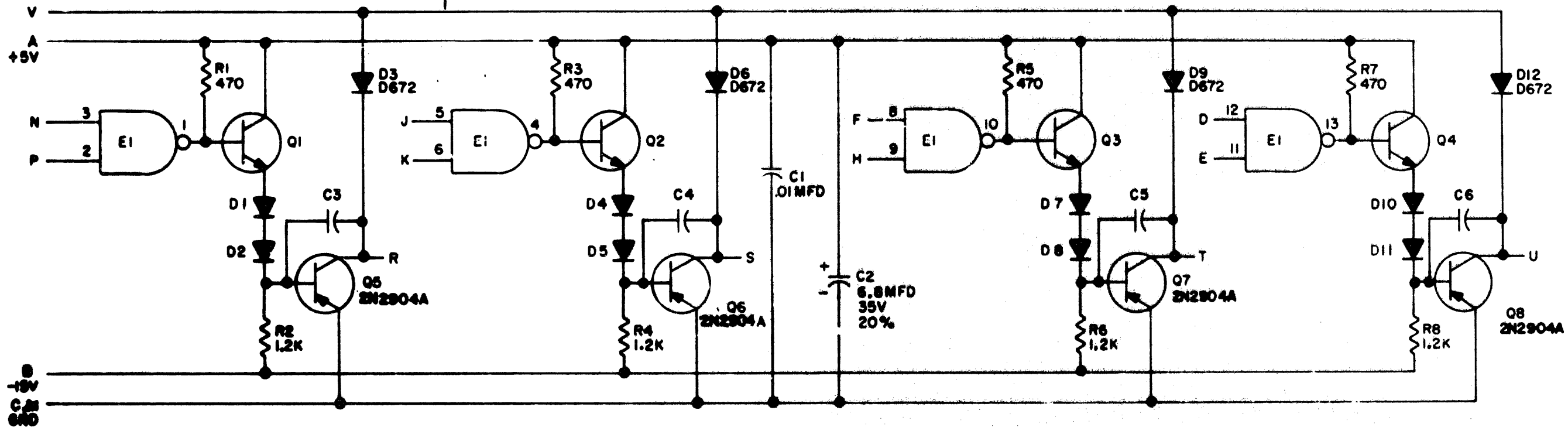
NUMBERS IN PARENTHESES ARE THOSE LISTED IN C.A.D. DRAWING AND NOT MARKED ON COMPONENTS

UNLESS OTHERWISE INDICATED:
 RESISTORS = 1/4W, 5%
 T INDICATES MALE AMP FASTON TAB
 □ ETCH LAND FOR SOLDERING WIRES
 K1 IS WHEELLOCK 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				SIZE CODE	NUMBER
				DCS	5408385-0-1
				SHEET	REV.
					A

REV A 5408385-0-1

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UNLESS OTHERWISE INDICATED.
 RESISTORS ARE 1/4W, 10%
 DIODES ARE D004
 E1 IS DEC7401N
 TRANSISTORS ARE DEC3009B
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 CAPACITORS ARE 100pf, 100V, 5%

REV	NO	DATE
C		
B		
A		

DRW. Butler	DATE 6/23/69
CHKD. [Signature]	DATE 7/1/69
ENG. [Signature]	DATE 7/1/69
PROD.	DATE

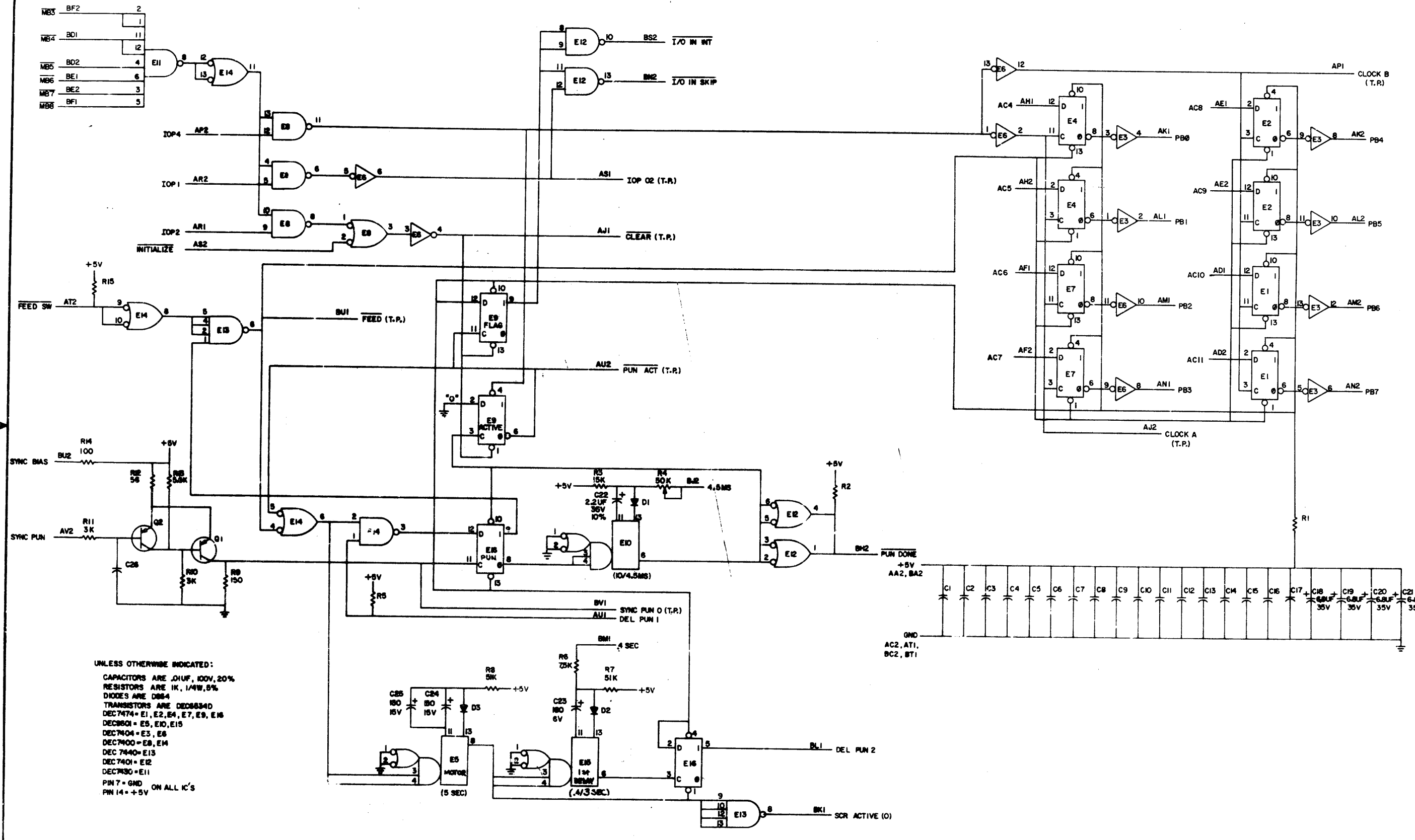
TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	
D004	IN3006		
2N2904A	2N2904		
DEC3009B	2N3009		

DIGITAL EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE 4-100MA SOLENOID DRIVER M044			
SIZE B	CODE CS	NUMBER M044-0-1	REV C
PRINTED CIRCUIT REV			

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X 1-0-011W SC D
A2M 3003 J15

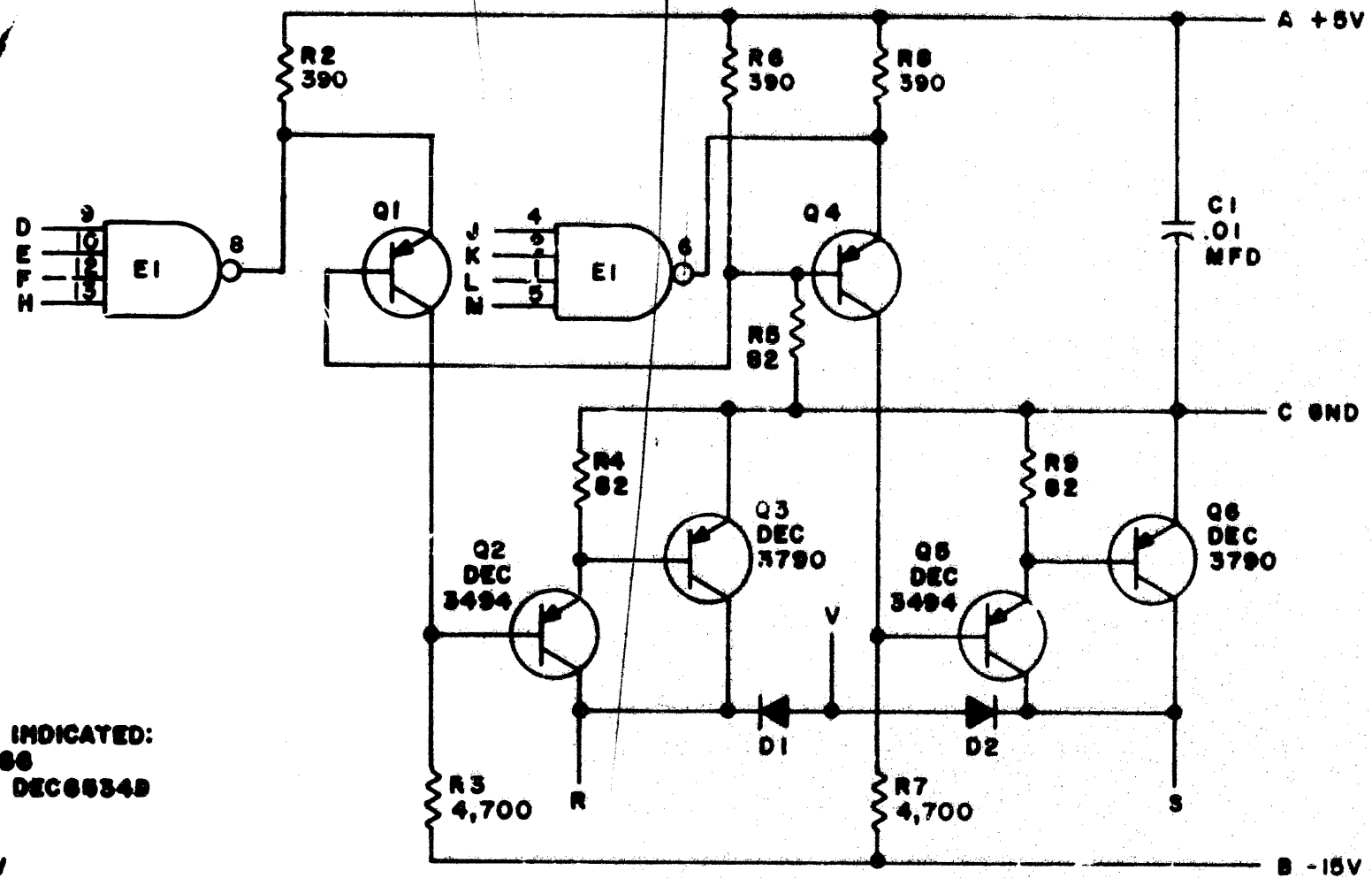


UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01UF, 100V, 20%
 RESISTORS ARE 1K, 1/4W, 5%
 DIODES ARE DBS4
 TRANSISTORS ARE DEC6834D
 DEC7474 = E1, E2, E4, E7, E9, E16
 DEC8001 = E9, E10, E15
 DEC7404 = E3, E6
 DEC7400 = E8, E14
 DEC7440 = E13
 DEC7401 = E12
 DEC7430 = E11
 PIN 7 = GND ON ALL IC'S
 PIN 14 = +5V

TRANSISTOR & DIODE CONVERSION CHART				TITLE PUNCH CONTROL M710	
DEC	DBS	DBS	DBS	REV	REV
				D	CS
EQUIPMENT CORPORATION				PART NUMBER M710-0-1	
PRINTED CIRCUIT REV.				REV. K	

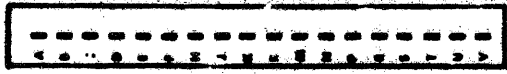
THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1967 BY DIGITAL EQUIPMENT CORPORATION

REV E
NUMBER M040-0-1
SIZE CODE B CS
3215



UNLESS OTHERWISE INDICATED:
 DIODES ARE MR2066
 TRANSISTORS ARE DEC6534B
 E1 IS DEC7400N
 PIN 7 ON IC = GND
 PIN 14 ON IC = +5V
 RESISTORS ARE 1/4W, 10%

PARTS LIST A-PL-M040-0-0



REV	E
00001	
00002	

DRN	DATE
20. Miller	5-18-67
CHK'D	DATE
<i>[Signature]</i>	7/22/67
DATE	
7/19/67	
DATE	
DATE	

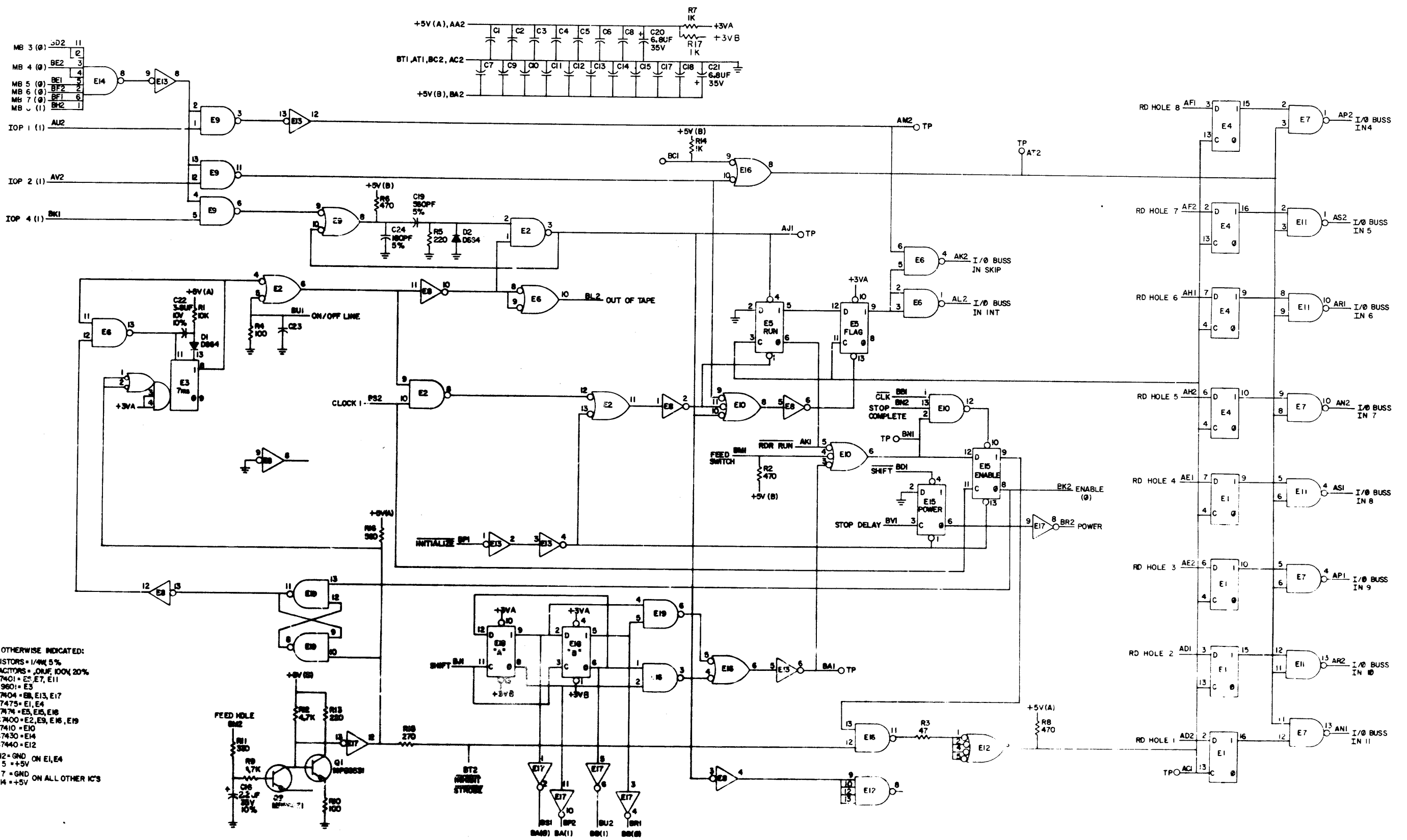
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3494	SAME		
DEC3790	2N3790		
DEC6534B	MP6534		
D882	1N848		
MR2066	1N4003		

EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

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

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Q 1-0-0502 W 30 0
A 20 0 0002 1/5



UNLESS OTHERWISE INDICATED:
 RESISTORS = 1/4W 5%
 CAPACITORS = .01µF 100V 20%
 DEC7401 = E5, E7, E11
 DEC9601 = E3
 DEC7404 = E8, E13, E17
 DEC7475 = E1, E4
 DEC7476 = E5, E15, E16
 DEC7400 = E2, E9, 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

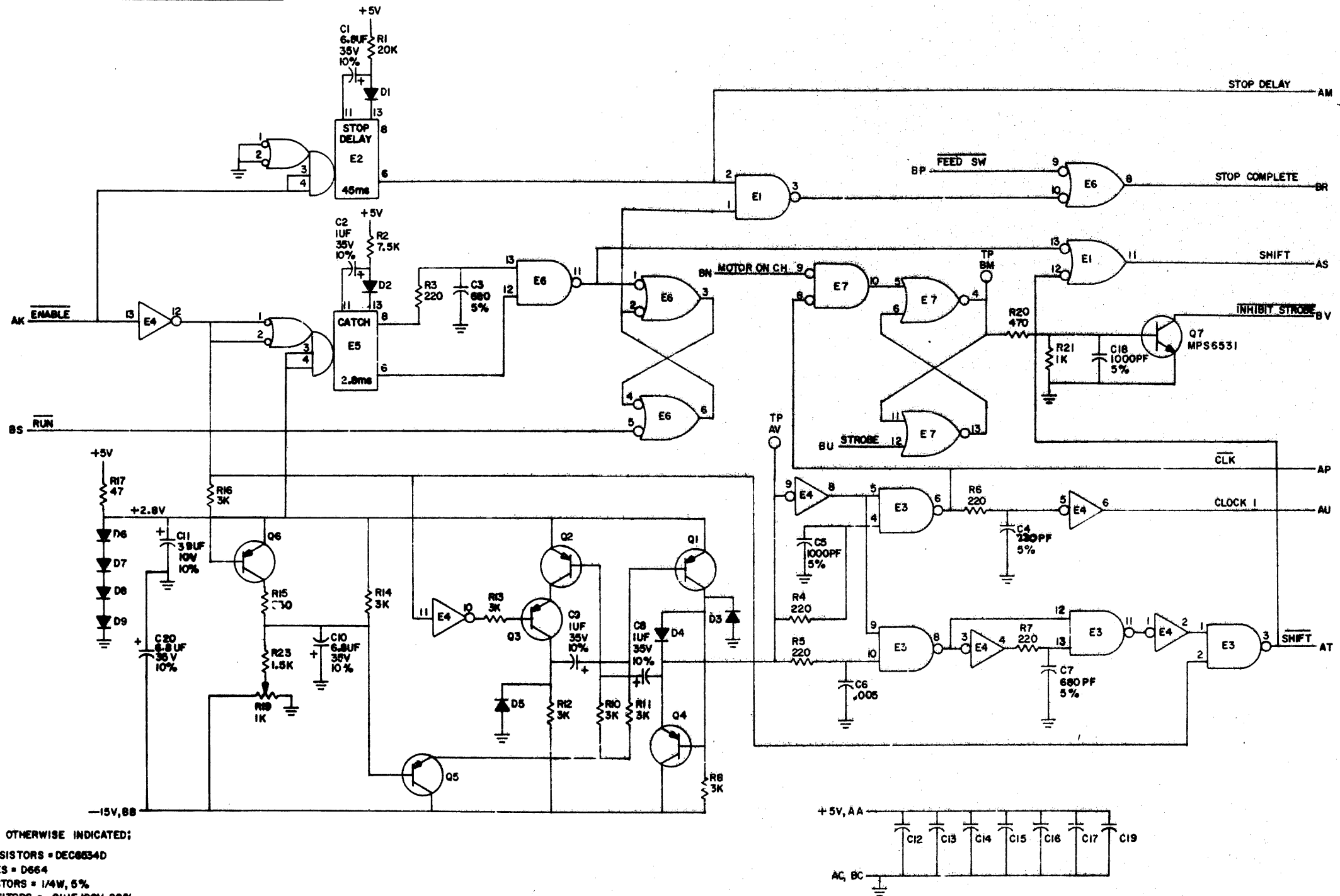
177 (000) D CS
 NUMBER
 M7050-0-1
 REV. E

DATE	2/2/71
DATE	2-2-71
DATE	2-2-71
DATE	2-2-71

TRANSISTOR & DIODE CONVERSION CHART			
DEC	SI	DEC	SI
MP9853	MP2853	D654	1N3606

TITLE		READER CONTROL	
DATE	CODE	NUMBER	REV
D	CS	M7050-0-1	E
EQUIPMENT CORPORATION		PRINTED CIRCUIT REV	

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UNLESS OTHERWISE INDICATED:

- TRANSISTORS = DEC6834D
- DIODES = D664
- RESISTORS = 1/4W, 5%
- CAPACITORS = .01UF, 100V, 20%
- E1, E3, E6 = DEC7400
- E4 = DEC7404
- E2, E5 = DEC9801
- PIN 7 = GND
- PIN 14 = +5V ON ALL IC'S
- E7 = DEC7402

REV.	NO.	DATE	BY
1	00002		
2	00006		
3	00008		
4	00007		
5	00008		

DRN. M. HALLER	DATE 10/16/67
CHK'D R. SILVERMAN	DATE 11/2/67
ENG. R. G. SOBUE	DATE 11/2/67
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC6834D	MP6834	1N758	SAME
D664	1N2806		
DEC6831	MP6831		

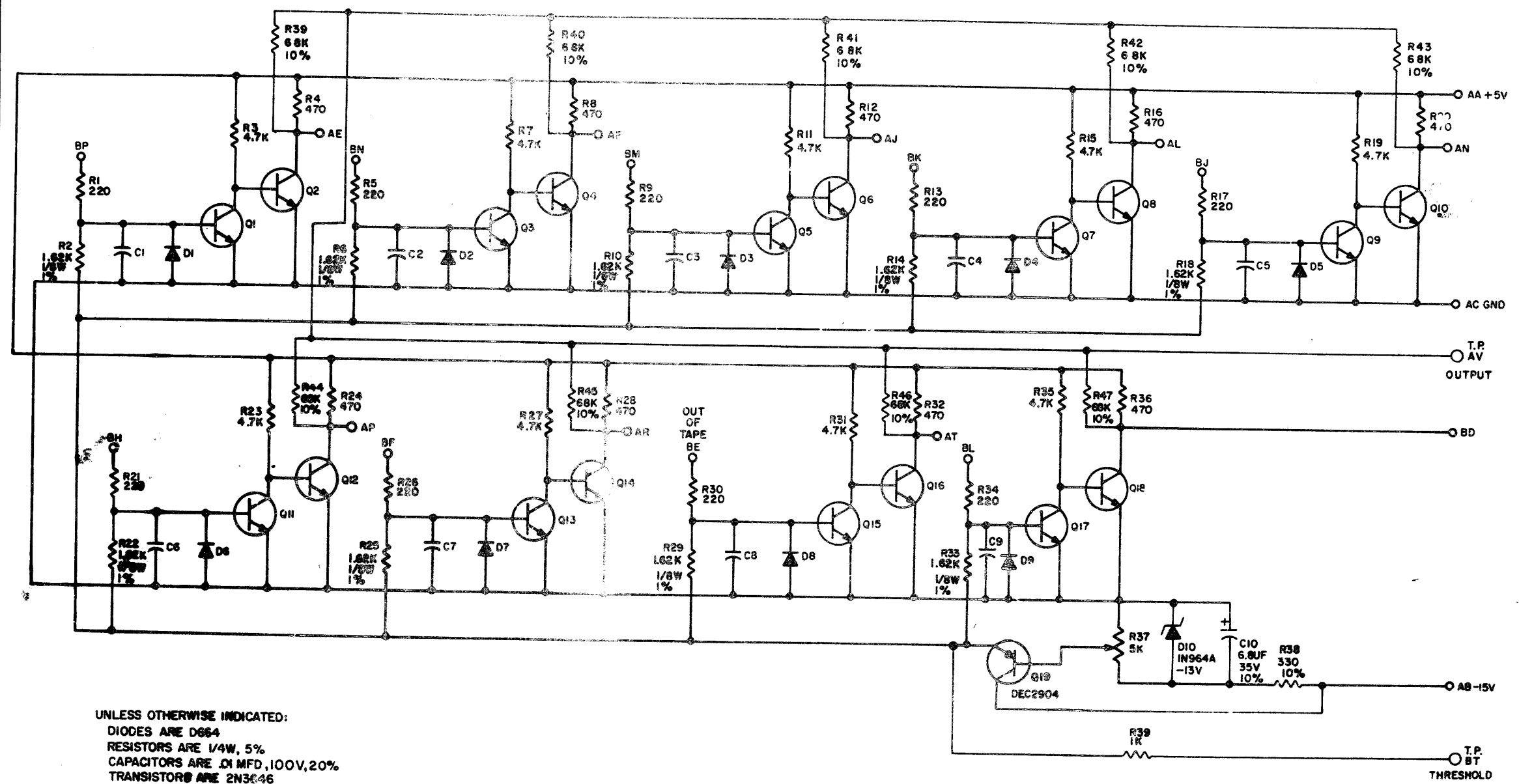
EQUIPMENT CORPORATION		MAYNARD, MASSACHUSETTS	
SIZE C	CODE CS	NUMBER M715-0-1	REV. L
PRINTED CIRCUIT REV. F			

DEC FORM NO. 102

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

DIST: 314, 434, 435 2
4 PINK

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

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

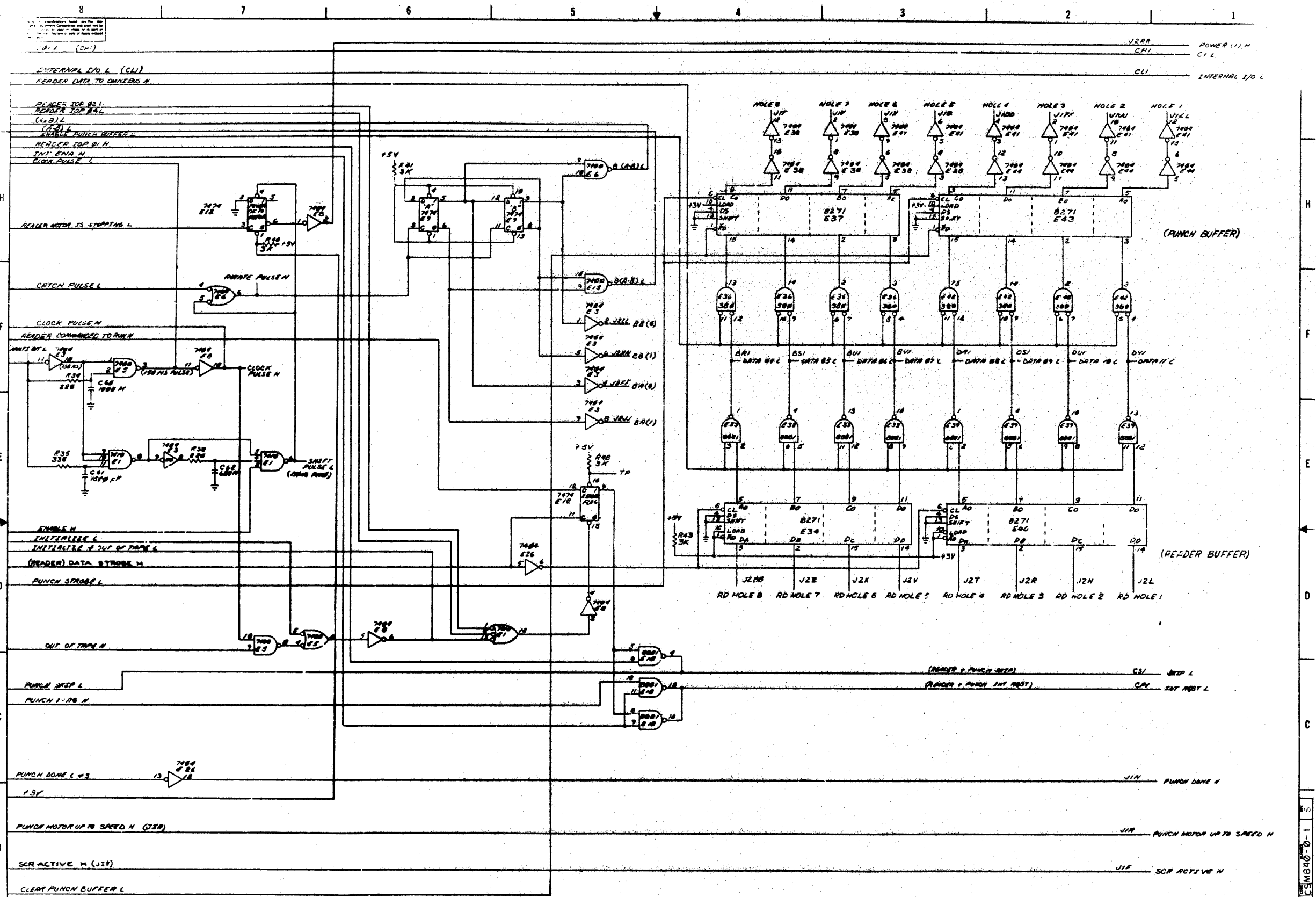
REV. NO.	CHK	CHK NO.	REV.
1		00001	A
2		00002	B

DEC FORM NO. DRC 102

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
2N3646	2N3009	IN964A -13V	SAME
D664	1N3806	DEC2904	2N1132



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



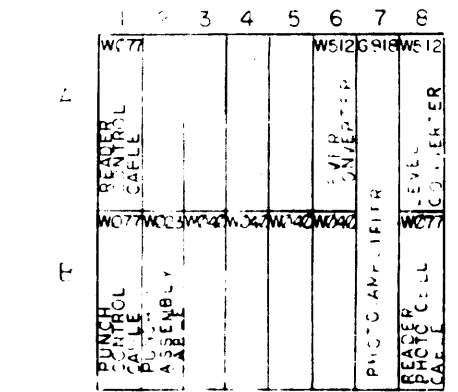
QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	8271 E37	8271 E37	1
1	8271 E43	8271 E43	2
1	8271 E34	8271 E34	3
1	8271 E40	8271 E40	4
1	7400	7400	5
1	7401	7401	6
1	7402	7402	7
1	7404	7404	8
1	7405	7405	9
1	7406	7406	10
1	7407	7407	11
1	7408	7408	12
1	7409	7409	13
1	7410	7410	14
1	7411	7411	15
1	7412	7412	16
1	7413	7413	17
1	7414	7414	18
1	7415	7415	19
1	7416	7416	20
1	7417	7417	21
1	7418	7418	22
1	7419	7419	23
1	7420	7420	24
1	7421	7421	25
1	7422	7422	26
1	7423	7423	27
1	7424	7424	28
1	7425	7425	29
1	7426	7426	30
1	7427	7427	31
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1	7429	7429	33
1	7430	7430	34
1	7431	7431	35
1	7432	7432	36
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1	7434	7434	38
1	7435	7435	39
1	7436	7436	40
1	7437	7437	41
1	7438	7438	42
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1	7445	7445	49
1	7446	7446	50
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1	7471	7471	75
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1	7481	7481	85
1	7482	7482	86
1	7483	7483	87
1	7484	7484	88
1	7485	7485	89
1	7486	7486	90
1	7487	7487	91
1	7488	7488	92
1	7489	7489	93
1	7490	7490	94
1	7491	7491	95
1	7492	7492	96
1	7493	7493	97
1	7494	7494	98
1	7495	7495	99
1	7496	7496	100

EQUIPMENT CORPORATION
READER / PUNCH CONTROL

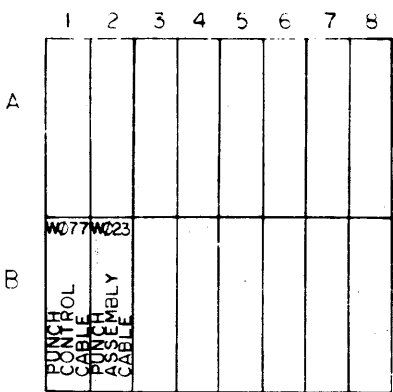
REVISIONS
 NUMBER
 ECSI MB40-0-1
 SHEET 3 OF 3

NOTES:
 1. G918 REVISION MUST BE "B" CIRCUIT SCHEMATIC, ETCHED BOARD OF HIGHER QUALITY.
 2. SEE VARIATION

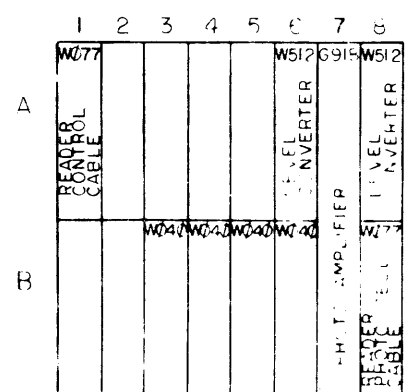
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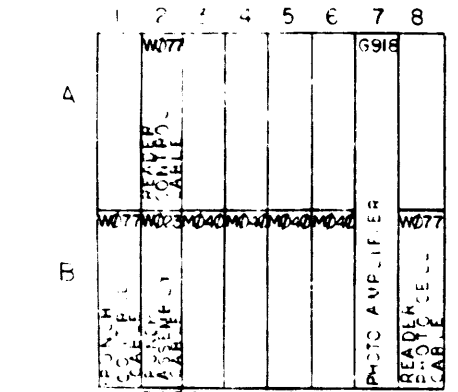
PC04-B-BA-C-CA*
 (SEE E-AD-7776-1 WITH NOTE 4; PDR, 8/S, 9, K10)



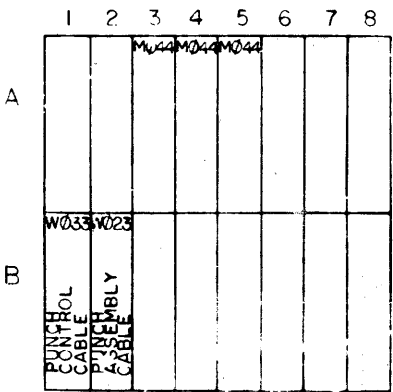
PC04-P-PA*
 (SEE E-AD-7006268-0-0 WITH NOTE 4; PDR, 8/S)



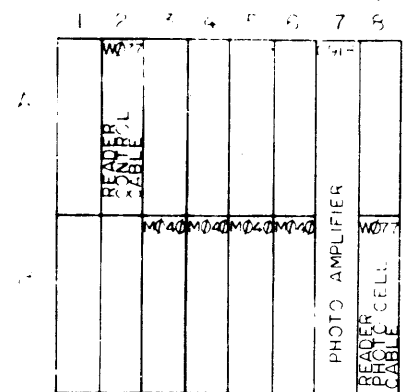
PC04-R
 (SEE E-AD-7776-68-1-0 WITH NOTE 4; PDR, 8/S)



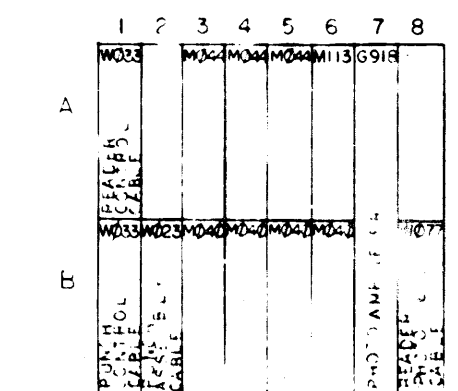
PC04-BH-BC*
 (7006268-0; PDR-8/1)



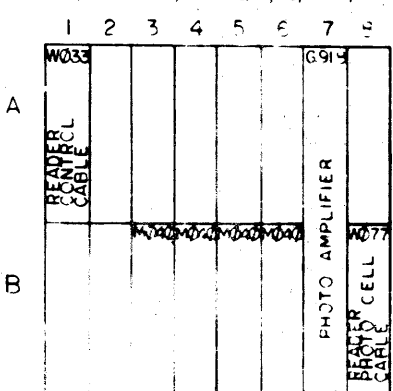
PC04-PL-FM*
 (7006268-1; PDR-8/L, 8/E, -8/M, -8/F)



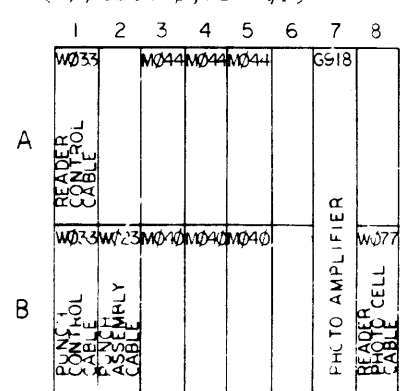
PC04-RF
 (7006268-0; PDR-8/1)



PC04-BL-FM*
 (7006268-1; PDR-8/L, -8/E, -8/M, -8/F)



PC04-RL
 (7006268-1; PDR-8/L, -8/E, -8/M, -8/F)



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

REV	CHARGE NO	REV
1	PC04-00053	C
2	PC04-00055	D
3	PC04-00055	D
4	PC04-00055	D
5	PC04-00055	D
6	PC04-00055	D
7	PC04-00055	D
8	PC04-00055	D

FIRST USED ON OPTION MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
PC04				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED (DIMENSION IN INCHES)	DRN	DATE	DIGITAL EQUIPMENT CORPORATION	
TOLERANCES	CHK'D	DATE	UNIVERSITY MICROFILMS	
DIGITALS	ANGLES	ENG	TITLE	
XXX 006	0 30	6/2/69	MODULE IDENTIFICATION	
XX 01		6/2/69	LIST PC04	
X 1		6/2/69		
REMOVE BURRS AND BREAK SHARP CORNERS TO REFUSE QUALITY	PROD	DATE		
	MANUFACTURE	6/2/69		
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV
	A-ML PC04	DMU	PC04-0-3	D
FINISH	SCALE	SHEET	OF	

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

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

ITEM NO	DWG NO	PART NO.	DESCRIPTION	PC04-B-0	PC04-BA-0	PC04-C-0	PC04-PA-0	PC04-R-0	PC04-BB-0	PC04-BC-0	PC04-RB-0
1	G918	*	PHOTO AMPLIFIER	1	1	1	-	1	1	1	1
2	M040		NEGATIVE INPUT CONVERTER	1	1	1	-	1	-	-	-
3	M040		SOLENOID DRIVER	4	4	4	-	4	-	-	-
4	M512		POSITIVE LEVEL CONVERTER	2	2	2	-	2	-	-	-
5	M040		SOLENOID DRIVER (+ 8I)	-	-	-	-	-	4	4	4
6	M044		SOLENOID DRIVER (+8L)	-	-	-	-	-	-	-	-
	M113		10-2 INPUT NAND GATE	-	-	-	-	-	-	-	-

* NOTE: G918 MUST BE D BOARD REV OR HIGHER

TITLE: MODULE UTILIZATION
ASSY NO. D-MU-PC04-0-3
SHEET 1 OF 2
SIZE CODE: A PL
NUMBER: EC04-0-3
REV ECO NO: PC04-00055
D

DEC FORM NO
ORA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

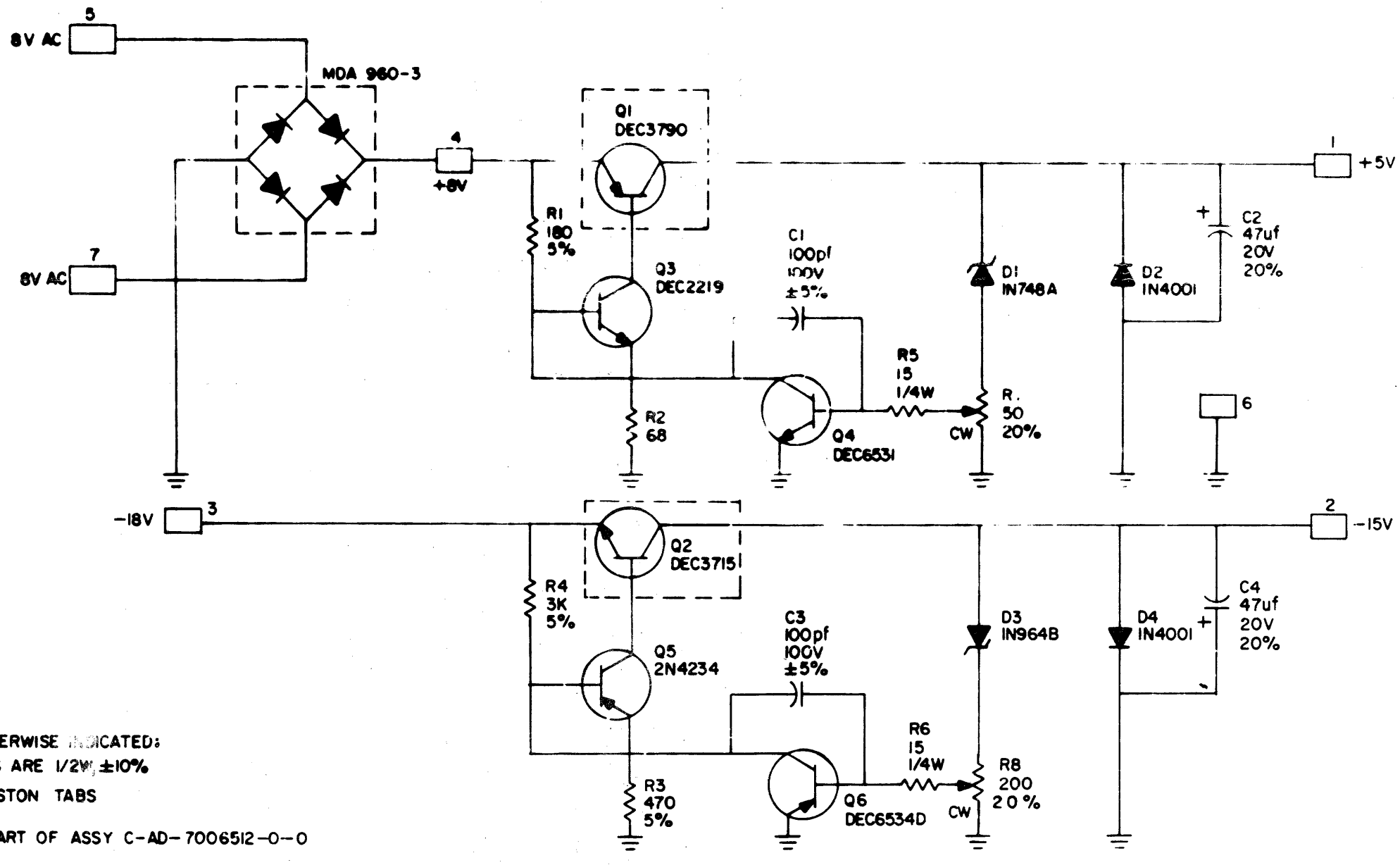
MADE BY: MARCOTTE
DATE: 6/5/69
ENG: R. CARVELLI
DATE: 6/6/69
CHECKED: R. CARVELLI
DATE: 6/5/69
PROD: ANTONNUCIC
DATE: 6/6/69
SECTION: 1
ISSUED SECT.: 1

ITEM NO	DWG NO	PART NO.	DESCRIPTION	PC04-M-0	PC04-BA-0	PC04-C-0	PC04-PA-0	PC04-R-0	PC04-BB-0	PC04-BC-0	PC04-RB-0
1	G918	*	PHOTO AMPLIFIER	1	1	1	-	1	1	1	1
2	M040		SOLENOID DRIVER (-)	-	-	-	-	-	-	-	-
3	M512		POSITIVE LEVEL CONVERTER	-	-	-	-	-	-	-	-
4	M040		SOLENOID DRIVER (+)	4	4	4	-	4	-	-	-
5	M044		SOLENOID DRIVER (+ 8L)	3	3	3	-	3	-	-	-
	M113		10-2 INPUT NAND GATE	1	1	1	-	1	-	-	-

* NOTE: G918 MUST BE D REV BOARD OR HIGHER

TITLE: [blank]
ASSY NO. D-MU-PC04-0-3
SHEET 2 OF 2
SIZE CODE: A PL
NUMBER: EC04-0-3
REV ECO NO: PC04-00055
D

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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/2W, ±10%
 □ = FASTON TABS
 □ = PART OF ASSY C-AD-7006512-0-0

REV	NO	CHK	ENG	PROD

DRN NANLY MOORE	DATE 7/8/70
CHK'D <i>[Signature]</i>	DATE 7/9/70
ENG <i>[Signature]</i>	DATE 10/12/70
PROD	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3790-2	2N3790	DEC6531	MP6531
DEC2219	2N2219	IN748A	SAME
DEC3715	2N3715	IN964B	SAME
2N4234	2N4234	IN4001	SAME
DEC6534D	MP6534		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE PCO REGULATOR			
5408918			
REV B	CODE CS	NUMBER 5408918-0-1	REV A

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

TITLE PC#4 Engineering Specification DATE 11/11/69

REVISIONS			
REV	DESCRIPTION	CHG NO	DATE
A		0006	3-17-74

General Information:
The PC#4 comes in eight (8) configurations. They are the PC#4P, PL (basic punch), PC#4R, RB (basic reader), PC#4B, BB, BL, (punch and reader), and PC#4C (punch, SCR, and reader). The 50 cycle variations are PC#4PA, PM; PC#4BA, BC, and PC#4CA with no variation in PC#4R and RB. Table 1-1 gives the block schematic references, UML, interface cables, and the applicable computers.

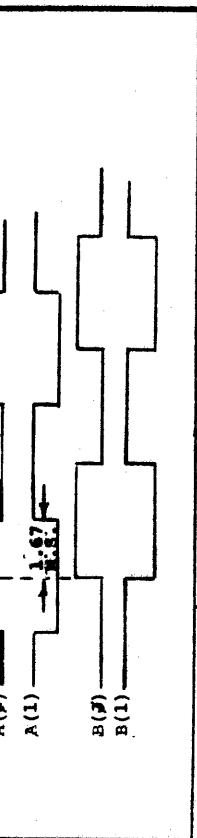
Logic Levels: Negative Logic Systems
Logic 1 is -3.2v to -3.9 volts
Logic 0 is 0v to -0.3 volts

Logic Levels: Positive Logic Systems
Outputs
Logic 1 is >+2.4v
Logic 0 <+0.4v

Reader Signals:
Reference drawing BS-D-PC#4-0-2

(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:



EM9
DEC FORM NO. 107
DRA 108A
APPD BY: *John S. Baker*
SIZE CODE A SP PC#4-0-4
NUMBER 1 OF 7

CONTINUATION SHEET

TITLE PC04 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 ±.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 ±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.

(d) Type of tape
(1) non-oil (less than 12% transmissivity)

(e) Taps Life: Acceleration de-accelerate type operation = 30,000 cycles.

DEC FORM NO. 108A
SIZE CODE A SP PC04-0-4
NUMBER 3 OF 7
REV A

CONTINUATION SHEET

TITLE PC#4 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 and <+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.

(6) Data Output Lines:
Hole No Hole
Negative Systems -3 volts
Positive Systems +2.4 volts 0 volts

Punch Signals:
Refer to drawing BS-D-PC#4-0-2

- (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. ±10% will punch feed hole and then advance the tape forward in preparation for another cycle for all configurations except PC#4PL and BL when the solenoid drivers are activated by a +2.0v signal.

DEC FORM NO. 108A
SIZE CODE A SP PC04-0-4
NUMBER 2 OF 7
REV A

CONTINUATION SHEET

TITLE PC#4 Engineering Specification

Punch

- (e) Temperature
(1) 55° - 110°F operating; 10° - 150°F non-operating

- (b) Humidity
(1) 20% - 95% w/o condensation - operating
(2) 5% - 95% w/o condensation - non-operating

- (c) Tension of tape supply
(1) Not to exceed 6 ounces

- (d) Speed
(1) 50 characters/second ±5%

Margins
+5v is +5v ±.5v
-15v is -15v ±20%
-30v is -36v ±5%

DEC FORM NO. 108A
SIZE CODE A SP PC04-0-4
NUMBER 4 OF 7
REV A

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

DEC FORM NO DRA 108A

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

DEC FORM NO 16-1022
DRA 108

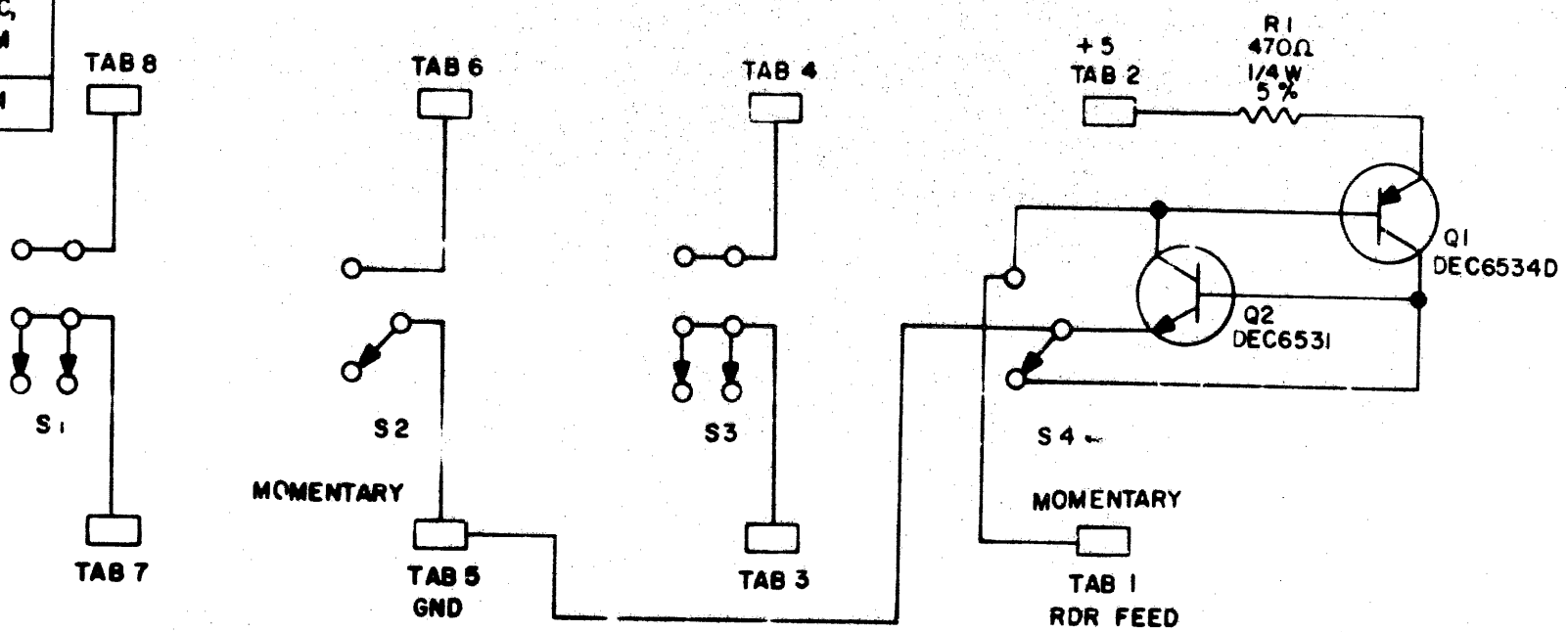
CONTINUATION SHEET					
PC#4 Engineering Specification - Test Procedure for reader					
<p>1. Do not apply power until the following checks are made.</p> <p>a. Logic block empty.</p> <p>b. A#1A, A#2A, A#1B, A#2B, B#1A, and B#2A are bare (no wiring or bussing).</p> <p>c. B#1B and B#2B should be bussed together without any wires on them except for the PC#4C configuration when a white/green wire will be on B#1B.</p> <p>d. Remove reader lamp.</p> <p>e. Check caps for proper polarity in wiring.</p> <p>f. Put ohmmeter on X100 scale and check regulator board tabs 1 thru 5 and 7 for lack of short to ground. Tabs 6 and 8 should indicate a short to ground.</p> <p>g. Check fuses for proper rating. Also, should be slo/b/o.</p> <p>h. Check for continuity between reader lamp ground slot and chassis ground.</p> <p>i. Check the following wires for proper connection.</p>					
Color	Location	Color	Location		
+black (str)	B#6C	*wh/blue	A#7B		
#wh/black (str)	B#7C	*wh/green	B#1B		
#brown (str)	B#2B	#brown (solid)	B#3R, S		
#yellow (str)	A#1V	#orange (solid)	B#4R, S		
#wh/yellow (str)	A#6F	#yellow (solid)	B#5R, S		
+white (str)	B#1U	#violet (solid)	B#6R, S		
grey/red (str)	A#8A	+punch configurations			
grey/yellow (str)	A#6B	*only on PC#4C configurations			
blue (str)	B#6V	#reader configurations			
<p>j. Put reader lamp back in position making sure that the tension on the lamp is sufficient for good contact.</p> <p>2. Apply AC power to the unit and check.</p> <p>a. +5 volts on A#6F and B#8A (+5 volts $\pm .25$ volts).</p>					

DEC FORM NO DRA 108A

CONTINUATION SHEET					
PC#4 Engineering Specification - Test Procedure for Reader					
<p>DEC FORM NO 16-1022 DRA 108</p>					

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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 # 1205641
 S2, S4 ARE ROCKER # 1205375
 TABS ARE FASTON TAB 41290 AMP

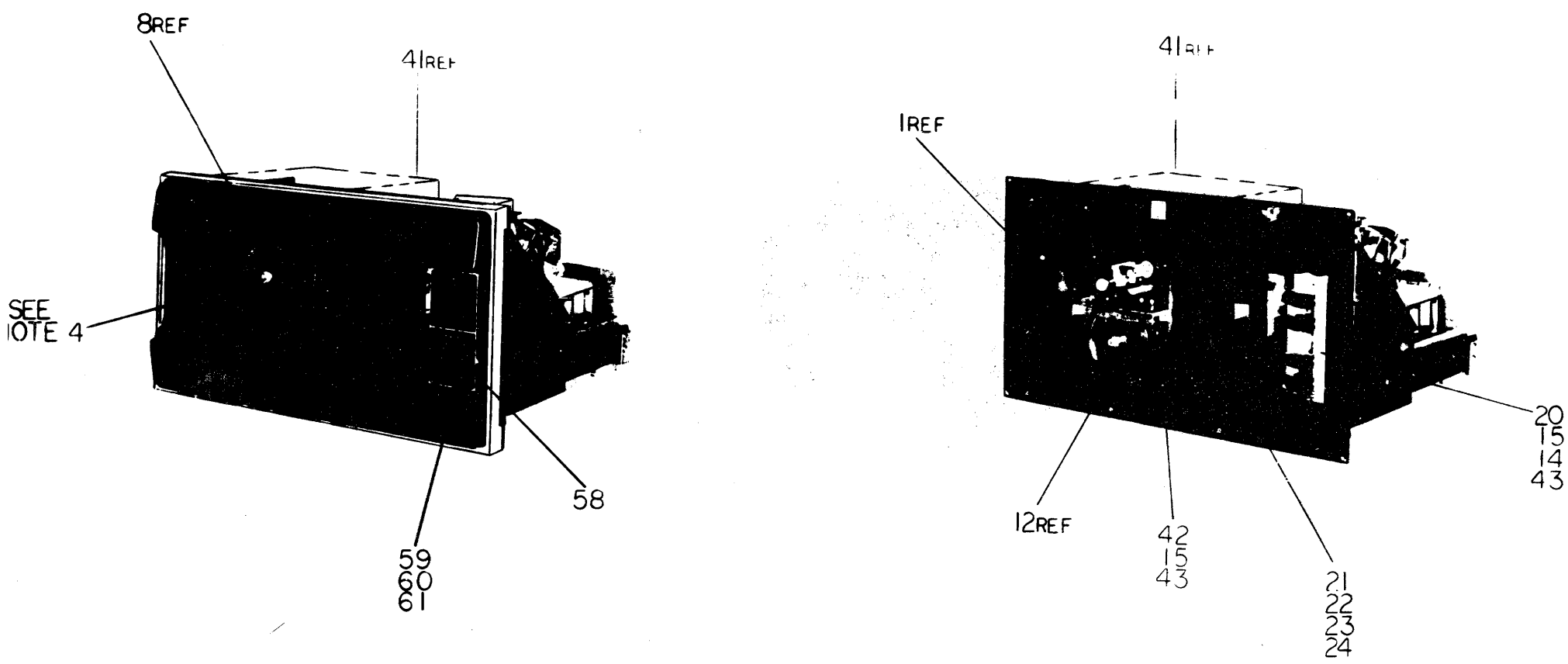
REVISIONS	CHK	CHG	NO	REV		DATE	BY	DATE	TRANSISTOR & DIODE CONVERSION CHART				TITLE	PCC SWITCH BOARD		
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LEGEND	
MODEL	VARIATION
	CY COMPOSITION
PCZ4 B, BB, & BI	60 READER & PUNCH
PCZ4 BA, BC, BM	50 READER & PUNCH
PCZ4 C	50 READER, PUNCH & SCR
PCZ4 CA	50 READER, PUNCH & SCR
PCZ4 P, & PL	60 PUNCH
PCZ4 PA, & PV	50 PUNCH
PCZ4 R & RB	50 READER

- NOTES:
1. WIRING OF SWITCHES VARIES DEPENDING ON UNIT MODEL BEING BUILT. FOR SWITCH CONFIGURATION, FOR WIRING PURPOSES SEE: DETAIL "A" FOR MODEL B, P, & PL & DETAIL "B" FOR MODEL BA, BC, BM & DETAIL "C" FOR MODEL C, CA, & DETAIL "D" FOR MODEL PA, & PV. CY & CO CY HAVE NO EFFECT.
 2. IF THE SCR DRIVER UNIT IS USED, THIS WIRE WILL CONNECT TO SCR DRIVER T1, NOT T5.6. 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 READER SHAFT.
 5. IN MODELS P AND PA 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 DOWN FAR TO BE INSTALLED BEFORE SHIPPING MACHINE.



8	BECKNEY	10/1/67
7	ALLEN	10/1/67
6	ALLEN	10/1/67
5	WILLIAMS	10/1/67
4	WILLIAMS	10/1/67
3	WILLIAMS	10/1/67
2	WILLIAMS	10/1/67
1	WILLIAMS	10/1/67

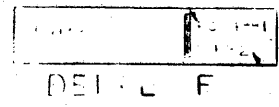
QTY	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	DATE	TITLE	
UNLESS OTHERWISE SPECIFIED	DATE	PCZ4	
UNLESS OTHERWISE SPECIFIED	DATE	READER AND PUNCH	
MATERIAL		SIZE CODE	NUMBER
FINISH		DJA	PCZ4-0-0
SCALE		DIST	REV.
SHEET 1 OF 1			

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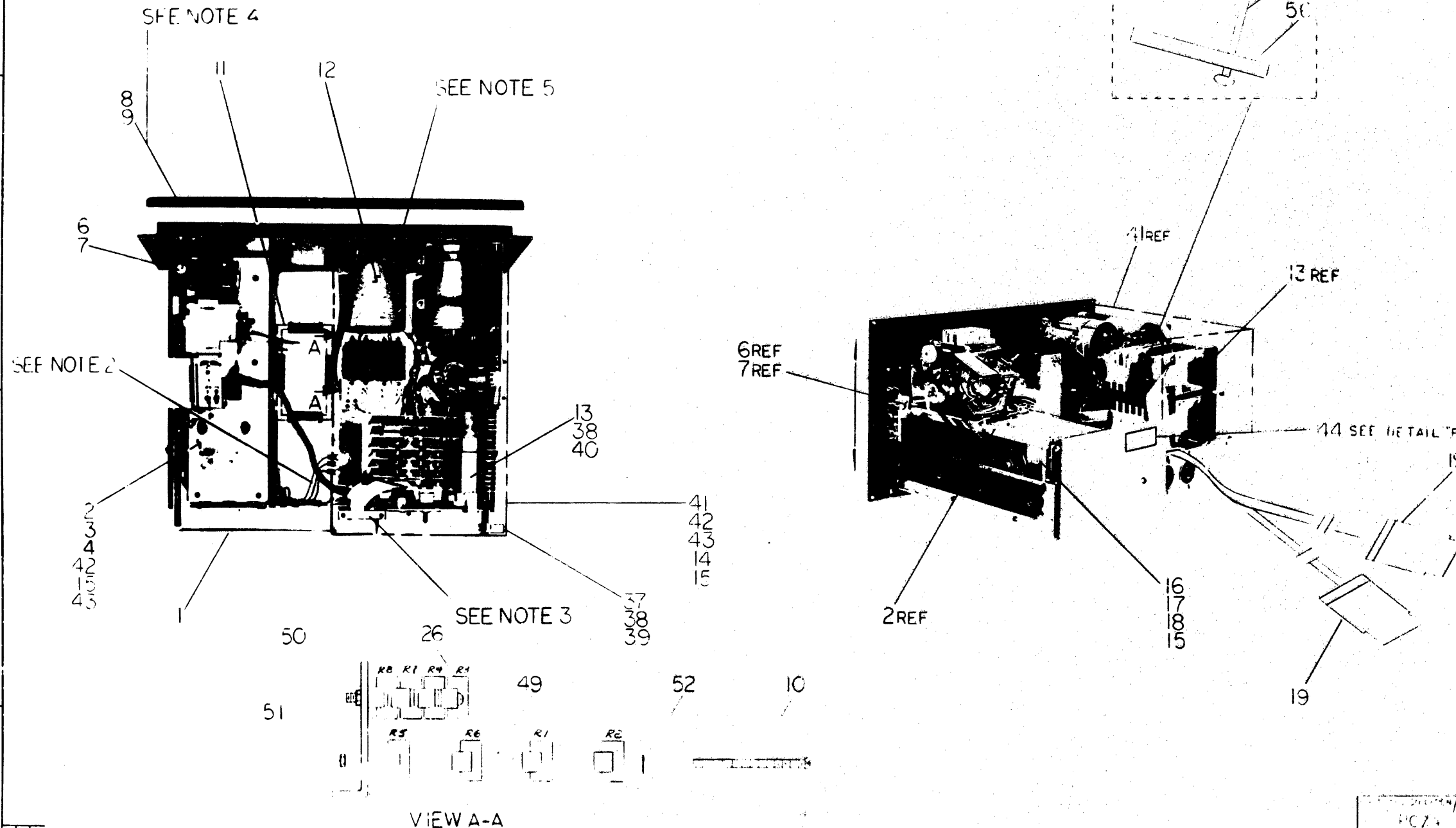
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STAMP COMPANY
MODIF. NO. HERE

SEE NOTE 7



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



QTY	DESCRIPTION	PART NO.
	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE
UNLESS OTHERWISE SPECIFIED	DATE	DATE
DIMENSIONS IN INCHES	TOLERANCES	DATE
DECIMALS FRACTIONS ANGLES	DATE	DATE
± .005 ± .004 ± .002	DATE	DATE
FINAL SURFACE QUALITY	DATE	DATE
REMOVE BURRS AND BEVEL	DATE	DATE
CHAMFER	DATE	DATE
MATERIAL	NEXT HIGHER ASSY	
FINISH	SCALE	NUMBER
	SHEET	DIST.
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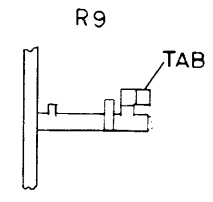
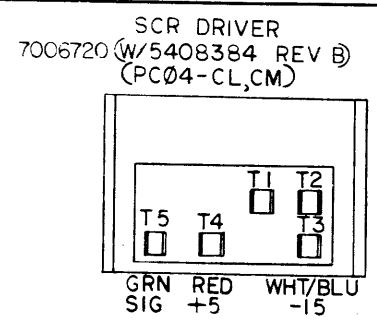
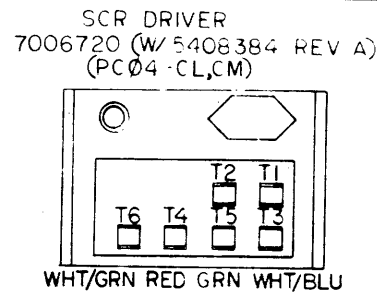
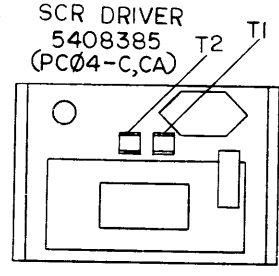
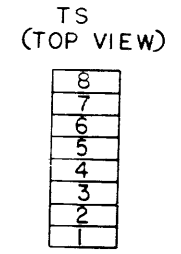
digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

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PC04
HEADER AND PUNCH

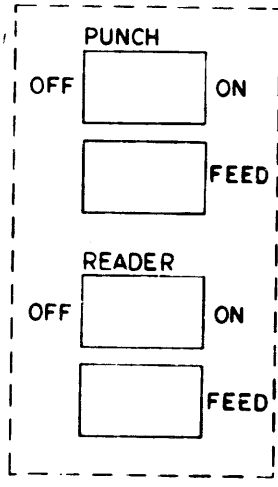
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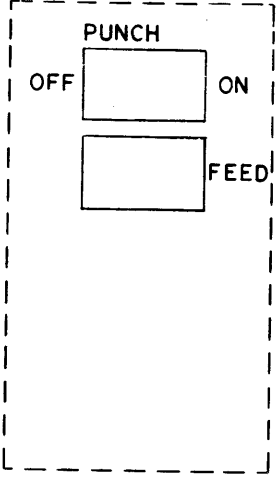
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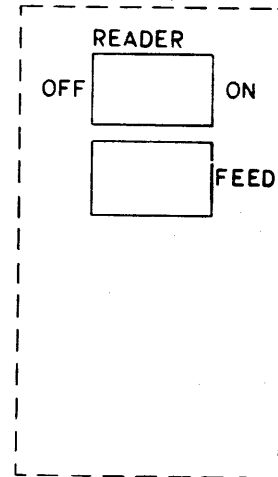
PC04-B,BA,BB,BC,BL,BM
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DETAIL "A"



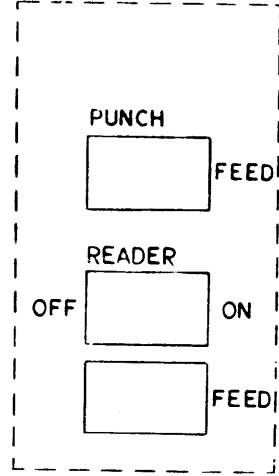
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5408935-0
DETAIL "B"



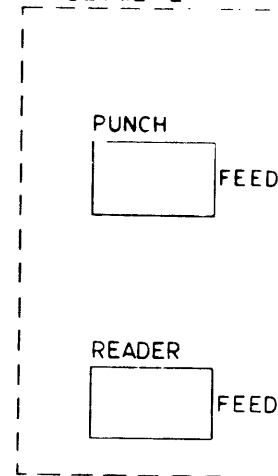
PC04-R,RB,RL
5408935-0
DETAIL "C"



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

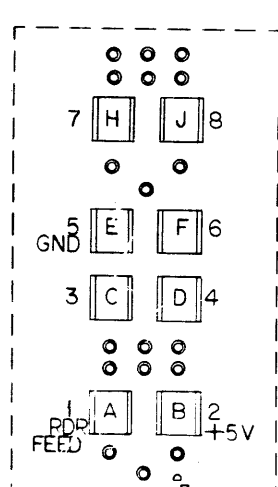
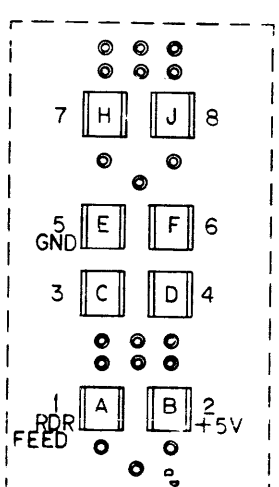
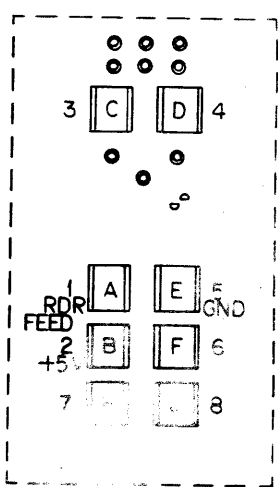
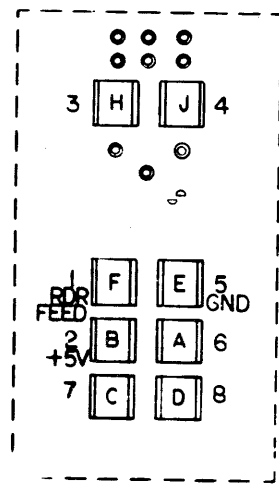
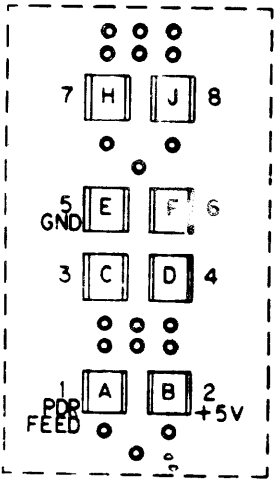


PC04-CL,CM
5408310-5
DETAIL "E"



FRONT VIEW

REAR VIEW



REV P
NUMBER
DUA PC04-0-0
B

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
PC04				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN B. HUTNAK	DATE 4-10-69	digital EQUIPMENT CORPORATION MAYFORD, MASSACHUSETTS	
DECIMALS ANGLES	CHK'D R. CARROLL	DATE 6-5-69		
XXX - .006 XX - .02 X - .1	10' 30'	ENG G. BECKNER	DATE 6-6-69	TITLE PC04 READ-RE PUNCH (SW E TERM LOCATIONS)
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ ENG G. BECKNER	DATE 6-6-69		
MATERIAL	PROD B. ANTONIO	DATE 6-6-69		
FINISH	NEXT HIGHER ASSY		SIZE CODE	NUMBER
	A-ML-PC04-0		DUA	PC04-0-0
	SCALE		DIST	
	SHEET 3 OF 4			

CONNECTIONS IF NO SCR DRIVER ASSY

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

PUNCH CONNECTIONS

COLOR	WIRE	CONNECTION	REMARKS
WHT #22	PUNCH CAP	TS - 7	
PLUG PUNCH DATA CABLE (WØ23) INTO SLOT BØ2			

CONNECTIONS IF NO READER

COLOR/AWG	WIRE	CONNECTION	REMARKS
GRY/RED #18	*7		SLEEVE WITH ITEM # 45 & TIE BACK

COMMON CONNECTIONS

COLOR/AWG	WIRE	CONNECTION	REMARK
BLK #18	*27	GND LUG	LOGIC GND
GRY/YEL #18	*29	AØBB	-15V
BLU #18	*31	BØ2D	-3ØV
BLK #18	*28	GND LUG	LOGIC GND
GRY/RED #18	*30	AØBA	+5V
GRN #18	*32	BØ6V	-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	AØ1V	
WHT/BLK #22	*12	BØ7A	+5V
WHT/YEL #22	*13	AØBF	
BLK #22	*15	BØ8C	
WHT #22	*16	BØ2U	

**CONNECTIONS FOR 54Ø8385
SCR DRIVER ASSY**

COLOR/AWG	WIRE	CONNECTION	REMARKS
RED #18	*9	SCR - T1	
BLK & YEL BLK & WHT	PUNCH MOTOR	SCR - T2	
RED #18	*7	SW BOARD - "J"	SEE DETAIL "D"
WHT/BLU #22	SCR LEAD	AØ7B	
WHT/GRN #22	SCR LEAD	BØ1B	

READER CONNECTIONS

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 (WØ77) INTO SLOT BØ8			

**CONNECTIONS FOR 7ØØ652Ø
SCR DRIVER ASSY**

COLOR/AWG	WIRE	CONNECTION	REMARKS
RED #18	*9	SCR T1	
BLK & YEL BLK & WHT	PUNCH MOTOR	SCR T2	
RED #18	*7	SW BOARD - "J"	SEE DETAIL "E"
WHT/BLU #22	SCR LEAD	AØ7B	
WHT/GRN #22	SCR LEAD	AØ7C	NOT USED ON 54Ø8385 ASSY
RED #22	SCR LEAD	AØ7A	
GRN #22	SCR LEAD	BØ1F	

READER WIRING

ITEM NO	COLOR/AWG	FROM	USING ITEM NO.	TO	USING ITEM NO.
29	WHT/VIO #22	R1 & R2	-	TS - 1	28
3Ø	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	-	BØ6R	-
33	VIO #22	R2	-	BØ6S	-
34	YEL #22	R3	-	BØ5R	-
34	YEL #22	R4	-	BØ5S	-
35	ORN #22	R5	-	BØ4R	-
35	ORN #22	R6	-	BØ4S	-
36	BRN #22	R7	-	BØ3R	-
36	BRN #22	R8	-	BØ3S	-

WIRING ON PCØ4-BØ, -BC, AND -RB ONLY

ITEM NO	COLOR/AWG	FROM	TO
57	GRN #24	AØBH	AØBF

**CONNECTION ON 7ØØ6268 - Ø
LOGIC BLOCK (PCØ4-B, -BA, -BB, BC,
-C, -CA, -P, -PA, -R -RB)**

COLOR/AWG	WIRE	CONNECTION
BRN #22	*14	AØ2B

**CONNECTION ON 7ØØ6268 - 1
AND - 2 LOGIC BLOCK
(PCØ4 - BL, -BM, -CL, -CM, -PL, -PM, -RL)**

COLOR/AWG	WIRE	CONNECTION
BRN #22	*14	AØ1B

NOTE: SEE SHEET 3 FOR TERMINAL IDENTIFICATION DIAGRAMS.

REVISIONS
CHANGE NO
REV

FIRST USED ON OPTION/MODEL PCØ4-Ø	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 MAYNARD MASSACHUSETTS	
DECIMALS .XXX - .006 FR .02 X - .1	CHK'D R. CARVILLI	DATE 6-5-69	TITLE PCØ4 READER & PUNCH (WIRING)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	ENG. GEO. BECKNER	DATE 6-6-69	SIZE CODE NUMBER DUA PCØ4-Ø-Ø	
MATERIAL FINISH	PROJ. ENG. GEO. BECKNER	DATE 6-6-69	REV P	
	PROD. B. ANTONUCCIO	DATE 6-6-69	SHEET 2 OF 2	
	NEXT HIGHER ASSY. A-ML-PCØ4	SCALE	DIST.	

ITEM NO.	DWG. NO. / PART NO.	DESCRIPTION	QUANTITY/VARIATION												
			PC04-B, BB	PC04-BA, BC	PC04-BL	PC04-BM	PC04-C	PC04-CA	PC04-CL	PC04-CM	PC04-P	PC04-PA	PC04-PL	PC04-PN	PC04-R, RB
1	D-AD-7006246-0-0	CHASSIS AND POWER SUPPLY ASSY	1	1	1	1	1	1	1	1	1	1	1	1	1
2	D-AD-7006248-1-0	PUNCH ASSY (60 HZ)	1	-	1	-	1	-	1	-	1	-	1	-	1
2	D-AD-7006248-2-0	PUNCH ASSY (50 HZ)	-	1	-	1	-	1	-	1	-	1	-	1	-
3	9006021-1	SCR. PHL PAN HD 6-32 X 5/16 LG SST	6	6	6	6	6	6	6	6	6	6	6	6	6
4	9006560	NUT. KEPS 6-32 X 5/16 X 5/32	2	2	2	2	2	2	2	2	2	2	2	2	2
5	9006022-1	SCR. PHL PAN HD 10-32 X 5/16 LG SST	2	2	2	2	2	2	2	2	2	2	2	2	2
6	1100106	THYRISTOR CR626SP4B4	1	1	1	-	-	-	-	1	1	1	1	-	-
7	9107278-3	18 ANG TEF TUBING RED	A/R	RA	RA	RA	R	-	-	-	RA	RA	RA	R	-
8	D-AD-7006252-1-0	COVER ASSY (PUNCH & READER)	1	1	1	1	-	-	-	-	1	1	1	1	-
8	D-AD-7006252-2-0	COVER ASSY (PUNCH)	-	-	-	-	-	-	-	1	1	1	1	-	-
8	D-AD-7006252-3-0	COVER ASSY (READER)	-	-	-	-	-	-	-	-	-	-	1	1	-
8	D-AD-7006252-4-0	COVER ASSY (PUNCH, READER & SCR)	-	-	-	-	1	1	-	-	-	-	-	-	-
8	D-AD-7006252-6-0	COVER ASSY (READER, PUNCH & SCR)	-	-	-	-	-	-	1	1	-	-	-	-	-
9	9006042-2	SCR. PHL FLAT HD 8-32 X 1 LG SST	4	4	4	4	4	4	4	4	4	4	4	4	4
10	9006083-1	SCR. PHL PAN HD 10-32 X 2 1/4 LG SST	4	4	4	4	4	4	4	-	-	-	-	4	4
11	C-MD-745300-0-0	CHAD BOX	1	1	1	1	1	1	1	1	1	1	1	1	1
12	D-AD-7006247-0-0	READER ASSY	1	1	1	1	1	1	1	1	-	-	-	1	1
13	E-AD-7006268-0-0	WIRED ASSY, PC04	1	-	-	1	1	-	-	1	1	-	1	-	-
13	E-AD-7006268-1-0	WIRED ASSY, PC04	-	-	1	1	-	-	-	-	-	1	1	-	1
13	E-AD-7006268-2-0	WIRED ASSY, PC04	-	-	-	-	-	-	1	1	-	-	-	-	-
14	9006022-1	SCR. PHL PAN HD 6-32 X 3/8 LG SST	3	3	3	3	3	3	3	3	3	3	3	3	3
15	9006033	WASHER, INT TOOTH #6	15	15	15	15	17	17	17	17	11	11	11	11	13
16	C-AD-5408385-0-0	SCR DRIVER ASSY	-	-	-	1	1	-	-	-	-	-	-	-	-
16	C-AD-7006528-0-0	SCR DRIVER ASSY	-	-	-	-	-	1	1	-	-	-	-	-	-
17	9006026-1	SCR. PHL PAN HD 6-32 X 3/4 LG SST	-	-	-	2	2	2	2	-	-	-	-	-	-
18	9006801	HEX SPACER, 1/4 X 3/8 LG #6 HOLE	-	-	-	2	2	2	2	-	-	-	-	-	-
19	C-IA-7006281-0-0	I/O CABLE, PC04 (W033 TO W077)	2	2	-	2	2	2	2	1	1	-	-	1	1
19	D-IA-7407087-1-0	CABLE CONNECTOR M926 TO W033 S	-	-	1	1	-	-	-	-	-	-	-	-	-
19	D-IA-7006145-1-0	CABLE CONN (PUNCH) M926 TO W033	-	-	-	-	-	-	-	-	-	1	1	-	-
19	D-IA-7407087-2-0	CABLE CONNECTOR M926 TO W033 S	-	-	-	-	-	1	1	-	-	-	-	-	-
20	C-AD-5408310-4-0	SWITCH ASSY	1	1	1	1	-	-	-	-	-	-	-	-	-
20	C-AD-5408935-0-0	SWITCH ASSY	-	-	-	-	-	-	1	1	1	1	1	1	1
20	C-AD-5408310-3-0	SWITCH ASSY	-	-	-	1	1	-	-	-	-	-	-	-	-
20	C-AD-5408310-5-0	SWITCH ASSY	-	-	-	-	-	1	1	-	-	-	-	-	-
21	C-MD-7407131-0-0	TAPE CONTAINER	1	1	1	1	1	1	1	1	1	1	1	1	1
22	9006011-2	SCR. PHL FLAT HD 4-40 X 3/8 LG SST	2	2	2	2	2	2	2	2	2	2	2	2	2
23	9006556	NUT. HEX 4-40 X 1/4 X 1/16 SST	2	2	2	2	2	2	2	2	2	2	2	2	2
24	9006632	WASHER, INT TOOTH #4	2	2	2	2	2	2	2	2	2	2	2	2	2
25	9006022-1	SCR. PHL PAN HD 6-32 X 3/8 LG SST	3	3	3	3	3	3	3	3	3	3	3	3	3
26	1309896	RES. 25 OHM 1/4W 40 W	8	8	8	8	8	8	8	-	-	-	-	8	8
27	9006022-1	SCR. PHL PAN HD 6-32 X 3/8 LG SST	3	3	3	3	3	3	3	3	3	3	3	3	3
28	9007917	SOLDERLESS CONN 18-22 ANG .250 TAB	4	-	-	-	-	4	4	-	-	-	-	4	4
29	9107400-97	WIRE, 22 ANG STED TEFION WBT/VIO TRACER	-	-	-	-	-	-	-	-	-	-	-	-	-

REV. M	CHANGE NO. 00053
REV. N	PC04-00059
REV. O	PC04-00059
REV. P	PC04-00059
REV. Q	PC04-00059
REV. R	PC04-00059
REV. S	PC04-00059
REV. T	PC04-00059
REV. U	PC04-00059
REV. V	PC04-00059
REV. W	PC04-00059
REV. X	PC04-00059
REV. Y	PC04-00059
REV. Z	PC04-00059

FIRST USED ON OPTION/MODEL
PC04 (ALL)

UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
TOLERANCES	UNLESS OTHERWISE SPECIFIED
SMALLS FRACTIONS ANGLES	UNLESS OTHERWISE SPECIFIED
± .008 ± 1/64 ± 0°30'	UNLESS OTHERWISE SPECIFIED
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	UNLESS OTHERWISE SPECIFIED
MATERIAL	UNLESS OTHERWISE SPECIFIED
FINISH	UNLESS OTHERWISE SPECIFIED

DRN. R. HUTNAK	DATE 4-10-69
CHK'D. R. CARVELLI	DATE 6-5-69
ENG. GEO. BECKNER	DATE 6-6-69
PROJ. ENG. GEO. BECKNER	DATE 6-6-69
PROD. R. ANTONUCCIO	DATE 6-6-69
NEXT HIGHER ASSY	
D-UA-PC04-0-0	
SCALE	
SHEET 1 OF 2	

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TITLE PC04 READER AND PUNCH	
SIZE CODE C/PL	NUMBER PC04-0-0
DIST.	REV. P

REV. P
NUMBER 000
SIZE CODE C/PL
PC04-0-0

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ITEM NO.	DWG. NO./PART NO.	DESCRIPTION	PCØ4															
			PCØ4-BL	PCØ4-BA	PCØ4-BJ	PCØ4-BM	PCØ4-C	PCØ4-CA	PCØ4-CL	PCØ4-CM	PCØ4-P	PCØ4-PA	PCØ4-PL	PCØ4-PM	PCØ4-R	PCØ4-RL		
30	9107400-94	WIRE, 22 AWG STRD TEFLON WHT/YEL TRACER	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		
31	9107400-93	WIRE, 22 AWG STRD TEFLON WHT/ORN TRACER	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		
32	9107400-91	WIRE, 22 AWG STRD TEFLON WHT/BRN TRACER	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		
33	9107350-77	WIRE, 22 AWG STRD TEFLON VIO	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		
34	9107350-44	WIRE, 22 AWG STRD TEFLON YEL	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		
35	9107350-33	WIRE, 22 AWG STRD TEFLON ORN	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		
36	9107350-11	WIRE, 22 AWG STRD TEFLON BRN	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R		
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		
38	9006634	WASHER, INT TOOTH #8	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		
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		
41	E-IA-7407438-0-0	POWER SUPPLY COVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
42	9006024-1	SCR, PHL PAN HD 6-32 X 1/4 LG SST	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	10	10	10	10	12	12		
44	9008141	DEC NAME PLATE	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
45	9107275	SHRINKABLE TUBING WHITE	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
46	9006658-1-0	WASHER, INT TOOTH #8	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
47	9006658-1-0	WASHER, INT TOOTH #8	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
48	9006145-1	WASHER, INT TOOTH #8	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
49	9006664	WASHER, FLAT #10	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		
51	9006565	NUT, KEPS 10-32 X 3/8 X 3/16	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		
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		
54	1209850	UNIVERSAL MODULE RETAINER	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		
56	C-IA-7408339-7-0	HOLD DOWN BAR (6")	1	1	1	1	1	1	1	1	-	-	-	-	1	1		
57	9107470-55	WIRE, 24 AWG SOLID TEFLON GREEN	NR	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		
60	9006633	WASHER INT TOOTH LOCK #6	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		
62	A-PI-3700024-0-0	PACKAGING INSTRUCTIONS	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
63	A-PI-3700023-0-0	PACKAGING INSTRUCTIONS	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		DRN. R. HUTNAK	DATE 4-10-69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE PCØ4 READER AND PUNCH
			UNLESS OTHERWISE SPECIFIED		CHK'D. R. CARVELLI	DATE 6-5-69		
			DIMENSION IN INCHES		ENG. GEO. BECKNER	DATE 6-6-69		
			TOLERANCES		PROJ. ENG. GEO. BECKNER	DATE 6-6-69		
DECIMALS ± .008		FRACTIONS ± 1/64	ANGLES ± 0°30'	PROD. R. ANTONUCCIO	DATE 6-6-69	SIZE CODE C PL	NUMBER PCØ4-Ø-Ø	REV. P
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		MATERIAL + + +		NEXT HIGHER ASSY. D-UA-PCØ4-Ø-Ø		SCALE + +		SHEET 2 OF 2
FINISH + + +		DIST.						

LEGEND		
PART #	MODEL USED ON	WIRELIST
7006268-0	PC04-B,BA,BB,BC, C,CA, P,PA, R,RA	K-WL-PC04-0-5
7006268-1	PC04-BL,BLM, PL,PLM, RL	K-WL-PC04-0-6
7006268-2	PC04-CL,CM	K-WL-PC04-0-7

- NOTES:
1. CONNECTIONS ON ITEM 24 TO BE SOLDERED AND LOCATED AT MINIMUM PRACTICAL HEIGHT ABOVE BOARD.
 2. CONNECTOR BLOCKS TO BE SHOWN TO GND LUG AS SHOWN.
 3. USE BLUE WIRE (ITEM 2) FOR HAND WRAPPED WIRING.
 4. PPPS/BS/9/KALO
TO CONVERT 7006268-0 BLOCK BACK TO NEG LOGIC MACHINES, DO FOLLOWING:
A. REMOVE TRANSISTORS IN READER FEED SWITCH ASSY
B. WIRE CHANGES
DELETE - B08S-B07E
ADD - A02N-A08H
B08E-B07E
A02B-A02N
C. DELETE 100K RESISTOR FROM A08A-A08F

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A03A	A03C	6.8uF
11	CAP	+	B03H	B03C	6.8uF

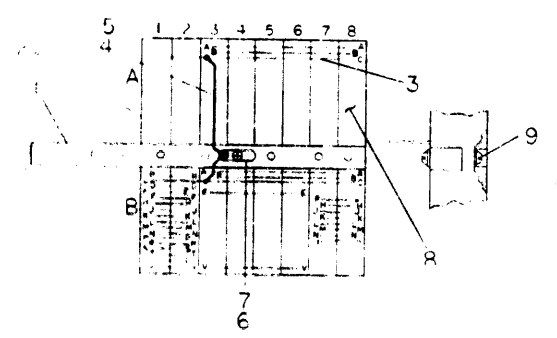
7006268-2

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A03A	A03C	-
10	CAP	-	B03H	B03C	+
12	RES		A08A	A08F	100K
13	RES		A06E	A06C	3.0uF

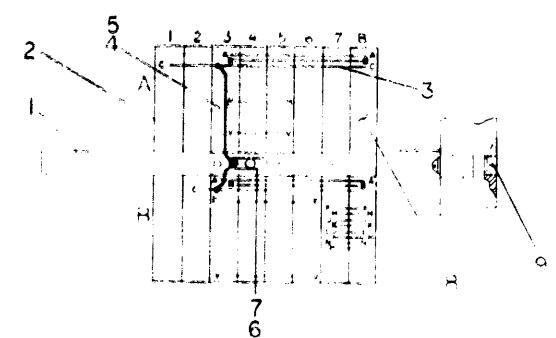
7006268-1

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A03A	A03C	-
10	CAP	-	B03H	B03C	+
12	RES		A08A	A08F	100K

7006268-0



7006268-0
(B, BA, BI)

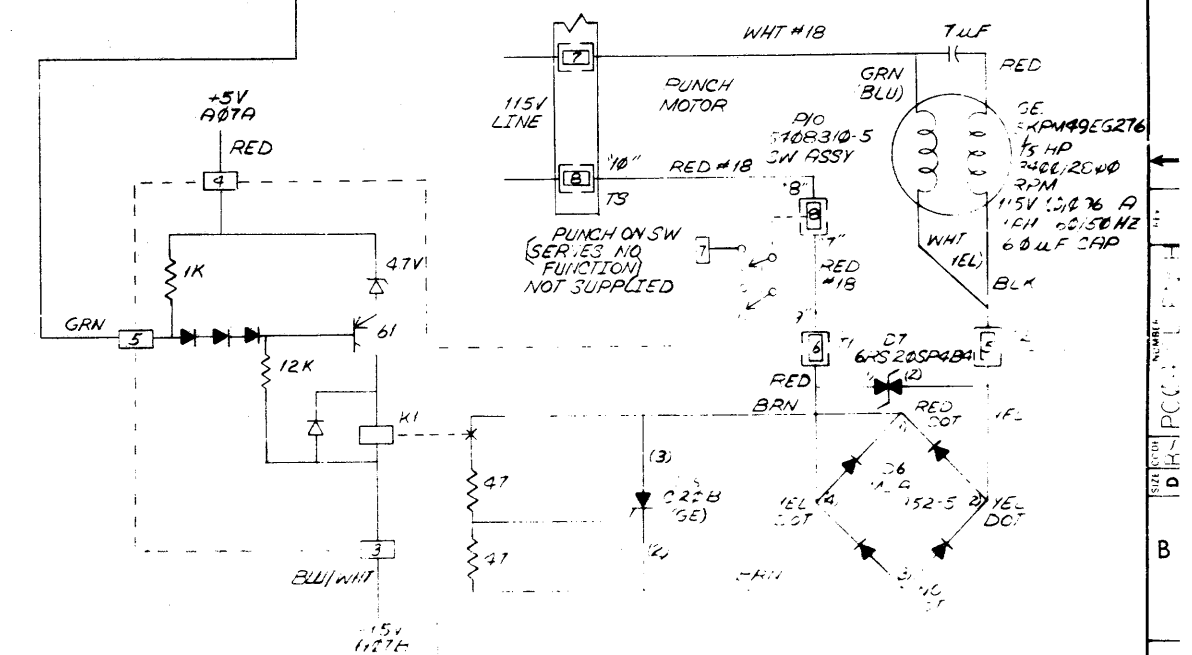
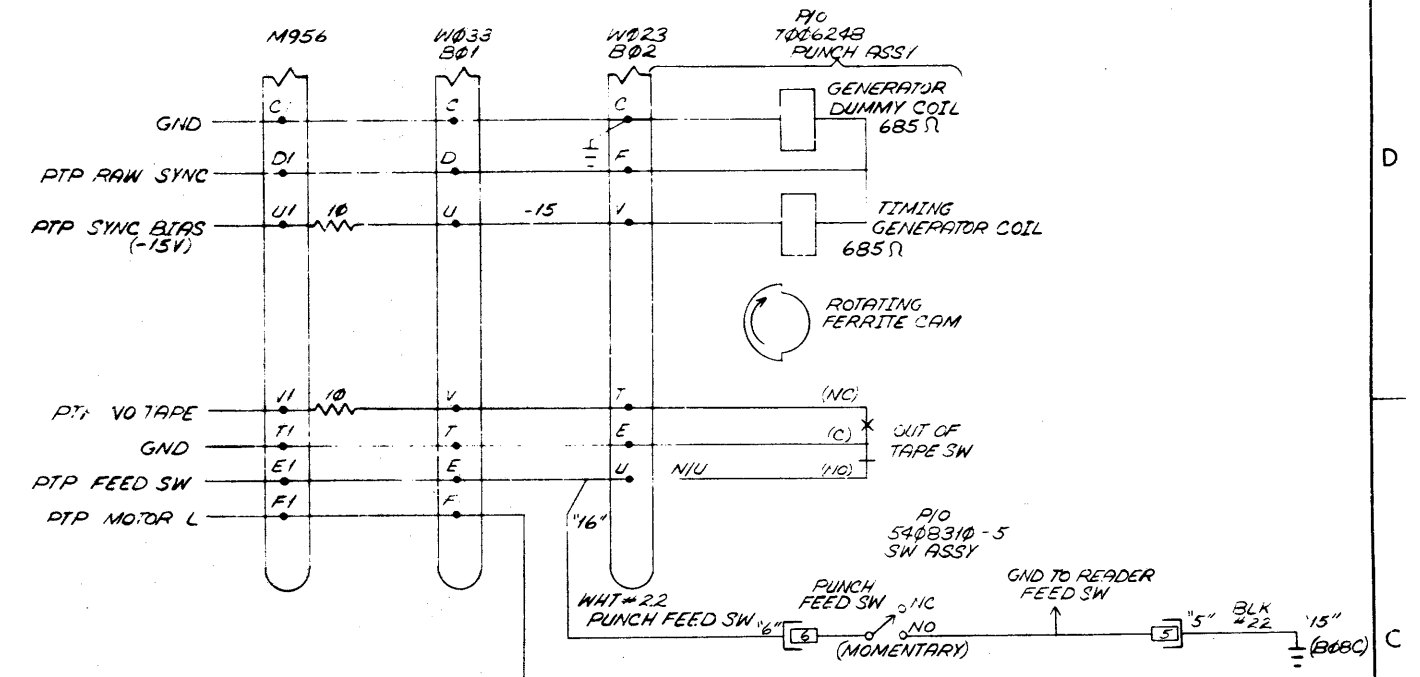
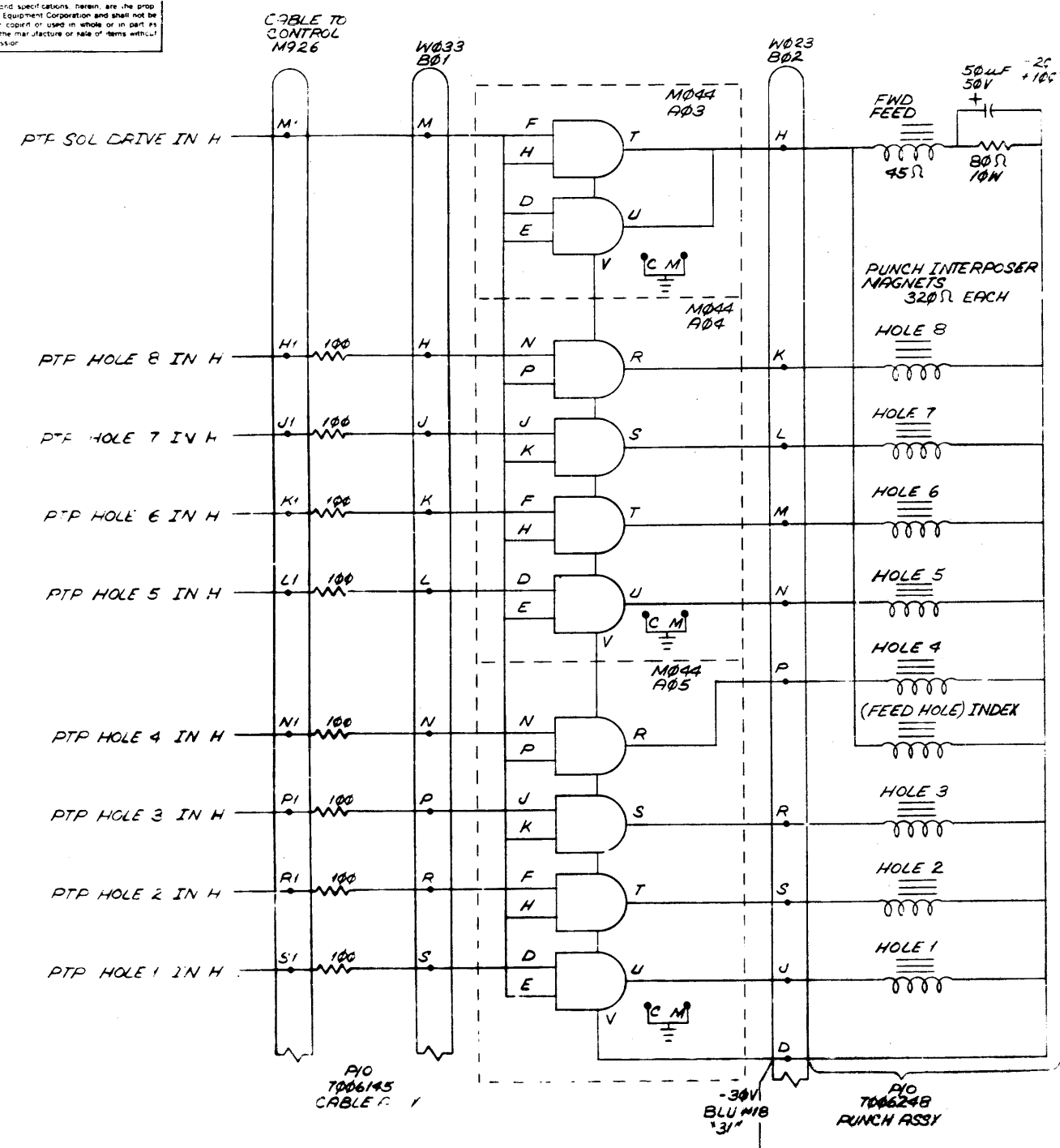


7006268-1
(BL, BLM, PL, PLM, RL)

REV	BY	DATE	DESCRIPTION
1	HEMANN	7/27/71	PC04
2	HEMANN	8/11/71	PC04
3	HEMANN	8/11/71	PC04
4	HEMANN	8/11/71	PC04
5	HEMANN	8/11/71	PC04
6	HEMANN	8/11/71	PC04
7	HEMANN	8/11/71	PC04
8	HEMANN	8/11/71	PC04
9	HEMANN	8/11/71	PC04
10	HEMANN	8/11/71	PC04
11	HEMANN	8/11/71	PC04
12	HEMANN	8/11/71	PC04
13	HEMANN	8/11/71	PC04
14	HEMANN	8/11/71	PC04
15	HEMANN	8/11/71	PC04
16	HEMANN	8/11/71	PC04
17	HEMANN	8/11/71	PC04
18	HEMANN	8/11/71	PC04
19	HEMANN	8/11/71	PC04
20	HEMANN	8/11/71	PC04

REV	BY	DATE	DESCRIPTION
1	HUTNAK	7/13/71	PC04
2	CARVELLI	8/11/71	PC04
3	BECKNER	8/11/71	PC04
4	BECKNER	8/11/71	PC04
5	BECKNER	8/11/71	PC04
6	BECKNER	8/11/71	PC04
7	BECKNER	8/11/71	PC04
8	BECKNER	8/11/71	PC04
9	BECKNER	8/11/71	PC04
10	BECKNER	8/11/71	PC04
11	BECKNER	8/11/71	PC04
12	BECKNER	8/11/71	PC04
13	BECKNER	8/11/71	PC04
14	BECKNER	8/11/71	PC04
15	BECKNER	8/11/71	PC04
16	BECKNER	8/11/71	PC04
17	BECKNER	8/11/71	PC04
18	BECKNER	8/11/71	PC04
19	BECKNER	8/11/71	PC04
20	BECKNER	8/11/71	PC04

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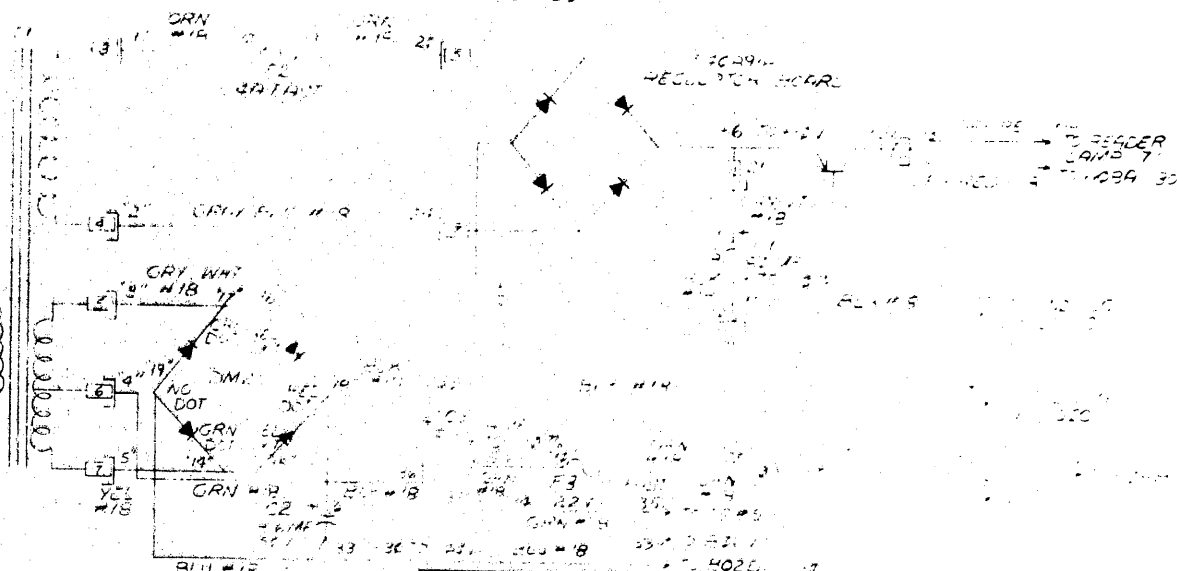
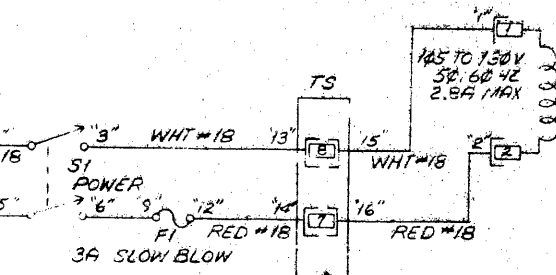
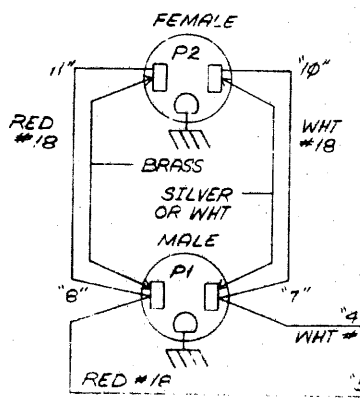
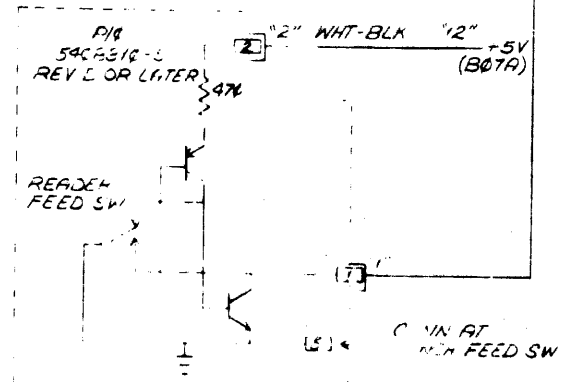
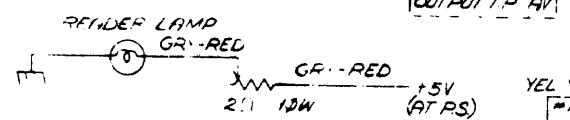
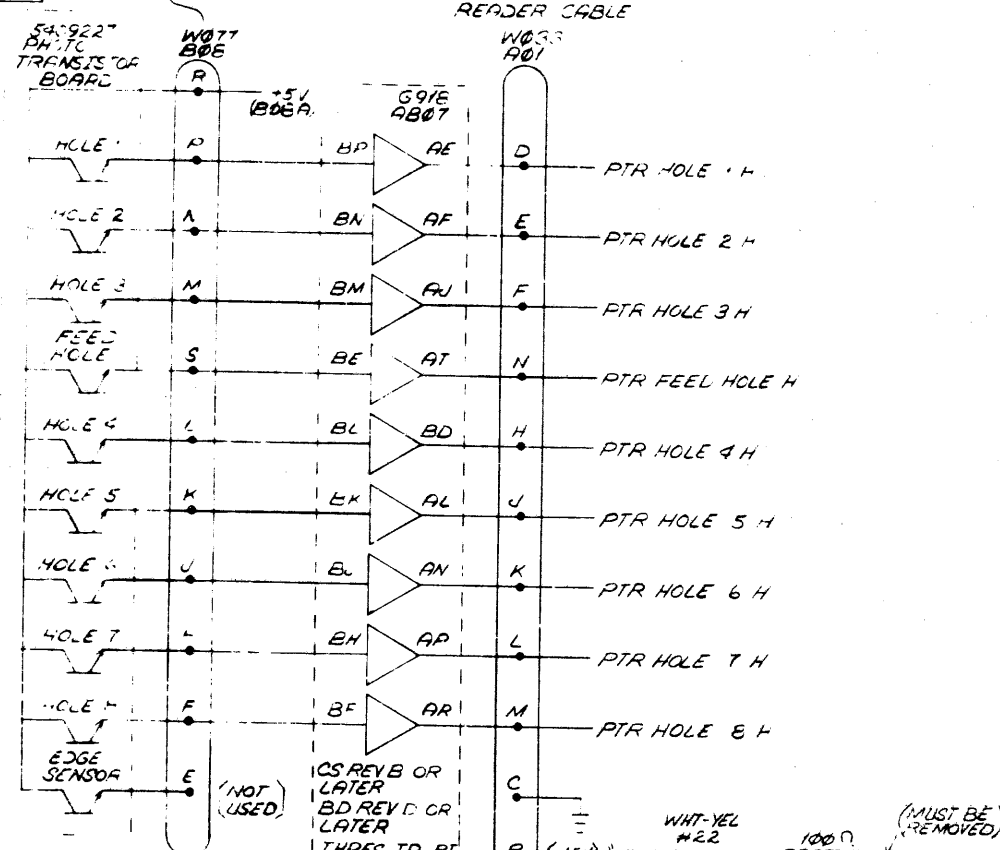


REV	
DATE	
BY	
CHKD	

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO.
PARTS LIST				
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				
TITLE PUNCH				
PC04-CL-PNCH				
MATERIAL		NEXT HIGHER ASSY	SIZE CODE	NUMBER
FINISH		A-ML-PC04 2	D 3S	PC04-CL-PNCH
SCALE		SHEET 1 OF 1	DIST	REV

IF YOU HAVE ANY COMMENTS, PLEASE CONTACT THE PROJECT ENGINEER AT THE EQUIPMENT CORPORATION AND SIGN NOT BE USED OR USED IN WHOLE OR IN PART AS A PART OF THE MANUFACTURE OR SALE OF ITEMS WITH THIS DESIGNATION.

7006267 PHOTO TRANSISTOR
4501 REV D OR LATER



UNLESS OTHERWISE SPECIFIED TOLERANCES	DRN	DATE	
EXCEPT AS NOTED	CHKD	DATE	
REMOVE BURRS AND BREAK SHARP CORNERS TO ALL QUALITY	ENL	DATE	
MATERIAL	PROJ ENG	DATE	
FINISH	PROD	DATE	
SCALE	NEXT HIGHER ASY	SIZE CODE	NUMBER
SHEET	OF	DIST	

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REV 1
 NUMBER 5
 SIZE CODE K WL
 2

B

B



A

A

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04				
PARTS LIST				
DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE WARELIST PC04 B, B/, BB, BC, C, CA, REPAIR AND RB		
CHK'D	DATE			
ENG	DATE			
PROJ. ENG.	DATE			
PROC.	DATE	SIZE CODE K WL NUMBER PC04-Q-5 REV H		

REV	1
CHANGE NO.	
ORIGINATED	
PC04 Q005	
DATE	3-12-72

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B
A

REVISIONS	
CHK	CHANGE NO
	ORIGINATED -
	PC04-C7054
	PC04-55 A
	Handwritten 4-19-72
	C. YOUSE
	Handwritten 5-22-72
	PC04-20056 H
	Y. OUSE
	Handwritten 5-22-72

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO
PC04				
PARTS LIST				
DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE WIRELIST PC04-BL, BM, PL, FM AND RL		
CHK'D	DATE			
ENG	DATE			
PROJ ENG	DATE			
PROC	DATE			
NEXT HIGHER ASSEMBLY		SIZE	CODE	NUMBER
		K	WL	04-05
				REV
				H

REV	H	6	PC04-0-6	SIZE	K	WL	2
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4

3

1

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REV. 2-0-700-1M K 2

B

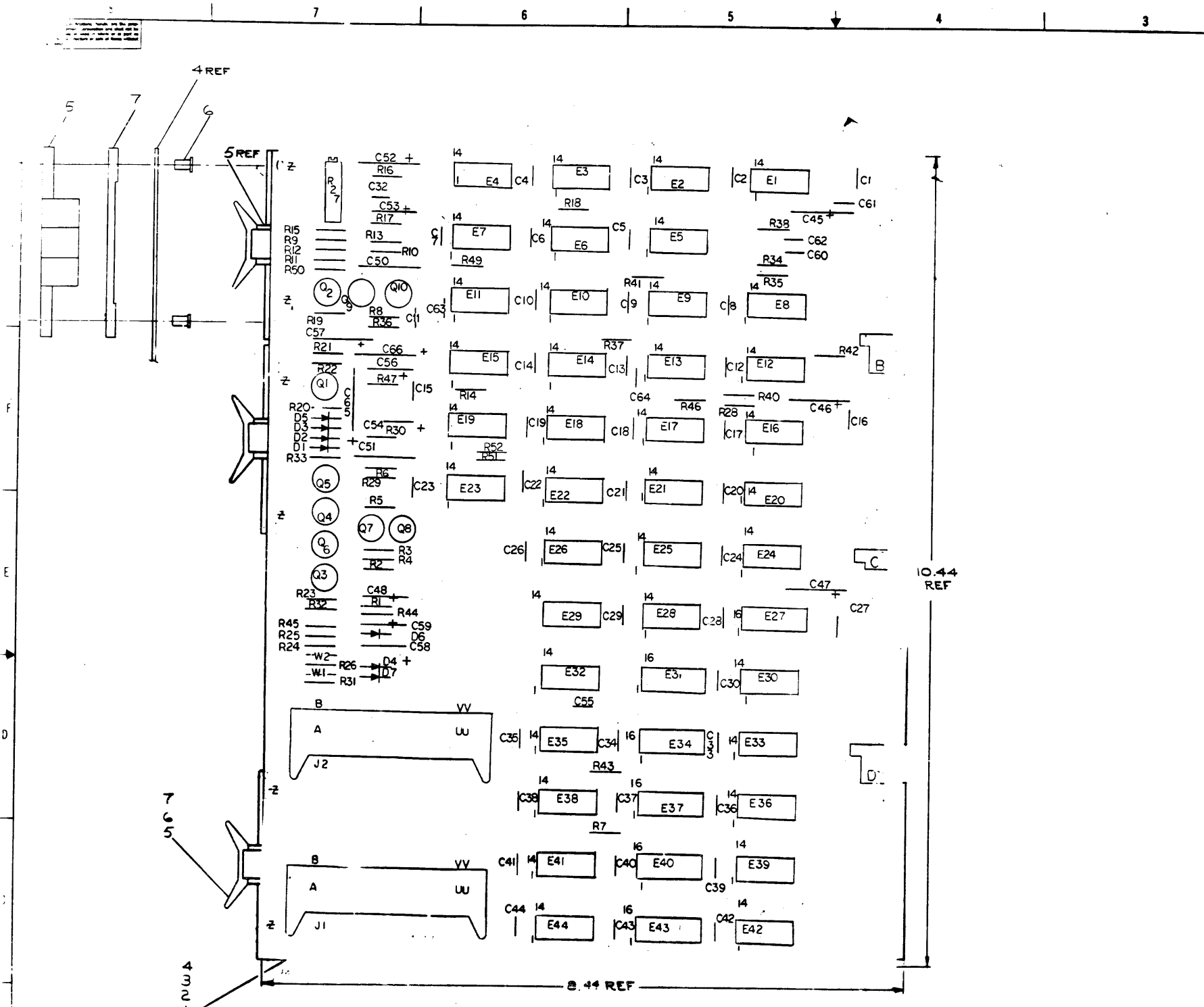
B

A

A

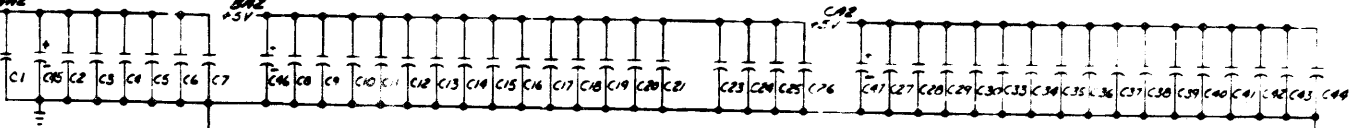
REV	CHANGE NO.	ORIGINATED	DATE	BY
-		PC04-00154		

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04				
PARTS LIST				
DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE WIRELIST PC04-CL AND CM		
CHK'D	DATE			
ENG	DATE			
PROJ. ENGR	DATE			
PRGDR	DATE			
NEXT HIGHER ASSEMBLY				
DATE		SIZE CODE	NUMBER	REV
		K WI	04-0-1	



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	4	ETCH BOARD REV K		1
1	5	DIODE D662	1122113	20
1	41	CAP .01UF 100V 20% DISC	1501610	14
1	3	CAP 6.8UF 35V 10% TANT	1002306	3
1	2	CAP .01UF 100V 10% VUM	1005784	7
1	1	CAP 15UF 20V 10% TANT	1000412	16
1	5	CAP 2.2UF 15V 10% TANT	1001331	14
1	3	CAP 1UF 35V 10% TANT	1001776	13
1	1	CAP 39UF 10V 10% TANT	1000076	12
1	1	CAP 3.9UF 10V 10% TANT	1000064	11
1	1	CAP 1000PF 100V 5% MFR	1000042	10
1	1	CAP 850PF 100V 5% MFR	1000026	9
1	1	CAP 330PF 100V 5% MFR	1000023	8
1	1	SPACER ICABLE CLAMP	1000074	7
1	1	EXLET 654-11 STIMPSON	9000750	6
1	1	HANDLE FLIP CHIP-MARGENTA	9008377-06	5
1	1	ETCHED CIRCUIT BOARD	5002848	4
1	1	MODULE HISTORY LIST	B-MH-M840-01	3
1	1	ASSY/DRILLING HOLE LAYOUT	D-AM-M840-01	2
1	1	X-Y COORDINATE HOLE LOC.	K-CO-M840-01	1

QTY	REF	DESCRIPTION	PART NO.	ITEM NO.
1	3	RES 270 1/4W 5%	1301972	58
1	1	RES 3.6K 1/4W 5%	1301874	57
1	1	RES 150 1/4W 5%	1300230	56
1	1	RES 56 1/4W 5%	1302602	55
1	1	RES 430 1/4W 5%	1301424	54
1	1	RES 18K 1/4W 5%	1300498	53
1	1	CONN 40 PIN STAMPING HANDLE	1201941	52
1	1	IC DEC 8071	1503615	51
1	1	IC DEC 8231	1903514	49
1	1	IC DEC 6314	1907972	47
1	1	IC DEC 180	1909488	46
1	1	IC DEC 7404	1909606	45
1	1	IC DEC 7401	1907373	44
1	1	IC DEC 304	1909486	43
1	1	IC DEC 7410	1905576	42
1	1	IC DEC 7400	1905575	41
1	1	IC DEC 7474	1905537	40
1	1	TRANSISTOR DEC 6531	509333	39
1	1	TRANSISTOR DEC 6537D	1503407-00	38
1	1	RES 220 1/4W 5%	1300271	37
1	1	RES 3K 1/4W 5%	1300432	36
1	1	RES 17 3/4W 10% 76PE	1309143-0135	35
1	1	RES 22K 1/4W 5%	1301874	34
1	1	RES 270 1/4W 5%	1301972	33
1	1	RES 75K 1/4W 5%	1301422	32
1	1	RES 75K 1/4W 5%	1301422	31
1	1	RES 15K 1/4W 5%	1300479	30
1	1	RES 10K 1/4W 5%	1300479	29
1	1	RES 4.7K 1/4W 5%	1300447	28
1	1	RES 1.5K 1/4W 5%	1300391	26
1	1	RES 330 1/4W 5%	1300229	25
1	1	RES 100 1/4W 5%	1300229	24
1	1	RES 47 1/4W 5%	1300222	23
1	1	DIODE 1N4001	1100125	22
1	1	DIODE U664	1100114	21



J1 PINS A B C E H K L N P S U Y
J2 PINS A B C D E H K L N P R S T U V W Y

QTY	REF	DESCRIPTION	PART NO.	ITEM NO.
1	1	RES 150 1/4W 5%	1300230	56
1	1	RES 56 1/4W 5%	1302602	55
1	1	RES 430 1/4W 5%	1301424	54
1	1	RES 18K 1/4W 5%	1300498	53
1	1	CONN 40 PIN STAMPING HANDLE	1201941	52
1	1	IC DEC 8071	1503615	51
1	1	IC DEC 8231	1903514	49
1	1	IC DEC 6314	1907972	47
1	1	IC DEC 180	1909488	46
1	1	IC DEC 7404	1909606	45
1	1	IC DEC 7401	1907373	44
1	1	IC DEC 304	1909486	43
1	1	IC DEC 7410	1905576	42
1	1	IC DEC 7400	1905575	41
1	1	IC DEC 7474	1905537	40
1	1	TRANSISTOR DEC 6531	509333	39
1	1	TRANSISTOR DEC 6537D	1503407-00	38
1	1	RES 220 1/4W 5%	1300271	37
1	1	RES 3K 1/4W 5%	1300432	36
1	1	RES 17 3/4W 10% 76PE	1309143-0135	35
1	1	RES 22K 1/4W 5%	1301874	34
1	1	RES 270 1/4W 5%	1301972	33
1	1	RES 75K 1/4W 5%	1301422	32
1	1	RES 75K 1/4W 5%	1301422	31
1	1	RES 15K 1/4W 5%	1300479	30
1	1	RES 10K 1/4W 5%	1300479	29
1	1	RES 4.7K 1/4W 5%	1300447	28
1	1	RES 1.5K 1/4W 5%	1300391	26
1	1	RES 330 1/4W 5%	1300229	25
1	1	RES 100 1/4W 5%	1300229	24
1	1	RES 47 1/4W 5%	1300222	23
1	1	DIODE 1N4001	1100125	22
1	1	DIODE U664	1100114	21

SEMICONDUCTOR CONVERSION CHART

DATE: 2/71

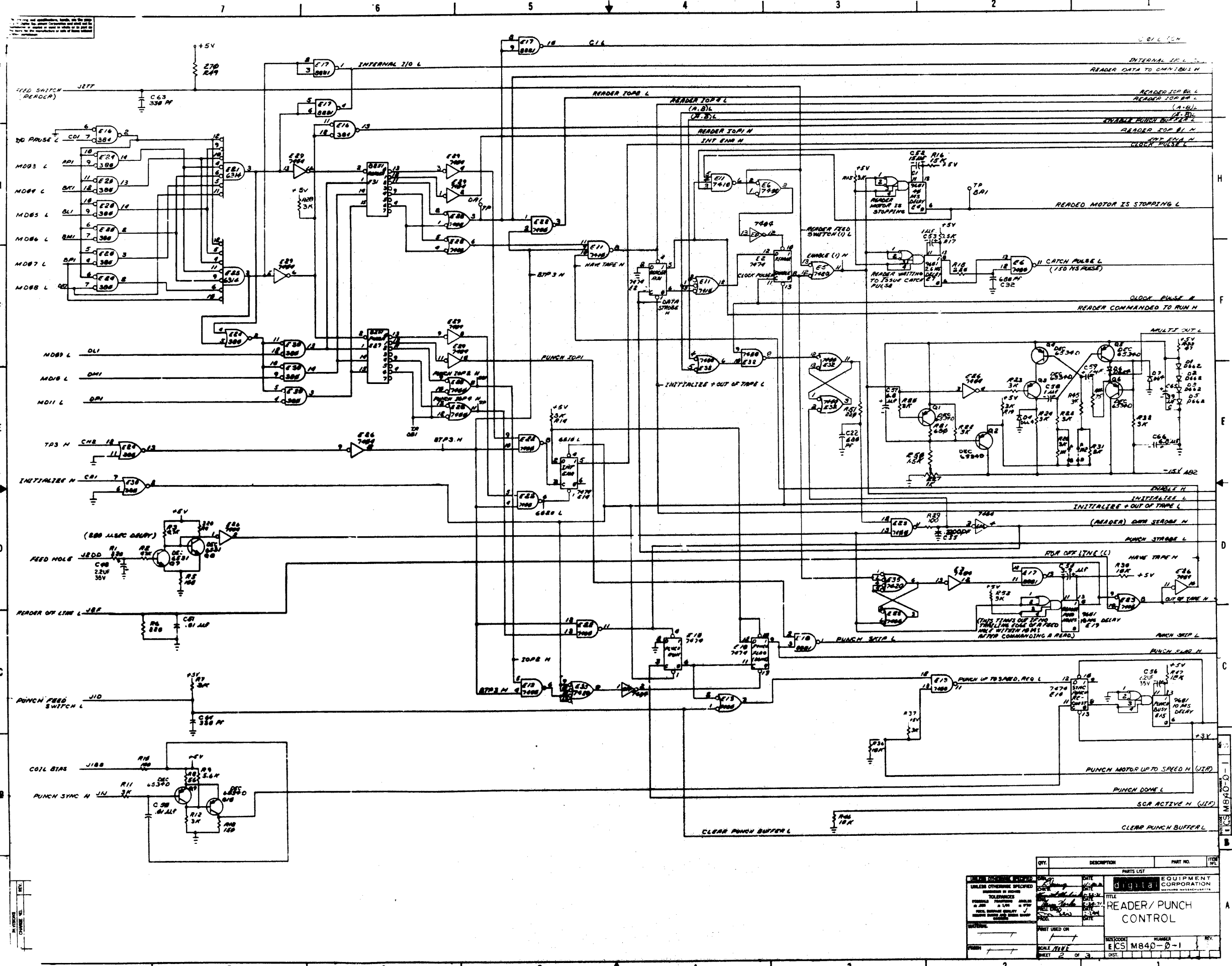
SCALE: 2/1

FIG. 1 OF 3

EQUIPMENT CORPORATION

READER/PUNCH CONTROL

ITEM NO. ECSI MR40-0-1



QTY.	DESCRIPTION	PART NO.	ITEM
			1
			2
			3
			4
			5
			6
			7
			8

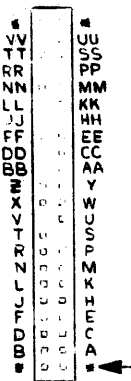
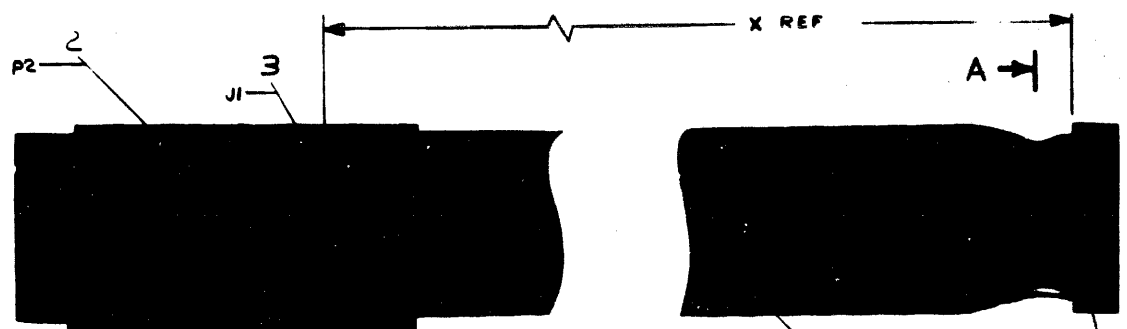
UNLESS OTHERWISE SPECIFIED		EQUIPMENT CORPORATION	
TOLERANCES	UNLESS	TITLE	REVISION
RESISTORS	AS SHOWN	READER/PUNCH CONTROL	
CAPACITORS	AS SHOWN		
WELDED PARTS	AS SHOWN		
FINISH	AS SHOWN		
SCALE	AS SHOWN		
SHEET	2 OF 3		

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WIRE TABLE					
ITEM NO.	DESCRIPTION	FROM	TO		REMARKS
			CONNECTION	CONNECTION	
1	30 GREY	PI-D	P2-A2		
		F	B2		
		J	C2		
		L	D2		
		N	E2		
		R	F2		
		T	H2		
		V	J2		
		X	K2		
		Z	L2		
		BB	M2		
		DD	N2		
		FF	P2		
		JJ	R2		
		LL	S2		
		NN	T2		
		RR	U2		
		TT	V2		

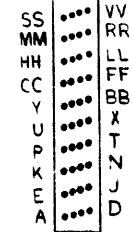
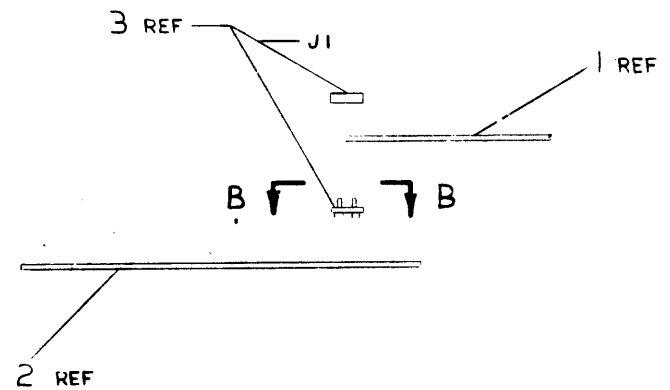
LEGEND		
WIRE NO.	WIRE I	DIM X
BCØ8K-16	7007036-Ø6	ØFT ± 2IN
BCØ8K-1Ø	7007036-1Ø	1ØFT ± 2IN
ECØ8K-15	7007036-15	15FT ± 3IN
ECØ8K-25	7007036-25	25FT ± 3IN
BCØ8K-5Ø	7007036-5Ø	5ØFT ± 12IN

NOTES:
 1. CONNECTORS FI AND JI ARE TO BE WIRED POINT TO POINT PI-A TO JI -A THRU PI-VV TO JI -VV.
 2. ASTERISKS INDICATE CAVTIES NOT USE OF DESIGNATED BY LETTERS.
 3. ALL PI CONNECTIONS NOT LISTED ON THE WIRE TABLE ARE GROUND.



VIEW A-A
(FOR REFERENCE ONLY)

LEGEND OTHER SIDE



VIEW B-B
(JI REF)

ETCH BOARD CONNECTOR	1210073-0
M955 CABLE CONNECTOR	M955
I/O CABLE	SEE LEGEND

QTY.	DESCRIPTION	PART NO.	IT
	PARTS LIST		
	ETCH BOARD CONNECTOR	1210073-0	
	M955 CABLE CONNECTOR	M955	
	I/O CABLE	SEE LEGEND	

FIRST USED ON OPTION/MODEL	PC/E
TOLERANCES	DECIMAL
.XXY	+ .005
.XX	± .02
.X	± .1

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TO BE HONED TO FINISH ± .005 INCHES ± .002 INCHES FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP EDGES
 MATERIAL
 SEE PARTS LIST
 FINISH

SCALE	10:1
SHEET	OF 1
TITLE	I/O CABLE (BCØ8K)
CODE	DUA BCØ8K-Ø-Ø
NUMBER	
REV	B

REVISIONS	CHANGE NO.	REV.
CHK	ECØ8K-ØØØØ A	
	GARDNER	
	BCØ8K-ØØØØ B	
	7M Dennis 5-11-71	
	GARDNER	
	2-25-71	

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION			DATE 8/13/70			
PC8-E READER PUNCH CONTROL						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG	Larry Narhi	APPD	<i>[Signature]</i>	SIZE	CODE	NUMBER	REV
DEC FORM NO				A	SP	PC8-EA-1	
DRA 107							

SHEET 1 OF 3

CONTINUATION SHEET		
TITLE	PC8-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 P204-PM Punch only, 50 cycle PC04-RB Reader only OR PR8-ES 110 CPS Paper Tape Reader, 110V 50/60 cycles	

DEC FORM NO		SIZE	CODE	NUMBER	REV
DRA 108A		A	SP	PC8-EA-1	

SHEET 3 OF 3

CONTINUATION SHEET		
TITLE	PC8-E READER PUNCH CONTROL	
1.	Overall Description The PC8-E is the reader/punch control for the PDP-8/E computer. The PC8/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 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 milliamps.	
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 RRF 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		SIZE	CODE	NUMBER	REV
DRA 107A		A	SP	PC8-EA-1	

SHEET 2 OF 3

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

ENG DRA 108	APPD S. J. Hoff	SIZE A	CODE SP	NUMBER PCB-E-2	REV 4
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DEC FORM NO 16-1022
DRA 108

ENGINEERING SPECIFICATION			CONTINUATION SHEET
TITLE PCB-E TEST PROCEDURE			
PRG5 - Punch test, random characters	PC04-BM/BL, PC04-PH/PL		
PRG6 - Punch verify random characters	PC04-BM/BL, PC04-PH/PL		
PRG7 - Combined reader and punch test, special binary count routine	PC04-BM/BL		
PRG13- Reader speed print loop	PC04-RB		
PRG14- Reader diagnostic write up for starting addresses and setup procedures.			
4.2 Consult the diagnostic write up for starting addresses and setup procedures.			
4.3 Execution times for the above test are as follows:			
TEST	RUN TIME		
PRG0	1 pass		
PRG13	3 passes		
PRG1	3 minutes each		
PRG2-6	10 minutes		
PRG7			
	Alternate between variable stall and high speed punch probes		
4.4 After a required sections of PCB diagnostic have been run, do the Teradyne copy routine as follows:			
4.5.1 Load in Teradyne loader in binary format.			
4.5.2 Turn punch on.			
4.5.3 Load and start 6101 for test tape			
4.5.4 After test tape has read through and a punch copy has been made.			
4.5.5 Load Marco 8 tape (in binary format)			
4.5.6 Load in punched copy into reader, and turn punch on.			
4.5.7 Load 200 Start 4002 - copies new tape.			
4.5.8 Take new copy load in reader.			
4.5.9 Load 200 Start 2002 prints out on TTY information on tape. Run for ten minutes.			
NOTE: Teradyne Loader tape is on front of test tape.			
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.			
5.0 HEAT TEST			
5.1 Heat test is to be run after successful completion of all previously indicated tests.			
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.			
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.			
5.4 Turn the heat switch off and open the two ports on the left side of the heat box.			
5.5 Allow 15 minutes for the machine to cool before removing the heat box.			
5.6 Terminate the test once the machine has run for 5 minutes at room temperature.			

DEC FORM NO 16-1022 DRA 108	SIZE A	CODE SP	NUMBER PCB-E-2	REV 4
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SHEET 3 OF 4

ENGINEERING SPECIFICATION			CONTINUATION SHEET
TITLE PCB-E TEST PROCEDURE			
1.0 EQUIPMENT			
1.1 PDP8/E standard			
1.2 Heat box			
1.3 455 scope and voltage probes			
1.4 Teletype			
1.5 PRB-E paper tape reader			
1.6 Binary loader tape			
1.7 M840 module and following options			
1.7.1 PRB-E - PC04-R and 1 BC08-K cable			
1.7.2 PRB-E - PC04-PH/PL and 1 BC08-K cable			
1.7.3 PCB-E - PC04-BM/BL and 2 BC08-K cables			
1.8 The following test tapes are also required:			
1.8.1 Test PRG0 (zeros) MAINDEC-00-DZ01-PT			
1.8.2 Test PRG2 (binary count) MAINDEC-00-DZ03-PT			
1.8.3 Teradyne copy routine tape			
1.9 box of paper tape			
2.0 TEST STATION SET UP			
2.1 Check paperwork in the envelope making sure it is complete as required by DEC standard # 101.			
2.1.1 Test and inspection record.			
2.1.2 Key sheet and ECO status sheet will contain both CS and etch revision.			
2.1.3 Quality Control inspection report.			
2.1.4 PDP8/E progress report (inserted at this time).			
2.2 Plug the PC04 power cord into the bench outlet.			
2.3 Insert the M840 module in the Omnibus per "Recommended Module Assignment List. (ASP-PDP8-E-0-4)".			
2.4 Insert the BC08K-6 cables as follows:			
Cable	From	To	
Reader	A1	J2 (M840)	
Punch	B1	J1 (M840)	
NOTE: If a PC04-RB (Reader) or PC04-PH (Punch) are ordered separately, only one BC08K cable is required.			
3.0 LOADING PROCEDURE			
3.1 Deposit Rim Loader (high speed) in PDP8-E per PDP8-E instruction card.			
3.2 Load Binary Loader using starting address of 7756.			
3.3 Load diagnostic MAINDEC-8E-DZCA using starting address of 7777.			
4.0 PCB-E CHECKOUT			
4.1 The following test programs to be run are:			
TEST NO	USED ON		
PRG0 - Basic reader and reader control logic test	PC04-BM/BL, PC04-R		
PRG1 - Basic punch and punch control logic test	PC04-BM/BL, PC04-PH/PL		
PRG2 - Reader test, special binary count pattern	PC04-BM/BL, PC04-R		
PRG3 - Punch test, special binary count pattern	PC04-BM/BL, PC04-PH/PL		
PRG4 - Punch verify, special binary count pattern	PC04-BM/BL, PC04-PH/PL		

DEC FORM NO 16-1022 DRA 108	SIZE A	CODE SP	NUMBER PCB-E-2	REV 4
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SHEET 2 OF 4

ENGINEERING SPECIFICATION			CONTINUATION SHEET
TITLE PCB-E TEST PROCEDURE			
6.0 FINAL OPERATION AND INSPECTION			
6.1 Disconnect the M840 module from the PDP8-E and the cables from the reader and/or punch.			
6.2 Check that the following paperwork has been completed:			
Envelope			
ECO Status Sheet			
QC Sheet			
8/E Progress Report			

DEC FORM NO 16-1022 DRA 108	SIZE A	CODE SP	NUMBER PCB-E-2	REV 4
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SHEET 4 OF 4

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION						
TITLE PCB-E ACCEPTANCE PROCEDURE (Field)						DATE 5/18/71
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG Larry Narhi	APPD Dave Chertkow	SIZE CODE A	NUMBER 7665138-0	REV
DEC FORM NO. 16 1022				DNA 107

SHEET 1 OF 3

ENGINEERING SPECIFICATION				CONTINUATION SHEET	
TITLE PCB-E ACCEPTANCE PROCEDURE					
continuous or as specified in the diagnostic write-up will be classified defective and returned to Production for repair.					

SIZE CODE A	NUMBER 7665138-0	REV
DEC FORM NO 16 1022		

SHEET 3 OF 3

ENGINEERING SPECIFICATION				CONTINUATION SHEET	
TITLE PCB-E ACCEPTANCE PROCEDURE (Field)					
1. Check Key Sheet and Construction Requisition to see which of the following is required.					
A. PR8-E					
B. PP8-E					
C. FC8-E					
D. MB4g					
2. Check MB4g module for proper revision (circuit schematic and etch). Also check for date coding.					
3. Make sure MB4g module has been heat tested.					
4. Check G918 module for correct revisions.					
5. Check mechanical workings of reader and punch (nothing is binding).					
6. Insure MB4g is in proper module assignment list along with all other modules.					
7. Load in diagnostic Maindec-8E-D2CA.					
8. A. Run Test 7, fifteen minutes on each speed. Punch blank leader. Load reader with blank leader. Load 2gg. Start ggg7. S.R. 6 varies speed. While running Test 7, move cable connections slightly.					
B. Test 13 reader speed test. Install a loop tape in reader. Load 2gg. Start gg13. Time reader for 30 seconds. Stop reader by putting bit g on a one and then back to a zero. It will type out; it must be over 3gg cps.					
C. Test 14 punch speed test Turn punch on. Load 2gg. Start gg14. After 6g seconds, set bit g to a 1 and then back to g. TTY types out punch speed. Must be over 50 cps.					
10. Module assignment list and physical order of modules must match each other before shipping.					
11. Any PCB-E which while performing Acceptance Test halts, generates error print outs, garble, or run- other than					

SIZE CODE A	NUMBER 7665138-0	REV
DEC FORM NO 16 1022		

SHEET 2 OF 3

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION						
TITLE PCB-E ACCEPTANCE PROCEDURE (Field)					DATE 5/18/71	
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG Larry Narhi	APPD Dave Chertkov	SIZE CODE A	NUMBER 7665138-0-0	REV
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DEC FORM NO 16-1022
DMA 107

SHEET 1 OF 3

ENGINEERING SPECIFICATION					
TITLE PCB-E ACCEPTANCE PROCEDURE					CONTINUATION SHEET
continuous or as specified in the diagnostic write-up will be classified defective and returned to Production for repair.					

	SIZE CODE A	SP	NUMBER 7665138-0-0	REV
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DEC FORM NO 16-1022
SHEET 3 OF 3

ENGINEERING SPECIFICATION					
TITLE PCB-E ACCEPTANCE PROCEDURE (Field)					CONTINUATION SHEET
<p>1. Check Key Sheet and Construction Requisition to see which of the following is required.</p> <p>A. PR8-E B. PP8-E C. PCB-E D. MB4β</p> <p>2. Check MB4β module for proper revision (circuit schematic and etch). Also check for date coding.</p> <p>3. Make sure MB4β module has been heat tested.</p> <p>4. Check G918 module for correct revisions.</p> <p>5. Check mechanical workings of reader and punch (nothing is binding).</p> <p>6. Insure MB4β is in proper module assignment list along with all other modules.</p> <p>7. Load in diagnostic Maindec-8E-D2CA.</p> <p>8. A. Run Test 7, fifteen minutes on each speed. Punch blank leader. Load reader with blank leader. Load 2$\beta\beta$. Start $\beta\beta\beta$7. S.R. 6 varies speed. While running Test 7, move cable connections slightly. B. Test 13 reader speed test. Install a loop tape in reader. Load 2$\beta\beta$. Start $\beta\beta$13. Time reader for 30 seconds. Stop reader by putting bit β on a one and then back to a zero. It will type out; it must be over 3$\beta\beta$ cps. C. Test 14 punch speed test Turn punch on. Load 2$\beta\beta$. Start $\beta\beta$14. After 6β seconds, set bit β to a 1 and then back to β. rrr types out punch speed. Must be over 50 cps.</p> <p>10. Module assignment list and physical order of modules must match each other before shipping.</p> <p>11. Any PCB-E which while performing Acceptance Test halts, generates error print outs, garble, or run other than</p>					

	SIZE CODE A	SP	NUMBER 7665138-0-0	REV
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DEC FORM NO 16-1022
SHEET 2 OF 3

SHEET 1 OF 3

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				LEGEND		QUANTITY / VARIATION												
ACCESSORY LIST		SECTION		DN	DOCUMENT CHANGE NOTICE	PC8-E	PC8-EA	PC8-EF	PC8-EG			KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE	
MADE BY	J. Mc Cluskey	CHECKED	DATE 4/10/72	PA	PAPER TAPE ASCII													
ENG	L. Narhi	PROD	DATE 7/18/72	PB	PAPER TAPE BINARY													
DATE	4/10/72	ISSUED SECT.	DATE 7/18/72	PM	PAPER TAPE READ-IN-MODE													
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																
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-PC9E-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-PC04/5-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 PC8-E-3		REV 3		ECO NO PC8E 3333						
SHEET OF				DIST.														