

PC8-E
HSPT reader/punch
engineering drawings

digital equipment corporation • maynard, massachusetts

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DIGITAL	COMPUTER LAB

MASTER DRAWING LIST

[illegible]

DRA 131

Dec 16 (325) - 1048 - N471

PRINT SET			DWG. NO.	REV. NO. OF SHEETS	TITLE	OPTION NO.
X			D-DI-PC04-0-1	2	DRAWING INDEX	
X			D-BS-PC04-0-2	3	POWER + CONTROL SCHEMATIC DIAGRAM (REFERENCE)	
X			B-CS-M113-0-1	4	10-2 INPUT NAND GATES	
X			B-CS-5408308-0-1	4	POWER P' GULATOR CIRCUIT SCHEMATIC	
X			B-CS-5408385-0-1	4	SCR DRIVER CIRCUIT SCHEMATIC	
X			B-CS-M044-0-1	4	SOLENOID DRIVERS	
X			D-CS-M710-0-1	4	PUNCH CONTROL M710	
X			B-CS-M040-0-1	4	SOLENOID DRIVERS	
X			D-CS-M7050-0-1	4	READER CONTROL M7050	
X			D-CS-M715-0-1	4	READER CLOCK M715	
X			D-CS-G918-0-1	4	PHOTO TRANSISTOR AMPLIFIER G918	
X			E-CS-M840-0-1	4	READER PUNCH CONTROL	
X			D-MU-PC04-0-3	0	MODULE UTILIZATION	
X			A-PL-PC04-0-3	0	MODULE UTILIZATION (PARTS LIST)	
X			B-CS-5408018-0-1	4	POWER REGULATOR CIRCUIT SCHEMATIC	
X			A-SP-PC04-0-4	A	PC04 ENGINEERING SPECS	
X			B-CS-5408310-0-1	4	POWER REGULATOR CIRCUIT SCHEMATIC	
X			D-UA-PC04-0-0	P	READER + PUNCH	
X			C-PL-PC04-0-0	P	READER + PUNCH (PARTS LIST)	
X			E-AD-7006268-0-0	H	WIRED ASSY	
X			A-PL-7006268-0-0	H	WIRED ASSY	
X						
X			D-BS-PC04-CL-PNCH	1	PUNCH	
X			D-BS-PC04-CL-RD	1	READER & POWER SUPPLY	
X						
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, PN, 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
A M L

NUMBER
PC04-0

REV
H

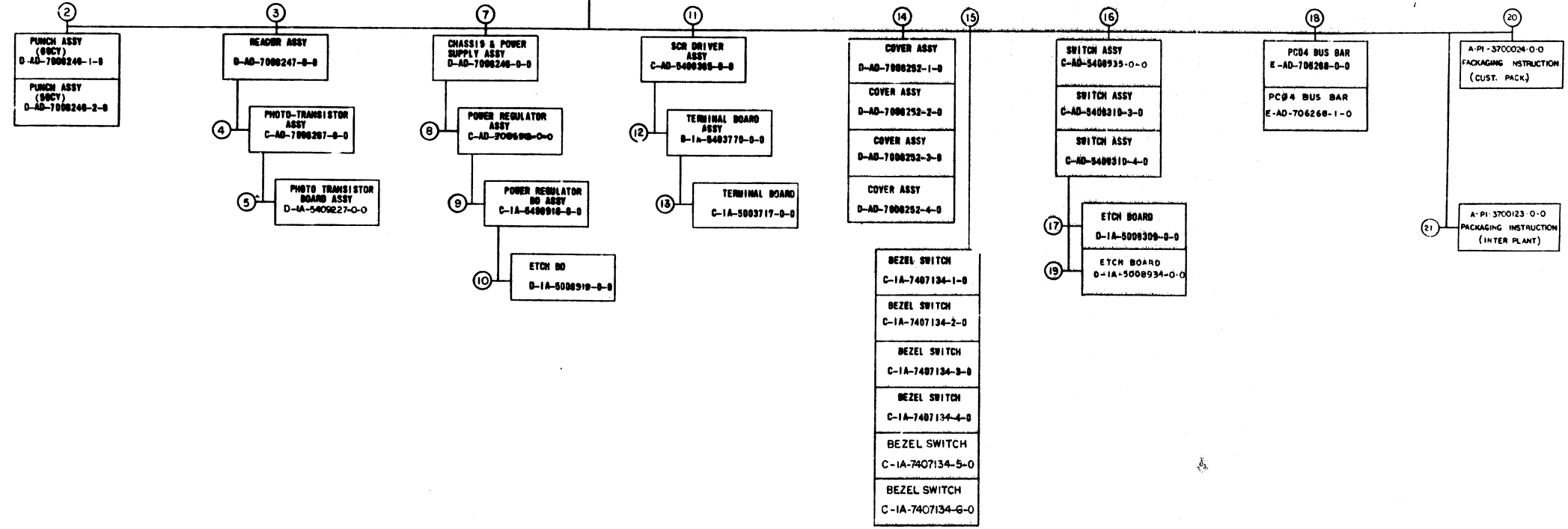
MPRA 132

DLC 16 (325) 1048 1 N471

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MODEL	DESCRIPTION	CY.	COMPOSITION																
			FIND NUMBER																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PC04-B, B04 BL	PUNCH & READER	80	-1	X	X	X	X	X	X	X	X	X	X	X	X	-1	-1	-4	X
PC04-BA, B04 BM	PUNCH & READER	50	-2	X	X	X	X	X	X	X	X	X	X	X	X	-1	-1	-4	X
PC04-C	PUNCH, READER, DRIVER	80	-1	X	X	X	X	X	X	X	X	X	X	X	X	-4	-4	-3	X
PC04-CA	PUNCH, READER, DRIVER	50	-2	X	X	X	X	X	X	X	X	X	X	X	X	-4	-4	-3	X
PC04-PA PL	PUNCH	80	-1						X	X	X	X	X	X	X	-2	-2	-2	X
PC04-PA & PH	PUNCH	50	-2						X	X	X	X	X	X	X	-2	-2	-2	X
PC04-R & RB	READER			X	X	X	X	X	X	X	X	X	X	X	X	-3	-3	-0	X

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



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

REV.	CHANGE NO.	REV.	DATE	BY	CHK.	APP.
1	PC04-00006	A	10/10/69	BECKNER		
2	PC04-00009	B	10/10/69	BECKNER		
3	PC04-00011	C	10/10/69	BECKNER		
4	PC04-00013	D	10/10/69	BECKNER		
5	PC04-00014	E	10/10/69	BECKNER		
6	PC04-00015	F	10/10/69	BECKNER		
7	PC04-00016	G	10/10/69	BECKNER		
8	PC04-00017	H	10/10/69	BECKNER		
9	PC04-00018	I	10/10/69	BECKNER		
10	PC04-00019	J	10/10/69	BECKNER		
11	PC04-00020	K	10/10/69	BECKNER		
12	PC04-00021	L	10/10/69	BECKNER		
13	PC04-00022	M	10/10/69	BECKNER		
14	PC04-00023	N	10/10/69	BECKNER		
15	PC04-00024	O	10/10/69	BECKNER		
16	PC04-00025	P	10/10/69	BECKNER		
17	PC04-00026	Q	10/10/69	BECKNER		
18	PC04-00027	R	10/10/69	BECKNER		
19	PC04-00028	S	10/10/69	BECKNER		
20	PC04-00029	T	10/10/69	BECKNER		
21	PC04-00030	U	10/10/69	BECKNER		

FIRST USED ON OPTION/MODEL
PC04

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
± .005 ± 1/64 ± 90°
FINAL SURFACE QUALITY
REMOVE BURNING AND BURNER MARKS
CUTTING

MATERIAL
FABRIC
SCALE
SHEET 1 OF 2

DATE
10/10/69
BY
BECKNER
CHK.
BECKNER
APP.
BECKNER

TITLE
**DRAWING INDEX
LIST, PC04**

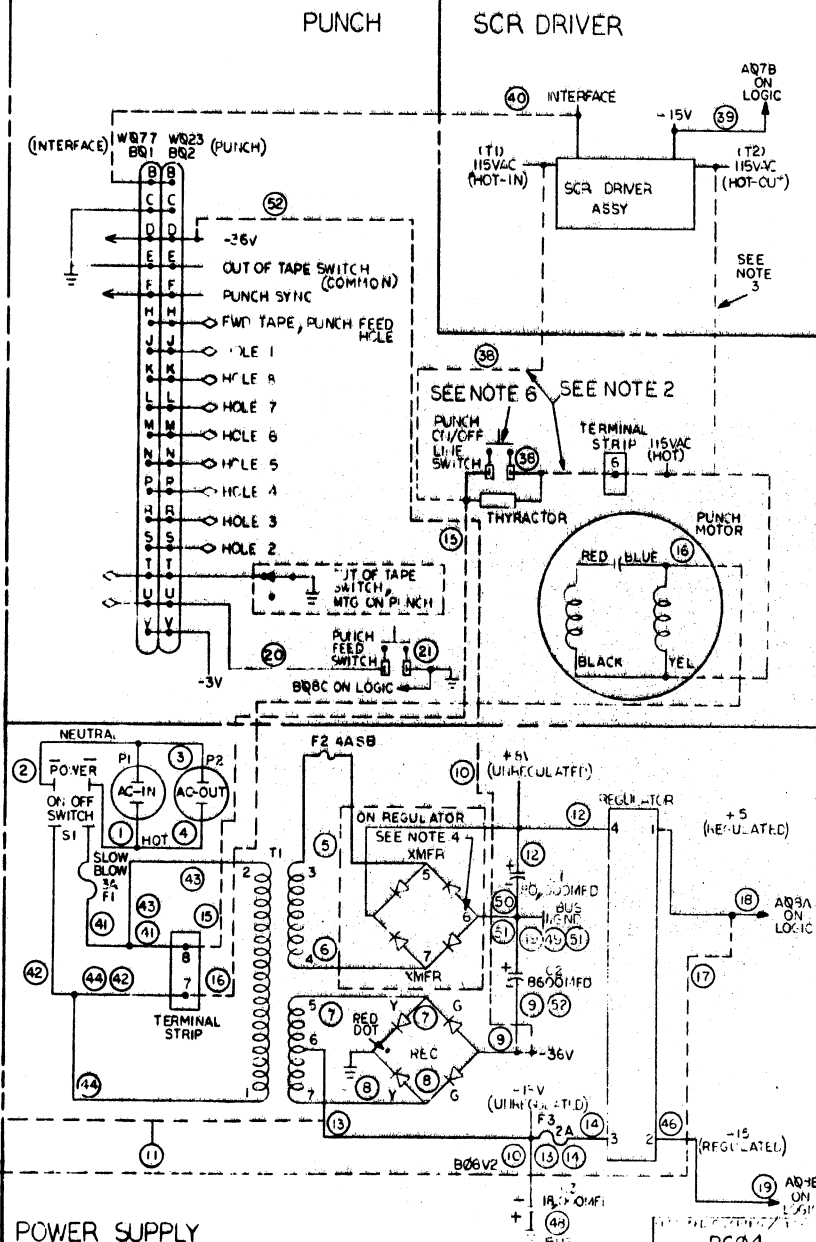
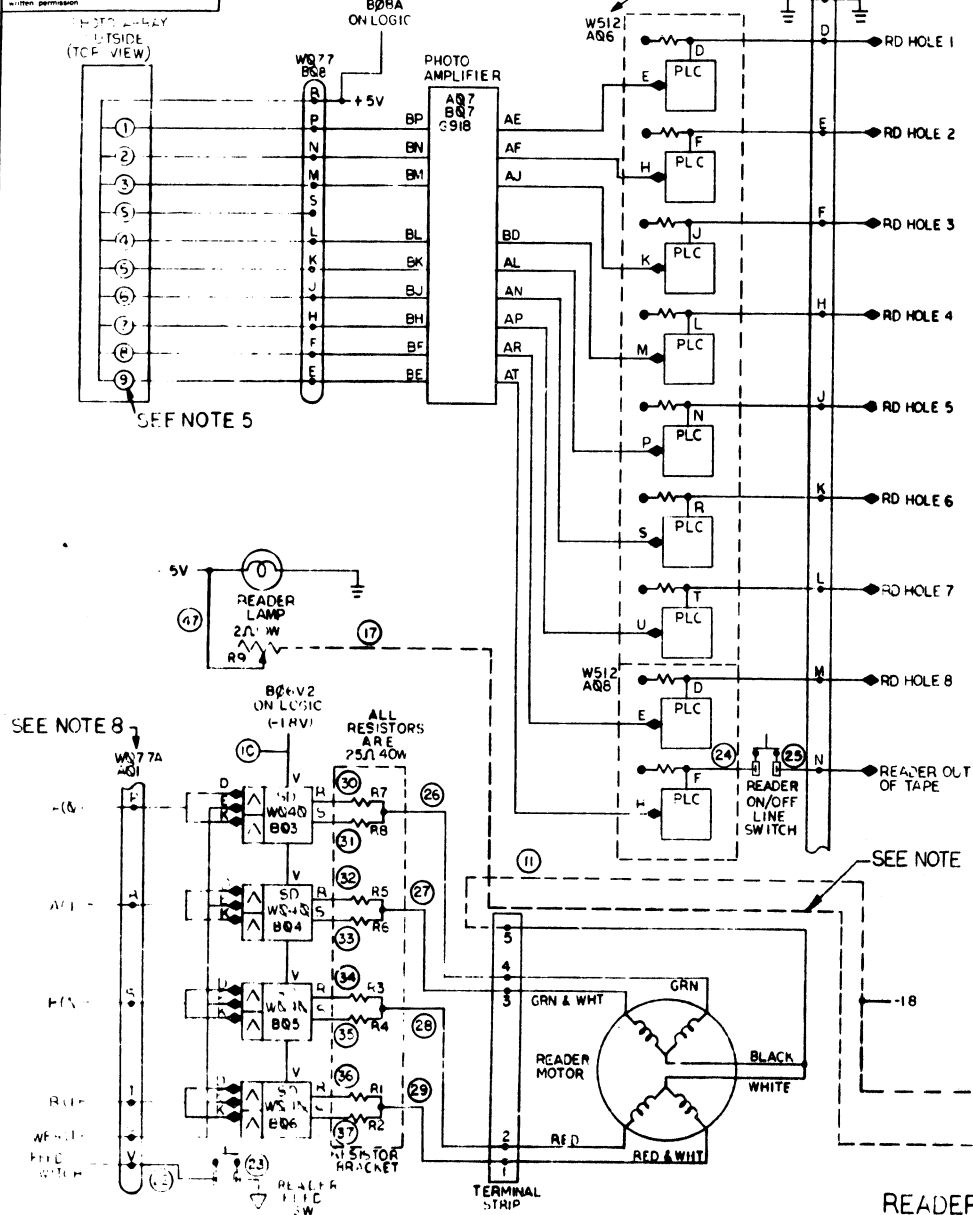
PARTS LIST
QTY. DESCRIPTION PART NO. ITEM NO.

REVISIONS
REV. CHANGE NO. REV. DATE BY CHK. APP.

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PC04-00031
PC04-00032
PC04-00033
PC04-00034
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PC04-00093
PC04-00094
PC04-00095
PC04-00096
PC04-00097
PC04-00098
PC04-00099
PC04-00100

1



NOTES:

1. DOTTED LINES INDICATE POSSIBLE CONNECTIONS BETWEEN POWER SUPPLY, FEEDER, PUNCH AND SCR DRIVER. SEE LEGEND.
2. WIRE NO. 39 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. THYRATOR NOT REQD.
7. CIRCLED NUMBERS 1 THRU 4 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	
23	WHITE-BLACK	46	GRAY-YELLOW
431-4351	BLACK	47	GRAY
52	BLUE		

LEGEND				
CONNECTIONS	MODEL			
	PC94 B PC94 BA	PC94 C PC94 CA	PC94 D PC94 DA	PC94 E PC94 EA
PWR SUP TO READER	45V 100mA LAMP 100 -18 TO T.S.S.	SAME AS PC94 B		SAME AS PC94 B
PWR SUP TO PUNCH	30 TO PUNCH TABLE 870 115V (100 TO PUNCH) 115 (100 TO 30) 115 (100 TO 30) 115 (100 TO 30)			
PWR SUP TO SCR DRVR SCR DRFR TO PUNCH		45V 100mA LAMP 100 -18 TO T.S.S.		
		INTERFACE TO PUNCH TO PUNCH		

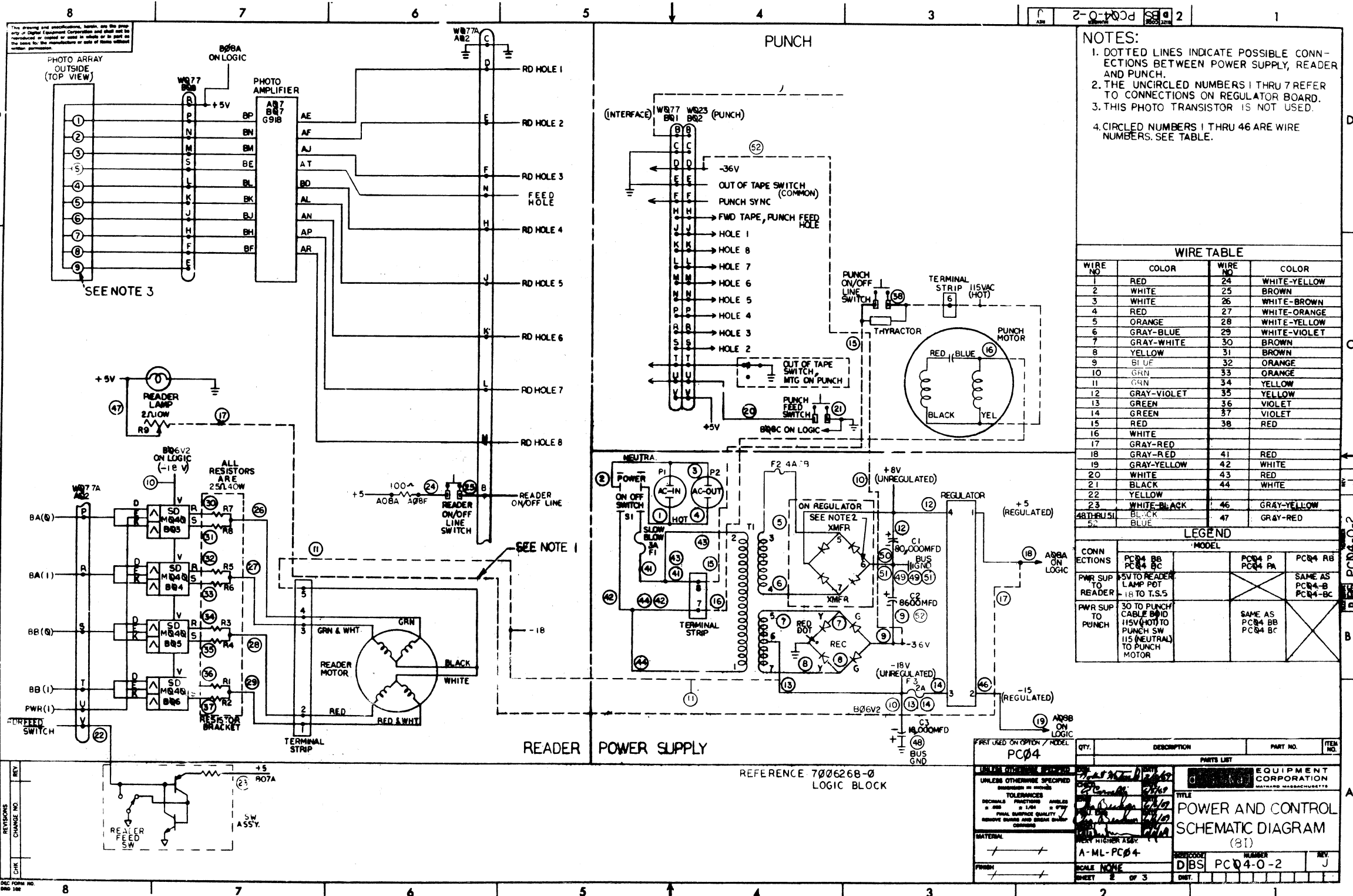
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NOTE 9: SEE NOTE 4 ON AD-7006268-O-O

REFERENCE: 7006268-0-0
LOGIC BLOCK

PCØ4		
UNLESS OTHERWISE SPECIFIED		
UNLESS OTHERWISE SPECIFIED		
DIMENSION IN INCHES		
TOLERANCES		
DECIMALS	FRACTIONS	ANGLES
± .005	± 1/64	± 0°30'
FINAL SURFACE QUALITY		
REMOVE BURRS AND BREAK SHARP CORNERS		
MATERIAL		
FINISH		

QTY.	DESCRIPTION	PART NO	ITEM NO.
PARTS LIST			
QTY.	DATE	EQUIPMENT CORPORATION	
QTY.	DATE	MAYNARD, MASSACHUSETTS	
TITLE		FEDERAL BUDGET CONTROL SCHEMATIC DIAGRAM	
QTY.			
DATE			
PART NUMBER			
A-ML-PC04			
SCALE NONE		SIZE CODE	NUMBER
D/B		10040-2	REV
SHEET 1 OF 3		DIST.	



- 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(NUTRAL) TO PUNCH MOTOR	SAME AS PC04 BB PC04 BC	

REV. NO.	REV.
8	
7	
6	
5	
4	
3	
2	
1	

REFERENCE 7006268-0 LOGIC BLOCK

PC04

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

TOLERANCES:

DECIMALS FRACTIONS ANGLES

± .005 ± 1/16 ± .005

FINISH SURFACE QUALITY

REMOVE BURRS AND BREAK SHARP EDGES

MATERIAL:

ALUMINUM

FINISH:

ANODIZED

QUANTITY:

DESCRIPTION:

PARTS LIST:

PART NO.:

ITEM NO.:

POWER AND CONTROL SCHEMATIC DIAGRAM (81)

A-ML-PC04

SCALE: NONE

SHEET 2 OF 3

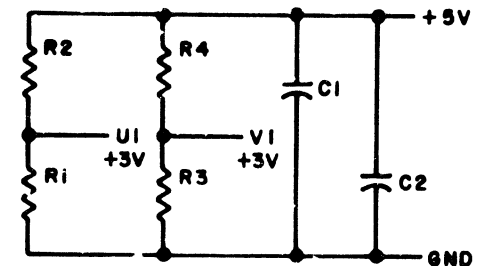
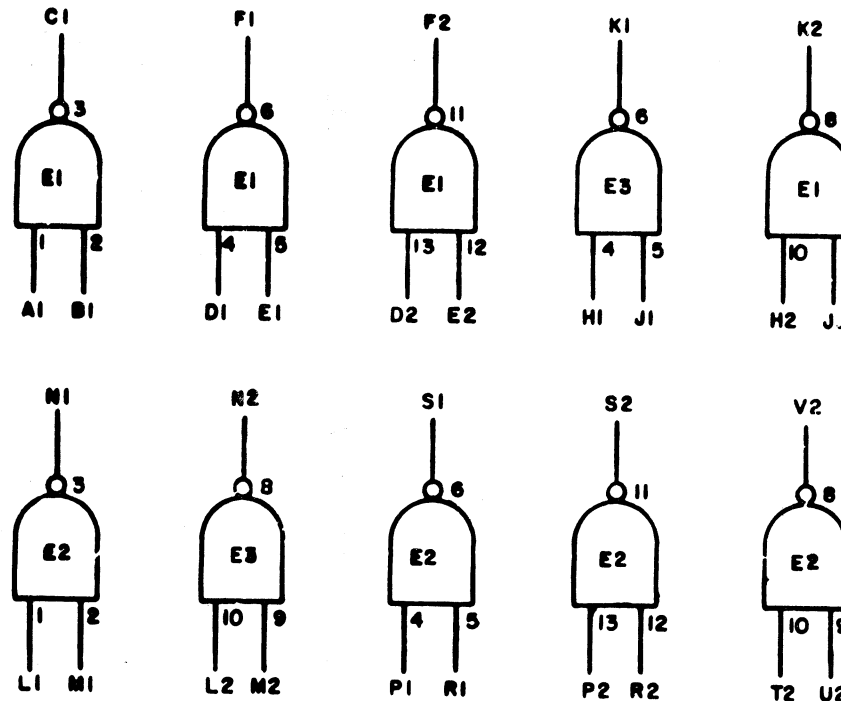
DATE: 10-1-60

REV. J

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REV. 0
NUMBER 1-0-1111
CS 8
SIZE 3000

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



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

E1 THRU E3	INTEGRATED CKT. DEC7400N	1905575
R1 AND R3	RES. 750 1/4W 5% CC	1301401
R2 AND R4	RES. 330 1/4W 10% CC	1300293
C1 AND C2	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-M13-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REV. 0	DATE 1-11-67
DES. NO. 100	DATE 1-11-67
CHK'D. 100	DATE 1-11-67
ENG. 100	DATE 1-11-67
PROD. 100	DATE 1-11-67

DATE 1-11-67	DATE 1-11-67
DATE 1-11-67	DATE 1-11-67
DATE 1-11-67	DATE 1-11-67
DATE 1-11-67	DATE 1-11-67

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

EQUIPMENT
CORPORATION
MAYNARD MASSACHUSETTS

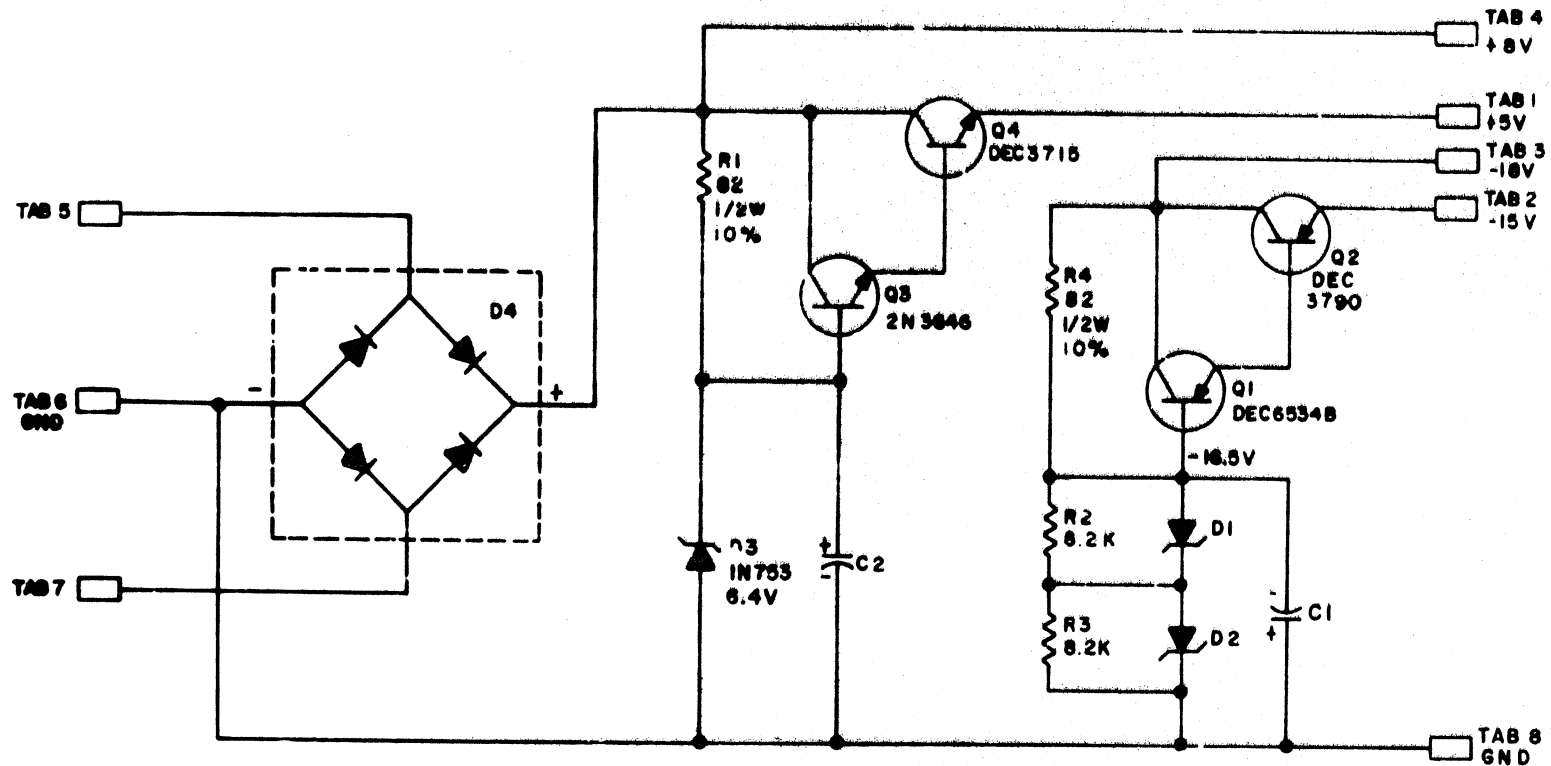
TITLE 10-2 INPUT NAND GATES M13.			
SIZE B	CODE CS	NUMBER M13-0-1	REV. C
PRINTED CIRCUIT REV D			

PINK

DIS. 100

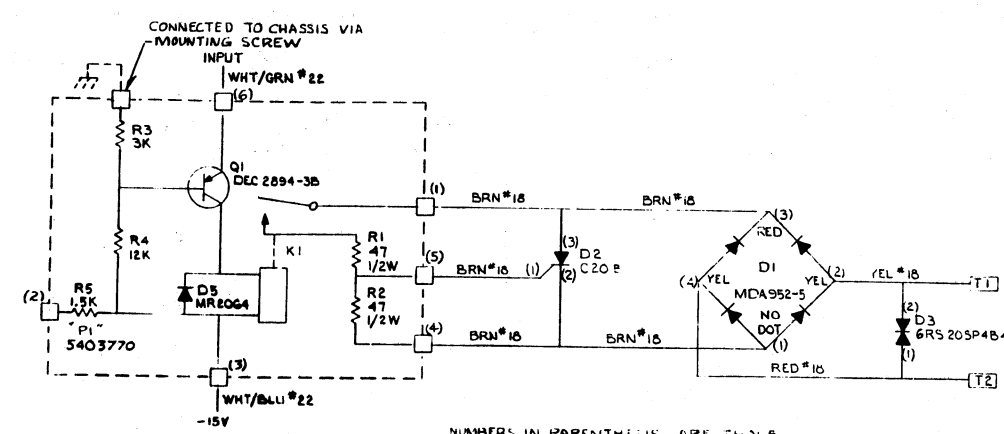
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REV C
NUMBER 5408308-0-1
CODE B
SIZE CS



UNLESS OTHERWISE INDICATED:
CAPACITORS ARE 0.01MFD 35V 20%
DIODES ARE IN756A, 0.2V
D4 IS MB400-3
RESISTORS ARE 1/4W 5%
TABS ARE AMP 41290

REVISIONS 1 00001 A 2 00002 B 3 00003 C				DATE 9-2-69 BY [Signature] CHECKED [Signature] DATE 9-2-69 BY [Signature]				TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>QIA</th> <th>DEC</th> <th>QIA</th> </tr> <tr> <td>IN756A</td> <td>2N3646</td> <td>IN756A</td> <td>2N3646</td> </tr> <tr> <td>IN756A</td> <td>2N3646</td> <td>IN756A</td> <td>2N3646</td> </tr> <tr> <td>IN756A</td> <td>2N3646</td> <td>IN756A</td> <td>2N3646</td> </tr> <tr> <td>IN756A</td> <td>2N3646</td> <td>IN756A</td> <td>2N3646</td> </tr> </table>				DEC	QIA	DEC	QIA	IN756A	2N3646	IN756A	2N3646	IN756A	2N3646	IN756A	2N3646	IN756A	2N3646	IN756A	2N3646	IN756A	2N3646	IN756A	2N3646	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				TITLE PCO POWER SUPPLY REGULATOR 5408308			
DEC	QIA	DEC	QIA																																				
IN756A	2N3646	IN756A	2N3646																																				
IN756A	2N3646	IN756A	2N3646																																				
IN756A	2N3646	IN756A	2N3646																																				
IN756A	2N3646	IN756A	2N3646																																				
SIZE B		CODE CS		NUMBER 5408308-0-1		REV C		PRINTED CIRCUIT REV. D																															



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

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

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
DRN DATE CHKD DATE ENG DATE PROJ. ENG. DATE PROD. DATE				
NEXT HIGHER ASSY				
DEC NO. EIA NO. DEC NO. EIA NO.				
SEMICONDUCTOR CONVERSION CHART				
SCALE SHEET OF DIST.				

digital EQUIPMENT CORPORATION

WATFORD MASSACHUSETTS

TITLE

SCR DRIVER ASSY

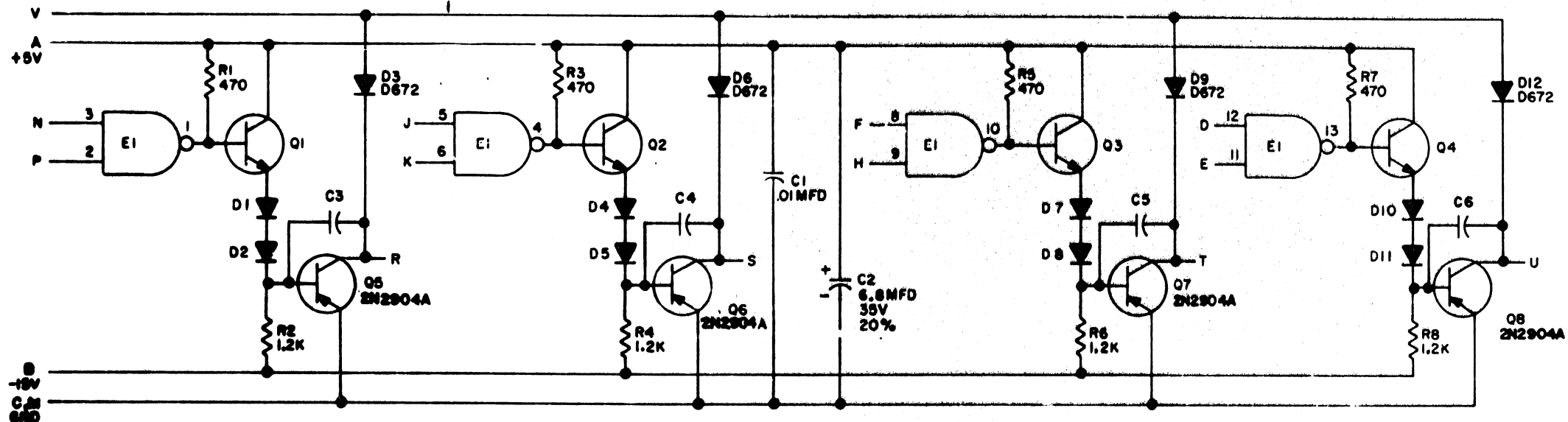
SIZE CODE

NUMBER

REV.

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REV C
NUMBER M044-0-1
SIZE B
CODE CS
3215

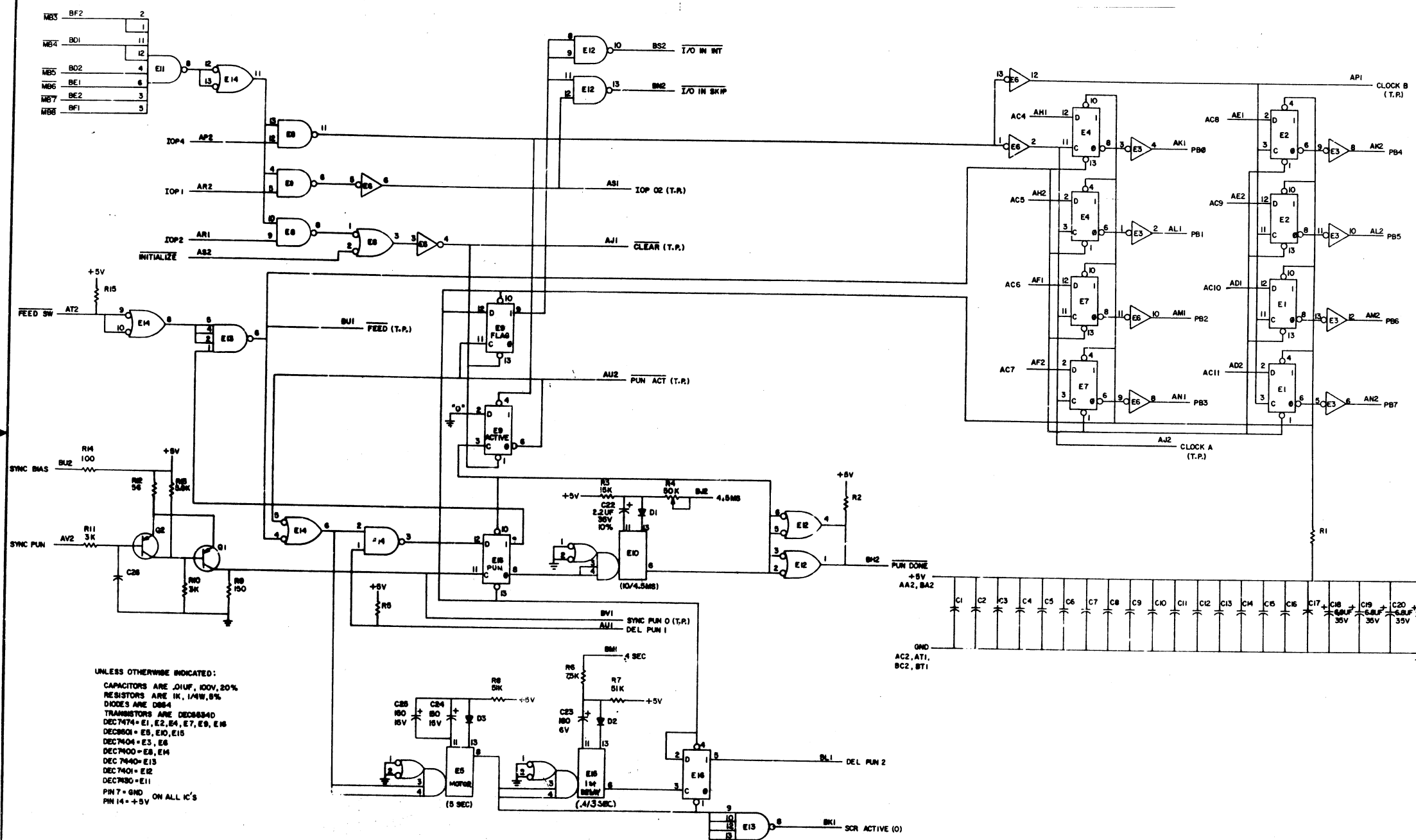


UNLESS OTHERWISE INDICATED.
RESISTORS ARE 1/4W, 5%
DIODES ARE 9664
E1 IS DEC7401N
TRANSISTORS ARE DEC3009B
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
CAPACITORS ARE 100pF, 100V, 5%

REV C		DATE 4/23/69		TRANSISTOR & DIODE CONVERSION CHART		TITLE 4-100MA SOLENOID DRIVER M044	
DESIGN	REV	DATE	DATE	DEC	EIA	DEC	EIA
1.0	1.0	4/23/69	4/23/69	DEC3009B	2N2904A	DEC3009B	2N2904A
PROD.				EQUIPMENT CORPORATION		SIZE B CODE CS	
DATE				MAYNARD, MASSACHUSETTS		NUMBER M044-0-1	
						REV C	
						PRINTED CIRCUIT REV	

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1-0-Q1/W S3 0 2002 1/15

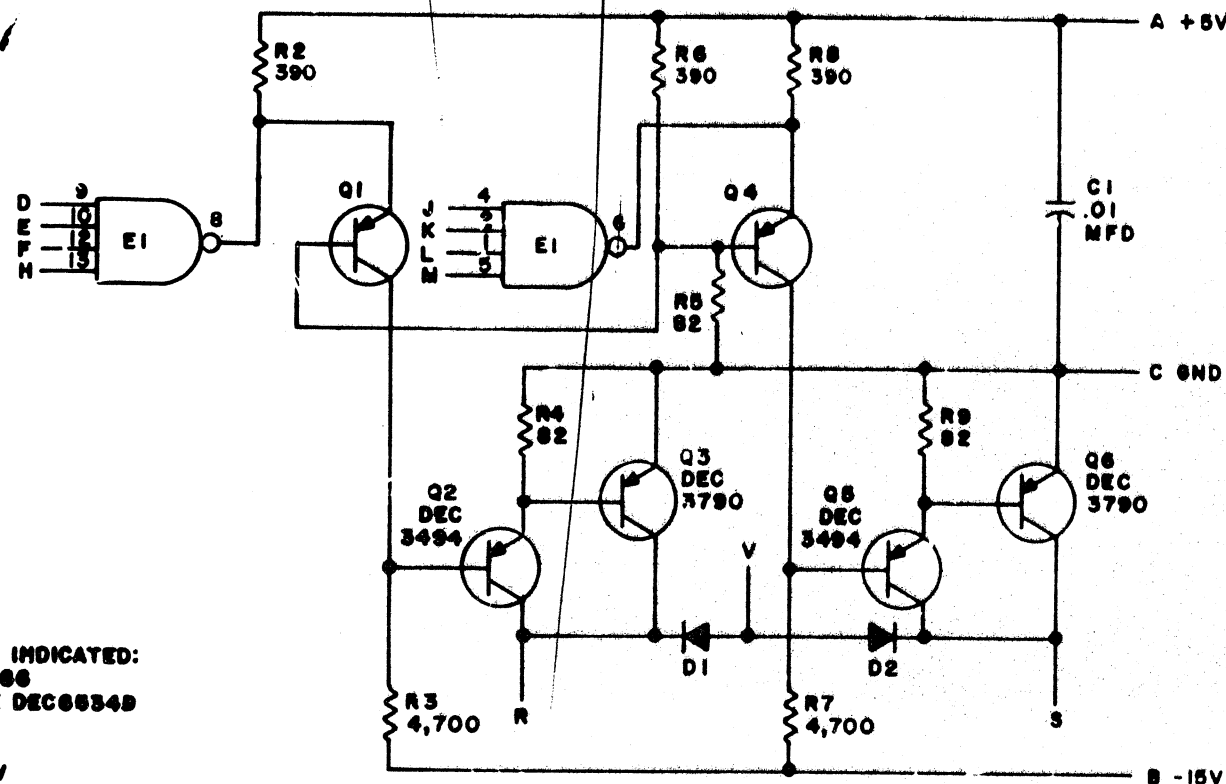


UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01UF, 100V, 20%
 RESISTORS ARE 1K, 1/4W, 5%
 DIODES ARE 1N4148
 TRANSISTORS ARE 2N3904
 DEC7474 = E1, E2, E4, E7, E9, E16
 DEC7404 = E3, E6
 DEC7400 = E8, E14
 DEC7440 = E13
 DEC7401 = E12
 DEC7480 = E11
 PIN 7 = GND ON ALL IC'S
 PIN 14 = +5V

TRANSISTOR & DIODE CONVERSION CHART				EQUIPMENT CORPORATION				PUNCH CONTROL M710			
SYMBOL	MANUFACTURER	PART NUMBER	REMARKS	DATE	BY	CHKD	REV	DATE	BY	CHKD	REV
7474	DEC	7474									
7404	DEC	7404									
7400	DEC	7400									
7440	DEC	7440									
7401	DEC	7401									
7480	DEC	7480									

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



UNLESS OTHERWISE INDICATED:
DIODES ARE MR2066
TRANSISTORS ARE DEC3494
E1 IS 82C7480N
PIN 7 ON IC = GND
PIN 14 ON IC = +5V
RESISTORS ARE 1/4W, 10%

PARTS LIST A-PL-M040-0-0

REVISIONS	CHK	ENG	NO	REV
				E
				00001
				00002

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

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3494	3494		
DEC3790	3790		
DEC3940	3940		
DEC3940	3940		
MR2066	2066		
MR2066	2066		

EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

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

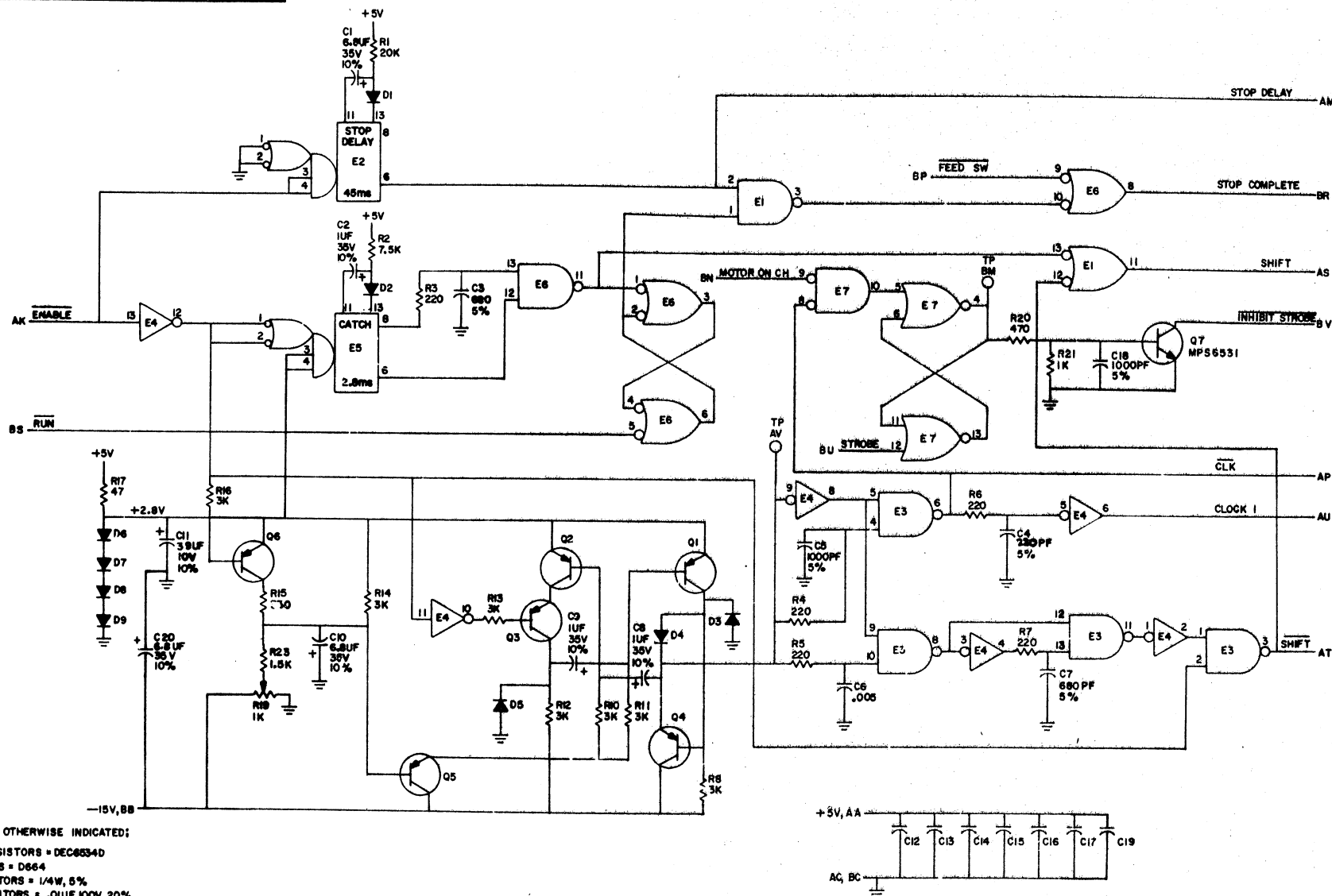


FORM NO.

TITLE READER CONTROL			
DATE D	CODE CS	NUMBER M750-0-1	REV E

DATE D	CODE CS	NUMBER M7050-0-1	REV E
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UNLESS OTHERWISE INDICATED:
 TRANSISTORS - DEC634D
 DIODES - D644
 RESISTORS - 1/4W, 5%
 CAPACITORS - .01UF, 100V, 20%
 E1, E3, E6 - DEC7400
 E4 - DEC7404
 E2, E5 - DEC9601
 PIN 7 = GND ON ALL IC'S
 PIN 14 = +5V ON ALL IC'S
 E7 - DEC7402

REV	DATE	BY	CHKD	REV	DATE	BY	CHKD
1	10/16/67	AY	00002	1	10/16/67	AY	00002
2	11/2/67	AY	00003	2	11/2/67	AY	00003
3	11/2/67	AY	00004	3	11/2/67	AY	00004
4	11/2/67	AY	00005	4	11/2/67	AY	00005
5	11/2/67	AY	00006	5	11/2/67	AY	00006
6	11/2/67	AY	00007	6	11/2/67	AY	00007
7	11/2/67	AY	00008	7	11/2/67	AY	00008

DEC FORM NO. 102

DRN	DATE	DATE	DATE	DATE	DATE	DATE	DATE
M. MALLER	10/16/67	10/16/67	10/16/67	10/16/67	10/16/67	10/16/67	10/16/67
R. SILVERMAN	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67
E. SILVERMAN	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67
PROD.	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC634D	2N3638	DEC634D	2N3638
DEC634D	2N3638	DEC634D	2N3638
DEC634D	2N3638	DEC634D	2N3638
DEC634D	2N3638	DEC634D	2N3638
DEC634D	2N3638	DEC634D	2N3638
DEC634D	2N3638	DEC634D	2N3638

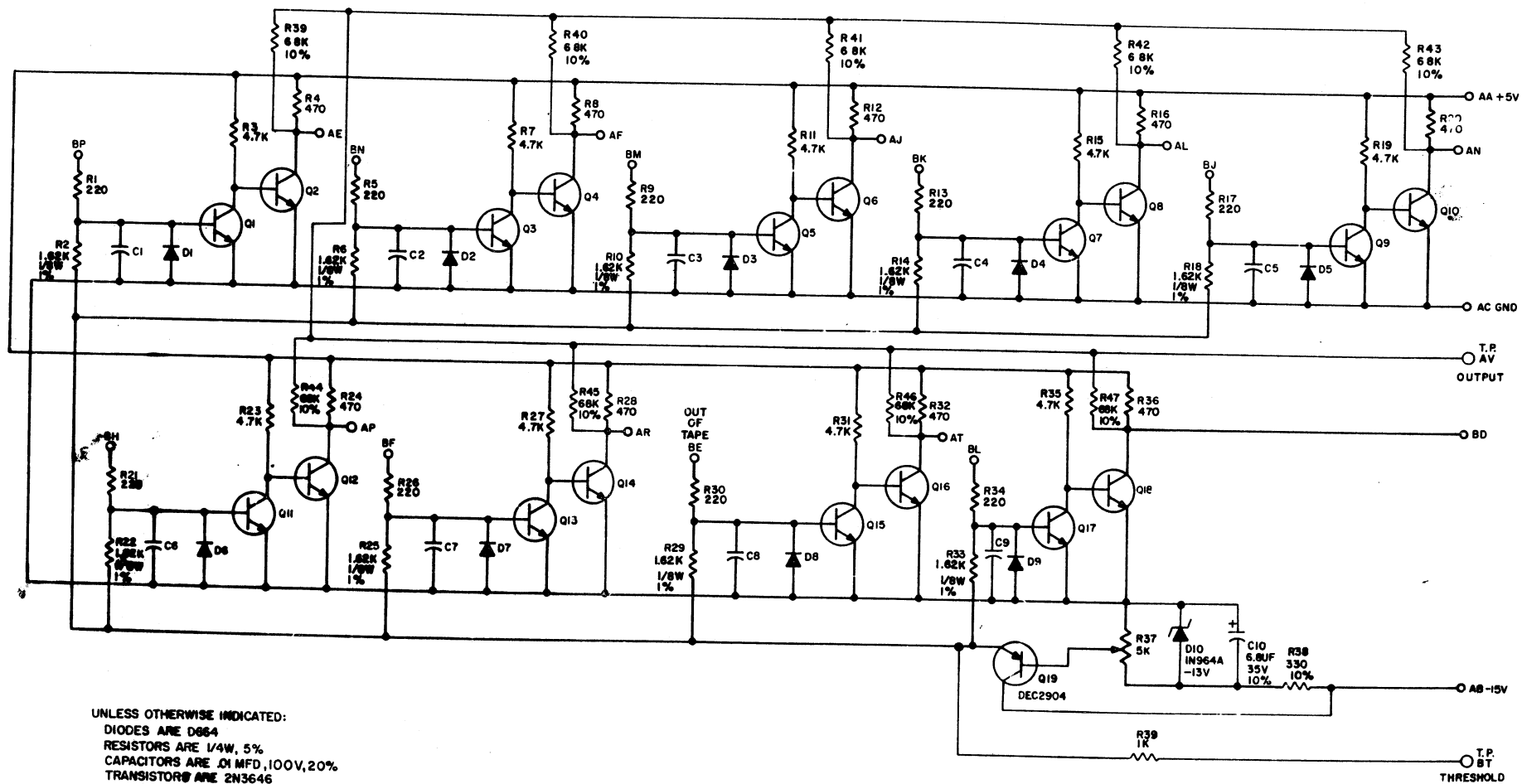
EQUIPMENT CORPORATION	
MAYNARD, MASSACHUSETTS	01901

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

DIST. 324,434,435

4 PINK

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

REV	CHG	NO.	REV.
1	00001	00002	00003

DEC FORM NO. DRC 102

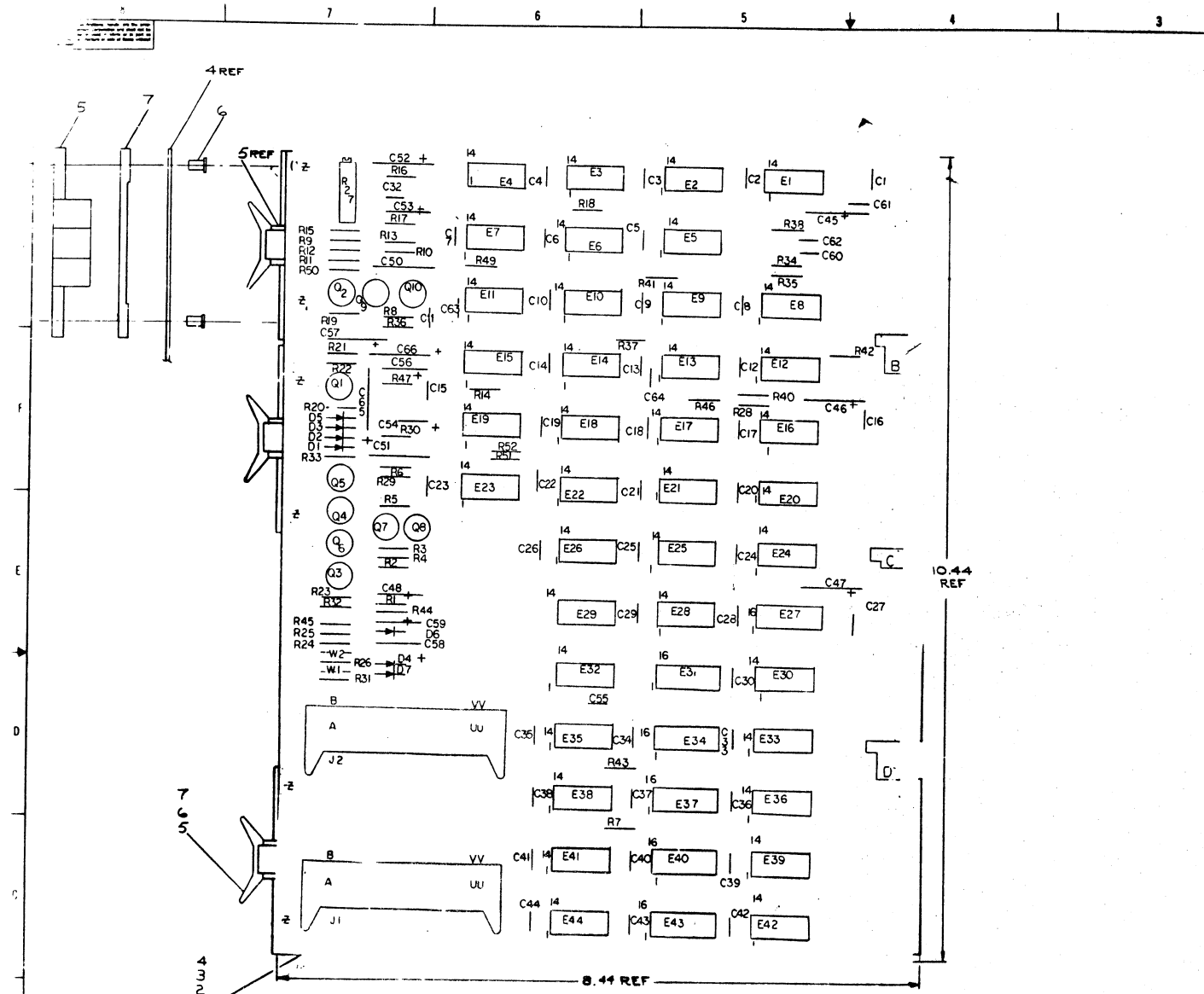
DRN	DATE
REVISED	4/1/69
CHK'D	6/1/69
ENG	6/1/69
PROD.	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
2N3646	2N3009	IN964A -13V	SAME
D664	IN3308	DEC2904	2N1132

DIGITAL EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

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

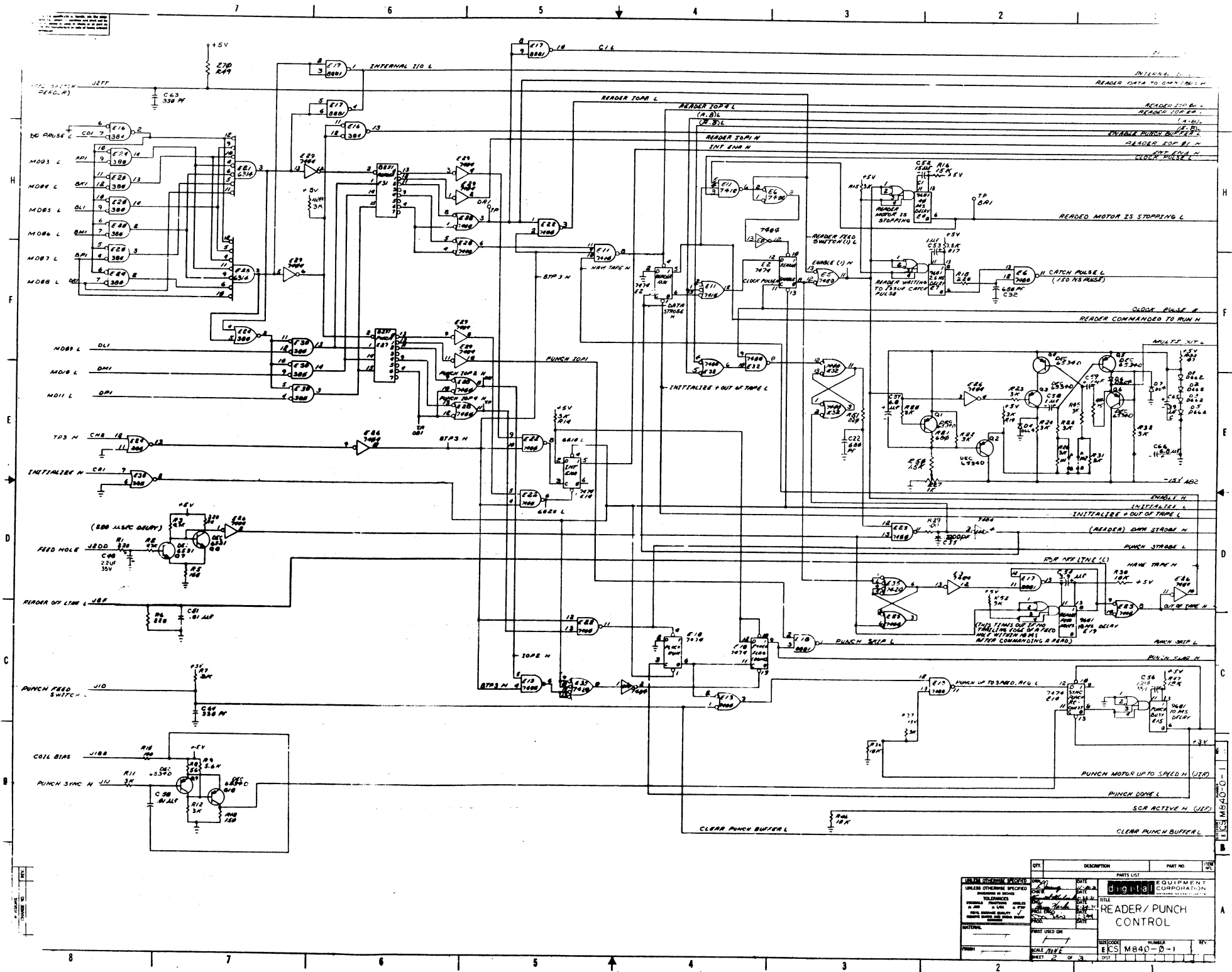


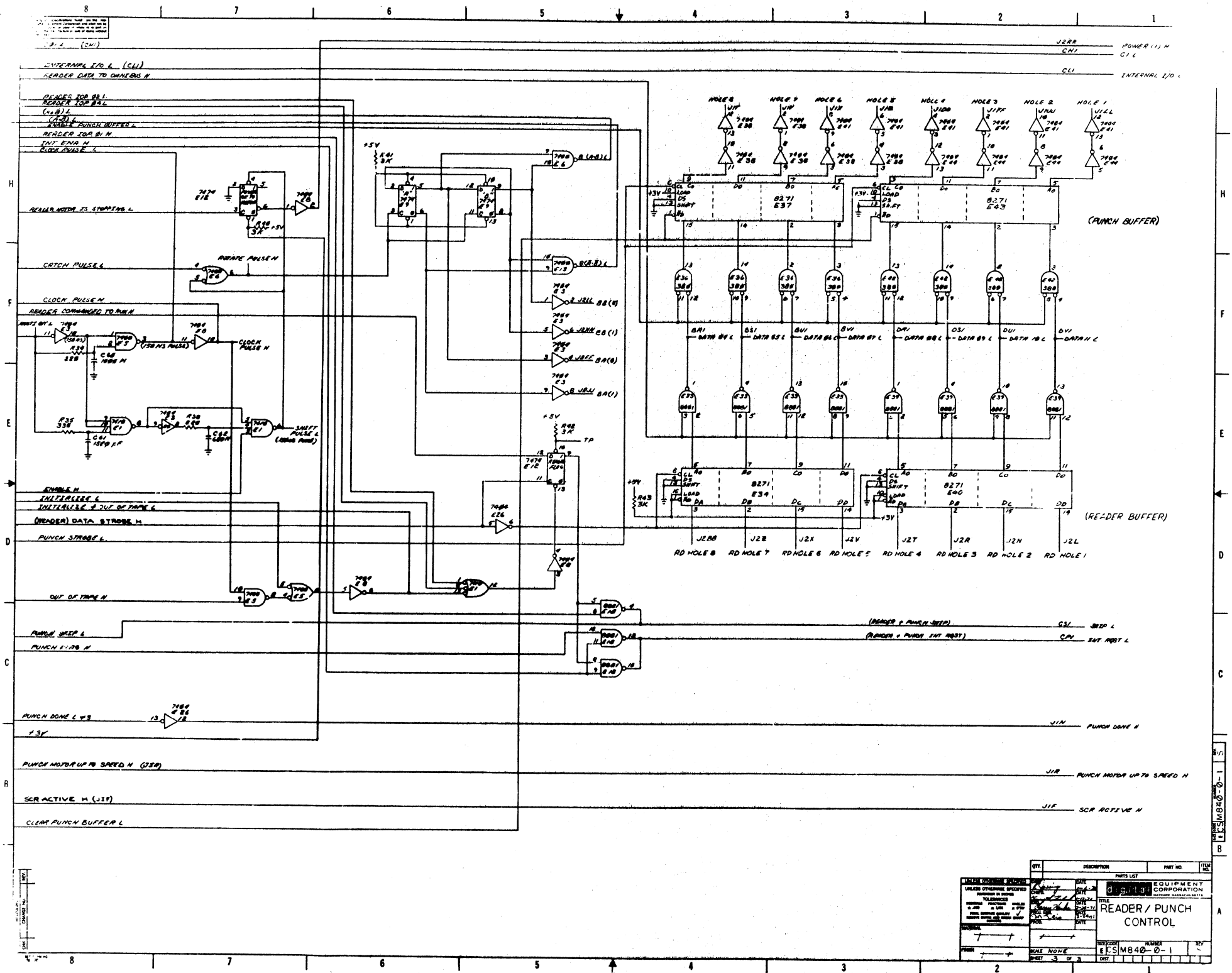
ITEM NO.	QTY	UNIT	DESCRIPTION	DATE
1	1	PCB	PCB 10.44 REF	10/1/71
2	1	PCB	PCB 8.44 REF	10/1/71
3	1	PCB	PCB 7.44 REF	10/1/71
4	1	PCB	PCB 6.44 REF	10/1/71
5	1	PCB	PCB 5.44 REF	10/1/71
6	1	PCB	PCB 4.44 REF	10/1/71
7	1	PCB	PCB 3.44 REF	10/1/71
8	1	PCB	PCB 2.44 REF	10/1/71
9	1	PCB	PCB 1.44 REF	10/1/71
10	1	PCB	PCB 0.44 REF	10/1/71

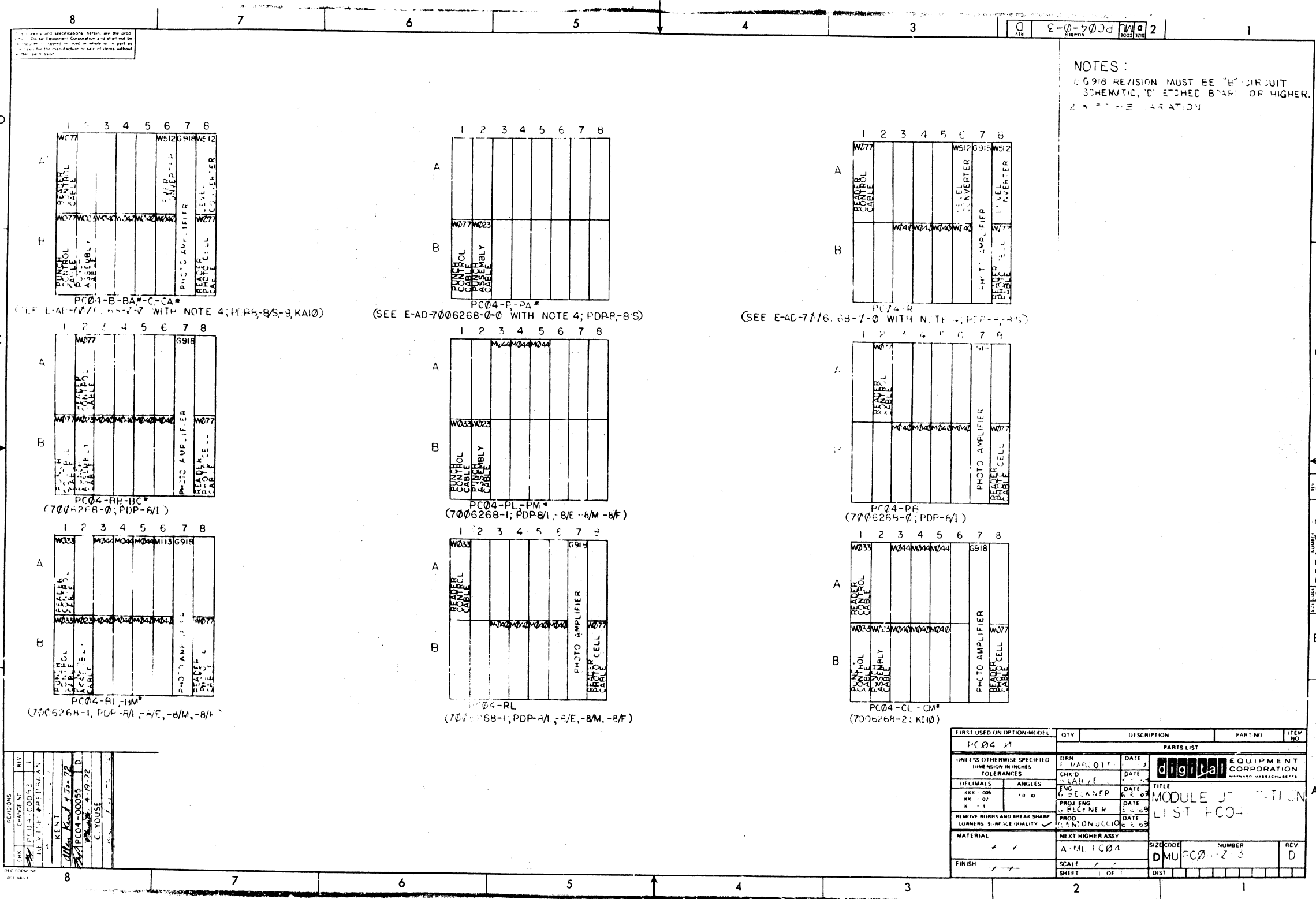


ITEM NO.	QTY	UNIT	DESCRIPTION	DATE
1	1	PCB	PCB 10.44 REF	10/1/71
2	1	PCB	PCB 8.44 REF	10/1/71
3	1	PCB	PCB 7.44 REF	10/1/71
4	1	PCB	PCB 6.44 REF	10/1/71
5	1	PCB	PCB 5.44 REF	10/1/71
6	1	PCB	PCB 4.44 REF	10/1/71
7	1	PCB	PCB 3.44 REF	10/1/71
8	1	PCB	PCB 2.44 REF	10/1/71
9	1	PCB	PCB 1.44 REF	10/1/71
10	1	PCB	PCB 0.44 REF	10/1/71

ITEM NO.	QTY	UNIT	DESCRIPTION	DATE
1	1	PCB	PCB 10.44 REF	10/1/71
2	1	PCB	PCB 8.44 REF	10/1/71
3	1	PCB	PCB 7.44 REF	10/1/71
4	1	PCB	PCB 6.44 REF	10/1/71
5	1	PCB	PCB 5.44 REF	10/1/71
6	1	PCB	PCB 4.44 REF	10/1/71
7	1	PCB	PCB 3.44 REF	10/1/71
8	1	PCB	PCB 2.44 REF	10/1/71
9	1	PCB	PCB 1.44 REF	10/1/71
10	1	PCB	PCB 0.44 REF	10/1/71







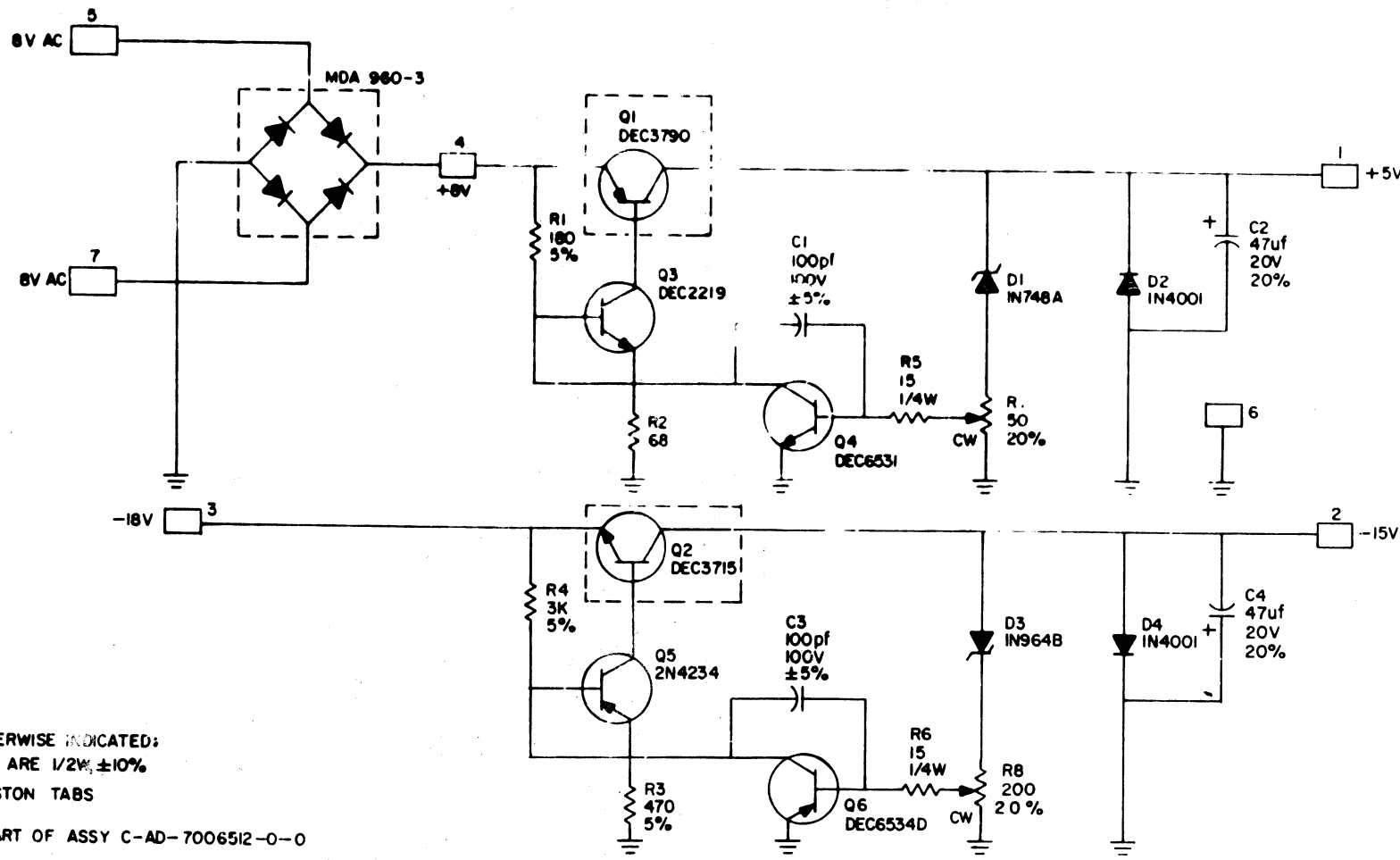
NOTES:
1. G918 REVISION MUST BE THE CIRCUIT SCHEMATIC, D ETCHED BOARD OF HIGHER.
2. ...

REV	DATE	BY	CHK	APP
1	4-17-72	...	...	...
2	4-19-72	...	...	...
3	4-19-72	...	...	...

FIRST USED ON OPTION/MODEL		QTY	DESCRIPTION	PART NO	ITEM NO
PC04-1					
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		DRN	DATE	PARTS LIST	
OF DIMS		CHK'D	DATE	digital EQUIPMENT CORPORATION	
ANGLES		ENG	DATE	TITLE	
REMOVE BURRS AND BREAK SHARP CORNERS TO SPECIFIED QUALITY		PROJ ENG	DATE	MODULE J-1	
MATERIAL		PROD	DATE	LIST PC04	
FINISH		NEXT HIGHER ASSY		SIZE CODE	
		A-M L PC04		NUMBER	
		SCALE		REV	
		SHEET 1 OF 1		D	

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REV A 5408918-0-1 CS B



UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/2W ±10%

□ = FASTON TABS

□ = PART OF ASSY C-AD-7006512-0-0

REVISIONS
CHK CHG NO REV

DRN
NARLEY MOORE
DATE
7/8/70
CHK'D
DATE
9/1/70
ENG
DATE
9/12/70
PROD
DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3790-2	2N3790	DEC6531	MP6531
DEC2219	2N2219	IN748A	SAME
DEC3715	2N3715	IN964B	SAME
2N4234	2N4234	IN4001	SAME
DEC6534D	MP6534		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE PCO REGULATOR
5408918

SIZE CODE NUMBER REV
B CS 5408918-0-1 A

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 11/11/69

TITLE PC04 Engineering Specification					
REVISIONS					
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY
A		0006	M. LEIS		3-1759

General Information:

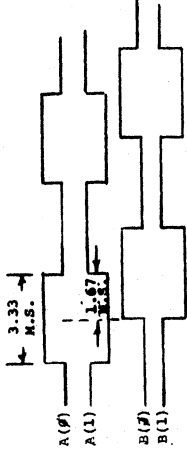
The PC04 comes in eight (8) configurations. They are the PC04P, PL (basic punch), PC04R, RB (basic reader), PC04S, RS, RL (punch and reader), and PC04C (punch, SCR, and reader). The 50 cycle variations are PC04PA, PM; PC04RA, RC. " and PC04CA with no variation in PC04R and RB. Table I-1 gives the block schematic references, UML, interface cables, and the applicable computers.

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

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

Reader Signals:
Reference drawing MS-D-PC04-0-2
(1) A(0), A(1), B(0), and B(1) are the signals used to drive the stepping motors via the four solenoid drivers.

The timing chart and graph for these signals would be:



ENG Charles A. Jones APPR Joe Becker
DEC FORM NO. 104
DRA 104

SIZE CODE
A SP

NUMBER
PC04-0-4

REV
A

SHEET 1 OF 7

TITLE PC04 Engineering Specification

CONTINUATION SHEET

- (5) The eight data holes also require a 10 msec. level to activate the punches.
 - (6) Out-of-tape signal is generated from a micro-switch on the punch. It is at ground when the punch is out-of-tape.
 - (7) Punch feed switch is used to manually feed tape through the punch.
 - (8) The -3 volt or +5v supply is a bias on the punch sync coil.
 - (9) The punch on/off power switch is used in the options not using the SCR driver. It simply supplies 115 volts to the punch motor.
- Power Supply**
- (1) Regulated +5 volts ± 0.25 volts
 - (2) Regulated -15 volts ± 1.0 volt
 - (3) -36 volts ± 4 volts
- Power Requirements**
Unit will run at 50 or 60 cycles, 115 volts $\pm 10\%$. 2.5 AMPS surge
4 AMPS surge
- Reader**
- (a) Temperature
(1) 55° - 110°F operating, 10° - 150°F non-operating
- (b) Humidity
(1) 20% - 95% w/o condensation operating; 5% - 95% w/o condensation non-operating.
- (c) Speed
(1) 300 - 310 characters/second full speed.
(2) 20 - 26 character/second single character rate.
- (d) Type of tape
(1) non-oi (less than 12% transmissivity)
- (e) Tape Life: Acceleration de-accelerate type operation = 30,000 cycles.

DEC FORM NO. 104
DRA 104

SIZE CODE
A SP

NUMBER
PC04-0-4

REV
A

SHEET 3 OF 7

TITLE PC04 Engineering Specification

CONTINUATION SHEET

- (2) Power (1) serves the function of supplying only half current to the stepping motor when the motor is stopped. This signal is 0 volts when the motor is stopped and -3 volts when the motor is active for negative logic systems and +2.0 volts when motor is active A.I <+0.8 v when the motor is stopped for positive logic systems.
 - (3) The reader feed switch is simply an off line means of moving tape through the reader. A ground level performs this function.
 - (4) The reader on/off line switch allows the operator to disable the unit from reading by putting the switch in the off-line position.
 - (5) The reader on/off line switch is open whenever the reader is off line, and is >2.4v when the reader is on line.
 - (6) Data Output Lines:
Hole No Hole
Negative Systems -3 volts g volts
Positive Systems +2.4 volts 0 volts
- Punch Signals:**
Refer to drawing MS-D-PC04-0-2
- (1) The interface signal used to turn on the punch motor with an SCR driver option is Gnd when active and open or -3v when inactive.
 - (2) The -36 volt is supplied to the solenoid coils on the punch motor and also to the solenoid drivers at the external control.
 - (3) Punch sync is the signal generated from the sync timing wheel on the punch. Equally spaced (in time) positive and negative pulses (one each) for each shaft revolution is generated on this line.
 - (4) Forward tape and punch feed hole: A ground level for 10 msec. 20% will punch feed hole and then advance the tape forward in preparation for another cycle for all configurations except PC04P and RL when the solenoid drivers are activated by a +2.0v signal.

DEC FORM NO. 104
DRA 104

SIZE CODE
A SP

NUMBER
PC04-0-4

REV
A

SHEET 2 OF 7

TITLE PC04 Engineering Specification

CONTINUATION SHEET

- Punch**
- (a) Temperature
(1) 55° - 110°F operating; 10° - 150°F non-operating
- (b) Humidity
(1) 20% - 95% w/o condensation - operating
(2) 5% - 95% w/o condensation - non-operating
- (c) Tension of tape supply
(1) Not to exceed 6 ounces
- (d) Speed
(1) 50 characters/second $\pm 5\%$
- Magnetic**
- +5v is +5v $\pm 5v$
-15v is -15v $\pm 20\%$
-30v is -36v $\pm 10\%$

DEC FORM NO. 104
DRA 104

SIZE CODE
A SP

NUMBER
PC04-0-4

REV
A

SHEET 4 OF 7

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

DEC FORM NO 16-1022
DMA 106

SHEET 5 OF 7

ENGINEERING SPECIFICATION		SIZE CODE		REV	
TITLE PC#4 Engineering Specification - Test Procedure for Reader		PCO4-0-4		A	
CONTINUATION SHEET		SIZE CODE		REV	
TITLE PC#4 Engineering Specification - Test Procedure for Reader		PCO4-0-4		A	
B. -15 volts on A#8B and B#8B (± 1 volts).		SIZE CODE		REV	
C. -30 volts on B#6V and B#2D (-32 to -40 volts).		PCO4-0-4		A	
3. Shut power off and insert modules for PC#4.		SIZE CODE		REV	
4. Apply power and make same check as in 2.		PCO4-0-4		A	
5. Put cap. (6.8uf, 10-5306) between pins A#3A (+) and A#3C (-) and between pins B#3C (+) and B#3B (-).		SIZE CODE		REV	

DEC FORM NO 16-1022
DMA 106

SHEET 7 OF 7

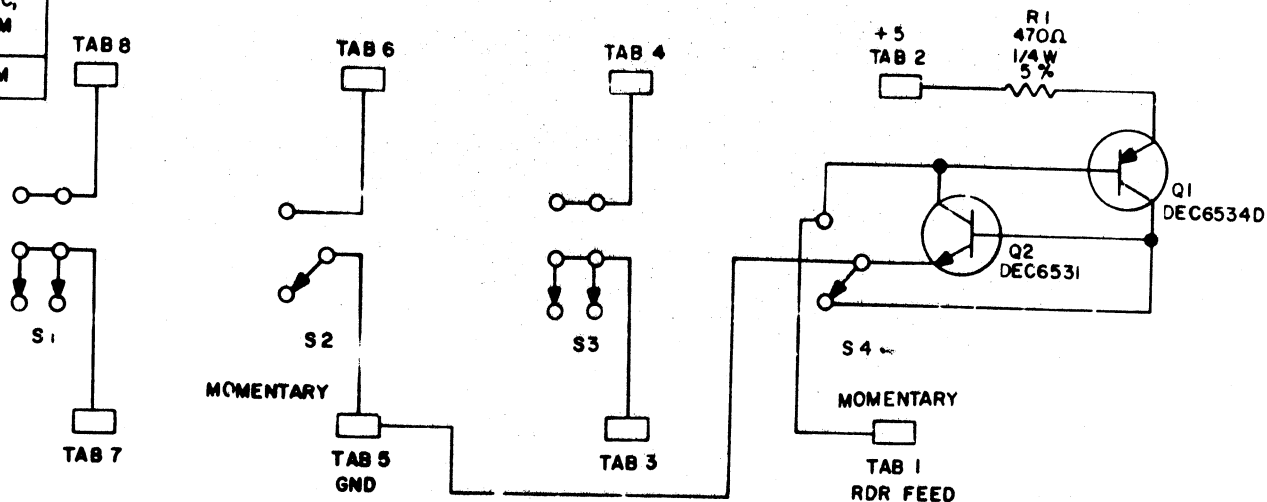
CONTINUATION SHEET		SIZE CODE		REV	
TITLE PC#4 Engineering Specification - Test Procedure for reader		PCO4-0-4		A	
CONTINUATION SHEET		SIZE CODE		REV	
TITLE PC#4 Engineering Specification - Test Procedure for reader		PCO4-0-4		A	
1. Do not apply power until the following checks are made.		SIZE CODE		REV	
a. Logic block empty.		PCO4-0-4		A	
b. A#1A, A#2A, A#1B, A#2B, B#1A, and B#2A are bare (no wiring or bussing).		SIZE CODE		REV	
c. B#1B and B#2B should be bussed together without any wires on them except for the PC#4C configuration when a white/green wire will be on B#1B.		PCO4-0-4		A	
d. Remove reader lamp.		SIZE CODE		REV	
e. Check caps for proper polarity in wiring.		PCO4-0-4		A	
f. Put ohmmeter on X100 scale and check regulator board tabs 1 thru 5 and 7 for lack of short to ground. Tabs 6 and 8 should indicate a short to ground.		SIZE CODE		REV	
g. Check fuses for proper rating. Also, should be s/o/b'o.		PCO4-0-4		A	
h. Check for continuity between reader lamp ground slot and chassis ground.		SIZE CODE		REV	
i. Check the following wires for proper connection.		PCO4-0-4		A	
Color	Location	Color	Location	REV	
+black (str)	B#8C	*wh/blue	A#7B	A	
*wh/black (str)	B#7C	*wh/green	B#1B	A	
#brown (str)	A#7B	#brown (solid)	B#3R, S	A	
*yellow (str)	A#1V	*orange (solid)	B#4R, S	A	
*wh/yellow (str)	A#8F	*yellow (solid)	B#5R, S	A	
+white (str)	B#1U	*violet (solid)	B#6R, S	A	
grey/red (str)	A#8A	+punch configurations		A	
grey/yellow (str)	A#8B	*only on PC#4C configuration		A	
blue (str)	B#6V	*reader configurations		A	
j. Put reader lamp back in position making sure that the tension on the lamp is sufficient for good contact.		SIZE CODE		REV	
2. Apply AC power to the unit and check.		PCO4-0-4		A	
a. +5 volts on A#8U and B#8A (+5 volts $\pm .25$ volts).		SIZE CODE		REV	

DEC FORM NO 16-1022
DMA 106

SHEET 6 OF 7

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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 # 1208341
S2, S4 ARE ROCKER # 1208375
TABS ARE FASTON TAB 41290 AMP

REVISIONS	CHK	ENG	REV
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5

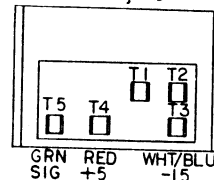
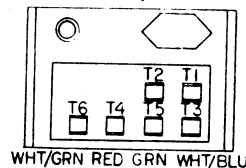
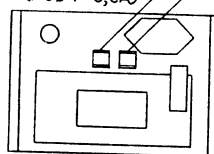
DESIGNED	DATE
CHK'D	DATE
APP'D	DATE
REV'D	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
2N2222	2N2222	2N2222	2N2222
2N2222	2N2222	2N2222	2N2222
2N2222	2N2222	2N2222	2N2222
2N2222	2N2222	2N2222	2N2222

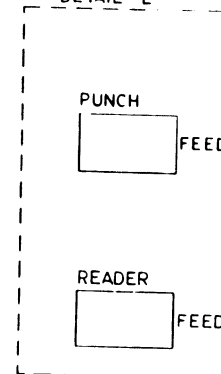
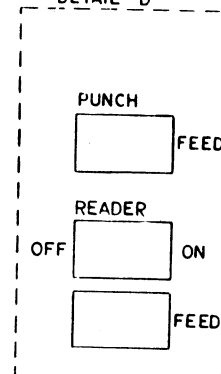
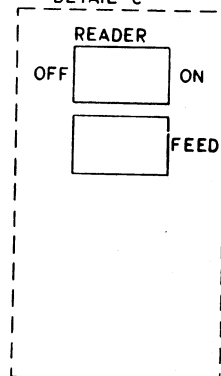
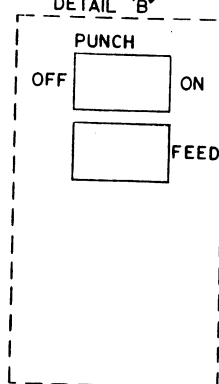
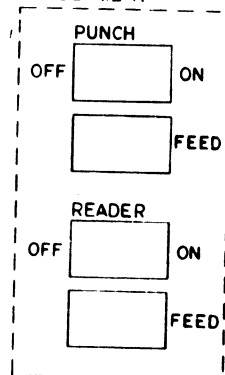
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE PCC SWITCH BOARD			
5408310			
SIZE	CODE	NUMBER	REV
B	CS	5408310-0-1	F
PRINTED CIRCUIT REV			D

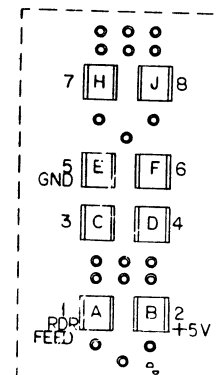
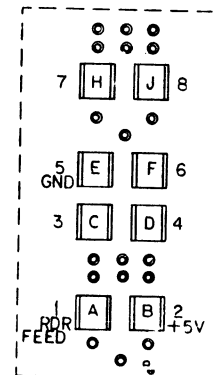
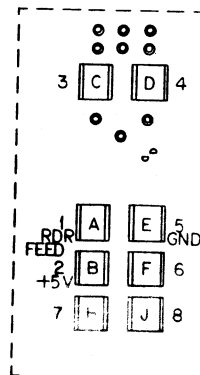
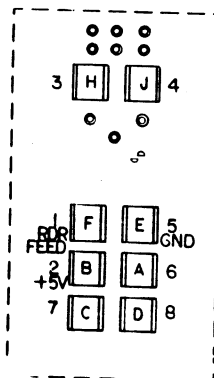
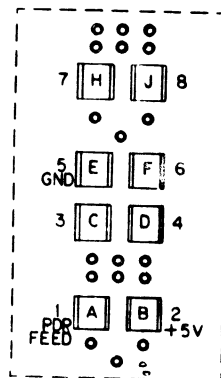
A diagram of a single block. It consists of a horizontal base with a vertical tab on the right side. The tab is labeled "R9" and "TAB".



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



REAR
VIEW



FIRST USED ON OPTION/MODEL		QTY	DESCRIPTION	PART NO	UNIT NO
PC04			PARTS LIST		
UNLESS OTHERWISE SPECIFIED (1/16" MINIMUM INCHES TOLERANCES		DRN B. MUTAK	DATE 4-10-63	 DIGITAL EQUIPMENT CORPORATION WATFORD MASSACHUSETTS	
		CHRD	DATE 6-5-63		
DECIMALS	ANGLES	ENG C. S. BELL	DATE 6-5-63	TITLE PC04 READ-25 FUNCH (SW & TERM LOCATIONS)	
RXX - .008	10 30	BECKNER	DATE 6-6-69		
RE - .01		PROJ ENG. B.	DATE 6-6-69		
R - .1		PROD B. ANTONIO	DATE 6-6-69		
HIDE MOST BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓					
MATERIAL		NEXT HIGHER ASSY			
FINISH		A-VL-PC04-1-0	SIZE CODE	NUMBER	REV
		SCALE	DUA	PC04-0-0	F
		SHEET 3 OF 4	DIST		

DEPOSITIONS	
CHK	CHANCE NO. REV.

[illegible]

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 RYH
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 WIRE FROM #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/YO #22	R1 & R2	-	TS - 1	28
30	WHT/YEL #22	R3 & R4	-	TS - 2	28
31	WHT/ORN #22	R5 & R6	-	TS - 3	28
32	WHT/BRN #22	R7 & R8	-	TS - 4	28
33	VIO #22	R1	-	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	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04-0				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. B. HUTNAK	DATE 4-10-69	digital EQUIPMENT CORPORATION WATFORD MASSACHUSETTS	
DECIMALS	CHK'D R. CARVILLI	DATE 6-5-69		
ANGLES	ENG. CEO. BECKNER	DATE 6-6-69		
XXX - 006 XX - 02 X - 1	PROJ. ENG. CEO. BECKNER	DATE 6-6-69		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. B. ANTONUCCIO	DATE 6-6-69	TITLE	
MATERIAL	NEXT HIGHER ASSY.	PC04		
FINISH	A-ML-PC04	SIZE CODE	NUMBER	REV
	SCALE	DUA	PC04-0-0	P
	SHEET 4 OF 4	DIST.		

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.				QUANTITY / VARIATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
ITEM NO.	DWG. NO. / PART NO.	DESCRIPTION	PC84-B-BB	PC84-BA-BC	PC84-BL	PC84-BM	PC84-C	PC84-CA	PC84-CL	PC84-CM	PC84-P	PC84-PA	PC84-PL	PC84-PM	PC84-R-BB	PC84-RL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

CHK	REVISED	CHANGE NO.	REV.
254	REVISED REDRAWN	PC04 - 00053	M
All-Owner 12-13-71			
A-KENT			
Allan Kent 4 Jan 72			
254	REVISED	PC04 - 00057	N
Allan Kent 3-22-73			
A. WILLIAMS			
William 2-7-73			
254	REVISED	PC04 - 00059	P
G. Williams 5-28-74			
A. WILLIAMS			
J.R. Pett 6-4-74			

FIRST USED ON OPTION/MODEL
PC04 (ALL)

UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED

DIMENSION IN INCHES
 TOLERANCES
 DECIMALS FRACTIONS ANGLES

± .005 ± 1/64 ± 0°30' ✓
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP

COMMERCIAL	
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FINISH

FINISH 

DRN. R. HUTNAK	DATE 4-10-65
CHK'D. R. CARVELLI	DATE 6-5-65
ENG. GEO. BECKNER	DATE 6-6-65
PROJ. ENG. GEO. BECKNER	DATE 6-6-65
PROD. R. ANTONUCCIO	DATE 6-6-65

NEXT HIGHER ASSY
D-UA-PC04-0-0

SCALE 

SHEET 1 OF 2

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
PC04 READER
AND PUNCH

SIZE CODE	NUMBER	REV.
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C	PL	PCØ4-Ø-Ø	P
DIST.			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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ITEM NO.	DWG. NO./PART NO.	DESCRIPTION																												
30	9107400-94	WIRE, 22 AWG STRD TEFLON WHT/YEL TRACER	A/R	RA	RA	RA	R	A/LA	RA	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9107400-93	WIRE, 22 AWG STRD TEFLON WHT/ORN TRACER	A/R	RA	RA	RA	R	A/LA	RA	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9107400-91	WIRE, 22 AWG STRD TEFLON WHT/BRN TRACER	A/R	RA	RA	RA	R	A/LA	RA	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9107350-77	WIRE, 22 AWG STRD TEFLON VIO	A/R	RA	RA	RA	R	A/LA	RA	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9107350-44	WIRE, 22 AWG STRD TEFLON YEL	A/R	RA	RA	RA	R	A/LA	RA	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9107350-33	WIRE, 22 AWG STRD TEFLON ORN	A/R	RA	RA	RA	R	A/LA	RA	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9107350-11	WIRE, 22 AWG STRD TEFLON BRN	A/R	RA	RA	RA	R	A/LA	RA	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9006043-1	SCR, PHL PAN HD 8-32 X 1 LG SST	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38	9006634	WASHER, INT TOOTH #8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
39	9006823	HEX SPACER 3/8 X 3/4 LG #8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40	9006037-1	SCR, PHL PAN HD 8-32 X 3/8 LG SST	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41	E-IA-7407438-0-0	POWER SUPPLY COVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42	9006024-1	SCR, PHL PAN HD 6-32 X 1/2 LG SST	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
43	9006653	WASHER, FLAT #6 SST	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
44	9008141	DEC NAME PLATE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45	9107275	SHRINKABLE TUBING WHITE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	D-BA-7407438-1-0	D/B-BA-7407438-1-0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	D-BA-7407438-1-0	D/B-BA-7407438-1-0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	7006145-1	1/8" CABLE BGV, (BL)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49	9006664	WASHER, FLAT #10	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
50	C-MD-7408091-0-0	BRK'T RESISTOR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
51	9006565	NUT, KEPS 10-32 X 3/8 X 3/16	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
52	9006635	WASHER, INT TOOTH #10	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
53	9007799-6	SCR, PHL PILLISTER HD 8-32 X 1.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
54	1209850	UNIVERSAL MODULE RETAINER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
55	C-IA-7405642-0-0	SCR, MODULE RETAINER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
56	C-IA-7408339-7-0	HOLD DOWN BAR (6")	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
57	9107470-55	WIRE, 24 AWG SOLID TEFLON GREEN	A/R	RA	RA	RA	R	A/LA	RA	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	C-IA-7407134-1-0	BEZEL SWITCH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	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	2	2	2	2	2	2	2	2	2	2	2	2	2	2
60	9006633	WASHER INT TOOTH LOCK #6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
61	9006656	WASHER FLAT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
62	A-PI-3700024-0-0	PACKAGING INSTRUCTIONS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
63	A-PI-3700123-0-0	PACKAGING INSTRUCTIONS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

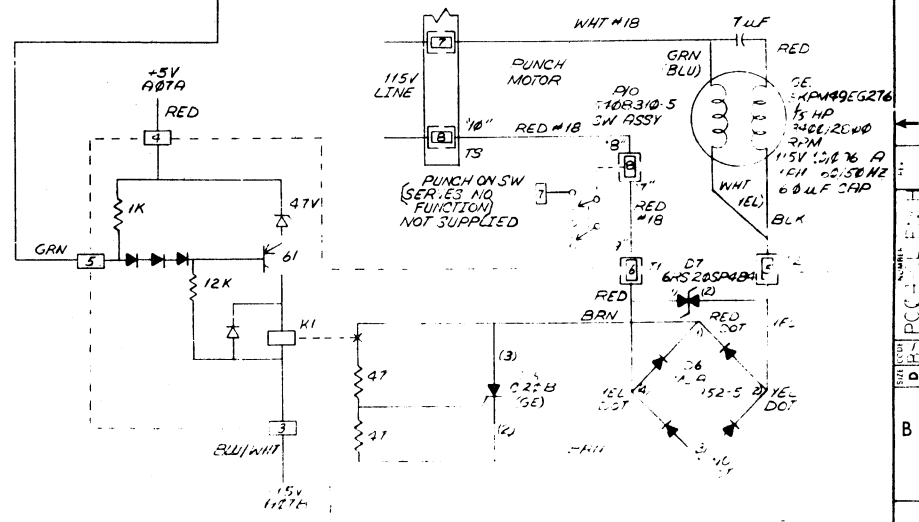
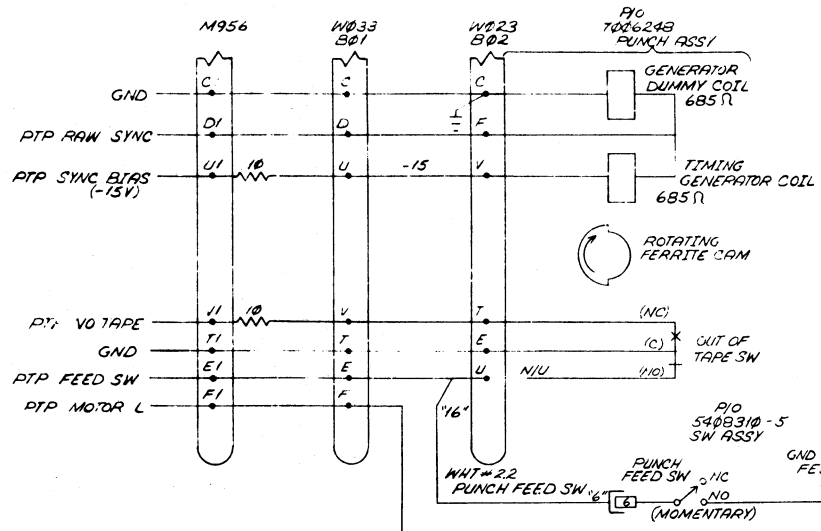
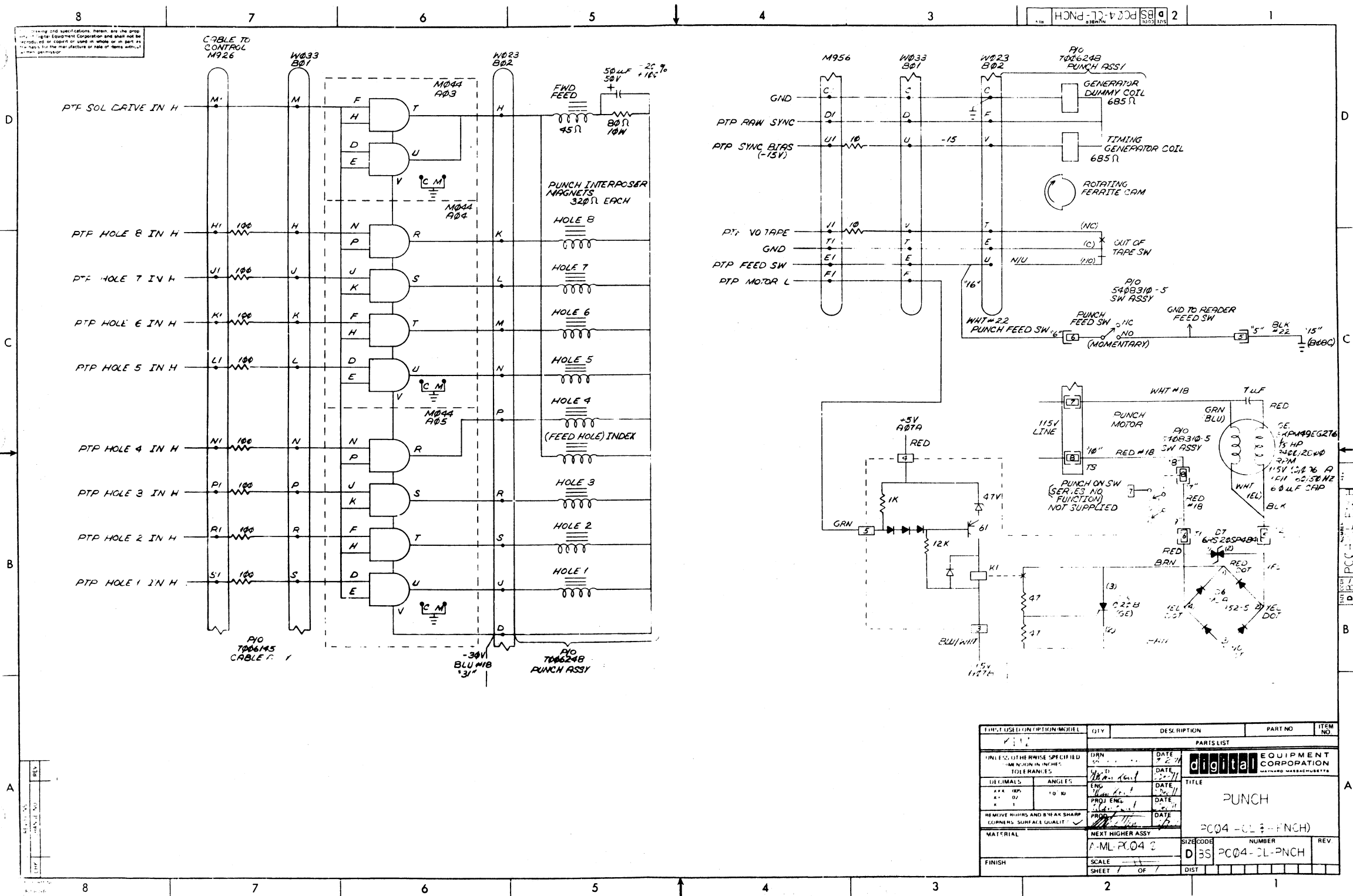
PARTS LIST

MAD	BY ROBERT HUTNAK	CHECKED <i>Carwell</i>	SECTION
DATE	2/20/69	DATE 5/5/69	1
ENG		PROD	ISSUED SECT.
DATE	<i>2 Dec 69 4/4/69</i>	DATE <i>1/1/68</i>	1

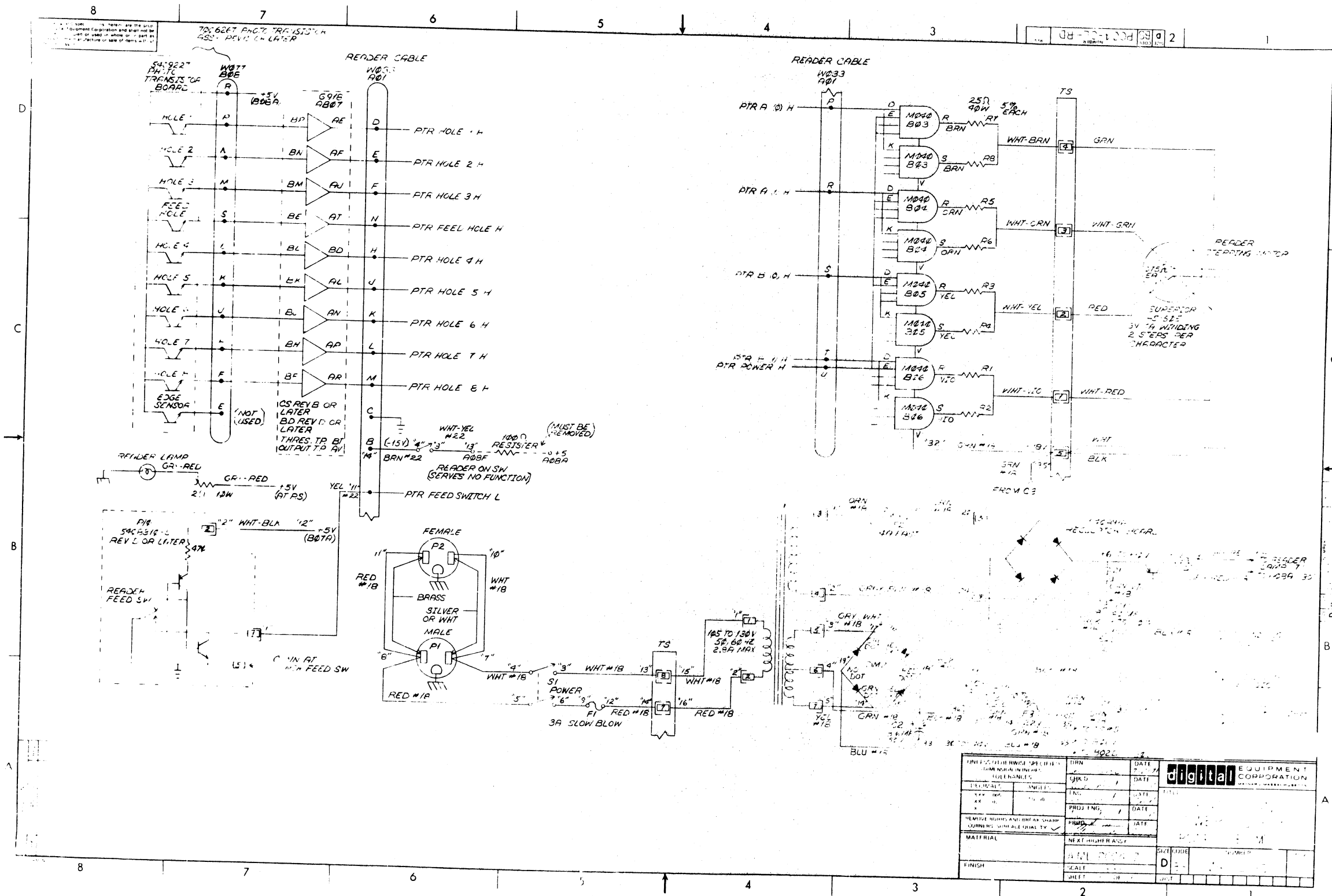
ITEM NO.	WG NO. / PART NO.	DESCRIPTION
1	-IA-7407077-0-0	MTG BAR 6 IN.
2	002244	144 PIN CONN BLOCK WRAP TYPE
3	002188	BUS BAR BERG NO. 3584-032
4	107560-1	#22 AWG BUS WIRE
5	107265	#22 TUBING, TEFLON WHITE
6	007597	TERMINAL SHAKEPROOF #2116-08-00
7	006034	SCR PHL PAN HD #8-32 x .19 LG SST
8	107470-10	#21 AWG SOLID KYNAR BLUE
9	007641	SCR PHL FIL HD #8-32 x 1/2 LG SST
10	005306	CAP 6.8 MFD 35V 10%
11	000088	CAP. 100 MFD 4V 10%
12	3-00231	RES 100ohm 1/4W 5%
13	300295	RES 330 OHM 1/4W 5%
REF	K-WL-PC04-0-5	WIRE LIST
REF	K-WL-PC04-0-6	WIRE LIST
REF	K-WL-PC04-0-7	WIRE LIST

TITLE	PC-1 WIRED ASSY	ASSY NO.	SIZE	CODE
		E-AD-700b268-0-0	A	PI
		SHEET 1 OF 1	DIST	

[illegible]



PARTS LIST		QTY	DESCRIPTION	PART NO.	ITEM NO.
PUNCH					
PC04-CL-PNCH					
REV					
SCALE					
SHEET 1 OF 1					
DIST					



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

1

B

B

A

A

REVISONS		REV
HR	CHANGE NO	-
ORIGINATED		
PC04-C054		
PC04-55	A	
4-9-72		
C. YOUSE		
1-1-72		
PC04-C056		H
YOUSE		
5-22-72		

FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04					
PARTS LIST					
DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHK'D	DATE				
ENG	DATE				
PROJ ENG	DATE				
PROD	DATE				
NEXT HIGHER ASSEMBLY		TITLE WIRELIST PC04-BL, BM, PL, FM AND RL			
LEAD TO SUB-ASSEMBLY					
SCALE	DATE	SIZE	CODE	NUMBER	REV
		K	WL	14-0	H

ACCESSORY LIST

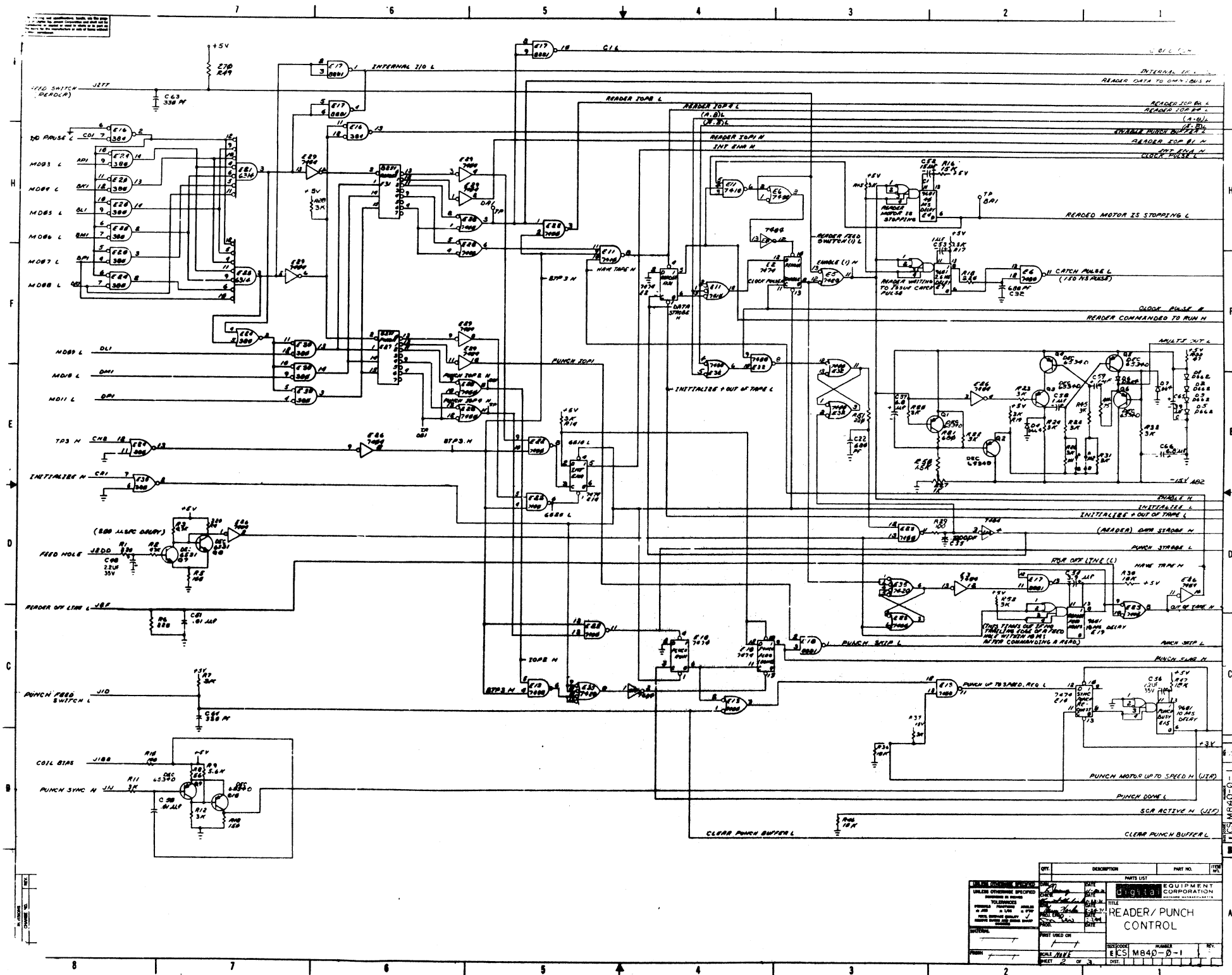
D	DOCUMENT
DN	DOCUMENT CHANGE NOTICE
PA	PAPER TAPE ASCII
PB	PAPER TAPE BINARY
FM	PAPER TAPE READ-IN-MODE

KIT CHECK
BY _____ DATE _____
INSTALLATION CHECK
BY _____ DATE _____

SECTION	
ISSUED SECT.	

[illegible]

1342



LEGEND		
4B-2 10.	7007036-1	DIM X
BC28K-16	7007036-20	5FT ± 2 IN
BC28K-10	7007036-10	10FT ± 2 IN
BC28K-15	7007036-15	15FT ± 3 IN
EC28K-25	7007036-25	25FT ± 3 IN
BC28K-50	7007036-50	50FT ± 12 IN

VV	UU
TT	SS
RR	PP
NN	MM
LL	KK
JJ	HH
FF	EE
DD	CC
BB	AA
ZX	Y
VT	W
RN	U
LJ	S
FDB	P
B	M
	K
	H
	E
	C
	A
	Z



1	ETCH BOARD CONNECTOR	1210073-O	2
1	M955 (CABLE CONNECTOR	M955	1
1	I/O CABLE	SEE LEGEND	2
QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
[REDACTED] [REDACTED] 1/16" x 1/8" [REDACTED] 1/16" x 1/8" [REDACTED] 1/16" x 1/8" [REDACTED] 1/16" x 1/8" [REDACTED] 1/16" x 1/8" NENT HIGHER ASST		EQUIPMENT CORPORATION MAYWOOD, MASSACHUSETTS TITLE I/O CABLE (BC/EK)	
SCALE 1:10=1		SHEET OF 1	REV. B
DIA BC/EK-0-0		DIST.	

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	Larry Narhi	APPD	PCB-EA-1	SIZE CODE	NUMBER	REV			
DEC FORM NO. DRA 1084							SHEET 1 OF 3		

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TITLE PCB-E READER PUNCH CONTROL				CONTINUATION SHEET					
4.1 Continued - Punch IOT's PCE 6020 Clr Interrupt Enable PSF 6021 Skip if Punch Flag = 1 PCF 6022 Clr Flag PPC 6024 Load Buffer & Punch Character PLS 6026 Clr Flag, Load & Punch 4.2 There are no maintenance instructions. 4.3 Data format is parallel for both reader and punch. For the reader 8 bits are loaded from photo-cell into the reader buffer then onto the Data Bus. Then at the appropriate time the data is strobed into AC bits 4 thru 11. AC 11 being the least significant bit. The punch buffer is loaded from Data Bus bits 4 thru 11 then the contents of the punch buffer select or de-select solenoid drivers which punch the data. 4.4 There are no timing diagrams. 4.5 There are no operator controls except for one potentiometer that sets the clock circuit for a reader speed of 300 char/sec. This control is used during initial reader adjustment. 5. Interface Specifications 5.1 All bus signals conform to the bus rules of the PDP-8/E. All signals between the reader and punch appear on pins of the 2 connectors that are pin compatible with the PCB/L. 5.2 The following is a list of reader, punch variations for the 8/E. PC04-BL Reader Punch, 60 cycle PC04-BM Reader Punch, 50 cycle PC04-PL Punch only, 60 cycle PC04-PM Punch only, 50 cycle PC04-RB Reader only or PR8-ES 110 CPS Paper Tape Reader, 110V 50/60 cycles									
DEC FORM NO. DRA 1084				SIZE CODE A SP		NUMBER PCB-EA-1		REV 3	
								SHEET 3 OF 3	

TITLE PCB-E READER PUNCH CONTROL				CONTINUATION SHEET					
1. Overall Description The PCB-E is the reader/punch control for the PDP-8/E computer. The PCB/E is designed to control the reader/punch type PC04.									
2. General Specification 2.1 The interface, entirely TTL, is designed around the constraints of the PDP-8/E bus. All connections to the reader/punch is via shielded flex-print connected to edge-type connectors. 2.2 Punch Done Timing may be either 4.5 milliseconds or 10 milliseconds, jumper selectable on the board. Reader timing may be slowed by removing two jumpers, for use with the PR8-ES Reader. 2.3 The entire interface is contained on one 8 1/2" by 11" quad board. 2.4 The temperature limits are 32F to 120F and relative humidity 10% to 90%, non-condensing. The power requirements are: + 5 volts at 1.25 amps. -15 volts at 75 millamps. 2.5 The control is completely compatible with all software that is PCB/L oriented. 3. Specification of Vendor-Supplied Equipment 3.1 See applicable purchase specification for board components. 4. Programming 4.1 Reader IOT's RPE 6010 Set interrupt enable for reader and punch RSF 6011 Skip if reader flag = 1 RRB 6012 Read reader buffer, clr flag RFC 6014 Clr flag, fetch character 6016 Same as 12 and 14 NOTE: Initialize sets program Interrupt Enable Flag									
DEC FORM NO. DRA 1084				SIZE CODE A SP		NUMBER PCB-EA-1		REV 3	
								SHEET 2 OF 3	

MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY

DATE
Re: GULICK 3/2/71

DATE KEN GULICK 3/2/71

SECTION

ISSUED SECT.

DATE	3-5-71	22	DATE
------	--------	----	------

DATE 3/17/71

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
----------	--------------------	-------------

DESCRIPTION

PC8-E
PC8-EA

PC8-EA

QUANTITY / VARIATION

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS									
MADE BY		DATE		CHECKED		SECTION		ISSUED SECT.	
KEN GULICK 3/2/71		3-5-71		DATE 3/17/71		1		1	
ENG		DATE		PROD		DATE		DATE	
3-5-71		3-5-71		3/17/71		3/17/71		3/17/71	
1	D-UA-PC04-0-0	PC04-BL PUNCH AND READER	1	PC8-EA	1	PC8-E	1	1	1
2	D-UA-BC08K-0-0	BC08K-6 CABLE ASSEMBLY	2	PC8-EA	2	PC8-E	2	2	2
3	E-CS-M840-0-1	READER PUNCH	1	PC8-EA	1	PC8-E	1	1	1
4	D-UA-PC04-0-0	PC04-BM PUNCH AND READER	1	PC8-EA	1	PC8-E	1	1	1
5	B-MD-7408955-0-0	BRACKET	1	PC8-EA	1	PC8-E	1	1	1
6	B-MD-7408956-0-0	CLAMP	1	PC8-EA	1	PC8-E	1	1	1
7	9006557	KEPS NUT #4-40	2	PC8-EA	2	PC8-E	2	2	2
8	9006012-1	SCR T. HD PAN #4-40 X 7/16 LG	2	PC8-EA	2	PC8-E	2	2	2
9	9008864	TAPE DEL COATED PRESS SEN. 3/8	2	PC8-EA	2	PC8-E	2	2	2

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			LEGEND		QUANTITY / VARIATION													
ACCESSORY LIST																		
MADE BY J. Mc Cluskey		CHECKED <i>[Signature]</i>	SECTION		PA PAPER TAPE ASCII													
DATE 4/10/72		DATE 4/14/72			PB PAPER TAPE BINARY													
ENG L. Narhi		PROD <i>[Signature]</i>	ISSUED SECT.		PM PAPER TAPE READ-IN-MODE													
DATE 4/10/72		DATE 4/14/72																
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION			PC8-E	PC8-EA	PC8-EH	PC8-EC					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-8E-PC8E-0-PC8E	PC8/E Maintenance Manual			1	1	1	1										
11	A-ML-PL3-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	4	4										
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 A	CODE AL	NUMBER PC-E-3		REV B	FROM NO PC8E	
SHEET OF				DIST.						



DIGITAL EQUIPMENT CORPORATION WORLDWIDE SALES AND SERVICE

MAIN OFFICE AND PLANT

Maynard, Massachusetts, U.S.A. 01754 • Telephone: From Metropolitan Boston 646-8000 • Elsewhere: (617)-897-5111
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NORTHEAST

REGIONAL OFFICE:
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Telephone: (617)-850-0330/0310 Dataphone: 617-890-3012 or 3013

CONNECTICUT

240 Pomeroy Avenue, Meriden, Conn. 06540
Telephone: (203)-237-8441/1466 Dataphone: 203-237-8205

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Rochester
130 Allens Creek Road, Rochester, New York
Telephone: (716)-461-1700 Dataphone: 716-244-1880

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6700 Thompson Road
Syracuse, New York 13211
Telephone: (315)-437-1593/7085 Dataphone: 315-454-4152

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Orlando
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Telephone: (305)-851-4450 Dataphone: 305-859-2360

GEORGIA

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

NORTH CAROLINA

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

NEW YORK

253 Passaic Ave., Fairfield, New Jersey 07006
Telephone: (201)-227-9280 Dataphone: 201-227-9280

NEW JERSEY

Metuchen
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Telephone: (201)-549-4100/2000 Dataphone: 201-548-0144

PRINCETON

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

MID-ATLANTIC (cont.)

NEW YORK

Long Island
1 Huntington Quadrangle
Suite 1507 Huntington Station, New York 11746
Telephone: (516)-694-4131, (212)-895-8085
Dataphone: 516-293-5693

MANHATTAN

810 7th Ave.
New York, N.Y. 10019
Telephone: (212)-562-1300

PENNSYLVANIA

Philadelphia
1740 Walton Road, Blue Bell, Pennsylvania 19422
Telephone: (215)-825-4200

TENNESSEE

Knoxville
6311 Kingston Pike, Suite 21E
Knoxville, Tennessee 37919
Telephone: (615)-588-6571 Dataphone: 615-584-0571

WASHINGTON D.C.

Executive Building
6811 Kenilworth Ave., Riverdale, Maryland 20840
Telephone: (301)-779-1600, 752-8797
Dataphone: 301-779-1800 Ex. 53

OHIO

Cleveland
2500 Euclid Avenue, Euclid, Ohio 44117
Telephone: (216)-946-8484 Dataphone: 216-946-8477

DAYTON

3101 Kettering Boulevard
Dayton, Ohio 45439
Telephone: (513)-294-3323 Dataphone: 513-298-4724

OKLAHOMA

Tulsa
3140 S. Winston
Winston Sq. Bldg., Suite 4, Tulsa, Oklahoma 74136
Telephone: (918)-749-4476 Dataphone: 918-749-2714

PENNSYLVANIA

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

TEXAS

Dallas
2880 LBJ Freeway, Dallas, Texas 75234
Telephone: (214)-620-2051 Dataphone: 214-620-2061

LOUISIANA

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

MICHIGAN

Ann Arbor
230 Huron View Boulevard, Ann Arbor, Michigan 48103
Telephone: (313)-781-1150 Dataphone: 313-789-9883

CENTRAL (cont.)

DETROIT

23771 Greenfield Road
Suite 185
Southfield, Michigan 48075
Telephone: (313)-557-3063

MINNESOTA

Minneapolis
8030 Cedar Ave. South, Minneapolis, Minnesota 55420
Telephone: (612)-854-6562 3-4-5 Dataphone: 612-854-1410

MISSOURI

Kansas City
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Telephone: (816)-252-2300 Dataphone: 816-461-3100

ST. LOUIS

Suite 110, 115 Progress Parkway
Maryland Heights, Missouri 63043
Telephone: (314)-878-4310 Dataphone: 816-461-3100

OHIO

Cleveland
2500 Euclid Avenue, Euclid, Ohio 44117
Telephone: (216)-946-8484 Dataphone: 216-946-8477

DAYTON

3101 Kettering Boulevard
Dayton, Ohio 45439
Telephone: (513)-294-3323 Dataphone: 513-298-4724

OKLAHOMA

Tulsa
3140 S. Winston
Winston Sq. Bldg., Suite 4, Tulsa, Oklahoma 74136
Telephone: (918)-749-4476 Dataphone: 918-749-2714

PENNSYLVANIA

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

TEXAS

Dallas
2880 LBJ Freeway, Dallas, Texas 75234
Telephone: (214)-620-2051 Dataphone: 214-620-2061

LOUISIANA

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

MICHIGAN

Ann Arbor
230 Huron View Boulevard, Ann Arbor, Michigan 48103
Telephone: (313)-781-1150 Dataphone: 313-789-9883

WEST

REGIONAL OFFICE:

3101 Soquel Way, Sunnyvale, California 94086
Telephone: (408)-735-9200 Dataphone: 408-735-1820

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4333 East Broadway Road, Phoenix, Arizona 85040
Telephone: (602)-288-3488 Dataphone: 602-288-7371

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Telephone: (714)-979-2450 Dataphone: 714-979-7850

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8154 Mission Gorge Road
Suite 110, San Diego, California
Telephone: (714)-280-7880/7910 Dataphone: 714-280-7825

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1400 Terra Bella, Mountain View, California 94040
Telephone: (415)-964-6200 Dataphone: 415-964-1436

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Telephone: (415)-535-5453/7830 Dataphone: 415-562-2160

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Telephone: (213)-479-3791/4318 Dataphone: 213-478-5626

COLORADO

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

NEW MEXICO

Albuquerque
10200 Manual N.E., Albuquerque, New Mexico 87112
Telephone: (505)-296-5411/5428 Dataphone: 505-294-2330

OREGON

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

UTAH

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

WASHINGTON

Bellevue
1401 N.E. Bellevue, Redmond Road, Suite 111
Bellevue, Washington 98005
Telephone: (206)-545-4058/455-5404 Dataphone: 206-747-3754

EUROPEAN HEADQUARTERS

Digital Equipment Corporation International Europe
81 route de l'Aire

1211 Geneva 26, Switzerland
Telephone: 42 79 50 Telex: 22 683

THE HAGUE
Rijswijk/The Hague, Netherlands
Telephone: 94 9720 Telex: 32533

FRANCE
Equipment Digital
Centre Silic
94 533 Rungis, Paris, France
Telephone: 687-23-23 Telex: 26-840

GRENOBLE
Equipment Digital
Tour Mangin
16 — Rue de General Mangin, 38, 100 Grenoble, France
Telephone: (76)-87-03-21 Telex: 212-32862

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

COLOGNE
5 Koenig 41, Aachener Strasse 311
Telephone: 0221-40 44 95 Telex: 888-2269

FRANKFURT
Am Forsthaus Gravelbruch 5-7
Telephone: 06102-5526 Telex: 41-76-82

HANNOVER
3 Hannover, Podbielskistrasse 102
Telephone: 0511-69-70-95 Telex: 922-952

STUTTGART
D-7301 Kornat
Marco-Polo-Strasse 1
Telephone: (0711) 25-40 07 Telex: 725-3404

AUSTRIA
Digital Equipment Corporation Ges.m.b.H.
VIENNA
Mariahilferstrasse 136, 1150 Vienna 15, Austria
Telephone: 85 51 86

UNITED KINGDOM
Digital Equipment Co., Ltd.
U.K. HEADQUARTERS
Arkwright Road, Reading, Berks
Telephone: 0734-563555 Telex: 84327

READING
The Evening Post Building, Tessa Road
Reading, Berks
Butts Centre
Reading, RG1 7ON
Telephone: Reading 583555 Telex: 84328

BIRMINGHAM
29/31, Birmingham Road, Sutton Coldfield, Warwick.
Telephone: (0244)-21-355 5301 Telex: 337 060

MANCHESTER
Digital Equipment Co., Ltd.
Arndale House
Chester Road, Streteford, Manchester M32 9BH
Telephone: (061)-865-7011 Telex: 666666

LONDON
Bilton House, Uxbridge Road, Ealing, London W.5
Telephone: 01-579-2334 Telex: 22371

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

NETHERLANDS

Digital Equipment N.V.
CANADIAN HEADQUARTERS
P.O. Box 11500
Ottawa, Ontario, Canada
K2H 8G8
Telephone: (613)-582-5111 TWX: 610-562-8732

TORONTO
2550 Goldenridge Road, Mississauga, Ontario
Telephone: (416)-270-9400 TWX: 610-402-7118

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

CALGARY/Edmonton
Suite 140, 6940 Fisher Road S.E.
Calgary, Alberta, Canada
Telephone: (403)-435-4081 TWX: 403-255-7408

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

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

DENMARK
Digital Equipment Aktiebolag
COPENHAGEN
Hellerupvej 66
2300 Hellerup, Denmark

FINLAND
Digital Equipment AB
HELSINKI
Titismaanitie 6
SF-00710 Helsinki 71
Telephone: (090) 310133
Cable: Digital Helsinki

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

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

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

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

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

ISRAEL
DEC Systems Computers Ltd.
TEL AVIV
Suite 103, Southern Habakuk Street
Tel Aviv, Israel
Telephone: (03) 44114/440763 Telex: 922-33-3163

INTERNATIONAL

CANADA

Digital Equipment of Canada, Ltd.
Kosato-Kosato Bldg.
No. 18-14 Nishishimbashi 1-Chome
Minato-Ku, Tokyo, Japan
Telephone: 5915246 Telex: 781-4208

PUERTO RICO
Digital Equipment Corporation de Puerto Rico
MIRAMAR
American Airlines Bldg.
804 Ponce De Leon, Miramar, Puerto Rico
Telephone: 809-723-9888/67 Telex: 385-9056

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

BRAZIL
RIO DE JANEIRO — GB
Ambrax S.A.
Rua Cesar, 104, 2 e 3 andares ZC - 29
Rio De Janeiro — GB
Telephone: 294-7406/0461/7625

SAO PAULO
Ambrax S.A.
Rua Iguai, 535
Sao Paulo — SP
Telephone: 52-7906/1870, 51-0912

PORTO ALEGRE — RS
Rua Coronel Vicente 421/101
Porto Alegre — RS
Telephone: 247411

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

INDIA
BOMBAY
Hindcon Computers Pvt. Ltd.
69/A, L. Jagmohandas Marg
Bombay 6 (WB) India
Telephone: 36-1615 36-5344 Telex: 011-2594 Plenthy

TEKHNID
Cable: TEKHNID

MEXICO
MEXICO CITY
Mexitek, S.A.
Eugenio 408 Deptos. 1
Apto. Postal 12-1012
Mexico 12, D.F.
Telephone: (905) 506-09-10

PHILIPPINES
MANILA
Stanford Computer Corporation
P.O. Box 1888
416 Dasmarinas St., Manila
Telephone: 49-68-96 Telex: 742-0352

VENEZUELA
CARACAS
Cosain, C.A.
Acarato 5039
Sabana Grande No. 1, Caracas 105
Telephone: 72-8652, 72-9637

Cable: INSTRUVEN

NEW ZEALAND
Digital Equipment Corporation Ltd.
AUCKLAND
Hilton House, 430 Queen Street, Box 2471
Auckland, New Zealand
Telephone: 75533

JAPAN
Digital Equipment Corporation International
Kowa Building No. 16 — Annex, First Floor
9-20 Akasaka 1-Chome
Minato-Ku, Tokyo 107, Japan
Telephone: 586-2771 Telex: 1-26428

TEL AVIV
Suite 103, Southern Habakuk Street
Tel Aviv, Israel
Telephone: (03) 44114/440763 Telex: 922-33-3163

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

ISRAEL
DEC Systems Computers Ltd.
TEL AVIV
Suite 103, Southern Habakuk Street
Tel Aviv, Israel
Telephone: (03) 44114/440763 Telex: 922-33-3163

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