

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

digital equipment corporation • maynard, massachusetts

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DIC	PDP
EIIP/POP	LOCAL
DIGITAL	COMPUTER LAB

MASTER DRAWING LIST

MAINTENANCE MANUALS	UNIT VARIATIONS															
	NO.	TITLE	PC8-A	PC8-EA	PC8-EB	PC8-EC										
PC8-E	HIGH SPEED RDR/PUN	X	X	X	X											

USED ON OPTIONS															
PDP6/E															

REVISIONS CHG. NO. DATE REV.	APP'D.	I. N.				DRN.	DATE	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE HIGH SPEED READER AND PUN (50 - 3)	SIZE CODE A ML	NUMBER PC8-E	REV. E		
		PC8E-2	PC8E-3	PC8E-4	PC8E-5	PC8E-6	1						CON'D	DATE
	A	5/71	1/72	4/72	6/72	10/72							K. GULICK	3/71
	B												ENG.	DATE
	C												L. HARRI	3/71
	D												PROJ. ENG.	DATE
E							L. HARRI	3/71						
							PROD.	DATE						
							L. SAYLOR	3/71						
							FIRST USED ON							
							PDP6-E							

DRA 131
Dec 16-(325)-1041-N471

PRINT SET		PC8-E	DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE	OPTION NO.
		X	E-CS-M840-0-1	#	3	READER PUNCH CONTROL	
		X	D-UA BC08K-0-0	#	1	CABLE ASSEMBLY	BC08K
		X	A-SP-PC8-EA-1		3	ENGINEERING SPECS	
		X	A-SP-PC8-E-2		1	TEST PROCEDURE	
		X	A-SP-7665129-0-0		2	ACCEPTANCE PROCEDURE	
		X	A-SP-7665138-0-0		2	PC8-E ACCEPTANCE PROCEDURE (FIELD)	
			LIBKIT-25-PC9E	REF		SOFTWARE KIT	
		X	A-PL-PC8E-0-0		1	HIGH SPEED READER & PUNCH (PARTS LIST)	
		X	A-AL-PC8-E-3	B	1	ACCESSORY LIST	

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

MASTER DRAWING LIST

MAINTENANCE MANUALS		UNIT VARIATIONS																
		PC04-B	PC04-BA	PC04-BB	PC04-BC	PC04-BL	PC04-BM	PC04-C	PC04-CA	PC04-P	PC04-PA	PC04-PL	PC04-PM	PC04-R	PC04-RB	PC04-CL	PC04-CM	PC04-RL
NO.	TITLE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PC04-0	BASIC PC04																	

USED ON OPTIONS	
PR08	PR08L
PR0-B	PR0I
PC0-E	PC0I
PC0I	PC08
PR0I	PC09
PR0I	

REVISIONS		APP'D.	DATE	CHG. NO.	MISC.	ML	L.F.	C.Y.	D.W.	J.R.	DRN.	DATE	digital EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>		TITLE	
REV.	DATE	ORIG	8/71	A	MISC-86	00053					P. MARCOTTE	6/69	PAPER TAPE READER			
A	12/71	B	2/72	C	00054					R. CARVELLI	6/69					
B	4/72	D	5/72	E	00055					G. BECKNER	6/69					
C	3/73	F	9/73	G	00056					G. BECKNER	6/69					
D	5/74	H		PC04-	00058					G. BECKNER	6/69					
E				00059												
											PC04	SCALE	A ML	NUMBER	REV	
											SHEET	1 OF 2	DWT		PC04-0	H

DRA 131

Dec 16 (325)-104P-N471

PRINT SET		DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE	OPTION NO.				
X	PC04-0	D-DI-PC04-0-1	Z	2	DRAWING INDEX					
X		D-BS-PC04-0-2	J	3	POWER + CONTROL SCHEMATIC DIAGRAM (REFERENCE)					
X		B-CS-M113-0-1	#	1	10-2 INPUT NAND GATES					
X		B-CS-5408308-0-1	#	1	POWER REGULATOR CIRCUIT SCHEMATIC					
X		B-CS-5408385-0-1	#	1	SCR DRIVER CIRCUIT SCHEMATIC					
X		B-CS-M044-0-1	#	1	SOLENOID DRIVERS					
X		D-CS-M710-0-1	#	1	PUNCH CONTROL M710					
X		B-CS-M040-0-1	#	1	SOLENOID DRIVERS					
X		D-CS-M7050-0-1	#	1	READER CONTROL M7050					
X		D-CS-M715-0-1	#	1	READER CLOCK M715					
X		D-CC-G918-0-1	#	1	PHOTO TRANSISTOR AMPLIFIER G918					
X		E-CS-M840-0-1	#	3	READER PUNCH CONTROL					
X		D-MU-PC04-0-3	D	1	MODULE UTILIZATION					
X		A-PL-PC04-0-3	D	2	MODULE UTILIZATION (PARTS LIST)					
X		B-CS-5408918-0-1	#	1	POWER REGULATOR CIRCUIT SCHEMATIC					
X		A-SP-PC04-0-4	A	7	PC04 ENGINEERING SPECS					
X		B-CS-5408310-0-1	#	1	POWER REGULATOR CIRCUIT SCHEMATIC					
X		D-UA-PC04-0-0	P	4	READER + PUNCH					
X		C-PL-PC04-0-0	P	2	READER + PUNCH (PARTS LIST)					
X		E-AD-7006268-0-0	H	1	WIRED ASSY					
X		A-PL-7006268-0-0	H	1	WIRED ASSY					
X		D-BS-PC04-CL-PNCH		1	PUNCH					
X		D-BS-PC04-CL-RD		1	READER & POWER SUPPLY					
X		K-WL-PC04-0-5	H		WIRE LIST PC04-B, BA, BB, BC, C, CA, P, PA, R, RB					
X		K-WL-PC04-0-6	H		WIRE LIST PC04-BL, BM, PL, PM, RL					
X		K-WL-PC04-0-7	H		WIRE LIST PC04-CL, CM					
X		A-AL-PC04-0-08		1	ACCESSORY LIST					
TITLE		PAPER TAPE READER			SHEET	2 OF 2	SIZE	CODE	NUMBER	REV
					A	ML	PC04-0	H		

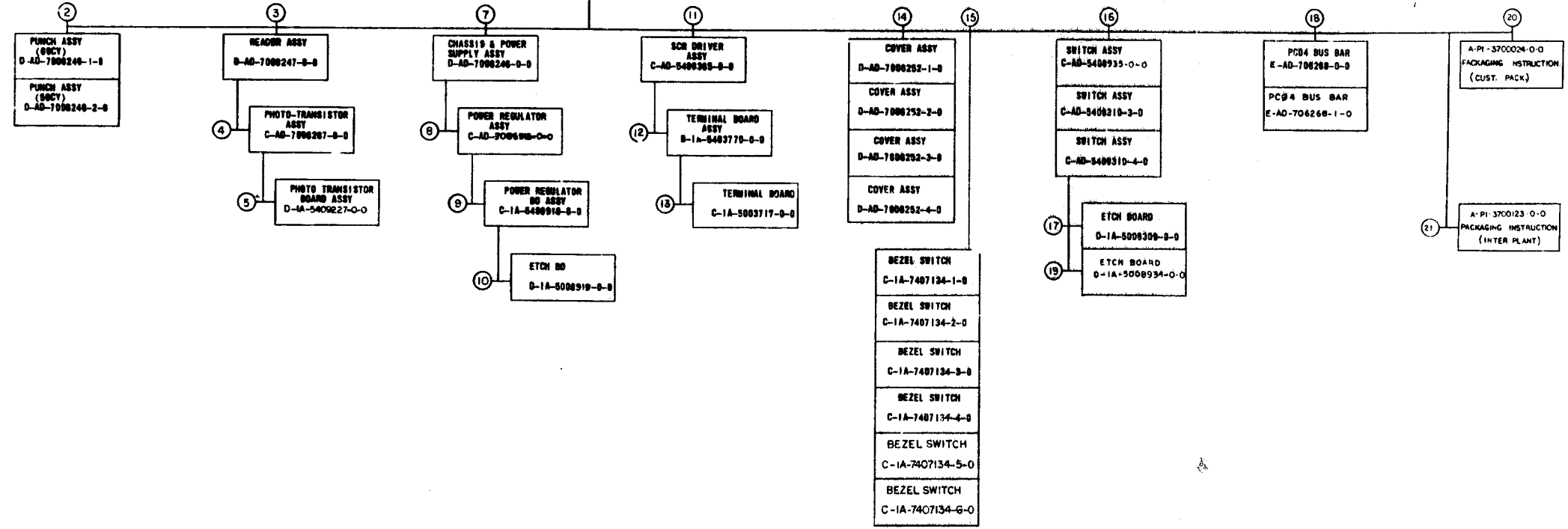
DRA 132

DEC 16 (325) 1048 1 N471

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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	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, B34 BL	PUNCH & READER	80	-1	X	X	X		X	X	X	X										
PC04-BA, BC & BM	PUNCH & READER	50	-2	X	X	X		X	X	X	X				-1	-1	-4	X	X		
PC04-C	PUNCH, READER, DRIVER	80	-1	X	X	X		X	X	X	X	X	X	X	-4	-4	-3	X	X		
PC04-CA	PUNCH, READER, DRIVER	50	-2	X	X	X		X	X	X	X	X	X	X	-4	-4	-3	X	X		
PC04-PA PL	PUNCH	80	-1					X	X	X	X				-2	-2	-2	X	X		
PC04-PA & PM	PUNCH	50	-2					X	X	X	X				-2	-2	-2	X	X		
PC04-R & RB	READER			X	X	X		X	X	X	X				-3	-3	-0	X	X		



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

REV.	NO.	DATE	BY	CHK.	APP.	DESCRIPTION
1	1	10-10-69	J. MORRIS			ISSUED FOR MANUFACTURE
2	1	11-11-69	J. MORRIS			REVISION TO DRAWING
3	1	12-15-69	J. MORRIS			REVISION TO DRAWING
4	1	1-15-70	J. MORRIS			REVISION TO DRAWING
5	1	2-10-70	J. MORRIS			REVISION TO DRAWING
6	1	3-10-70	J. MORRIS			REVISION TO DRAWING
7	1	4-10-70	J. MORRIS			REVISION TO DRAWING
8	1	5-10-70	J. MORRIS			REVISION TO DRAWING

QTY.	DESCRIPTION	PART NO.	ITEM NO.
	PC04		

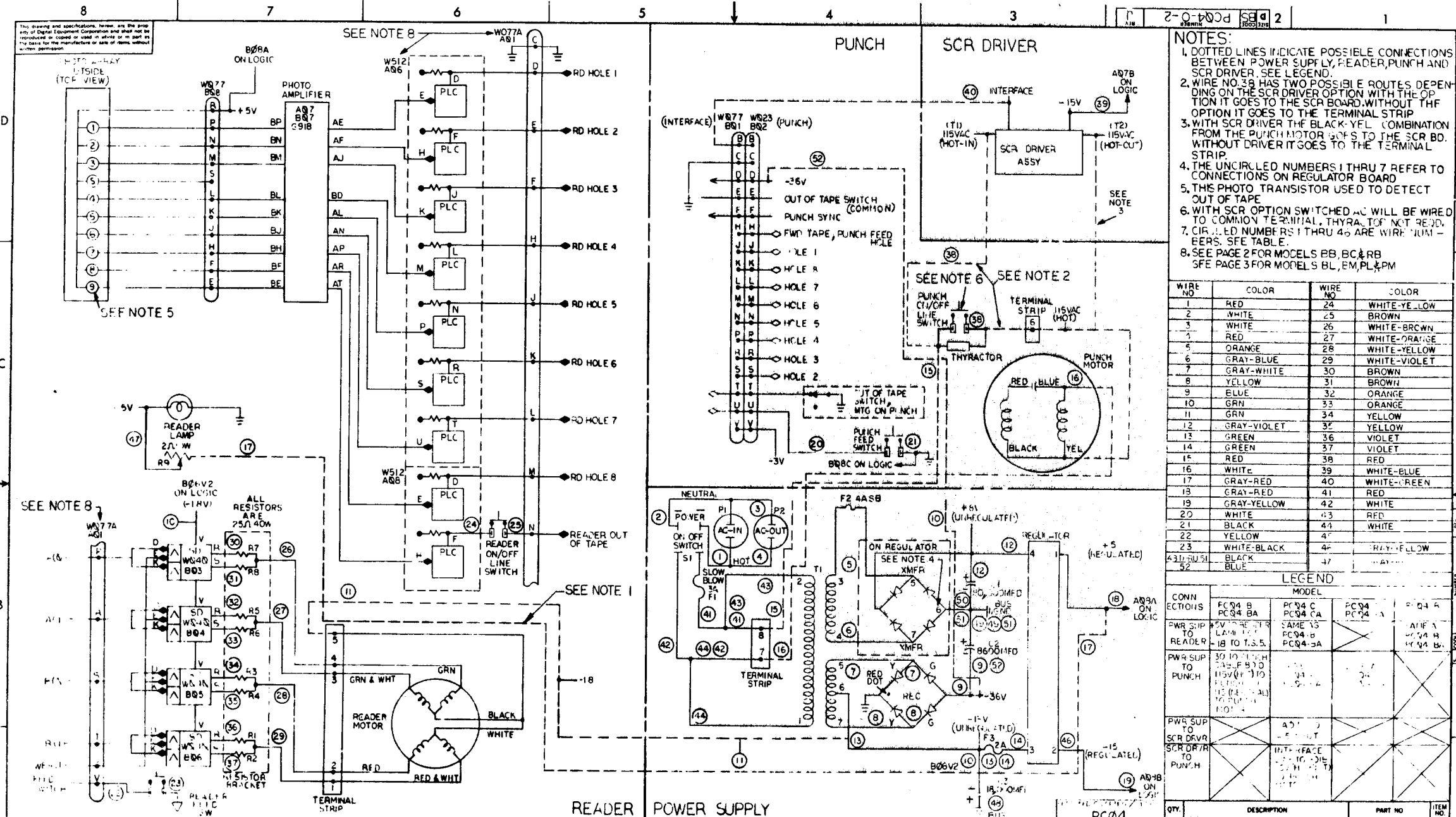
DATE	BY	CHK.	APP.	TITLE
10/10/69	J. MORRIS			DRAWING INDEX LIST, PC04

B DDI PC04-0-1
 1 2 3 4 5 6 7 8

MECHANICAL				DEPT USAGE				MECHANICAL				DEPT USAGE				ELECTRICAL				DEPT USAGE			
NO	DESCRIPTION	PART NO	PROD CUST F/C	FIND NO	DESCRIPTION	PART NO	PROD CUST F/C	FIND NO	DESCRIPTION	PART NO	PROD CUST F/C	FIND NO	DESCRIPTION	PART NO	PROD CUST F/C	FIND NO	DESCRIPTION	PART NO	PROD CUST F/C				
4	PCB4- READER & PUNCH (PL)	A-PL-PCB4-B-B		4	PHOTO TRANSISTOR ASSY	C-1A-7008287-0-0		16	SWITCH ASSY	C-AD-5408985-0-0		1	PAPER TAPE READER	A-ML-PC04-0									
	CHAD BOX	B-MD-7405300-0-0			TEST SCHEMATIC	D-CS-7406267-1-1			SWITCH ASSY	C-AD-5408310-3-0			PCB4-RA-READER & PUNCH	A-ML-PC04-0									
	TAPE CONTAINER	D-MD-7407131-0-0			TEST PROCEDURE	A-SP-7406267-1-1			SWITCH ASSY (PL)	C-AD-5408310-4-0			PCB4-C-READER & PUNCH & DRIVER	A-ML-PC04-0									
	I/O CABLE ASSY	C-1A-7008281-0-0			PHOTO TRANSISTOR BO ASSY	D-1A-5409227-0-0			SWITCH ASSY (PL)	A-PL-5408310-0-0			PCB4-CA-READER & PUNCH & DRIVER	A-ML-PC04-0									
	PCB4-PA PUNCH	D-AD-7008281-0-0							BAR SWITCH SW. BD.	B-WD-7407175-0-0			PCB4-P-PUNCH	A-ML-PC04-0									
	BKRT RESISTOR	C-MD-7408091-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	SCR MODULE RETAINER	C-1A-7405642-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	HELIX DOWN BAR	C-1A-7408139-7-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	PACKAGING INSTRUCTIONS	A-PI-3700024-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	PCB4-READER & PUNCH	D-AD-7008248-1-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	PUNCH ASSY (SOCT)	D-AD-7008248-2-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	PUNCH ASSY (PL)	A-PL-7008248-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	CHAD TUBE	B-MD-7407308-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	PUNCH MTC CHASSIS	D-1A-7407071-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	HINGE	B-MD-7407071-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	BKRT FEED	D-MD-7408098-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	TAPE GUIDE	D-1A-7407110-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	TAPE OPRESSOR	D-1A-7407110-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	PIV	D-SC-1209925-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	PULLY (SOCT)	B-MD-7408172-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	PULLY (SOCT)	B-MD-7408098-1-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	PULLY (SOCT)	B-MD-7408098-2-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	FORSSON SHING	C-SC-1209924-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	READER ASSY	D-AD-7008247-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	READER ASSY (PL)	A-PL-7008247-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	TAPE PATH GUIDE	D-MD-7407070-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	READER PLATE	D-MD-7407065-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	SHOCT READER	B-MD-7407110-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	SHAFT READER PLATE	B-MD-7407110-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	ARM SPRING	B-MD-7407120-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	SPRING BULB	B-MD-7407110-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	OPRESSOR TAPE	A-MD-7407110-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	BKRT TAPE HOLD DOWN	C-MD-7407121-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	GLO. SYN MOTOR REWORK	C-MD-7407144-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	SHIM	B-1A-7407684-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
	LENS	B-MD-7407800-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									
		B-MD-7404989-0-0											PCB4-PA-PUNCH	A-ML-PC04-0									

WILLIAMS

QTY	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED	DATE	digital EQUIPMENT CORPORATION	
TOLERANCES	DATE	DRAWING INDEX	
DEFINITIONS: FRACTIONS ANGLES	DATE	LIST PC04	
REMOVE DIMS AND BREAK DIMS	DATE	DIDI-PC04-0-1	
FINISH	SCALE	SHEET	REV
	2 OF 2		32



- NOTES:**
1. DOTTED LINES INDICATE POSSIBLE CONNECTIONS BETWEEN POWER SUPPLY, 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. THYRA. TOP 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-YE LOW
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	BLACK	47	WHITE
52	BLUE		

LEGEND

CONN. ACTIONS	MODEL PC94 B	MODEL PC94 C	MODEL PC94 CA	MODEL PC94 A	MODEL PC94 B
PWR SUP TO READER	PC94 B	PC94 C	PC94 CA	PC94 A	PC94 B
PWR SUP TO PUNCH	PC94 B	PC94 C	PC94 CA	PC94 A	PC94 B
PWR SUP TO SCR DRIVER	PC94 B	PC94 C	PC94 CA	PC94 A	PC94 B
PWR SUP TO PUNCH	PC94 B	PC94 C	PC94 CA	PC94 A	PC94 B

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

REV.	CHANGE NO.	DATE	BY	DESCRIPTION
1				
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PC94

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES

TOLERANCES: DECIMALS FRACTIONS ANGLES
 ±.005 ±.010 ±.015 ±.020
 FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL: 1/2" ALUMINUM
 FINISH: NONE

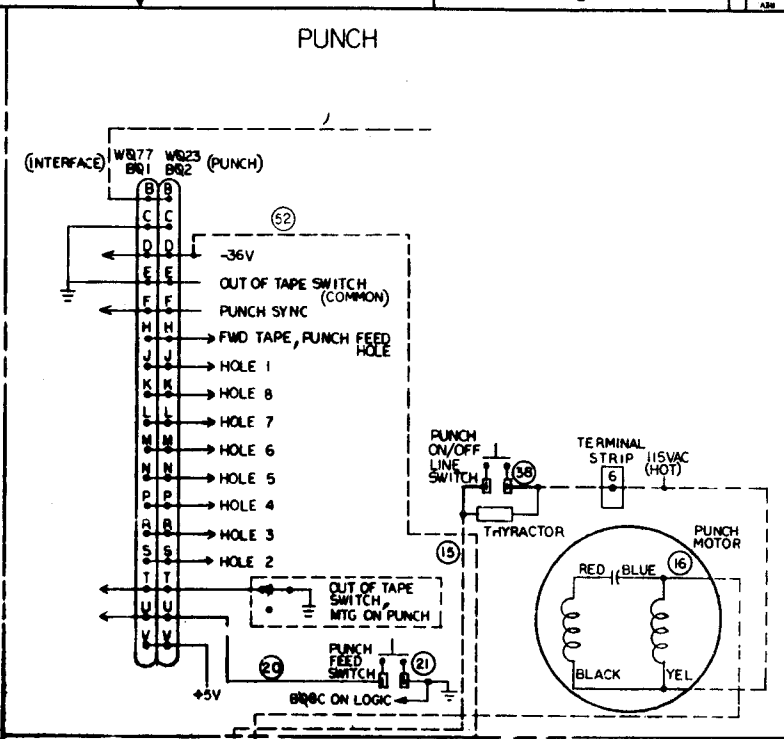
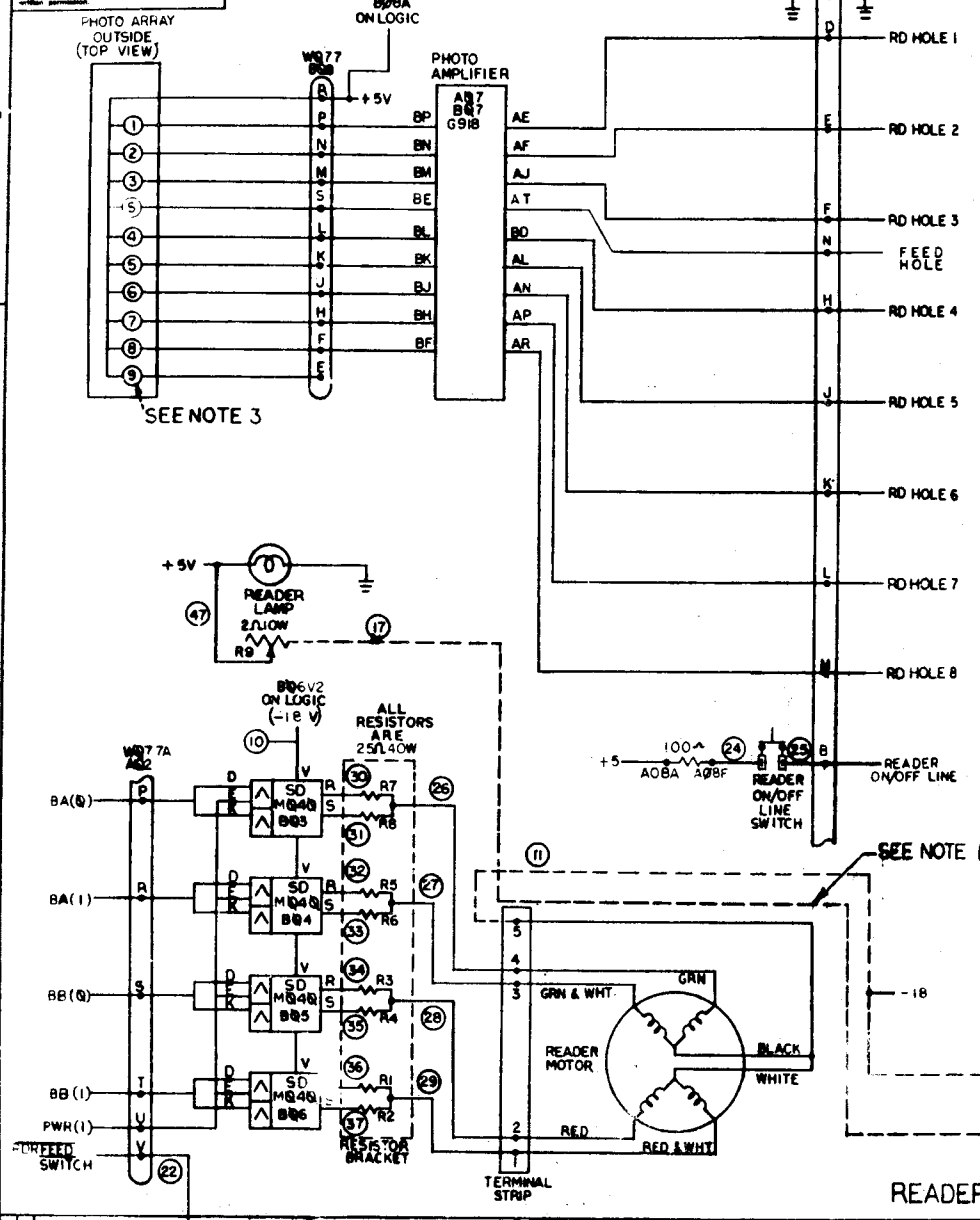
DATE: 1/15/58
 CHECKED: [Signature]
 DESIGNED: [Signature]
 DRAWN: [Signature]

SCALE: NONE
 SHEET: 1 OF 3

QTY. DESCRIPTION PART NO. ITEM NO.

digital EQUIPMENT CORPORATION
 TITLE: PUNCH CONTROL SCHEMATIC DIAGRAM
 SIZE CODE: DB
 NUMBER: 10070-2
 REV: 1

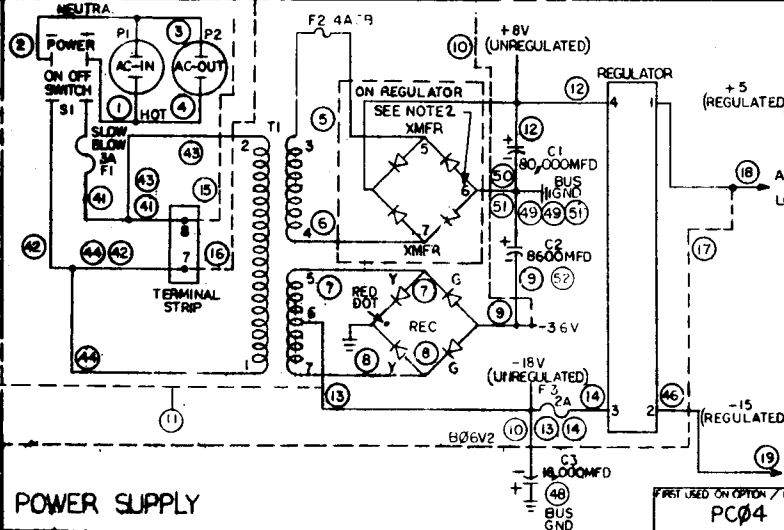
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- NOTES:**
1. DOTTED LINES INDICATE POSSIBLE CONNECTIONS BETWEEN POWER SUPPLY, READER AND PUNCH.
 2. THE UNCIRCLED NUMBERS 1 THRU 7 REFER TO CONNECTIONS ON REGULATOR BOARD.
 3. THIS PHOTO TRANSISTOR IS NOT USED.
 4. CIRCLED NUMBERS 1 THRU 46 ARE WIRE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

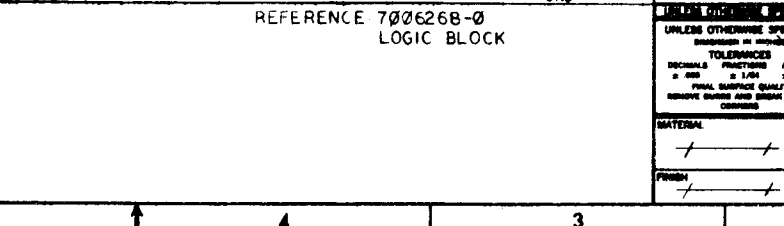
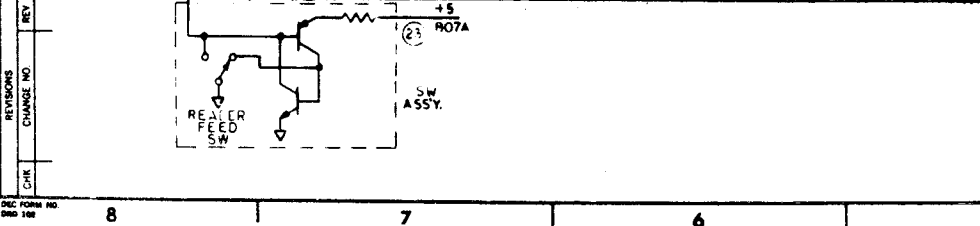
WIRE TABLE

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
48	BLACK		
52	BLUE	47	GRAY-RED



LEGEND

CONN. ACTIONS	PC04 BB PC04 BC	PC04 PA	PC04 RB
PWR SUP TO READER	5V TO READER LAMP POT 18 TO T.S.5		SAME AS PC04-B PC04-BC
PWR SUP TO PUNCH	30 TO PUNCH CABLE BOND 115V (HOT) TO PUNCH SW 115 (NEUTRAL) TO PUNCH MOTOR		SAME AS PC04 BB PC04 BC



PC04

QTY.	DESCRIPTION	PART NO.	ITEM NO.

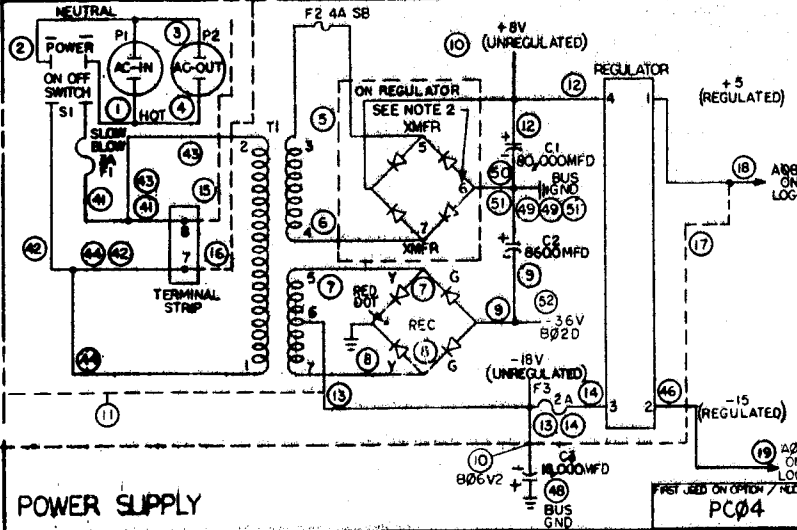
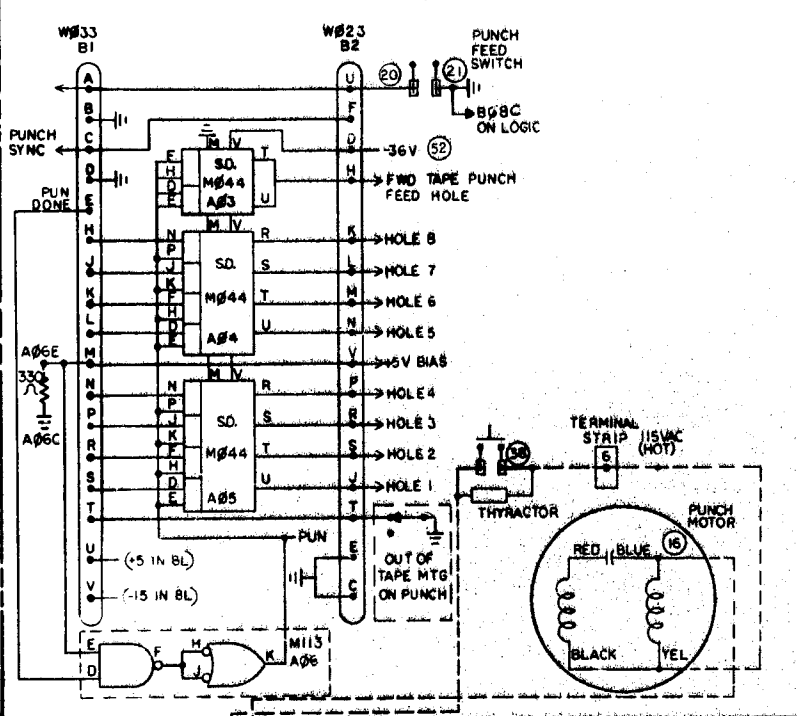
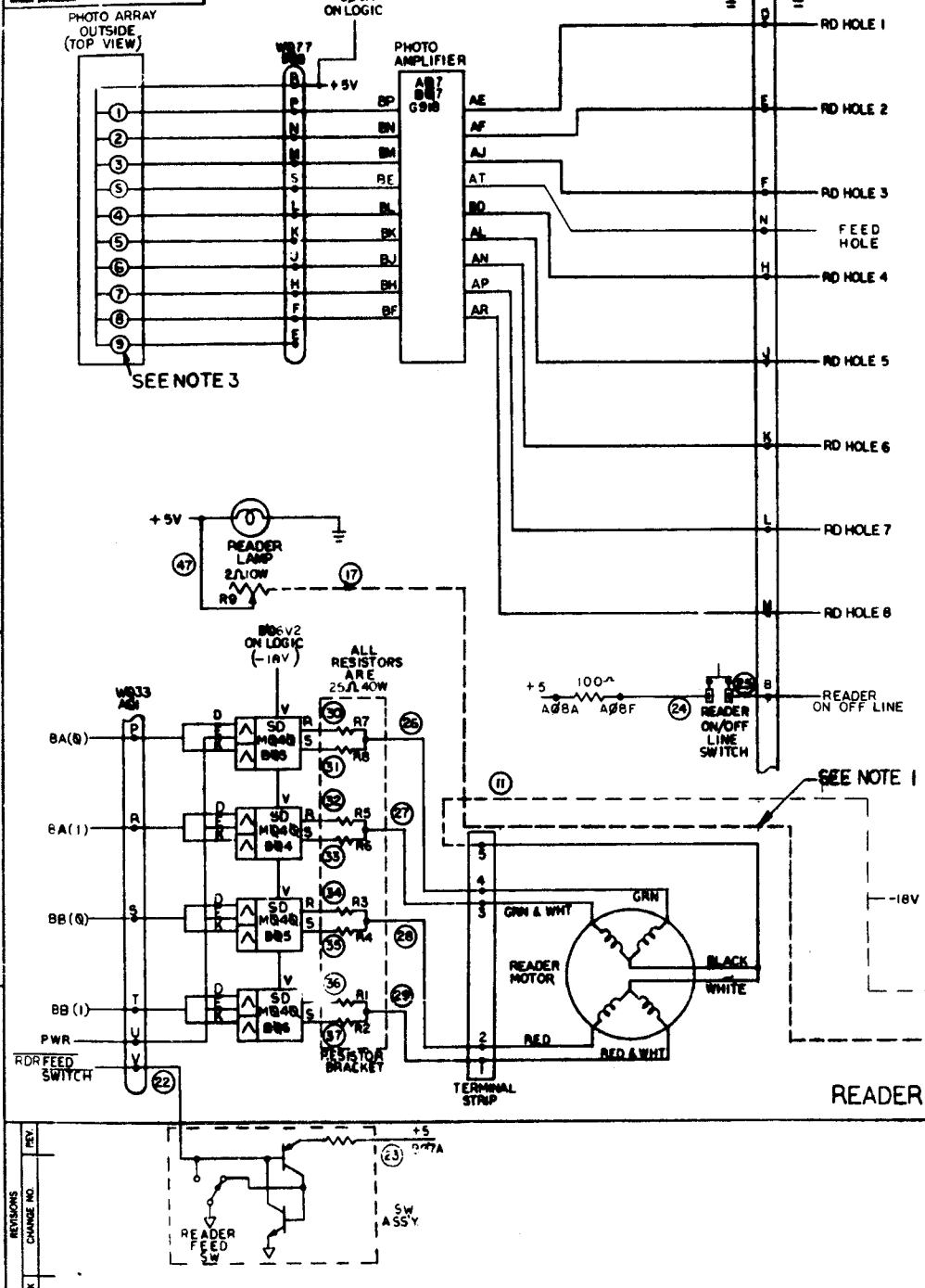
UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES
TOLERANCES
DIMENAL FINISHES ANGLES
± 0.005 ± 0.002 ± 0.001
FINISH SURFACE QUALITY
REMOVE BURRS AND BRISTLES
CHAMFER

MATERIAL
FINISH

PREPARED BY: A-ML-PC04
SCALE: NONE
SHEET 2 OF 3

EQUIPMENT CORPORATION
POWER AND CONTROL SCHEMATIC DIAGRAM (31)
REV. J
PC04-0-2

The ground and identification, locate, use the proper type of Digital Equipment Corporation and shop and to be replaced or copied as noted in the manual for the equipment or lack of same will void the warranty.



- 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 (H/LS)	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 (15 (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)

EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

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

SCALE: NONE

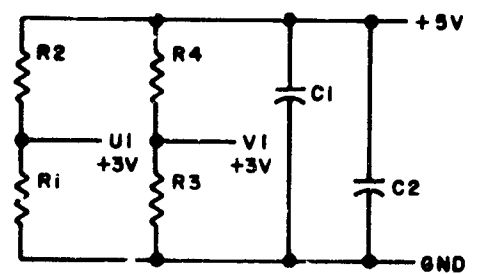
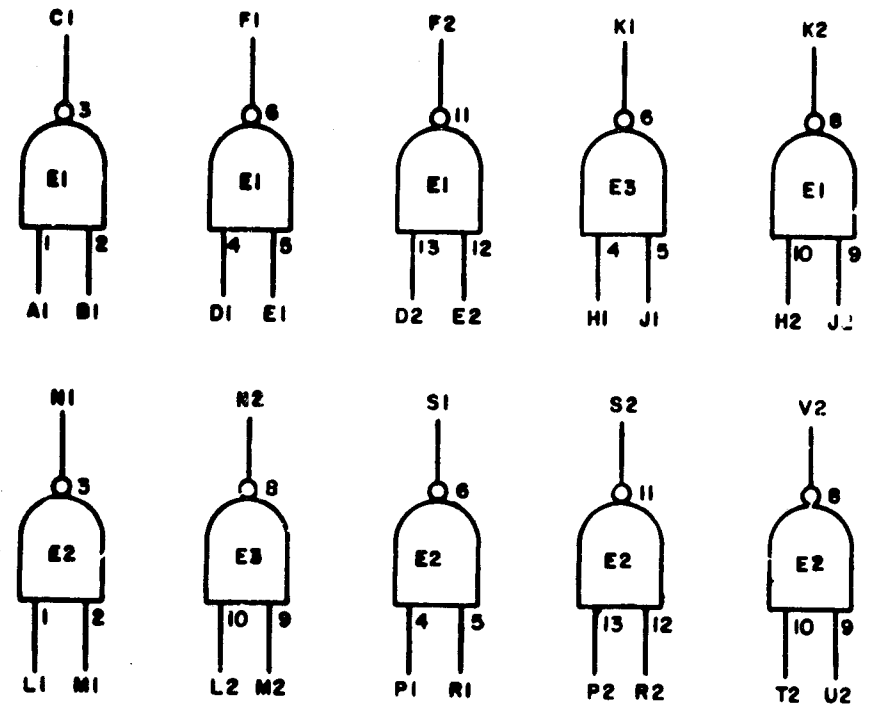
A-ML-PC04

DWS PC04-0-2

SHEET 3 OF 3

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+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. 350 1/4W 10% CC	1300293
C1 AND C2	CAP. .01MFD 100V 20% DISC	1001610
	PARTS LIST	A-PL-M113-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REV	BY	DATE
1	...	...
2	...	...
3	...	...
4	...	...
5	...	...
6	...	...

DRN	DATE
CHK'D	DATE
ENG	DATE
PRD	DATE

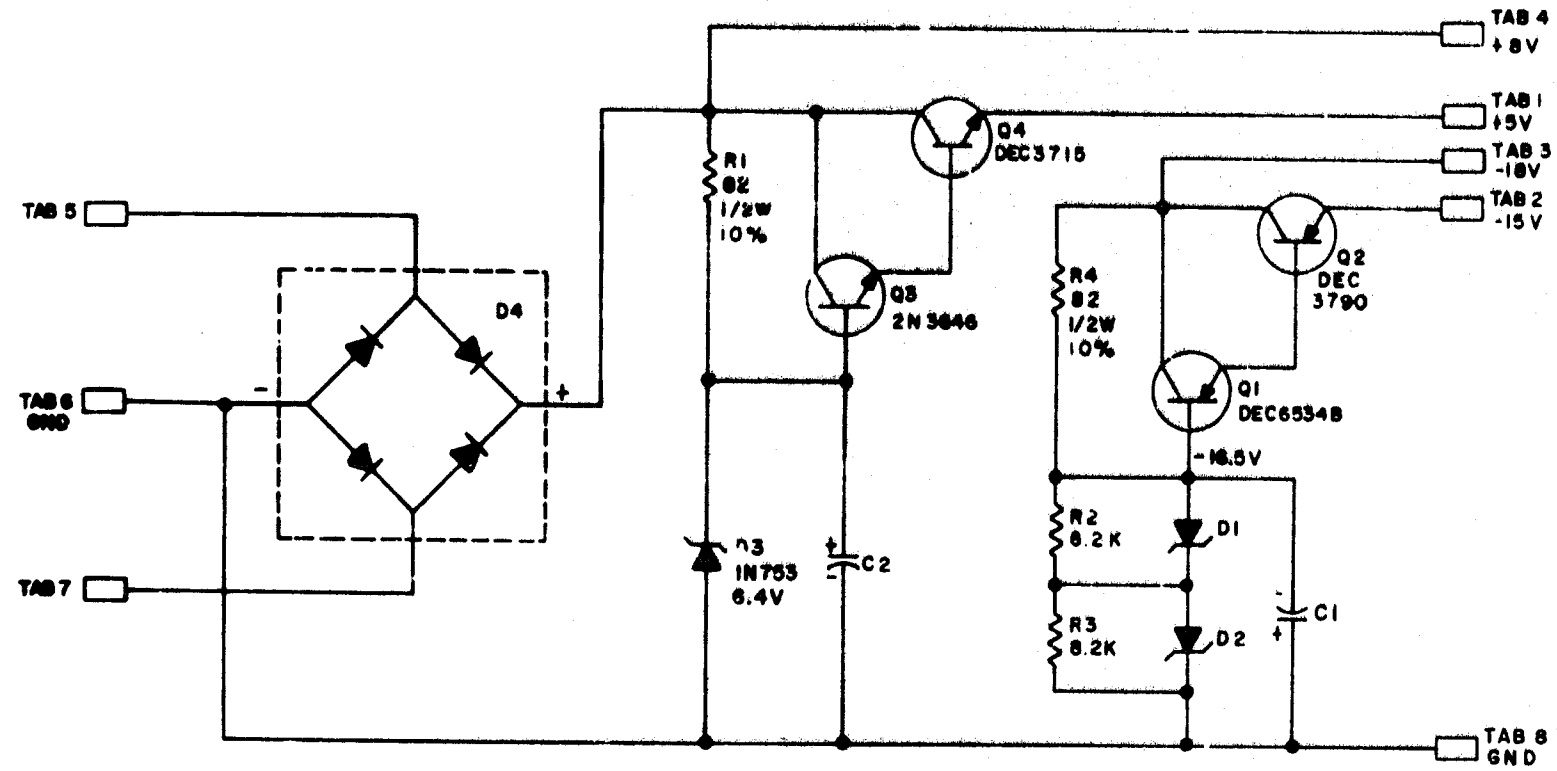
TRANSISTOR & DIODE CONVERSION CHART			
YFC	EIA	DEC	FIA

EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE			
10-2 INPUT NAND GATES M113.			
SIZE	CODE	NUMBER	REV.
B	CS	M113-0-1	C
PRINTED CIRCUIT REV			D

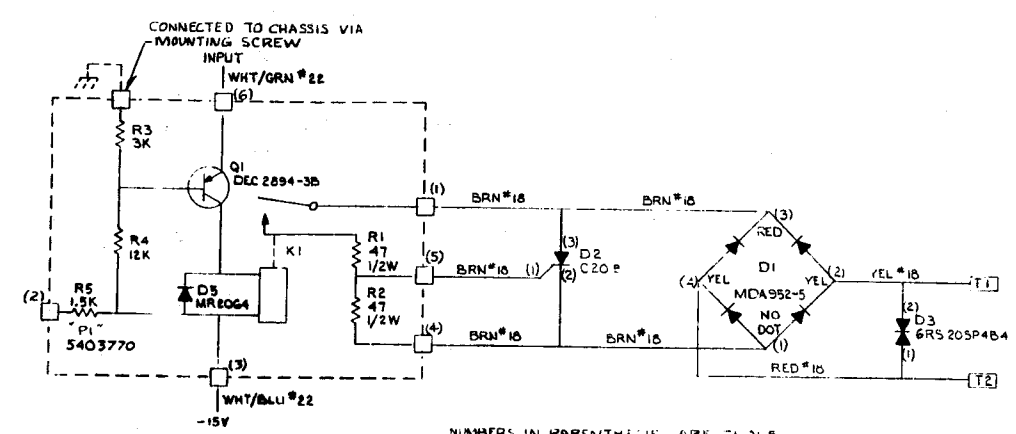
REV C NUMBER 5408308-0-1 CS B SIZE 3Z18

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

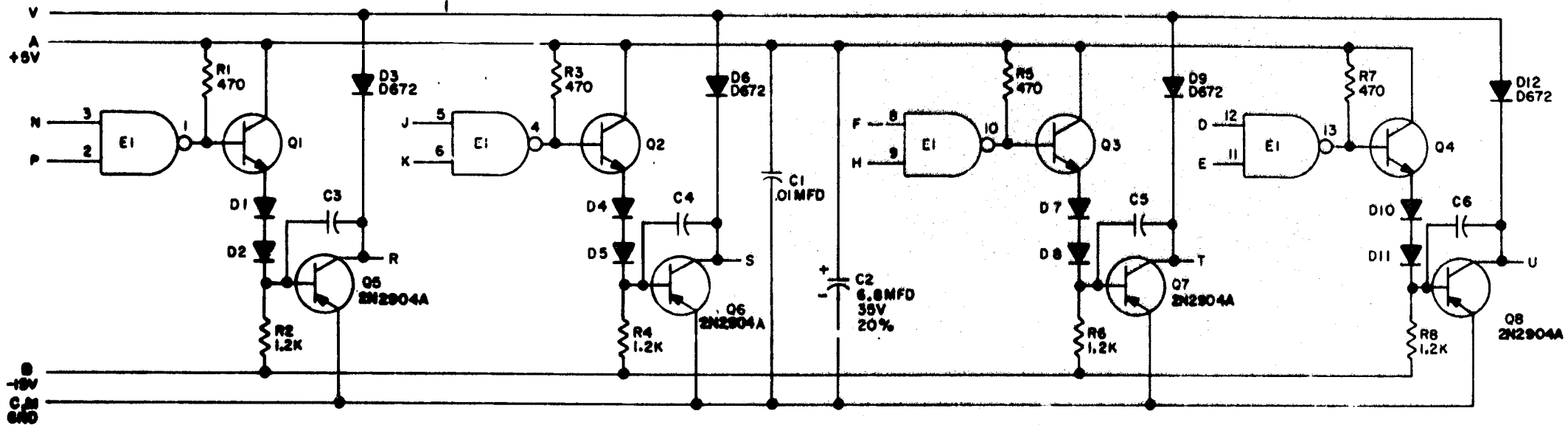


NUMBERS IN PARENTHESES ARE THOSE INDICATED IN CAD 5408385-0-1 AND NOT MARKED ON COMPONENT

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		
ENGR	DATE			
PROJ. ENGR	DATE			
PROD.	DATE			
NEXT HIGHER ASSY		SIZE CODE NUMBER REV. DCS 5408385-0-1 A		
SEMICONDUCTOR CONVERSION CHART		SCALE DIST.		

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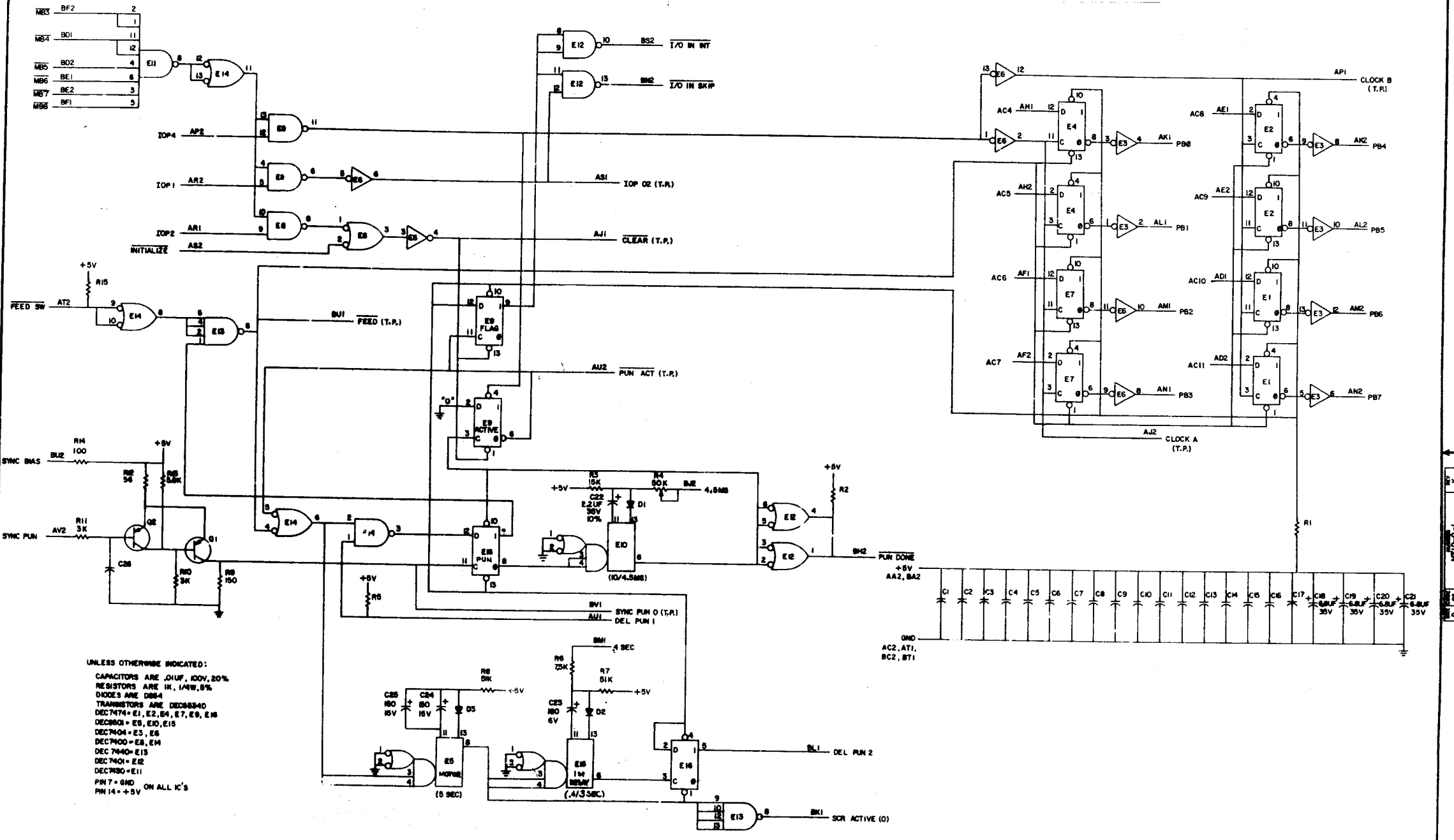


UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 5%
 DIODES ARE 9004
 E1 IS DEC7401N
 TRANSISTORS ARE DEC3009B
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 CAPACITORS ARE 100pF, 100V, 5%

REV C	DATE 4/23/69	TRANSISTOR & DIODE CONVERSION CHART		EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE 4-100MA SOLENOID DRIVER MO44		
DRN. BUTLER	DATE 4/23/69	DEC	EIA		SIZE B	CODE CS	NUMBER MO44-0-1	REV C
CHG. P. J. ...	DATE 4/23/69	D672	1N2906	PRINTED CIRCUIT REV 8			
ING. ...	DATE 4/23/69	2N2904A	2N2904				
PROD. ...	DATE 4/23/69	DEC3009B	2N3009				

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1-0-Q/JW
S3 0
3003 Jns

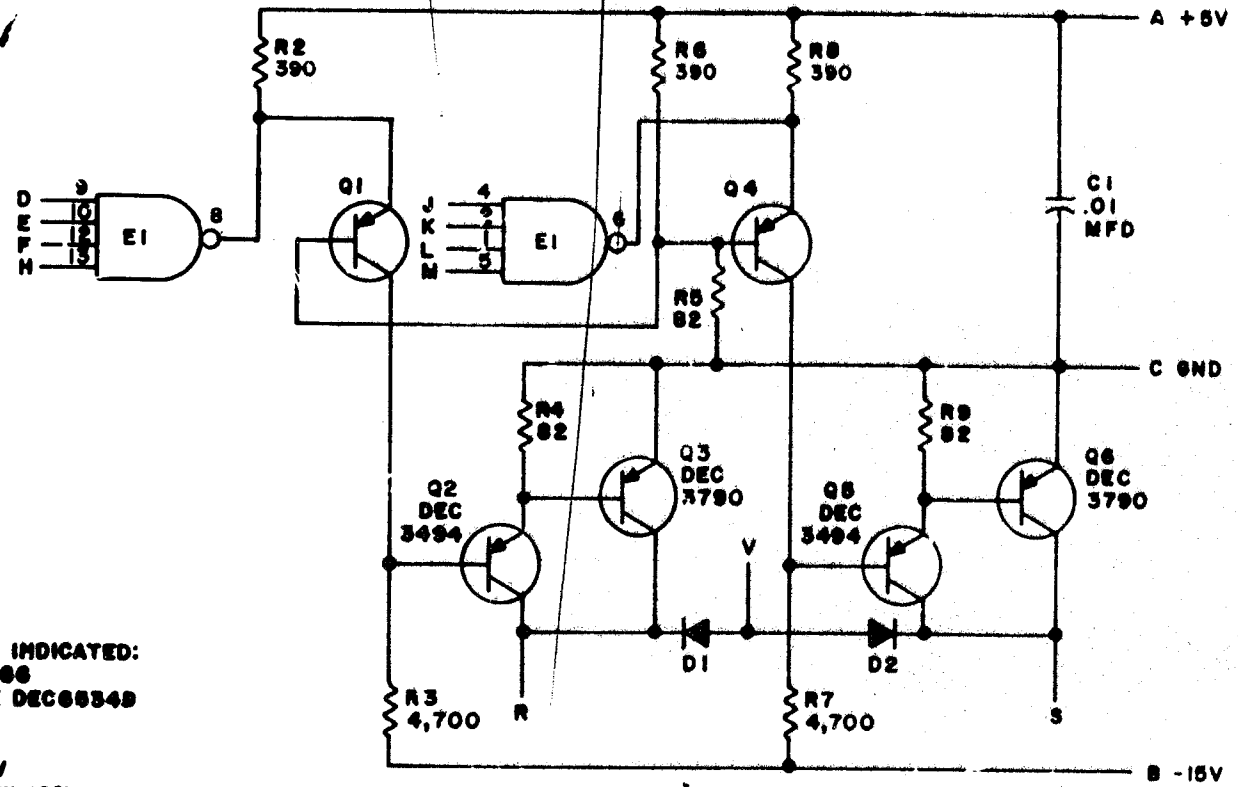


UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01UF, 100V, 20%
 RESISTORS ARE 1K, 1/4W, 5%
 DIODES ARE 1N4148
 TRANSISTORS ARE 2N2222
 DEC7474 = E1, E2, E4, E7, E8, E16
 DEC7401 = E3, E6
 DEC7404 = E5, E15
 DEC7400 = E8, E14
 DEC7440 = E13
 DEC7401 = E12
 DEC7430 = E11
 PIN 7 = GND ON ALL IC'S
 PIN 14 = +5V

TRANSISTOR & DIODE CONVERSION CHART				TITLE	
SYM	MANUFACTURER	TYPE	DESCRIPTION	REV	DATE
7400	TI	7400	NAND	1	10/70
7401	TI	7401	NAND	1	10/70
7404	TI	7404	INVERTER	1	10/70
7410	TI	7410	NAND	1	10/70
7412	TI	7412	NAND	1	10/70
7413	TI	7413	NAND	1	10/70
7414	TI	7414	MONOSTABLE	1	10/70
7420	TI	7420	NAND	1	10/70
7421	TI	7421	NAND	1	10/70
7423	TI	7423	NAND	1	10/70
7424	TI	7424	NAND	1	10/70
7425	TI	7425	NAND	1	10/70
7426	TI	7426	NAND	1	10/70
7427	TI	7427	NAND	1	10/70
7428	TI	7428	NAND	1	10/70
7429	TI	7429	NAND	1	10/70
7430	TI	7430	NAND	1	10/70
7431	TI	7431	NAND	1	10/70
7432	TI	7432	NAND	1	10/70
7433	TI	7433	NAND	1	10/70
7434	TI	7434	NAND	1	10/70
7435	TI	7435	NAND	1	10/70
7436	TI	7436	NAND	1	10/70
7437	TI	7437	NAND	1	10/70
7438	TI	7438	NAND	1	10/70
7439	TI	7439	NAND	1	10/70
7440	TI	7440	NAND	1	10/70
7441	TI	7441	NAND	1	10/70
7442	TI	7442	NAND	1	10/70
7443	TI	7443	NAND	1	10/70
7444	TI	7444	NAND	1	10/70
7445	TI	7445	NAND	1	10/70
7446	TI	7446	NAND	1	10/70
7447	TI	7447	NAND	1	10/70
7448	TI	7448	NAND	1	10/70
7449	TI	7449	NAND	1	10/70
7450	TI	7450	NAND	1	10/70
7451	TI	7451	NAND	1	10/70
7452	TI	7452	NAND	1	10/70
7453	TI	7453	NAND	1	10/70
7454	TI	7454	NAND	1	10/70
7455	TI	7455	NAND	1	10/70
7456	TI	7456	NAND	1	10/70
7457	TI	7457	NAND	1	10/70
7458	TI	7458	NAND	1	10/70
7459	TI	7459	NAND	1	10/70
7460	TI	7460	NAND	1	10/70
7461	TI	7461	NAND	1	10/70
7462	TI	7462	NAND	1	10/70
7463	TI	7463	NAND	1	10/70
7464	TI	7464	NAND	1	10/70
7465	TI	7465	NAND	1	10/70
7466	TI	7466	NAND	1	10/70
7467	TI	7467	NAND	1	10/70
7468	TI	7468	NAND	1	10/70
7469	TI	7469	NAND	1	10/70
7470	TI	7470	NAND	1	10/70
7471	TI	7471	NAND	1	10/70
7472	TI	7472	NAND	1	10/70
7473	TI	7473	NAND	1	10/70
7474	TI	7474	NAND	1	10/70
7475	TI	7475	NAND	1	10/70
7476	TI	7476	NAND	1	10/70
7477	TI	7477	NAND	1	10/70
7478	TI	7478	NAND	1	10/70
7479	TI	7479	NAND	1	10/70
7480	TI	7480	NAND	1	10/70
7481	TI	7481	NAND	1	10/70
7482	TI	7482	NAND	1	10/70
7483	TI	7483	NAND	1	10/70
7484	TI	7484	NAND	1	10/70
7485	TI	7485	NAND	1	10/70
7486	TI	7486	NAND	1	10/70
7487	TI	7487	NAND	1	10/70
7488	TI	7488	NAND	1	10/70
7489	TI	7489	NAND	1	10/70
7490	TI	7490	NAND	1	10/70
7491	TI	7491	NAND	1	10/70
7492	TI	7492	NAND	1	10/70
7493	TI	7493	NAND	1	10/70
7494	TI	7494	NAND	1	10/70
7495	TI	7495	NAND	1	10/70
7496	TI	7496	NAND	1	10/70
7497	TI	7497	NAND	1	10/70
7498	TI	7498	NAND	1	10/70
7499	TI	7499	NAND	1	10/70
7500	TI	7500	NAND	1	10/70

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REV E
 NUMBER M040-0-1
 CS B
 CODE 3003
 SIZE 3218



UNLESS OTHERWISE INDICATED:
 DIODES ARE MR2066
 TRANSISTORS ARE DEC3494
 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



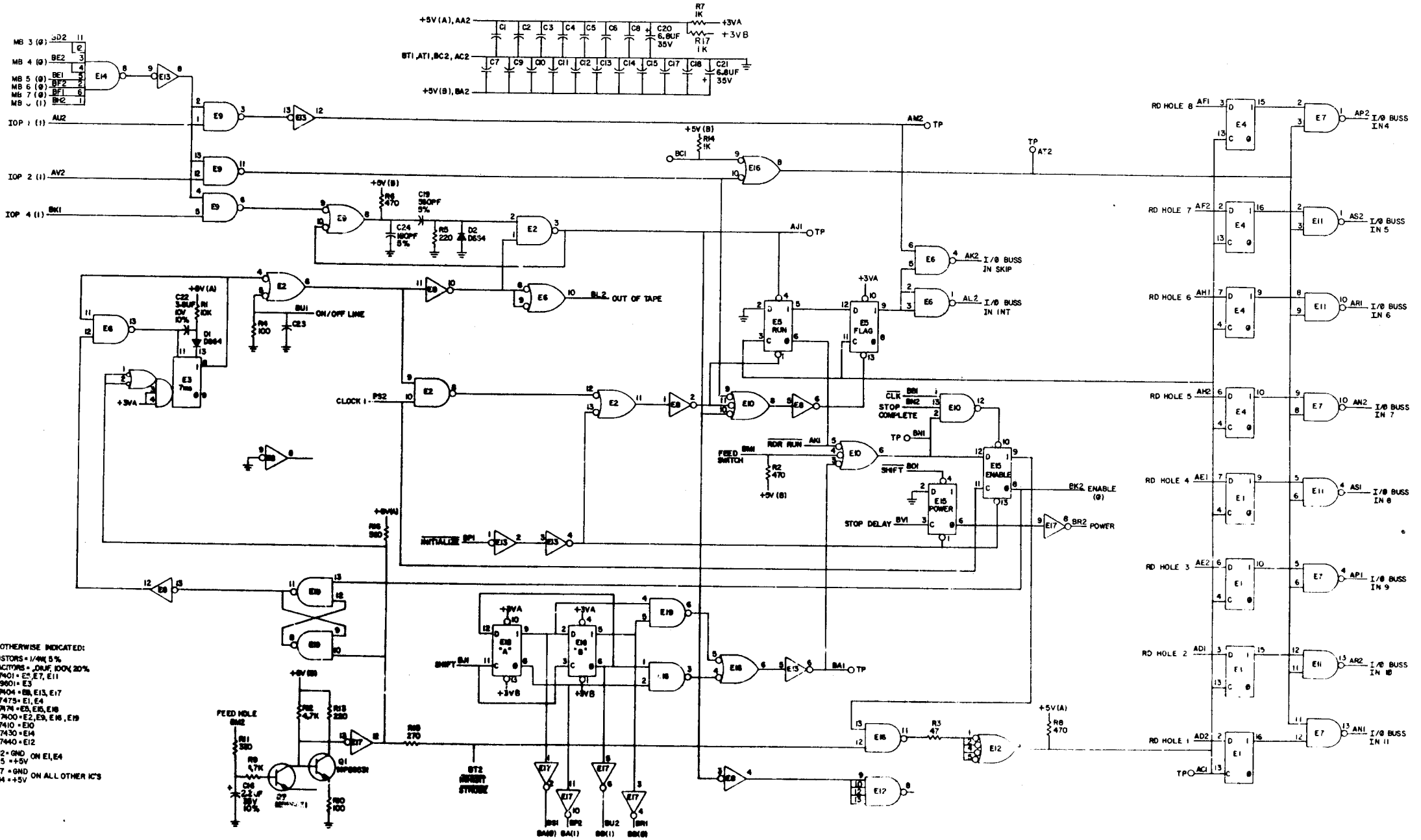
REV	NO	CHG
E	00001	
	00002	

DRN	DATE
RD. Miller	2-11-67
CHK'D	DATE
	9/22/67
DATE	DATE
7/19/67	
PROD	DATE
4/0	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3494	SAME		
DEC3790	2N3790		
DEC3940	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



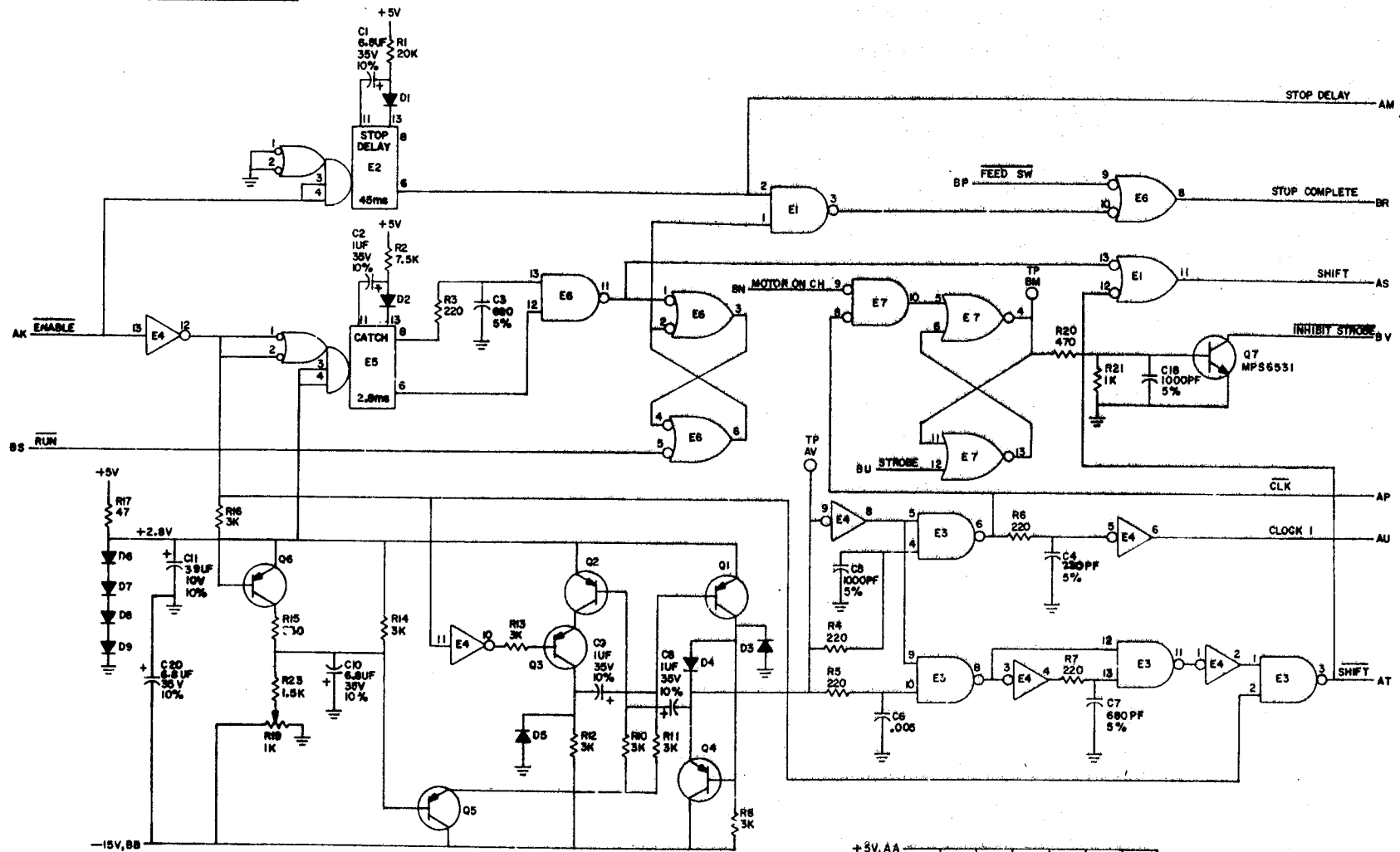
- UNLESS OTHERWISE INDICATED:
 RESISTORS = 1/4W 5%
 CAPACITORS = .01UF, 100K 20%
 DEC7401 = E2, E7, E11
 DEC9801 = E3
 DEC7404 = B1, E13, E17
 DEC7475 = E1, E4
 DEC7476 = E3, E5, E8
 DEC7400 = E2, E5, E8, E9
 DEC7410 = E10
 DEC7430 = E14
 DEC7440 = E12
 PIN 12 = GND, ON E1, E4
 PIN 5 = +5V
 PIN 7 = GND, ON ALL OTHER IC'S
 PIN 14 = +5V



TRANSISTOR & DIODE CONVERSION CHART			
DEC	EMA	DEC	EIA
MP2553	MP2553	2N2904	1N914

READER CONTROL			
DATE	BY	NO.	REV.
1/71	CS	M7050-0-1	E

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UNLESS OTHERWISE INDICATED:
 TRANSISTORS = DEC6534D
 DIODES = D644
 RESISTORS = 1/4W, 5%
 CAPACITORS = .01UF, 100V, 20%
 E1, E3, E5 = DEC7400
 E4 = DEC7404
 E2, E5 = DEC9801
 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

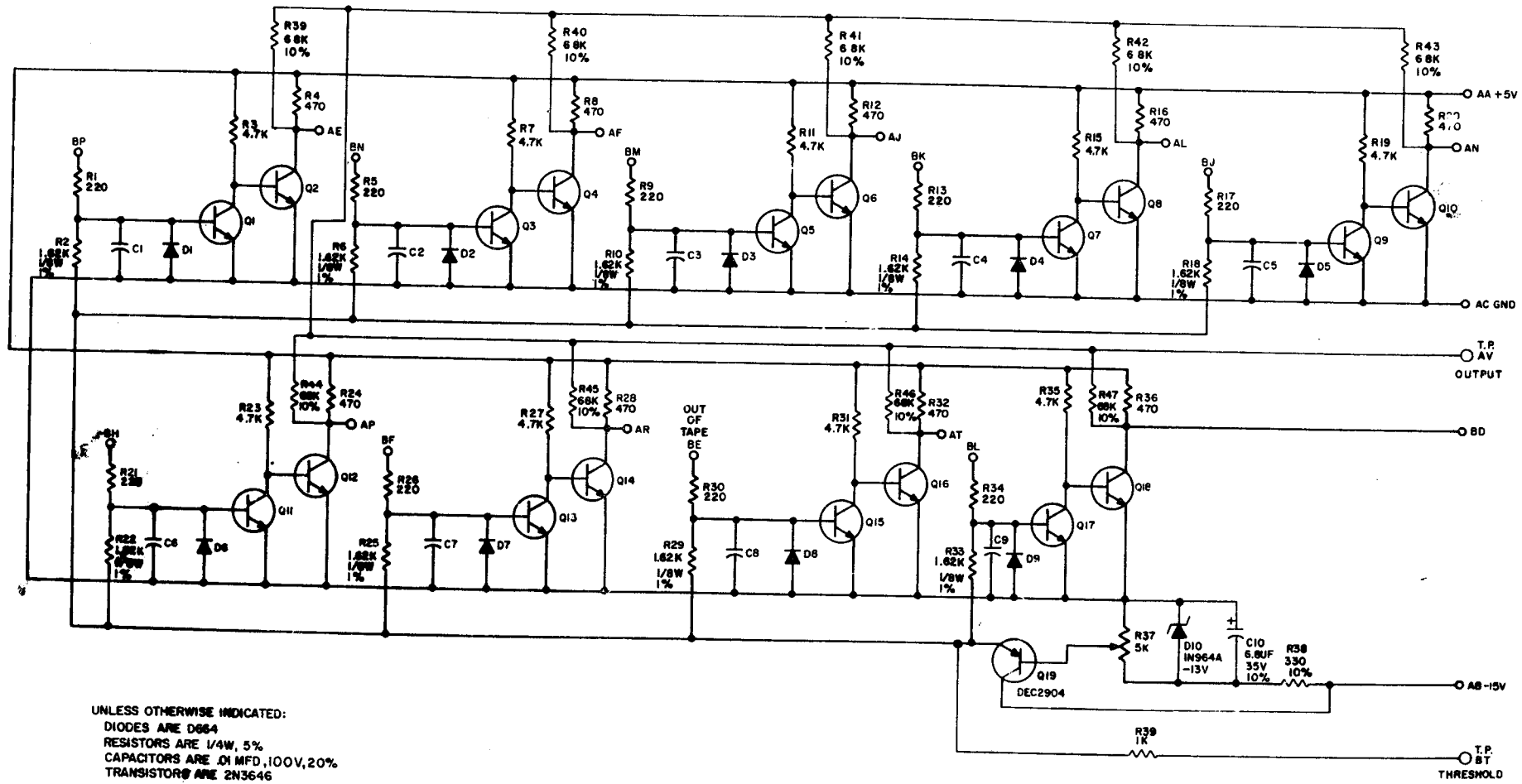
REV.	DATE	BY	CHKD.	REV.
1	11/2/67	R. SILVERMAN		
2	11/2/67	R. SILVERMAN		

DATE	BY	CHKD.	REV.
DEC 1967			

TRANSISTOR & DIODE CONVERSION CHART			
DATE	BY	CHKD.	REV.
DEC 1967			

TITLE			
READER CLOCK M715			
SIZE	CODE	NUMBER	REV.
C	CS	M715-0-1	L
PRINTED CIRCUIT REV.			F

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UNLESS OTHERWISE INDICATED:
 DIODES ARE D064
 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

REVISIONS	CHK	CHG	NO.	REV.
			00001	A
			00002	B
			00003	B

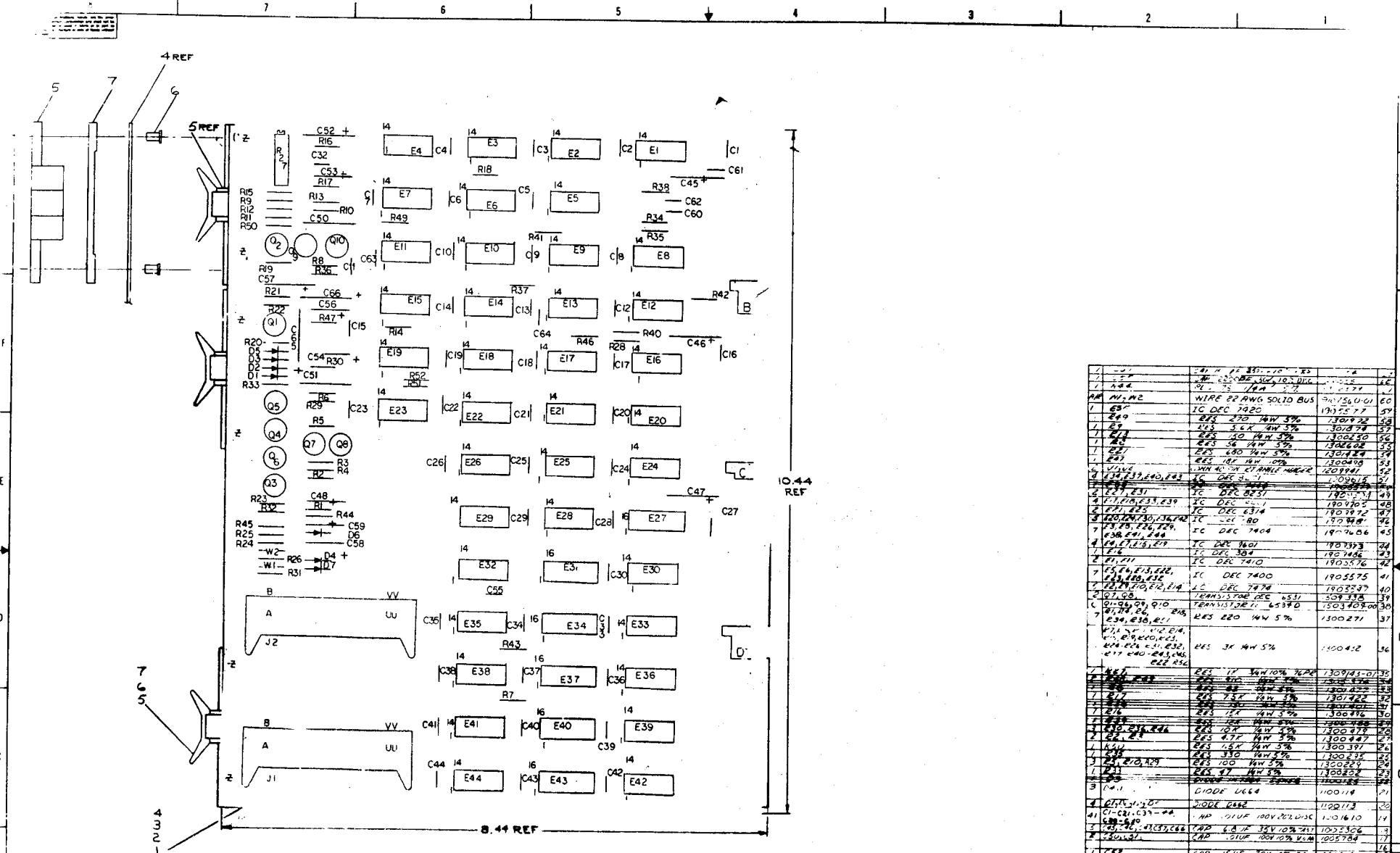
DEC FORM NO. 102

DRN	DATE
REVISED	4/1/69
CHK'D	DATE
G. Janga	4/1/69
ENG	DATE
R. Abel	6/1/69
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
2N3646	2N3009	1N964A -13V	SAME
0664	1N3806	DEC2904	2N1132

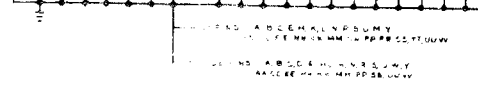


TITLE PHOTO TRANSISTOR AMPLIFIER G918
 EQUIPMENT CORPORATION
 MATHARD, MASSACHUSETTS
 SIZE CODE NUMBER REV
 C CS G918-0-1 B
 PRINTED CIRCUIT REV. D



REF	REF DESIGNATION	DESCRIPTION	PART NO.
1	RES 270	RES 270 OHM 5%	130922
2	RES 5.1K	RES 5.1K OHM 5%	130128
3	RES 100	RES 100 OHM 5%	130088
4	RES 100	RES 100 OHM 5%	130088
5	RES 100	RES 100 OHM 5%	130088
6	RES 100	RES 100 OHM 5%	130088
7	RES 100	RES 100 OHM 5%	130088
8	RES 100	RES 100 OHM 5%	130088
9	RES 100	RES 100 OHM 5%	130088
10	RES 100	RES 100 OHM 5%	130088
11	RES 100	RES 100 OHM 5%	130088
12	RES 100	RES 100 OHM 5%	130088
13	RES 100	RES 100 OHM 5%	130088
14	RES 100	RES 100 OHM 5%	130088
15	RES 100	RES 100 OHM 5%	130088
16	RES 100	RES 100 OHM 5%	130088
17	RES 100	RES 100 OHM 5%	130088
18	RES 100	RES 100 OHM 5%	130088
19	RES 100	RES 100 OHM 5%	130088
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22	RES 100	RES 100 OHM 5%	130088
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25	RES 100	RES 100 OHM 5%	130088
26	RES 100	RES 100 OHM 5%	130088
27	RES 100	RES 100 OHM 5%	130088
28	RES 100	RES 100 OHM 5%	130088
29	RES 100	RES 100 OHM 5%	130088
30	RES 100	RES 100 OHM 5%	130088
31	RES 100	RES 100 OHM 5%	130088
32	RES 100	RES 100 OHM 5%	130088
33	RES 100	RES 100 OHM 5%	130088
34	RES 100	RES 100 OHM 5%	130088
35	RES 100	RES 100 OHM 5%	130088
36	RES 100	RES 100 OHM 5%	130088
37	RES 100	RES 100 OHM 5%	130088
38	RES 100	RES 100 OHM 5%	130088
39	RES 100	RES 100 OHM 5%	130088
40	RES 100	RES 100 OHM 5%	130088
41	RES 100	RES 100 OHM 5%	130088
42	RES 100	RES 100 OHM 5%	130088
43	RES 100	RES 100 OHM 5%	130088
44	RES 100	RES 100 OHM 5%	130088
45	RES 100	RES 100 OHM 5%	130088
46	RES 100	RES 100 OHM 5%	130088
47	RES 100	RES 100 OHM 5%	130088
48	RES 100	RES 100 OHM 5%	130088
49	RES 100	RES 100 OHM 5%	130088
50	RES 100	RES 100 OHM 5%	130088
51	RES 100	RES 100 OHM 5%	130088
52	RES 100	RES 100 OHM 5%	130088
53	RES 100	RES 100 OHM 5%	130088
54	RES 100	RES 100 OHM 5%	130088
55	RES 100	RES 100 OHM 5%	130088
56	RES 100	RES 100 OHM 5%	130088
57	RES 100	RES 100 OHM 5%	130088
58	RES 100	RES 100 OHM 5%	130088
59	RES 100	RES 100 OHM 5%	130088
60	RES 100	RES 100 OHM 5%	130088
61	RES 100	RES 100 OHM 5%	130088
62	RES 100	RES 100 OHM 5%	130088
63	RES 100	RES 100 OHM 5%	130088
64	RES 100	RES 100 OHM 5%	130088
65	RES 100	RES 100 OHM 5%	130088
66	RES 100	RES 100 OHM 5%	130088
67	RES 100	RES 100 OHM 5%	130088
68	RES 100	RES 100 OHM 5%	130088
69	RES 100	RES 100 OHM 5%	130088
70	RES 100	RES 100 OHM 5%	130088
71	RES 100	RES 100 OHM 5%	130088
72	RES 100	RES 100 OHM 5%	130088
73	RES 100	RES 100 OHM 5%	130088
74	RES 100	RES 100 OHM 5%	130088
75	RES 100	RES 100 OHM 5%	130088
76	RES 100	RES 100 OHM 5%	130088
77	RES 100	RES 100 OHM 5%	130088
78	RES 100	RES 100 OHM 5%	130088
79	RES 100	RES 100 OHM 5%	130088
80	RES 100	RES 100 OHM 5%	130088
81	RES 100	RES 100 OHM 5%	130088
82	RES 100	RES 100 OHM 5%	130088
83	RES 100	RES 100 OHM 5%	130088
84	RES 100	RES 100 OHM 5%	130088
85	RES 100	RES 100 OHM 5%	130088
86	RES 100	RES 100 OHM 5%	130088
87	RES 100	RES 100 OHM 5%	130088
88	RES 100	RES 100 OHM 5%	130088
89	RES 100	RES 100 OHM 5%	130088
90	RES 100	RES 100 OHM 5%	130088
91	RES 100	RES 100 OHM 5%	130088
92	RES 100	RES 100 OHM 5%	130088
93	RES 100	RES 100 OHM 5%	130088
94	RES 100	RES 100 OHM 5%	130088
95	RES 100	RES 100 OHM 5%	130088
96	RES 100	RES 100 OHM 5%	130088
97	RES 100	RES 100 OHM 5%	130088
98	RES 100	RES 100 OHM 5%	130088
99	RES 100	RES 100 OHM 5%	130088
100	RES 100	RES 100 OHM 5%	130088

ITEM NO	QTY	DESCRIPTION	UNIT	TO PT
128	1			
129	1			
130	1			
380	59			
381	22			
382	22			

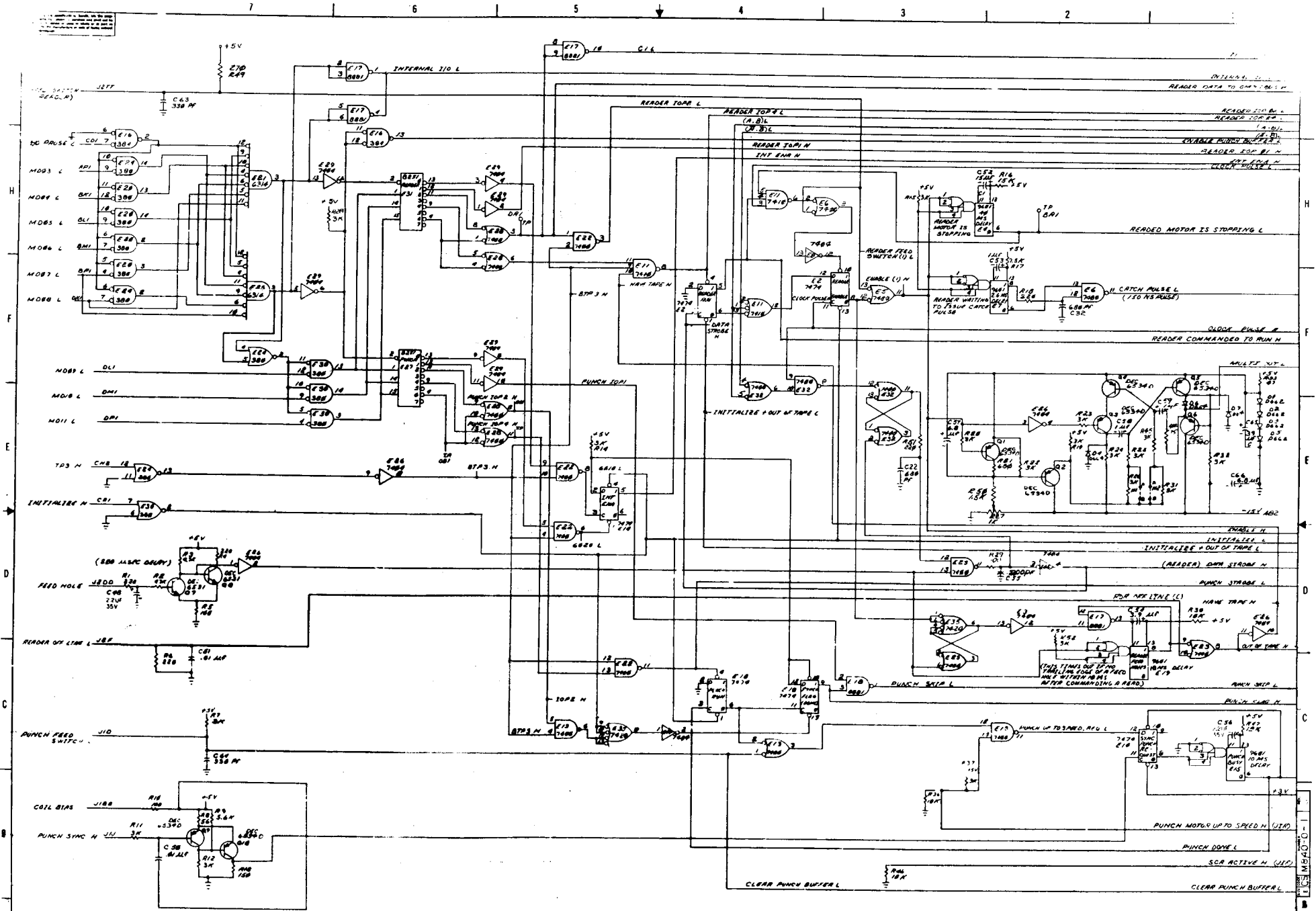


ITEM NO	QTY	DESCRIPTION	UNIT	TO PT
128	1			
129	1			
130	1			
380	59			
381	22			
382	22			

TITLE: **READER/PUNCH CONTROL**
 REF NO: 371
 SHEET 1 OF 3

EQUIPMENT CORPORATION
 WILMINGTON, DELAWARE

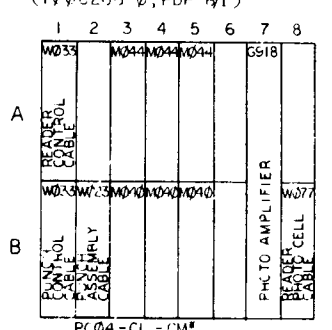
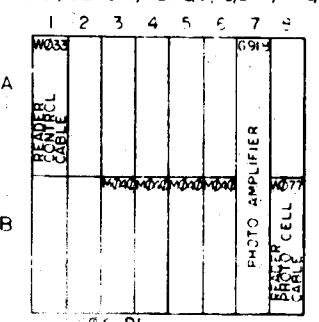
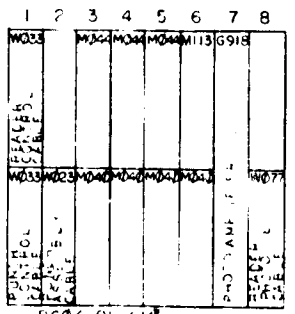
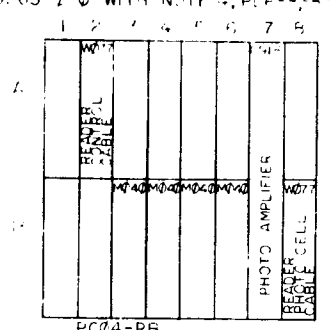
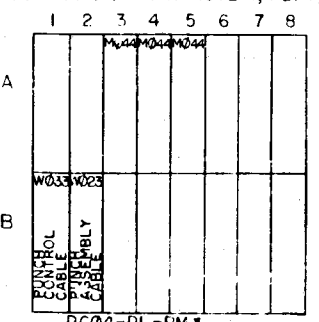
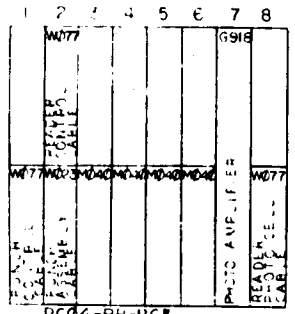
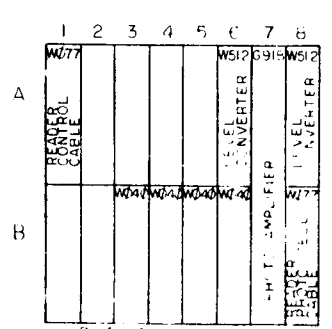
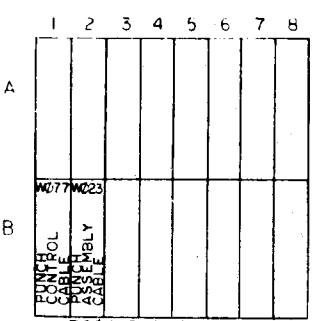
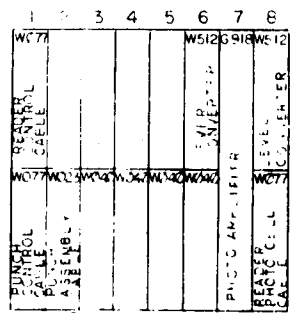
CSM840-0-1



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1	1	7496	7496	
1	1	7497	7497	
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1	1	7499	7499	
1	1	7500	7500	

TITLE: READER/PUNCH CONTROL
 PROJECT: EKS1 M840-D-1
 SHEET: 2 OF 3

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



REV	DATE	BY	CHKD
1	4-17-72	C. YOUSE	
2	4-19-72	C. YOUSE	

FIRST USED ON OPTION/MODL PC04-A	QTY	DESCRIPTION	PART NO	ITEM NO
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES	DRN DATE	DATE	digital EQUIPMENT CORPORATION	
IF DIMALS ANGLES	CHK'D DATE	DATE	TITLE	
1/4 00 10 10	ENG DATE	DATE	MODULE IDENTIFICATION LIST PC04	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ ENG DATE	DATE	MATERIAL	
	PROD DATE	DATE	NEXT HIGHER ASSY	
FINISH	SCALE	SHEET 1 OF 1	SIZE CODE DMU-PC04-2-3	NUMBER REV D

PC04-0-3

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY: MARCOTTE
DATE: 6/5/69
ENG: [blank]
DATE: 6/10/69

CHECKED: R. CARVELL
DATE: 6/5/69
PROD: ANTONNIGIO
DATE: 6/6/69

SECTION: 1
ISSUED SECT.: 1

QUANTITY / VARIATION

ITEM NO.	DWG NO.	PART NO.	DESCRIPTION	PC04-B-0	PC04-BA-0	PC04-C-0	PC04-CA-0	PC04-P-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	1
2	W512		NEGATIVE INPUT CONVERTER	1	1	1	1	-	-	1			
3	W040		SOLENOID DRIVER	4	4	4	4	-	-	4	-	-	-
4	W512		POSITIVE LEVEL CONVERTER	2	2	2	2	-	-	2	-	-	-
5	M040		SOLENOID DRIVER (+ 8I)	-	-	-	-	-	-	-	4	4	4
6	M044		SOLENOID DRIVER (+8L)	-	-	-	-	-	-	-	-	-	-
7	M113		10-2 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
NUMBER: PC04-0-3
REV: D
ECO NO.: PC04-00055

SHEET 1 OF 2
DIST: [blank]

DEC FORM NO
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY: MARCOTTE
DATE: 6/5/69
ENG: [blank]
DATE: 6/9/69

CHECKED: R. CARVELL
DATE: 6/5/69
PROD: ANTONNIGIO
DATE: 6/6/69

SECTION: 1
ISSUED SECT.: 1

QUANTITY / VARIATION

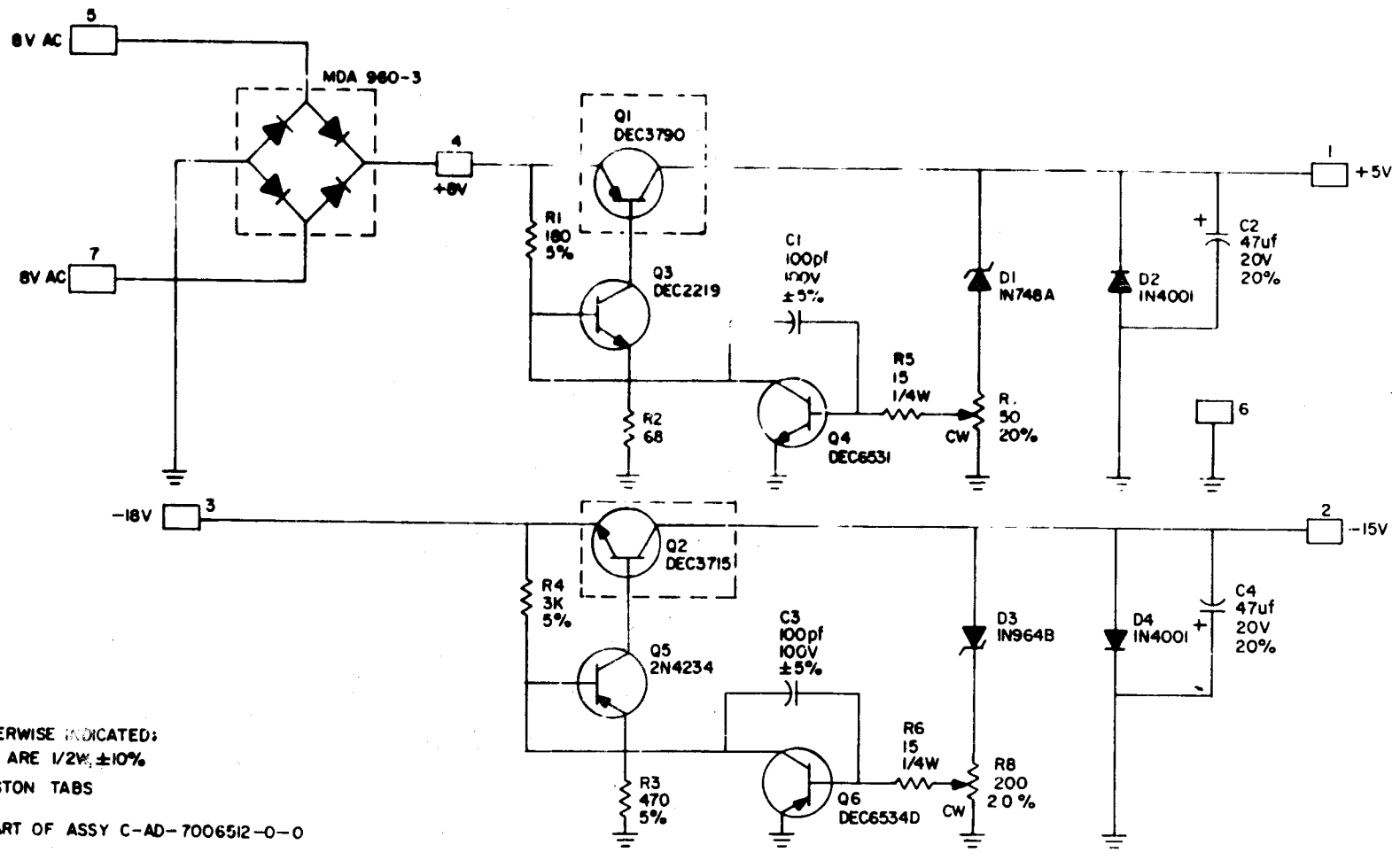
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1	G918	*	PHOTO AMPLIFIER	1	-	-	-	1	1
2									
3	W040		SOLENOID DRIVER (-)	-	-	-	-	-	-
4	W512		POSITIVE LEVEL CONVERTER	-	-	-	-	-	-
5	M040		SOLENOID DRIVER (+)	4	4	-	-	4	4
6	M044		SOLENOID DRIVER (+ 8L)	3	3	3	3	3	-
7	M113		10-2 INPUT NAND GATE	1	1	1	1	-	-
* NOTE: G918 MUST BE D REV BOARD OR HIGHER									

TITLE: [blank]
ASSY NO.: D-MU-PC04-0-3
SIZE CODE: A PL
NUMBER: 04-0-3
REV: D
ECO NO: [blank]

SHEET 2 OF 2
DIST: [blank]

DEC FORM NO
DRA 110

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

REVISIONS CHK'D ENG PROD	DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART				EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE		B CS B	NUMBER 5408918-0-1	REV A
	W/AMLY MOORE	7/8/70	DEC	EIA	DEC	EIA		PCO REGULATOR				
	CHK'D	DATE	DEC3790-2	2N3790	DEC3715	MP6631		5408918				
	ENG	DATE	DEC2219	2N2219	IN748A	SAME						
PROD	DATE	DEC3715	2N3715	IN964B	SAME							
			2N4234	2N4234	IN4001	SAME						
			DEC6534D	MP6634D	IN4001	SAME						

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS															
ENGINEERING SPECIFICATION						DATE 11/11/69									
TITLE PC#4 Engineering Specification															
REVISIONS															
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE									
A		PCO4-00046	M. LEIS		M	3-7-70									
<p>General Information:</p> <p>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, PB; PC#4BA, BC, and PC#4CA with no variation in PC#4R and RB. Table 1-1 gives the block schematic references, UMI, interface cables, and the applicable computers.</p> <p>Logic Levels: Negative Logic Systems Logic 1 is -3.2v to -3.9 volts Logic 0 is 0v to -0.3 volts</p> <p>Logic Levels: Positive Logic Systems</p> <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;"><u>Outputs</u></td> <td style="text-align: center;"><u>Inputs</u></td> </tr> <tr> <td>Logic 1 is</td> <td style="text-align: center;">>+2.4v</td> <td style="text-align: center;">>+2.0v</td> </tr> <tr> <td>Logic 0</td> <td style="text-align: center;"><+0.4v</td> <td style="text-align: center;"><+0.8v</td> </tr> </table> <p>Reader Signals:</p> <p>Reference drawing BS-D-PC#4-0-2</p> <p>(1) A(0), A(1), B(0), and B(1) are the signals used to drive the stepping motors via the four solenoid drivers.</p> <p>The timing chart and graph for these signals would be:</p> <div style="text-align: center;"> </div>								<u>Outputs</u>	<u>Inputs</u>	Logic 1 is	>+2.4v	>+2.0v	Logic 0	<+0.4v	<+0.8v
	<u>Outputs</u>	<u>Inputs</u>													
Logic 1 is	>+2.4v	>+2.0v													
Logic 0	<+0.4v	<+0.8v													
ENG <i>Charles A. Jones</i>	APPD <i>Jim Beckner</i>	SIZE A	CODE SP	NUMBER PC#4-0-4	REV A										
DEC FORM NO. DRA 107						SHEET 1 OF 7									

CONTINUATION SHEET			
TITLE PCO4 Engineering Specification			
<p>(5) The eight data holes also require a 10 msec. level to activate the punches.</p> <p>(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.</p> <p>(7) Punch feed switch is used to manually feed tape through the punch.</p> <p>(8) The -3 volt or +5v supply is a bias on the punch sync coil.</p> <p>(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.</p> <p>Power Supply</p> <p>(1) Regulated +5 volts \pm.25 volts (2) Regulated -15 volts \pm1.0 volt (3) -36 volts \pm4 volts</p> <p>Power Requirements</p> <p>Unit will run at 50 or 60 cycles, 115 volts \pm10%. 2.5 AMPS run 4 AMPS surge</p> <p>Reader</p> <p>(a) Temperature (1) 55° - 110°F operating, 10° - 150°F non-operating</p> <p>(b) Humidity (1) 20% - 95% w/o condensation operating; 5% - 95% w/o condensation non-operating.</p> <p>(c) Speed (1) 300 - 310 characters/second full speed. (2) 20 - 26 character/second single character rate.</p> <p>(d) Type of tape (1) non-oil (less than 12% transmissivity)</p> <p>(e) Tape Life: Acceleration de-accelerate type operation = 30,000 cycles.</p>			
SIZE A	CODE SP	NUMBER PCO4-0-4	REV A
DEC FORM NO. DRA 108A			SHEET 3 OF 7

CONTINUATION SHEET												
TITLE PC#4 Engineering Specification												
<p>(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.</p> <p>(3) The reader feed switch is simply an off line means of moving tape through the reader. A ground level performs this function.</p> <p>(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.</p> <p>(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.</p> <p>(6) Data Output Lines:</p> <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;"><u>Hole</u></td> <td style="text-align: center;"><u>No Hole</u></td> </tr> <tr> <td>Negative Systems</td> <td style="text-align: center;">-3 volts</td> <td style="text-align: center;">0 volts</td> </tr> <tr> <td>Positive Systems</td> <td style="text-align: center;">+2.4 volts</td> <td style="text-align: center;">0 volts</td> </tr> </table> <p>Punch Signals:</p> <p>Refer to drawing BS-D-PC#4-0-2</p> <p>(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.</p> <p>(2) The -36 volt is supplied to the solenoid coils on the punch motor and also to the solenoid drivers at the external control.</p> <p>(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.</p> <p>(4) Forward tape and punch feed hole: A ground level for 10 msec. \pm10% 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.</p>					<u>Hole</u>	<u>No Hole</u>	Negative Systems	-3 volts	0 volts	Positive Systems	+2.4 volts	0 volts
	<u>Hole</u>	<u>No Hole</u>										
Negative Systems	-3 volts	0 volts										
Positive Systems	+2.4 volts	0 volts										
SIZE A	CODE SP	NUMBER PCO4-0-4	REV A									
DEC FORM NO. DRA 108A			SHEET 2 OF 7									

CONTINUATION SHEET			
TITLE PC#4 Engineering Specification			
<p>Punch</p> <p>(a) Temperature (1) 55° - 110°F operating; 10° - 150°F non-operating</p> <p>(b) Humidity (1) 20% - 95% w/o condensation - operating (2) 5% - 95% w/o condensation - non-operating</p> <p>(c) Tension of tape supply (1) Not to exceed 6 ounces</p> <p>(d) Speed (1) 50 characters/second \pm5%</p> <p>Margins</p> <p>+5v is +5v \pm.5v -15v is -15v \pm20% -30v is -36v \pm6%</p>			
SIZE A	CODE SP	NUMBER PCO4-0-4	REV A
DEC FORM NO. DRA 108A			SHEET 4 OF 7

ENGINEERING SPECIFICATION				CONTINUATION SHEET			
TITLE 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>							
SIZE	CODE	NUMBER	REV	SIZE	CODE	NUMBER	REV
A		PC04-0-4	A	A		PC04-0-4	A
SHEET 7 OF 7				SHEET 7 OF 7			

DEC FORM NO 16-1022
DRA 108

CONTINUATION SHEET							
TITLE PC#4 Engineering Specification							
TABLE 1-1 PC#4 Configuration							
CONFIGURATION	REFERENCE BLOCK SCHEMATICS	PUNCH MODULES	INTERFACE CABLES	READER MODULES	APPLICABLE COMPONENTS		
PC#4P	D/38/7/CG4-0-2 Page 1 of 3	None	1-M077A	N/A	PDP8; PDP8/S; PDP8/L		
PC#4PL	D/38/7/CG4-0-2 Page 3 of 3	3-M044	1-M033A	N/A	PDP8/L; PDP8/E		
PC#4R	D/38/7/CG4-0-2 Page 1 of 3	N/A	1-M077A	1-G918 4-M040 2-M512	PDP8; PDP8/S		
PC#4RB	D/38/7/CG4-0-2 Pages 2 and 3 of 3	N/A	1-M077A	1-G918 1-M040 4-M040	PDP8/L; PDP8/E		
PC#4B	D/38/7/CG4-0-2 Page 1 of 3	None	2-M077A	1-G918 4-M040 2-M512	PDP8; PDP8/S		
PC#4BB	D/38/7/CG4-0-2 Page 2 of 3	None	2-M077A	1-G918 4-M040	PDP8/L		
PC#4BL	D/38/7/CG4-0-2 Page 3 of 3	3-M044	2-M033C	1-G918 4-M040	PDP8/L; PDP8/E		
PC#4C	D/38/7/CG4-0-2 Page 1 of 3	None	2-M077A	1-G918 4-M040 2-M512	PDP8; PDP8/L		
SIZE	CODE	NUMBER	REV	SIZE	CODE	NUMBER	REV
A		PC04-0-4	A	A		PC04-0-4	A
SHEET 5 OF 7				SHEET 5 OF 7			

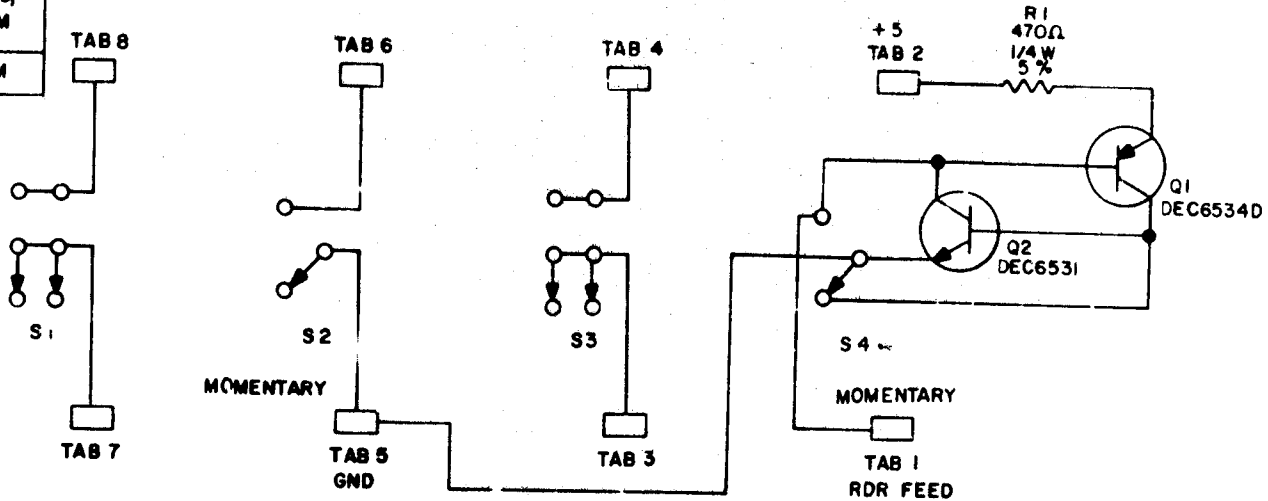
DEC FORM NO 16-1022
DRA 108

CONTINUATION SHEET																																											
TITLE PC#4 Engineering Specification - Test Procedure for reader																																											
<p>1. Do not apply power until the following checks are made.</p> <ol style="list-style-type: none"> Logic block empty. A#1A, A#2A, A#1B, A#2B, B#1A, and B#2A are bare (no wiring or bussing). 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. Remove reader lamp. Check caps for proper polarity in wiring. 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. Check fuses for proper rating. Also, should be slo/blo. Check for continuity between reader lamp ground slot and chassis ground. Check the following wires for proper connection. <table border="1"> <thead> <tr> <th>Color</th> <th>Location</th> <th>Color</th> <th>Location</th> </tr> </thead> <tbody> <tr> <td>+black (str)</td> <td>B#8C</td> <td>*wh/blue</td> <td>A#7B</td> </tr> <tr> <td>*wh/black (str)</td> <td>B#7C</td> <td>*wh/green</td> <td>B#1B</td> </tr> <tr> <td>#brown (str)</td> <td>A#2B A#1B</td> <td>#brown (solid)</td> <td>B#3R, S</td> </tr> <tr> <td>#yellow (str)</td> <td>A#1V</td> <td>#orange (solid)</td> <td>B#4R, S</td> </tr> <tr> <td>*wh/yellow (str)</td> <td>A#8F</td> <td>#yellow (solid)</td> <td>B#5R, S</td> </tr> <tr> <td>+white (str)</td> <td>B#1U</td> <td>#violet (solid)</td> <td>B#6R, S</td> </tr> <tr> <td>grey/red (str)</td> <td>A#8A</td> <td>+punch configurations</td> <td></td> </tr> <tr> <td>grey/yellow (str)</td> <td>A#6B</td> <td>*only on PC#4C configuration</td> <td></td> </tr> <tr> <td>blue (str)</td> <td>B#6V</td> <td>#reader configurations</td> <td></td> </tr> </tbody> </table> <ol style="list-style-type: none"> Put reader lamp back in position making sure that the tension on the lamp is sufficient for good contact. <p>2. Apply AC power to the unit and check.</p> <ol style="list-style-type: none"> +5 volts on A#8; and B#8A (+5 volts $\pm .25$ volts; at all times). 				Color	Location	Color	Location	+black (str)	B#8C	*wh/blue	A#7B	*wh/black (str)	B#7C	*wh/green	B#1B	#brown (str)	A#2B A#1B	#brown (solid)	B#3R, S	#yellow (str)	A#1V	#orange (solid)	B#4R, S	*wh/yellow (str)	A#8F	#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 configuration		blue (str)	B#6V	#reader configurations	
Color	Location	Color	Location																																								
+black (str)	B#8C	*wh/blue	A#7B																																								
*wh/black (str)	B#7C	*wh/green	B#1B																																								
#brown (str)	A#2B A#1B	#brown (solid)	B#3R, S																																								
#yellow (str)	A#1V	#orange (solid)	B#4R, S																																								
*wh/yellow (str)	A#8F	#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 configuration																																									
blue (str)	B#6V	#reader configurations																																									
SIZE	CODE	NUMBER	REV	SIZE	CODE	NUMBER	REV																																				
A		PC04-0-4	A	A		PC04-0-4	A																																				
SHEET 6 OF 7				SHEET 6 OF 7																																							

DEC FORM NO 16-1022
DRA 108

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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

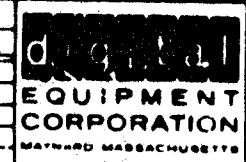


UNLESS OTHERWISE INDICATED:
 S1, S3 ARE ROCKER # 1208841
 S2, S4 ARE ROCKER # 1208375
 TABS ARE FASTON TAB 41290 AMP

REV	CHG	NO	REV
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1

DESIGNED BY	DATE
<i>M. M. ...</i>	4-1-68
CHECKED BY	DATE
<i>M. M. ...</i>	4-7-68
APPROVED BY	DATE
<i>J. C. ...</i>	5/12/68

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC653I	2N2934		
DEC6534D	2N2934		



TITLE PCC SWITCH BOARD
 5408310

SIZE CODE NUMBER
 B CS 5408310-0-1 F

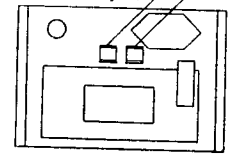
PRINTED CIRCUIT REV D

8
7
6
5
4
3
2
1

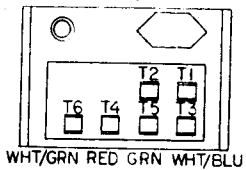
TS
(TOP VIEW)



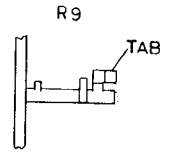
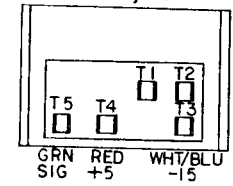
SCR DRIVER
5408385
(PC04-C,CA)



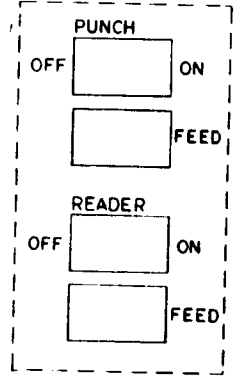
SCR DRIVER
7006720 (W/5408384 REV A)
(PC04-CL,CM)



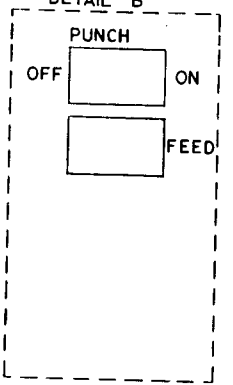
SCR DRIVER
7006720 (W/5408384 REV B)
(PC04-CL,CM)



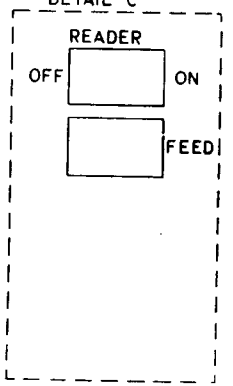
PC04-B,BA,BB,BC,BL,BM
5408310-4
DETAIL "A"



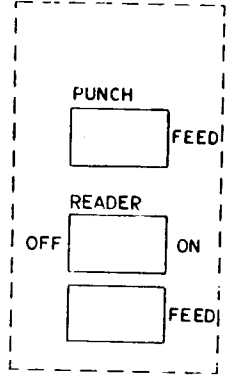
PC04-P,PA,PL,PM
5408935-0
DETAIL "B"



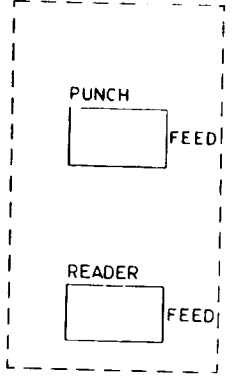
PC04-R,RB,RL
5408935-0
DETAIL "C"



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

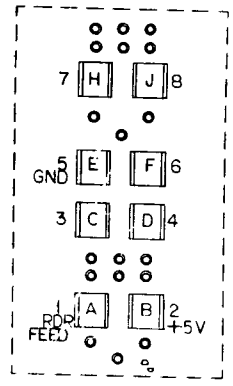
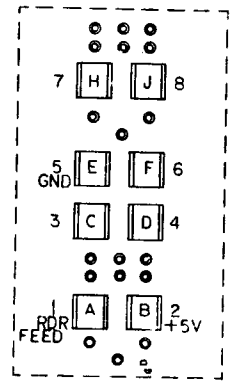
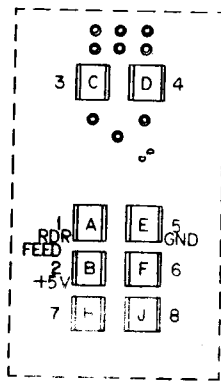
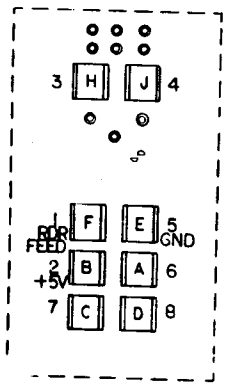
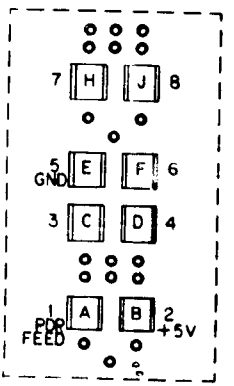


PC04-CL,CM
5408310-5
DETAIL "E"



FRONT VIEW

REAR VIEW



FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
PC04				
PARTS LIST				
DRN B HUTVAK	DATE 1-10-69	digital EQUIPMENT CORPORATION MILFORD MASSACHUSETTS		
CHK'D R. CADWELL	DATE 6-5-69			
DECIMALS	ANGLES	FILE	PC04	
XXX - 006	10 30	DATE	READ-TO-PUNCH	
AX - 07		DATE	(SW E TERM LOCATIONS)	
X - 1		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE FINISH	PROJ ENG. G. BECKNER	DATE		
	ANTICUCCIO	DATE		
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV
FINISH	A-ML-PC01-0	DUA	PC04-0-0	F
	SCALE	SHEET	DIST	
	3 OF 4			

REV P
PC04-0-0
DUA

A

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3 0-0-1003771 D 2

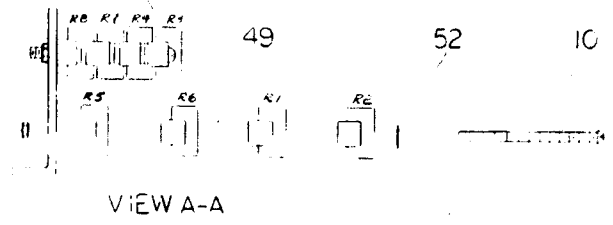
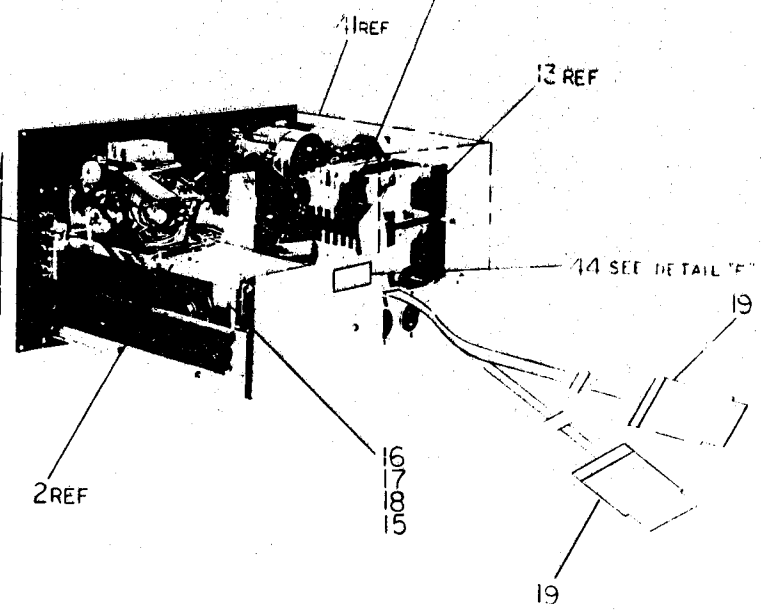
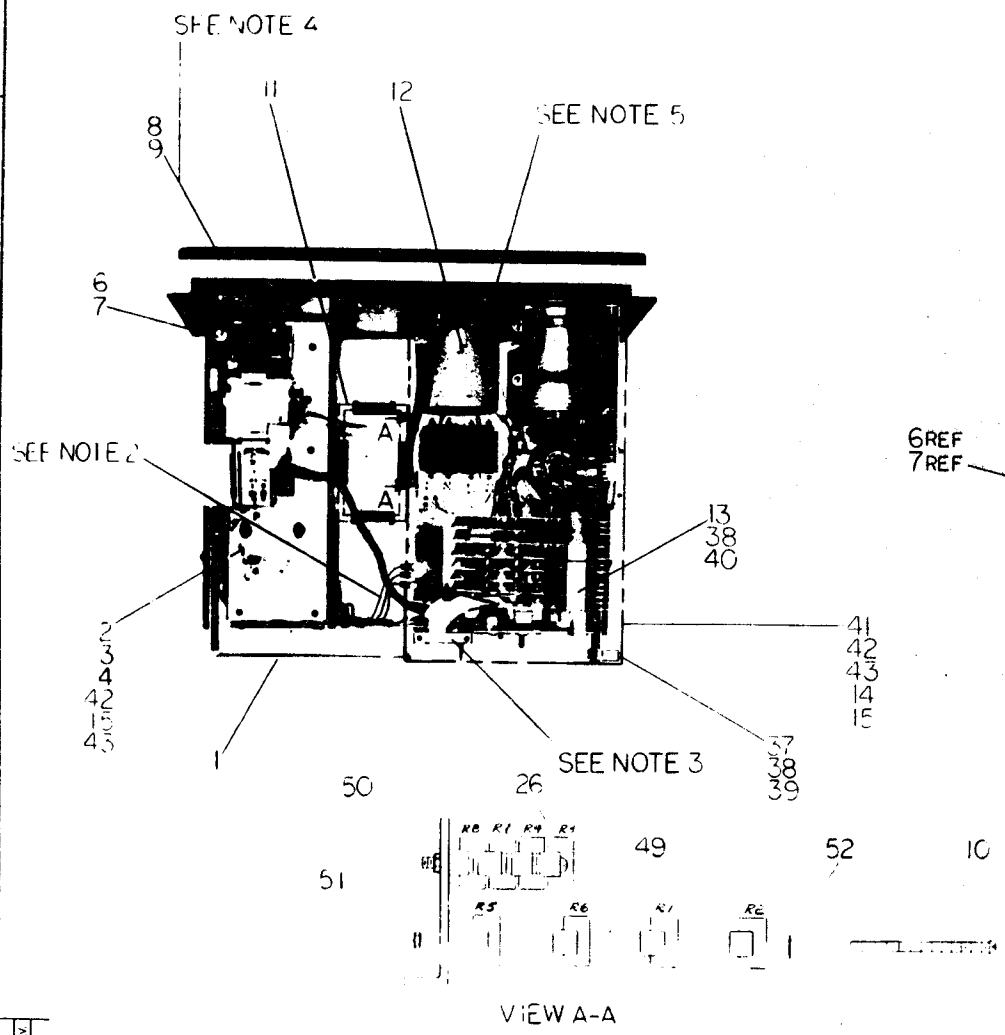
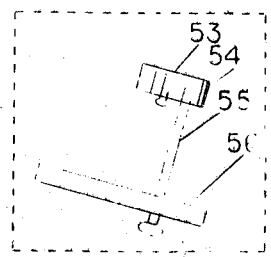
SEE NOTE 7

STAMP COMPLETE
MODIF. NO. HERE



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			
MATERIAL		SIZE CODE	NUMBER
ALUMINUM		D	UA-PC04-0-0
FINISH		SCALE	REV.
POLYESTER		NONE	
SHEET		OF 4	

BY: [Signature]
CHECKED: [Signature]
DATE: [Date]

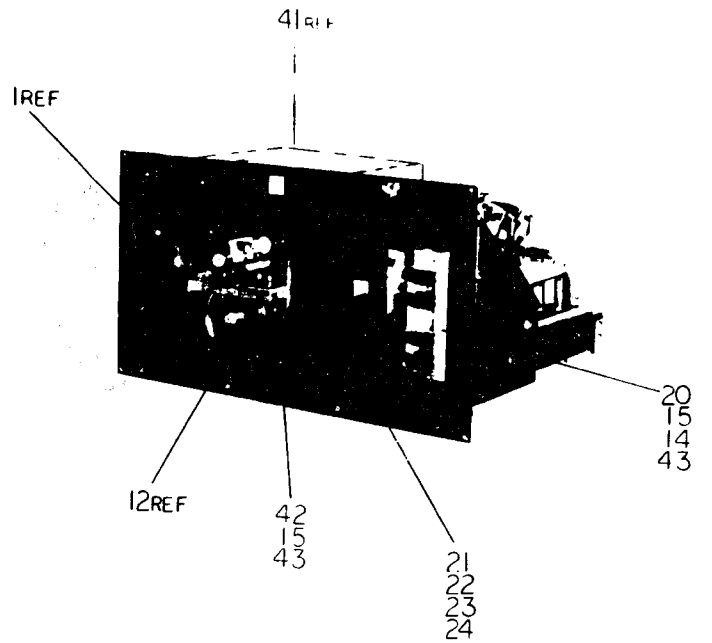
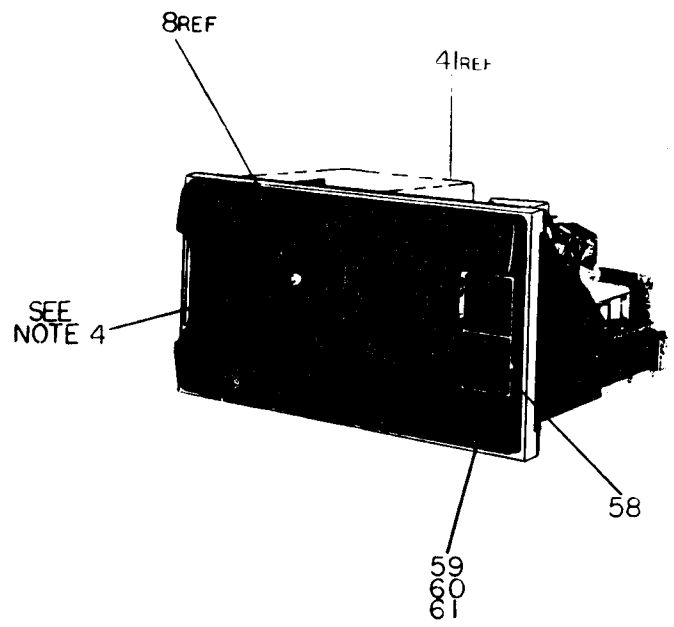
REV. NO. 1
PC04-0-0

Beckman Corporation and their not be used for parts or as part of any other equipment.

0-0-000000 2

LEGEND	
MODEL	VARIATION
	CY COMPOSITION
PC04 B, BB, & E1	60 READER & PUNCH
PC04 BA, BC, BM	50 READER & PUNCH
PC04 C	60 READER, PUNCH & SCR
PC04 CA	50 READER, PUNCH & SCR
PC04 P, & PL	60 PUNCH
PC04 PA, & PV	50 PUNCH
PC04 R & RB	60 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, BARR, H, L, M, DETAIL "E" FOR MODEL BA, BC, BM, DETAIL "T" FOR MODEL R, & RB, AND DETAIL "B" FOR MODEL "PA" & "PV". SYMBOLS HAVE 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 WHEELS 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. CABLE HOLD BOWL HAS TO BE INSTALLED BEFORE SHIPPING MACHINE.



REV.	NO.	DATE	BY	CHKD	DATE
1	1	1/19	BECKNE7		
2	2	1/20	BECKNE7		
3	3	1/20	BECKNE7		
4	4	1/20	BECKNE7		
5	5	1/20	BECKNE7		
6	6	1/20	BECKNE7		
7	7	1/20	BECKNE7		
8	8	1/20	BECKNE7		

PC04-00053
REBORN SHEETS 34
A. S. S.
A. WILLIAMS
A. WILLIAMS
A. WILLIAMS

QTY	DESCRIPTION	PART NO.	ITEM NO.
	PC04 READER AND PUNCH		

UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
2.000 .001 1/4 9.30
FINISH SURFACE QUALITY
REMOVE BURRS AND BREAK CHAMFERS

MATERIAL: STEEL
FINISH: F

SCALE: 1/2" = 1"
SHEET 1 OF 1

DIST: []

DATE: 1/20/67
BY: []
CHKD: []

TITLE: PC04 READER AND PUNCH

SIZE CODE: [] NUMBER: [] REV: []

D
C
F
B
A

DUALPC04-0-0

CONNECTIONS IF NO SCR DRIVER ASSY

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"

CONNECTIONS FOR 5408385 SCR DRIVER ASSY

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	A07B	
WHT/GRN #22	SCR LEAD	B01B	

CONNECTIONS FOR 7006520 SCR DRIVER ASSY

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	A07B	
WHT/GRN #22	SCR LEAD	A07C	NOT USED ON 5408385 R1Y1
RED #22	SCR LEAD	A07A	
GRN #22	SCR LEAD	B01F	

PUNCH CONNECTIONS

COLOR	WIRE	CONNECTION	REMARKS
WHT #22	PUNCH CAR	TS - 7	
PLUG PUNCH DATA CABLE (W023) INTO SLOT B02			

CONNECTIONS IF NO READER

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

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 (W077) INTO SLOT B08

READER WIRING

ITEM NO	COLOR/AWG	FROM	USING ITEM NO.	TO	USING ITEM NO.
29	WHT/NO #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	-	B06R	-
33	VIO #22	R2	-	B06S	-
34	YEL #22	R3	-	B05R	-
34	YEL #22	R4	-	B05S	-
35	ORN #22	R5	-	B04R	-
35	ORN #22	R6	-	B04S	-
36	BRN #22	R7	-	B03R	-
36	BRN #22	R8	-	B03S	-

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

WIRING ON PC04-BB, -BC, AND -RB ONLY

ITEM NO	COLOR/AWG	FROM	TO
57	GRN #24	A08H	A08F

COMMON CONNECTIONS

COLOR/AWG	WIRE	CONNECTION	REMARK
BLK #18	*27	GND LUG	LOGIC GND
GRY/YEL #18	*29	A08B	-15V
BLU #18	*31	B02D	-30V
BLK #18	*28	GND LUG	LOGIC GND
GRY/RED #18	*30	A08A	+5V
GRN #18	*32	B06V	-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	A01V	
WHT/BLK #22	*12	B07A	+5V
WHT/YEL #22	*13	A08F	
BLK #22	*15	B08C	
WHT #22	*16	B02U	

CONNECTION ON 7006268-0 LOGIC BLOCK (PC04-B, -BA, -BB, BC, -C, -CA, -D, -PA, -R -RB)

COLOR/AWG	WIRE	CONNECTION
BRN #22	*14	A02B

CONNECTION ON 7006268-1 AND -2 LOGIC BLOCK (PC04-BL, -BM, -CL, -CM, -PL, -PM, -RL)

COLOR/AWG	WIRE	CONNECTION
BRN #22	*14	A01B

NOTE: SEE SHEET 3 FOR TERMINAL IDENTIFICATION DIAGRAMS.

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 WATFORD MASSACHUSETTS	
DECIMALS	CHK'D R. GARVILLI	DATE 6-5-69	TITLE	
ANGLES	ENG. GEO. BECKNER	DATE 6-6-69	PC04	
XXX - 006 XX - 02 X - 1	PROJ. ENG. GEO. BECKNER	DATE 6-6-69	READER & PUNCH (WIRING)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. B. ANTONUCCIO	DATE 6-6-69	SIZE CODE NUMBER	
MATERIAL	NEXT HIGHER ASSY.	A-ML-PC04		
FINISH	SCALE		DUA PC04-0-0	REV P
SHEET 7 OF 7		DIST.		

REV. CHANGE NO.

PC04-0-0

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ITEM NO.	DWG. NO./PART NO.	DESCRIPTION	PCØ4													
			PCØ4-BB	PCØ4-BA	PCØ4-BL	PCØ4-BM	PCØ4-C	PCØ4-CA	PCØ4-CL	PCØ4-CM	PCØ4-P	PCØ4-PA	PCØ4-PL	PCØ4-PM	PCØ4-RB	PCØ4-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
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
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
3	9107350-77	WIRE, 22 AWG STRD TEFLON VIO	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
35	9107350-33	WIRE, 22 AWG STRD TEFLON ORN	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
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 1/2 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	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
45	9107275	SHRINKABLE TUBING WHITE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	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
47	E-IA-7407438-0-0	POWER SUPPLY COVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48	7006145-1	I/O CABLE Assy. (9L)	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	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
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
52	9006635	WASHER, INT TOOTH #10	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
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	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
57	9107470-55	WIRE, 24 AWG SOLID TEFLON GREEN	VR	VR	-	-	-	-	-	-	-	-	-	-	-	-
58	C-IA-7407134-1-0	BEZEL SWITCH	1	1	1	1	1	1	1	1	1	1	1	1	1	1
58	C-IA-7407134-2-0	BEZEL SWITCH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	C-IA-7407134-3-0	BEZEL SWITCH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	C-IA-7407134-4-0	BEZEL SWITCH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	C-IA-7407134-5-0	BEZEL SWITCH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	C-IA-7407134-6-0	BEZEL SWITCH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-3700123-0-0	PACKAGING INSTRUCTIONS	1	1	1	1	1	1	1	1	1	1	1	1	1	1

REV. NO.	CHANGE NO.	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.			CHK'D. R. CARVELL	DATE 6-5-69		
REVISIONS				ENG. GEO. BECKNER	DATE 6-6-69		
				PROD. ENG. GEO. BECKNER	DATE 6-6-69		
				PROD. R. ANTONUCCIO	DATE 6-6-69		
				MATERIAL			
				FINISH			
				NEXT HIGHER ASSY			
				D-UA-PCØ4-Ø-Ø			
				SCALE			
				SHEET 2 OF 2			
				SIZE CODE	NUMBER	REV.	
				CPL PCØ4-Ø-Ø		P	
				DIST.			

LEGEND		
PART #	MODEL USED ON	WIRELIST
7006268-0	PC04-B,BA,BB,BC, C,CA, D,DA, E,EA, F,FB, G,GC, H,HA, I,IA, J,JB, K,KB, L,LC, M,MA, N,NA, O,OA, P,PA, Q,QA, R,RA, S,SA, T,TA, U,UA, V,VA, W,WA, X,XA, Y,YA, Z,ZA	K-WL-PC04-0-5
7006268-1	PC04-BL,BA, BL,LM, RL	K-WL-PC04-0-6
7006268-2	PC04-CL,CM	K-WL-PC04-0-7

- NOTES:
- CONNECTIONS ON ITEM 14 TO BE SOLDERED AND LOCATED AT PRACTICAL HEIGHT ABOVE THE BOARD TO GND LUG AS SHOWN.
 - CONNECTOR BLOCKS TO BE INSTALLED TO GND LUG AS SHOWN.
 - USE BLUE WIRE (ITEM 14) FOR HAND WRAPPED WIRING.
 - REVISIONS:

TO CONVERT 7006268-0 BLOCK BACK TO NEG LOGIC MACHINES, DO FOLLOW X:

 - A REMOVE TRANSISTORS IN READER FEED SWITCH ASSY
 - B WIRE CHANGES
 - DELETE - 8085-807E
 - ADD - 802N-808H
 - 809E-807E
 - 802E-801N
 - DELETE 100-RESISTOR FROM 808A-806F

EXTERNAL COMPONENT TABLE

ITEM	COMP	POL	FROM	TO	POL	REMARKS
10	CAP	+	A83A	A83C	-	6.8pF
11	CAP	-	B87H	B83C	+	6.8pF

7006268-2

EXTERNAL COMPONENT TABLE

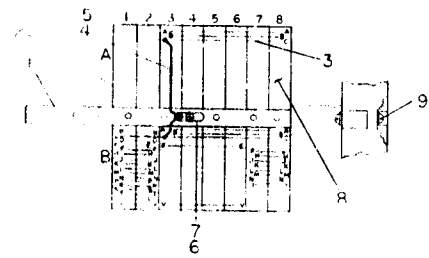
ITEM	COMP	POL	FROM	TO	POL	REMARKS
10	CAP	+	A83A	A83C	-	
11	CAP	-	B87H	B83C	+	
12	RES		A88A	A88T		100Ω
13	RES		A86E	A86C		3.3kΩ

7006268-1

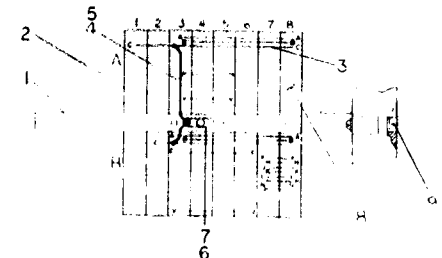
EXTERNAL COMPONENT TABLE

ITEM	COMP	POL	FROM	TO	POL	REMARKS
10	CAP	+	A83A	A83C	-	
11	CAP	-	B87H	B83C	+	
12	RES		A88A	A88T		100Ω
13	RES		A86E	A86C		3.3kΩ

7006268-0



7006268-0
(8,8,8,8T)



7006268-1
(HL,HL,LM,LF)
7006268-1
(110)

REV	DATE	BY	CHKD	DESCRIPTION
1	10/11/67	W. J. MURPHY		INITIAL DESIGN
2	10/11/67	W. J. MURPHY		REVISED TO ADD COMPONENTS
3	10/11/67	W. J. MURPHY		REVISED TO ADD COMPONENTS
4	10/11/67	W. J. MURPHY		REVISED TO ADD COMPONENTS
5	10/11/67	W. J. MURPHY		REVISED TO ADD COMPONENTS
6	10/11/67	W. J. MURPHY		REVISED TO ADD COMPONENTS
7	10/11/67	W. J. MURPHY		REVISED TO ADD COMPONENTS
8	10/11/67	W. J. MURPHY		REVISED TO ADD COMPONENTS
9	10/11/67	W. J. MURPHY		REVISED TO ADD COMPONENTS
10	10/11/67	W. J. MURPHY		REVISED TO ADD COMPONENTS

FIRST USE ON OPTION/NO.	QTY	DESCRIPTION	PART NO.	REV																														
PC04																																		
<table border="1"> <thead> <tr> <th>DESIGNED BY</th> <th>DATE</th> <th>CHECKED BY</th> <th>DATE</th> <th>APPROVED BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>W. J. MURPHY</td> <td>10/11/67</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R. CARVELLI</td> <td>10/11/67</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R. BECHER</td> <td>10/11/67</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R. BECHER</td> <td>10/11/67</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					DESIGNED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	W. J. MURPHY	10/11/67					R. CARVELLI	10/11/67					R. BECHER	10/11/67					R. BECHER	10/11/67				
DESIGNED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE																													
W. J. MURPHY	10/11/67																																	
R. CARVELLI	10/11/67																																	
R. BECHER	10/11/67																																	
R. BECHER	10/11/67																																	
<p>(PC04) WIRED ASSY</p>																																		
<p>D-UA-PC04-0-0</p>																																		
<p>SCALE: 1" = 1"</p>																																		
<p>SHEET 1 OF 1</p>																																		

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

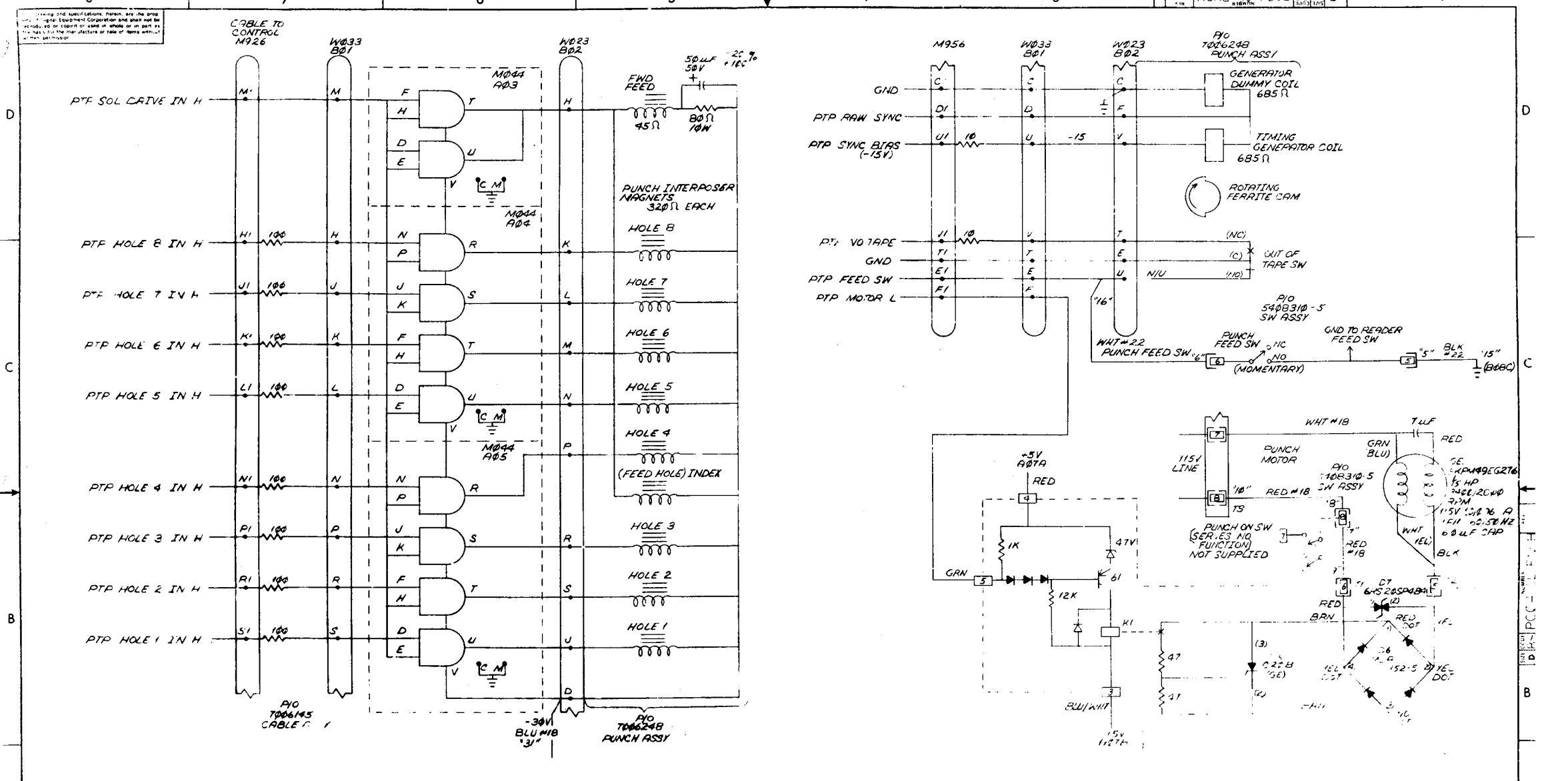
MAD BY	ROBERT HUTNAK	CHECKED	<i>Carwell</i>	SECTION	1
DATE	2/20/69	DATE	5/5/69	ISSUED SECT.	1
ENG DATE	<i>Section 4/4/67</i>	PROD DATE	<i>5/6/66</i>		

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

QUANTITY VARIATION

	700b268-1	700b268-2								
1	1									
2	2									
A	/	FA/K								
A	/	FA/K								
A	/	FA/K								
1	1									
1	1									
A	/	FA/K								
4	4									
2	2									
1	1									
-	-									

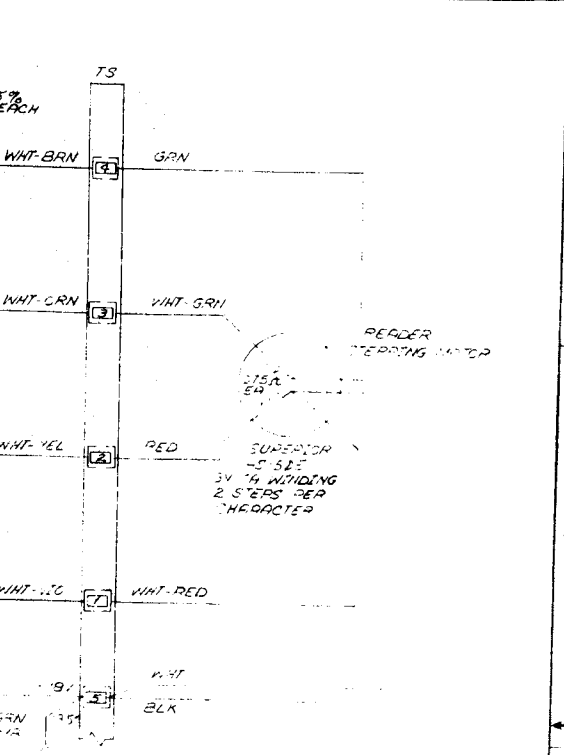
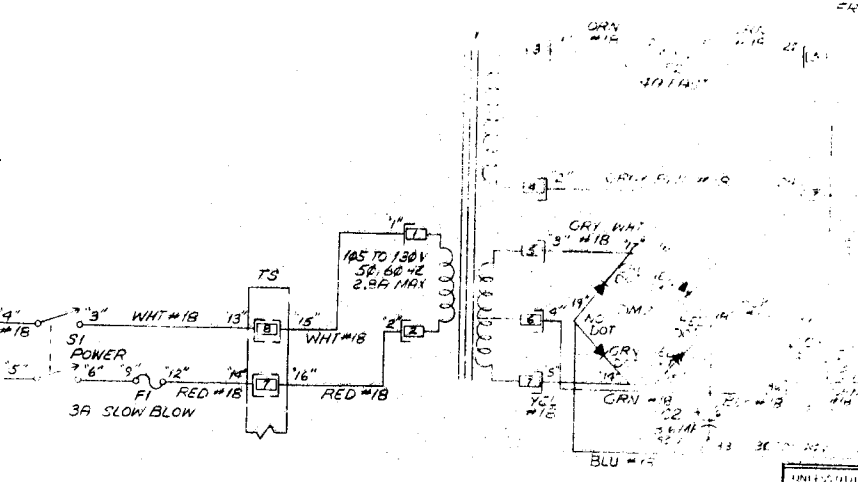
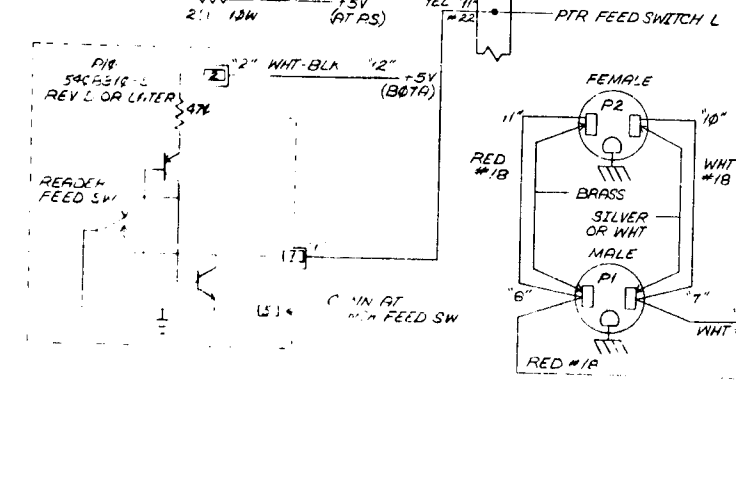
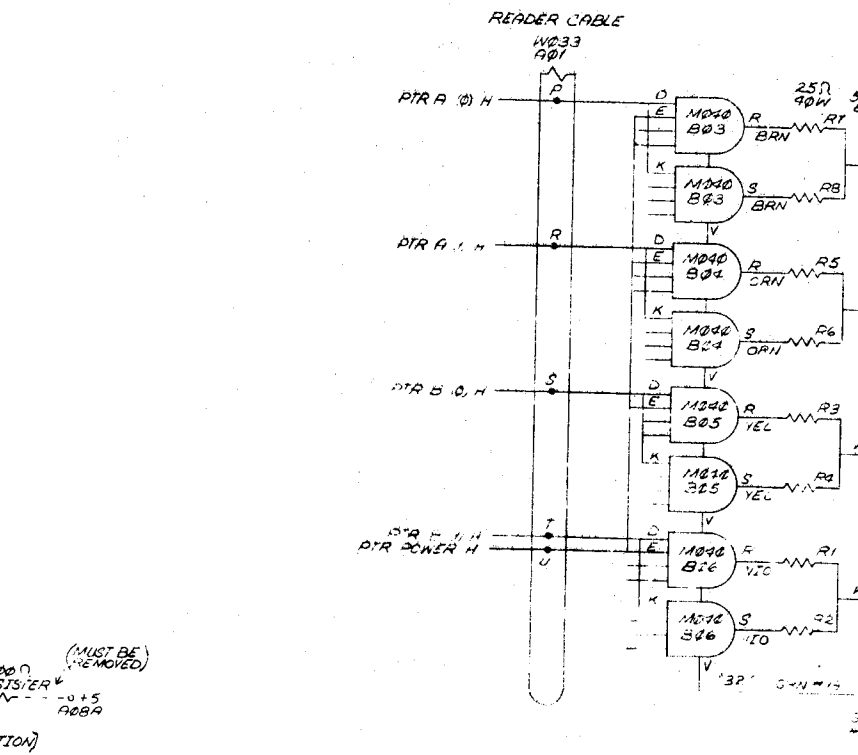
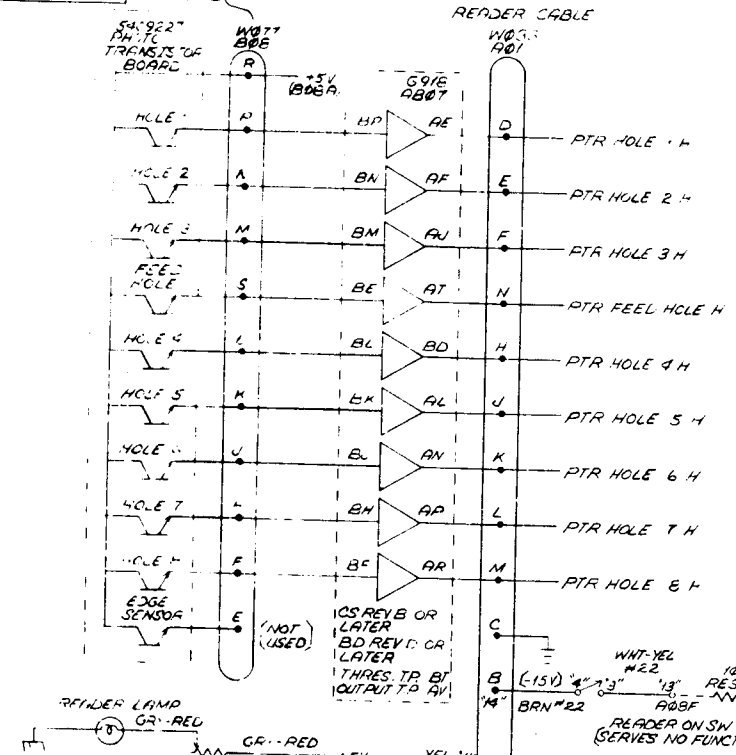
TITLE	PC04 WIRED ASSY	ASSY NO.	E-AD-700b268-0-0	SIZE	CODE	NUMBER	700b268-0-0	REV	ECO NO	PC04-00056
DEC	FORM NO.	SHEET	1 OF 1	DIST						



QUANTITY USED (IN OPTION MODEL)	QTY	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE	TITLE	
XXX .XX	10 00	12-27-71	PUNCH	
REMOVE DIMS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ. ENG.	DATE	PC04-CL-PNCH	
MATERIAL	NEXT HIGHER ASSY	SCALE	SIZE CODE	NUMBER
A-ML-PC04		1 OF 1	D35	PC04-CL-PNCH
FINISH	SHEET	OF	DIST	REV
	1	1		

REV.	DATE	BY	CHKD.
1	12-27-71	J. K.	J. K.

704-6027 PACT. TRG. IS317-1A
ASSY REV. L OR LATER



DESIGNED BY SPECIFIED TOLERANCES	DATE	DRAWN BY DATE	digital EQUIPMENT CORPORATION
ILLUSTRATED BY DATE	DATE	DATE	
PROJECT NO.	DATE	DATE	
REWORK	DATE	DATE	
MATERIAL	NEXT APPROVAL	DATE	
FINISH	DATE	DATE	

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SIZE CODE NUMBER K WL 2

3

4

1

B

B

A

A


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

REVISIONS	CHANGE NO.	REV
ORIGINATED		-
PC04 00014		
PC04		
DATE		
3/18/72		

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

REV	CHANGE NO	REVISIONS
-		INITIATED
		PC04-C0044
A	55	PC04-
		Approved 4-9-72
		C. YOUSE
		PC04-C0056 H
		YOUSE
		Youse 5-27-72

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.						
PC04										
PARTS LIST										
DRN.	DATE	<div style="text-align: center;">  <p>digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS</p> </div> <p style="text-align: center;">TITLE WIRELIST PC04-BL, BM, PL, FM AND RL</p>								
CHK'D	DATE									
ENG	DATE									
PROJ ENG	DATE									
PRCD	DATE									
NEXT HIGHER ASSEMBLY		<table border="1" style="width: 100%;"> <tr> <td>SIZE CODE</td> <td>NUMBER</td> <td>REV</td> </tr> <tr> <td>K WL</td> <td>14-0-0</td> <td>H</td> </tr> </table>			SIZE CODE	NUMBER	REV	K WL	14-0-0	H
SIZE CODE	NUMBER	REV								
K WL	14-0-0	H								

4

3

REV 11 2-0-FOO-1M K
NUMBER CODE SIZE

2

1

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B

B

→

←

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>				
CHK'D	DATE	TITLE			
<i>M. Landetta</i>	<i>2-7-72</i>	WIRELIST			
ENG	DATE	PCØ4-CL AND CM			
<i>M. Pen</i>	<i>2-9-72</i>				
PROJ. ENG	DATE				
<i>C. Pen</i>	<i>1-72</i>				
PROJ.	DATE				
<i>...</i>	<i>...</i>				
NEXT HIGHER ASSEMBLY		SIZE	CODE	NUMBER	REV.
<i>...</i>		K	WI	<i>PCØ4-Ø-1</i>	

A

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ACCESSORY LIST

LEGEND

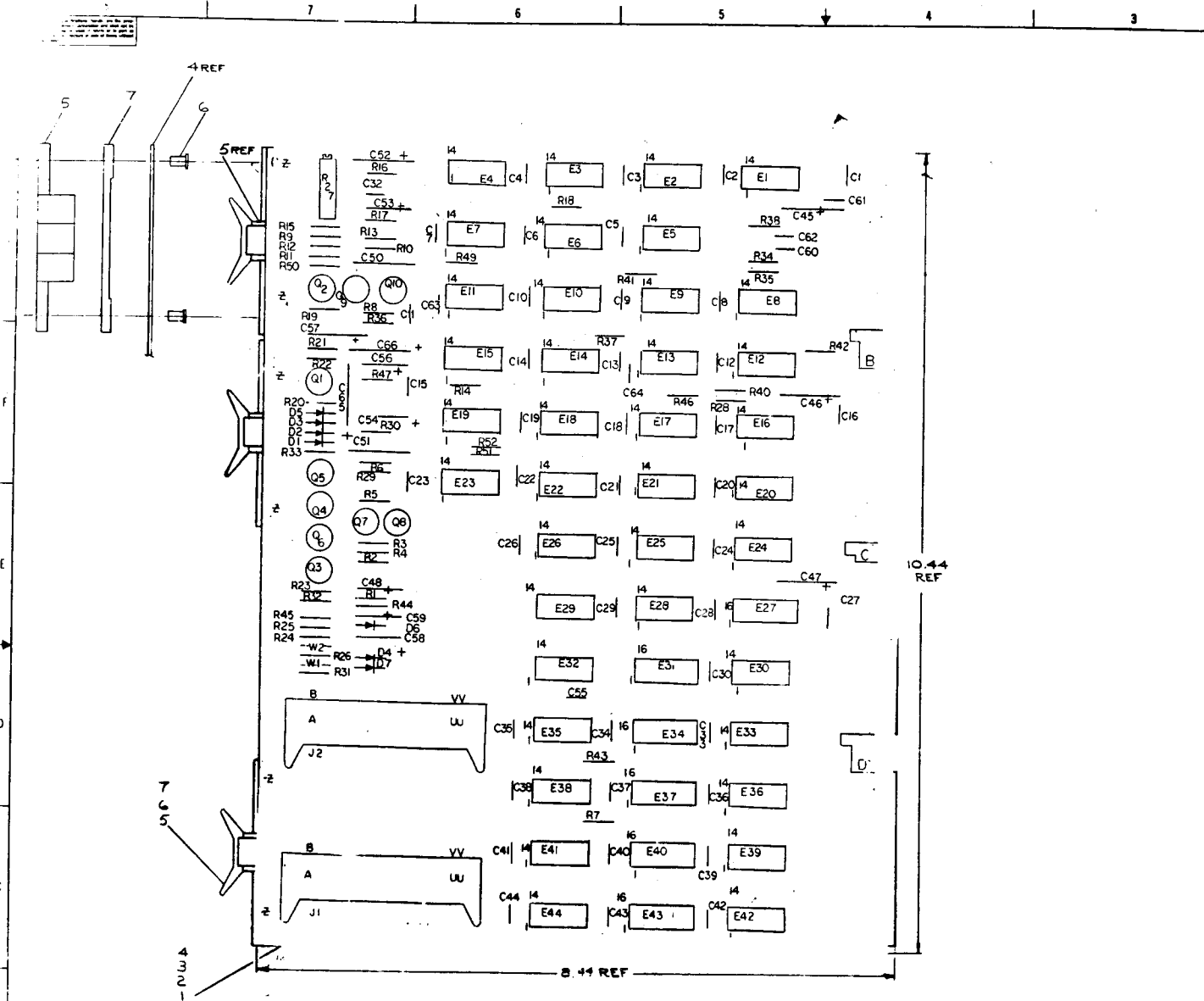
D DOCUMENT
DN DOCUMENT CHANGE NOTICE
PA PAPER TAPE ASCII
PB PAPER TAPE BINARY
FM PAPER TAPE READ-IN-MODE

QUANTITY / VARIATION

MADE BY: *H. Gilbert*
DATE: *10/5/73*
CHECKED: *H. Gilbert*
DATE: *10/5/73*
SECTION
ISSUED SECT.
ENG A. WILLIAMS
DATE: *10-5-73*
PRODA. WILLIAMS
DATE: *10-5-73*

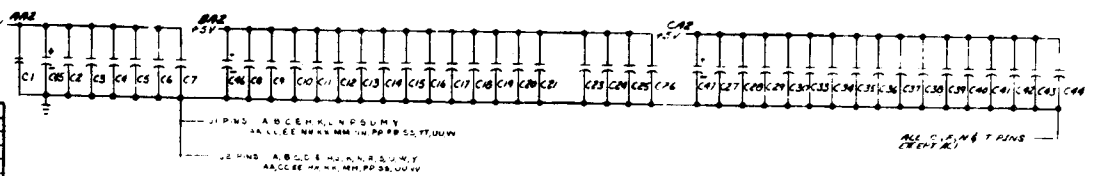
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION				KIT CHECK BY DATE	INSTALLATION CHECK BY DATE
			1	2	3	4		
1	DEC-PC04-IPB	PC04 ILLUSTRATED PARTS BREAKDOWN	1					

TITLE	PAPER TAPE READER ACCESSORY LIST	ASSY. NO.		SIZE CODE	A AL	NUMBER	PC04-10-02	REV		CO NO	1000
		SHEET	OF								



REF.	REF. DESIGNATION	DESCRIPTION	QTY	UNIT
1	W-1	WIRE 22 AWG SOLID BUS	19035	77
1	E-1	IC DEC 7820	19035	77
1	E-2	RES 270 1/4W 5%	13014	59
1	E-3	RES 100 1/4W 5%	13008	50
1	E-4	RES 150 1/4W 5%	13008	50
1	E-5	RES 300 1/4W 5%	13008	50
1	E-6	RES 600 1/4W 5%	13008	50
1	E-7	RES 1200 1/4W 5%	13008	50
1	E-8	RES 270 1/4W 5%	13014	59
1	E-9	RES 100 1/4W 5%	13008	50
1	E-10	RES 150 1/4W 5%	13008	50
1	E-11	RES 300 1/4W 5%	13008	50
1	E-12	RES 600 1/4W 5%	13008	50
1	E-13	RES 1200 1/4W 5%	13008	50
1	E-14	RES 270 1/4W 5%	13014	59
1	E-15	RES 100 1/4W 5%	13008	50
1	E-16	RES 150 1/4W 5%	13008	50
1	E-17	RES 300 1/4W 5%	13008	50
1	E-18	RES 600 1/4W 5%	13008	50
1	E-19	RES 1200 1/4W 5%	13008	50
1	E-20	RES 270 1/4W 5%	13014	59
1	E-21	RES 100 1/4W 5%	13008	50
1	E-22	RES 150 1/4W 5%	13008	50
1	E-23	RES 300 1/4W 5%	13008	50
1	E-24	RES 600 1/4W 5%	13008	50
1	E-25	RES 1200 1/4W 5%	13008	50
1	E-26	RES 270 1/4W 5%	13014	59
1	E-27	RES 100 1/4W 5%	13008	50
1	E-28	RES 150 1/4W 5%	13008	50
1	E-29	RES 300 1/4W 5%	13008	50
1	E-30	RES 600 1/4W 5%	13008	50
1	E-31	RES 1200 1/4W 5%	13008	50
1	E-32	RES 270 1/4W 5%	13014	59
1	E-33	RES 100 1/4W 5%	13008	50
1	E-34	RES 150 1/4W 5%	13008	50
1	E-35	RES 300 1/4W 5%	13008	50
1	E-36	RES 600 1/4W 5%	13008	50
1	E-37	RES 1200 1/4W 5%	13008	50
1	E-38	RES 270 1/4W 5%	13014	59
1	E-39	RES 100 1/4W 5%	13008	50
1	E-40	RES 150 1/4W 5%	13008	50
1	E-41	RES 300 1/4W 5%	13008	50
1	E-42	RES 600 1/4W 5%	13008	50
1	E-43	RES 1200 1/4W 5%	13008	50
1	E-44	RES 270 1/4W 5%	13014	59
1	E-45	RES 100 1/4W 5%	13008	50
1	E-46	RES 150 1/4W 5%	13008	50
1	E-47	RES 300 1/4W 5%	13008	50
1	E-48	RES 600 1/4W 5%	13008	50
1	E-49	RES 1200 1/4W 5%	13008	50
1	E-50	RES 270 1/4W 5%	13014	59
1	E-51	RES 100 1/4W 5%	13008	50
1	E-52	RES 150 1/4W 5%	13008	50
1	E-53	RES 300 1/4W 5%	13008	50
1	E-54	RES 600 1/4W 5%	13008	50
1	E-55	RES 1200 1/4W 5%	13008	50
1	E-56	RES 270 1/4W 5%	13014	59
1	E-57	RES 100 1/4W 5%	13008	50
1	E-58	RES 150 1/4W 5%	13008	50
1	E-59	RES 300 1/4W 5%	13008	50
1	E-60	RES 600 1/4W 5%	13008	50
1	E-61	RES 1200 1/4W 5%	13008	50
1	E-62	RES 270 1/4W 5%	13014	59
1	E-63	RES 100 1/4W 5%	13008	50
1	E-64	RES 150 1/4W 5%	13008	50
1	E-65	RES 300 1/4W 5%	13008	50
1	E-66	RES 600 1/4W 5%	13008	50
1	E-67	RES 1200 1/4W 5%	13008	50
1	E-68	RES 270 1/4W 5%	13014	59
1	E-69	RES 100 1/4W 5%	13008	50
1	E-70	RES 150 1/4W 5%	13008	50
1	E-71	RES 300 1/4W 5%	13008	50
1	E-72	RES 600 1/4W 5%	13008	50
1	E-73	RES 1200 1/4W 5%	13008	50
1	E-74	RES 270 1/4W 5%	13014	59
1	E-75	RES 100 1/4W 5%	13008	50
1	E-76	RES 150 1/4W 5%	13008	50
1	E-77	RES 300 1/4W 5%	13008	50
1	E-78	RES 600 1/4W 5%	13008	50
1	E-79	RES 1200 1/4W 5%	13008	50
1	E-80	RES 270 1/4W 5%	13014	59
1	E-81	RES 100 1/4W 5%	13008	50
1	E-82	RES 150 1/4W 5%	13008	50
1	E-83	RES 300 1/4W 5%	13008	50
1	E-84	RES 600 1/4W 5%	13008	50
1	E-85	RES 1200 1/4W 5%	13008	50
1	E-86	RES 270 1/4W 5%	13014	59
1	E-87	RES 100 1/4W 5%	13008	50
1	E-88	RES 150 1/4W 5%	13008	50
1	E-89	RES 300 1/4W 5%	13008	50
1	E-90	RES 600 1/4W 5%	13008	50
1	E-91	RES 1200 1/4W 5%	13008	50
1	E-92	RES 270 1/4W 5%	13014	59
1	E-93	RES 100 1/4W 5%	13008	50
1	E-94	RES 150 1/4W 5%	13008	50
1	E-95	RES 300 1/4W 5%	13008	50
1	E-96	RES 600 1/4W 5%	13008	50
1	E-97	RES 1200 1/4W 5%	13008	50
1	E-98	RES 270 1/4W 5%	13014	59
1	E-99	RES 100 1/4W 5%	13008	50
1	E-100	RES 150 1/4W 5%	13008	50

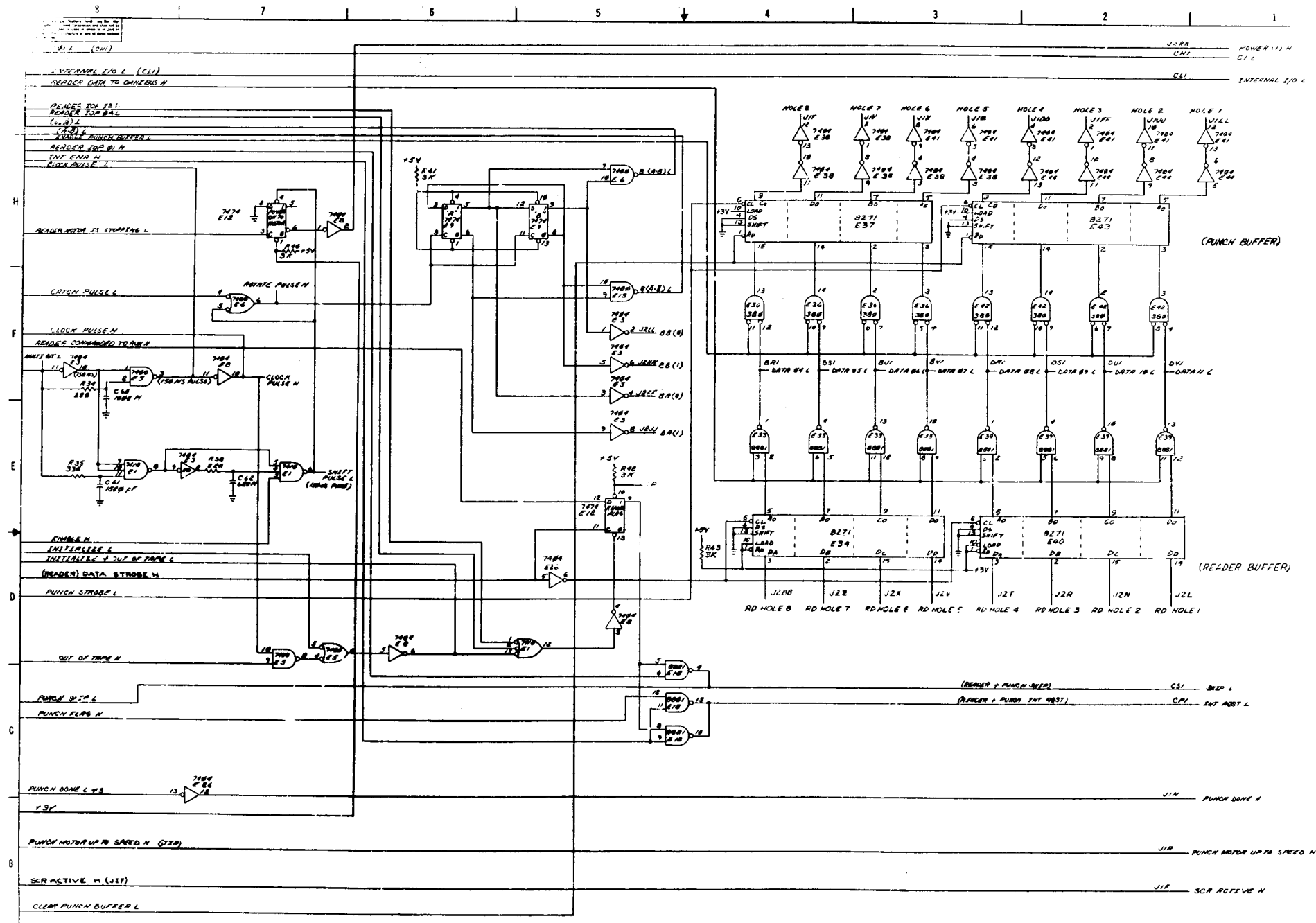
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2	REVISED	11/10/64	J.M.
3	REVISED	12/15/64	J.M.
4	REVISED	1/10/65	J.M.
5	REVISED	2/10/65	J.M.
6	REVISED	3/10/65	J.M.
7	REVISED	4/10/65	J.M.
8	REVISED	5/10/65	J.M.
9	REVISED	6/10/65	J.M.
10	REVISED	7/10/65	J.M.



REV	DESCRIPTION	DATE	BY
1	ISSUED FOR FAB	10/15/64	J.M.
2	REVISED	11/10/64	J.M.
3	REVISED	12/15/64	J.M.
4	REVISED	1/10/65	J.M.
5	REVISED	2/10/65	J.M.
6	REVISED	3/10/65	J.M.
7	REVISED	4/10/65	J.M.
8	REVISED	5/10/65	J.M.
9	REVISED	6/10/65	J.M.
10	REVISED	7/10/65	J.M.

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR FAB	10/15/64	J.M.
2	REVISED	11/10/64	J.M.
3	REVISED	12/15/64	J.M.
4	REVISED	1/10/65	J.M.
5	REVISED	2/10/65	J.M.
6	REVISED	3/10/65	J.M.
7	REVISED	4/10/65	J.M.
8	REVISED	5/10/65	J.M.
9	REVISED	6/10/65	J.M.
10	REVISED	7/10/65	J.M.

EQUIPMENT CORPORATION
 READER/PUNCH CONTROL
 EICSM840-0-1



11-10
 11-09
 11-08
 11-07
 11-06
 11-05
 11-04
 11-03
 11-02
 11-01

QTY	DESCRIPTION	PART NO.	REV. NO.
digital EQUIPMENT CORPORATION TITLE: READER / PUNCH CONTROL DRAWING NO: EC58B40-0-1 SHEET: 3 OF 3			

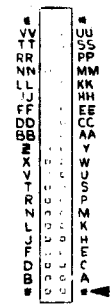
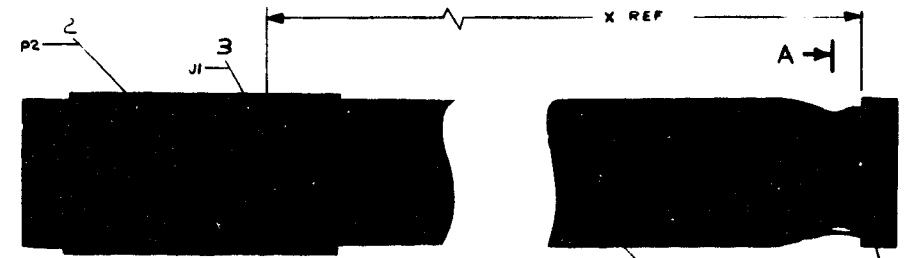
11-10
 11-09
 11-08
 11-07
 11-06
 11-05
 11-04
 11-03
 11-02
 11-01

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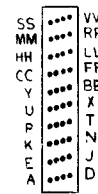
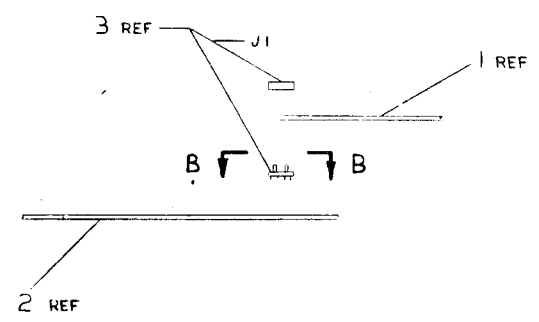
WIRE TABLE					
ITEM NO.	DESCRIPTION	FROM	TO	REMARKS	
AWG	COLOR	CONNECTION	CONNECTION		
1	20	3REY	P1 - D	P2 - A2	
			F	B2	
			J	C2	
			L	D2	
			N	E2	
			R	F2	
			T	H2	
			V	J2	
			X	K2	
			Z	L2	
			BB	M2	
			DD	N2	
			FF	P2	
			JJ	R2	
			LL	S2	
			NN	T2	
			RR	U2	

LEGEND		
CABLE NO.	TYPE	DIM X
BC2BK-26	7007036-26	5FT ± 2IN
BC2BK-10	7007036-10	10FT ± 2IN
BC2BK-15	7007036-15	15FT ± 3IN
BC2BK-25	7007036-25	25FT ± 3IN
BC2BK-50	7007036-50	50FT ± 12IN

NOTES:
 1. CONNECTORS P1 AND J1 ARE TO BE WIRED POINT TO POINT P1-A TO J1 - A THRU P1-VV TO J1 - VV.
 2. ASTERISKS INDICATE CAVITIES NOT IN USE OR DESIGNATED BY LETTERS.
 3. ALL P1 CONNECTIONS NOT LISTED ON THE WIRE TABLE ARE GROUND.



VIEW A-A
(FOR REFERENCE ONLY)



VIEW B-B
(J1 REF)

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	ETCH BOARD CONNECTOR	1210073-0	3
1	M955 CABLE CONNECTOR	M955	2
1	I/O CABLE	SEE LEGEND	1

WIRE USED ON OPTION/MODEL
PC2/L

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS IN INCHES
 FINISH SURFACE QUALITY
 REMOVE BURRS AND BREAK SHARP EDGES

DATE	BY	CHKD	APP'D
10/1/70	[Signature]	[Signature]	[Signature]
TITLE			
I/O CABLE (BC2BK)			
NEXT HIGHER ASSY			
SCALE			
SHEET OF 1			
PART NO.		REV.	
DUA BC2BK-0-0		B	

REV.	CHANGE NO.	BY	DATE
1	ESCK-0001 A	GARDNER	5-12-70
2	BLOCK-0002 B	GARDNER	5-12-70

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

ENG	APPD	SIZE	CODE	NUMBER	REV
Larry Narhi	<i>[Signature]</i>	A	SP	PCB-EA-1	

DEC FORM NO. DRA 107

SHEET 1 OF 3

CONTINUATION SHEET						
TITLE PCB-E READER PUNCH CONTROL						
<p>4.1 Continued - Punch IOT's</p> <p>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</p> <p>4.2 There are no maintenance instructions.</p> <p>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.</p> <p>4.4 There are no timing diagrams.</p> <p>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.</p> <p>5. Interface Specifications</p> <p>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.</p> <p>5.2 The following is a list of reader, punch variations for the 8/E.</p> <p style="padding-left: 40px;">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</p>						

ENG	APPD	SIZE	CODE	NUMBER	REV
		A	SP	PCB-EA-1	

DEC FORM NO. DRA 108A

SHEET 3 OF 3

CONTINUATION SHEET						
TITLE PCB-E READER PUNCH CONTROL						
<p>1. Overall Description</p> <p>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.</p> <p>2. General Specification</p> <p>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.</p> <p>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.</p> <p>2.3 The entire interface is contained on one 8 1/2" by 11" quad board.</p> <p>2.4 The temperature limits are 32F to 120F and relative humidity 10% to 90%, non-condensing. The power requirements are:</p> <p style="padding-left: 40px;">+ 5 volts at 1.25 amps. -15 volts at 75 milliamps.</p> <p>2.5 The control is completely compatible with all software that is PCB/L oriented.</p> <p>3. Specification of Vendor-Supplied Equipment</p> <p>3.1 See applicable purchase specification for board components.</p> <p>4. Programming</p> <p>4.1 Reader IOT's</p> <p>RPE 6010 Set interrupt enable for reader and punch RSP 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</p> <p>NOTE: Initialize sets program Interrupt Enable Flag</p>						

		SIZE	CODE	NUMBER	REV
		A	SP	PCB-EA-1	

DEC FORM NO. DRA 108F

SHEET 2 OF 3

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**DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS**

ENGINEERING SPECIFICATION DATE 1/22/71

TITLE **PC8-E TEST PROCEDURE**

REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG <i>John Walsh</i>	APPRO <i>J. Hoff</i>	SIZE A	CODE SP	NUMBER PC8-E-2	REV
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DEC FORM NO. 16-1022
DRA 107 SHEET 1 OF 4

ENGINEERING SPECIFICATION CONTINUATION SHEET

TITLE **PC8-E TEST PROCEDURE**

PRG5 - Punch test, random characters PC04-BM/BL, PC04-PM/PL
 PRG6 - Punch verify random characters PC04-BM/BL, PC04-PM/PL
 PRG7 - Combined reader and punch test, special binary count routine PC04-BM/BL, PC04-RB
 PRG13 - Reader speed print loop

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 PC8E diagnostic have been run, do the Teradyne copy routine as follows:

4.5 Load tape in reader with Teradyne loader and test tape.

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.

SIZE A	CODE SP	NUMBER PC8-E-2	REV
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DEC FORM NO 16-1022
DRA 108 SHEET 3 OF 4

ENGINEERING SPECIFICATION CONTINUATION SHEET

TITLE **PC8-E TEST PROCEDURE**

1.0 EQUIPMENT

- 1.1 PDP8/E standard
- 1.2 Heat box
- 1.3 453 scope and voltage probes
- 1.4 Teletype
- 1.5 PR8-E paper tape reader
- 1.6 Binary loader tape
- 1.7 M840 module and following options:
 - 1.7.1 PR8-E - PC04-R and 1 BC08-K cable
 - 1.7.2 PR8-E - PC04-PM/PL and 1 BC08-K cable
 - 1.7.3 PC8-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-D2G1-PT
 - 1.8.2 Test PRG2 (binary count) MAINDEC-00-D2G3-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 BC08-K cables as follows:

Cable	From	To
Reader	A1	J2 (M840)
Punch	B1	J1 (M840)

NOTE: If a PC04-RB (Reader) or PC04-PM (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-D2CA using starting address of 7777.

4.0 PC8-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-PM/PL
PRG2 - Reader test, special binary count pattern	PC04-BM/BL, PC04-R
PRG3 - Punch test, special binary count pattern	PC04-BM/BL, PC04-PM/PL
PRG4 - Punch verify, special binary count pattern	PC04-BM/BL, PC04-PM/PL

SIZE A	CODE SP	NUMBER PC8-E-2	REV
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DEC FORM NO 16-1022
DRA 108 SHEET 2 OF 4

ENGINEERING SPECIFICATION CONTINUATION SHEET

TITLE **PC8-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

SIZE A	CODE SP	NUMBER PC8-E-2	REV
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DEC FORM NO 16-1022
DRA 108 SHEET 4 OF 4

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

ENG	Larry Warhi	APPD	Dave Chertkow	SIZE	CODE	NUMBER	REV
				A	SP	7665138-0-0	

DEC FORM NO. 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	NUMBER	REV
	A	SP	7665138-0-0	

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. <ul style="list-style-type: none"> A. PR8-E B. Pp8-E C. PCS-E D. MB4β 2. Check MB4 β module for proper revision (circuit schematic and etch). Also check for date coding. 3. Make sure MB4 β 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 MB4 β 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 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 6 β seconds, set bit β to a 1 and then back to β . 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	NUMBER	REV
	A	SP	7665138-0-0	

DEC FORM NO 16-1022
SHEET 2 OF 3

DIGITAL EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS
PARTS LIST

QUANTITY / VARIATION

MADE BY		CHECKED		SECTION	
Ken GULICK 3/2/71		KEN GULICK 3/2/71		1	
DATE		DATE		ISSUED SECT.	
3-5-71		3/17/71		1	
ENG		PROD			
Larry Markle		CR Tompkins			

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	PC8-E	PC8-EA	QUANTITY / VARIATION															
1	D-UA-PCØ4-Ø-Ø	PCØ4-BL PUNCH AND READER	1	-																
2	D-UA-BCØ8K-Ø-Ø	BCØ8K-6 CABLE ASSEMBLY	2	2																
3	E-CS-M84Ø-Ø-Ø	READER PUNCH	1	1																
4	D-UA-PCØ4-Ø-Ø	PCØ4-BM PUNCH AND READER	-	1																
5	B-MD-74Ø8955-Ø-Ø	BRACKET	1	1																
6	B-MD-74Ø8956-Ø-Ø	CLAMP	1	1																
7	9006557	KEPS NUT #4-40	2	2																
8	9006012-1	SCR IL HD PAN #4-40 X 7/16 LG	2	2																
9	9008864	TAPE DBL COATED PRESS SEN. 3/8	A/R	A/R																

TITLE HIGH SPEED PUNCH AND READER		ASSY NO. NONE		SIZE CODE A PL		NUMBER PC8-E-Ø		REV	ECO NO
SHEET 1 OF 1				DIST.					

DEC FORM NO
DRA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			LEGEND		QUANTITY / VARIATION													
ACCESSORY LIST			D	DOCUMENT														
MADE BY J. Mc Cluskey	CHECKED <i>[Signature]</i>	SECTION	DN	DOCUMENT CHANGE NOTICE														
DATE 4/10/72	DATE 4/14/72		PA	PAPER TAPE ASCII														
ENG L. Narhi	PROD <i>[Signature]</i>	ISSUED SECT.	PB	PAPER TAPE BINARY														
DATE 4/10/72	DATE 4/14/72		PM	PAPER TAPE READ-IN-MODE	PC8-E	PC8-EA	PC8-EF	PC8-EC										
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION											KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE
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	PC04/PC05 Paper Tape Reader Punch 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-8-E-3		REV B		FORM NO PC8E 10000							
SHEET OF			DIST.															

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