

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

digital equipment corporation • maynard, massachusetts

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2nd Printing December 1971

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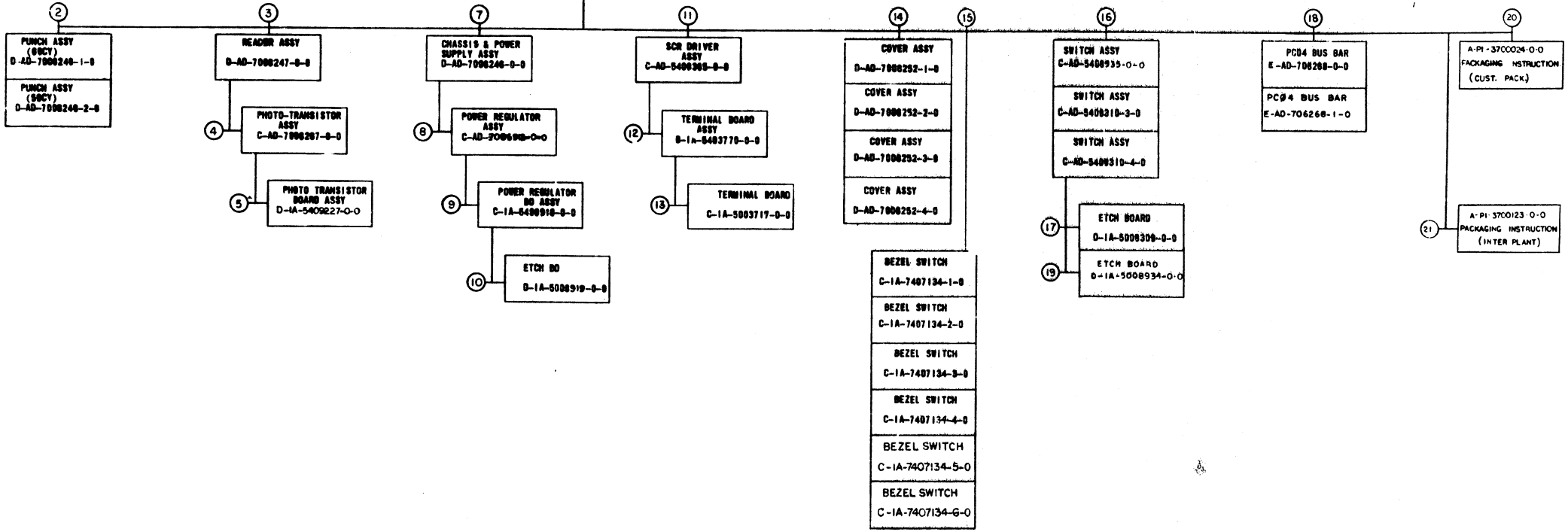
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ELIPLTOP	LOCAL
DIGITAL	COMPUTER LAB

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

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



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

REV.	CHG. NO.	REV.	DATE	BY	CHK.
1	PC04-00006	A	10-10-69	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	
22	PC04-00031	V	10-10-69	BECKNER	
23	PC04-00032	W	10-10-69	BECKNER	
24	PC04-00033	X	10-10-69	BECKNER	
25	PC04-00034	Y	10-10-69	BECKNER	
26	PC04-00035	Z	10-10-69	BECKNER	

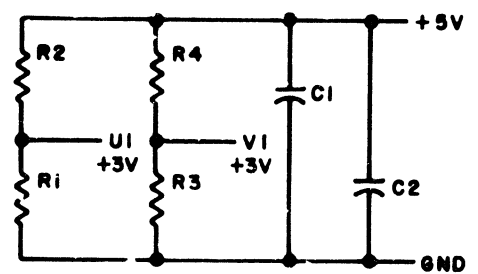
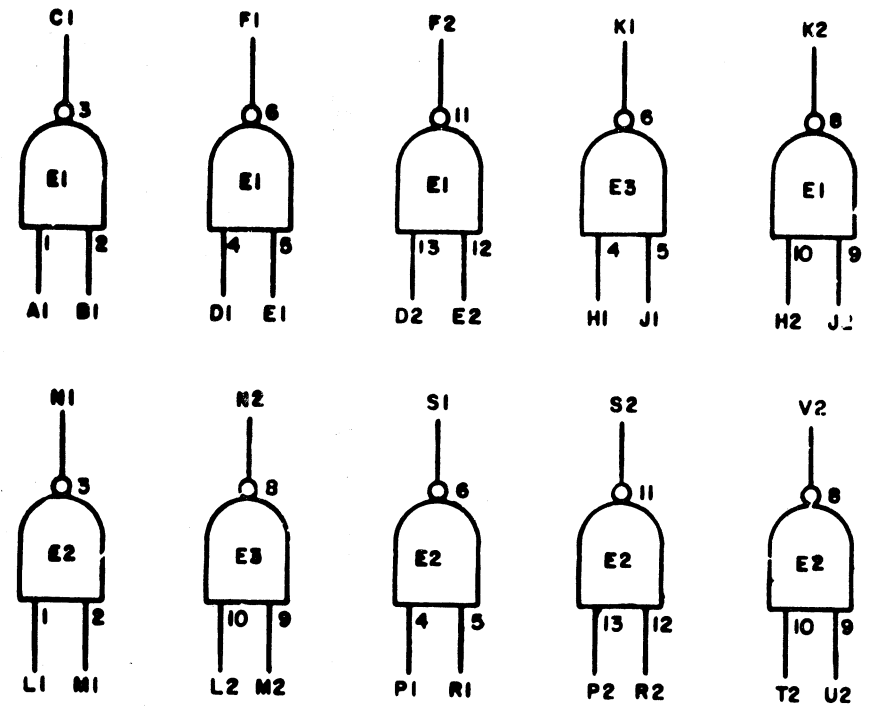
QTY.	DESCRIPTION	PART NO.	ITEM NO.
	PC04		
	UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		
	DECIMAL FRACTIONS ANGLES		
	FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP EDGES		
	MATERIAL		
	FINISH		
	SCALE		
	SHEET 1 OF 2		

digital EQUIPMENT CORPORATION
 DRAWING INDEX LIST, PC04
 DDI PC04-0-1

SIZE CODE: B DDI PC04-0-1

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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. 330 1/4W 10% CC	1300293
C1 AND C2	CAP. .01MFD 100V 20% DISC	1001610
	PARTS LIST	A-PL-MI13-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REV	NO
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10

DRN	DATE
CHK'D	DATE
ENG	DATE
PRD	DATE

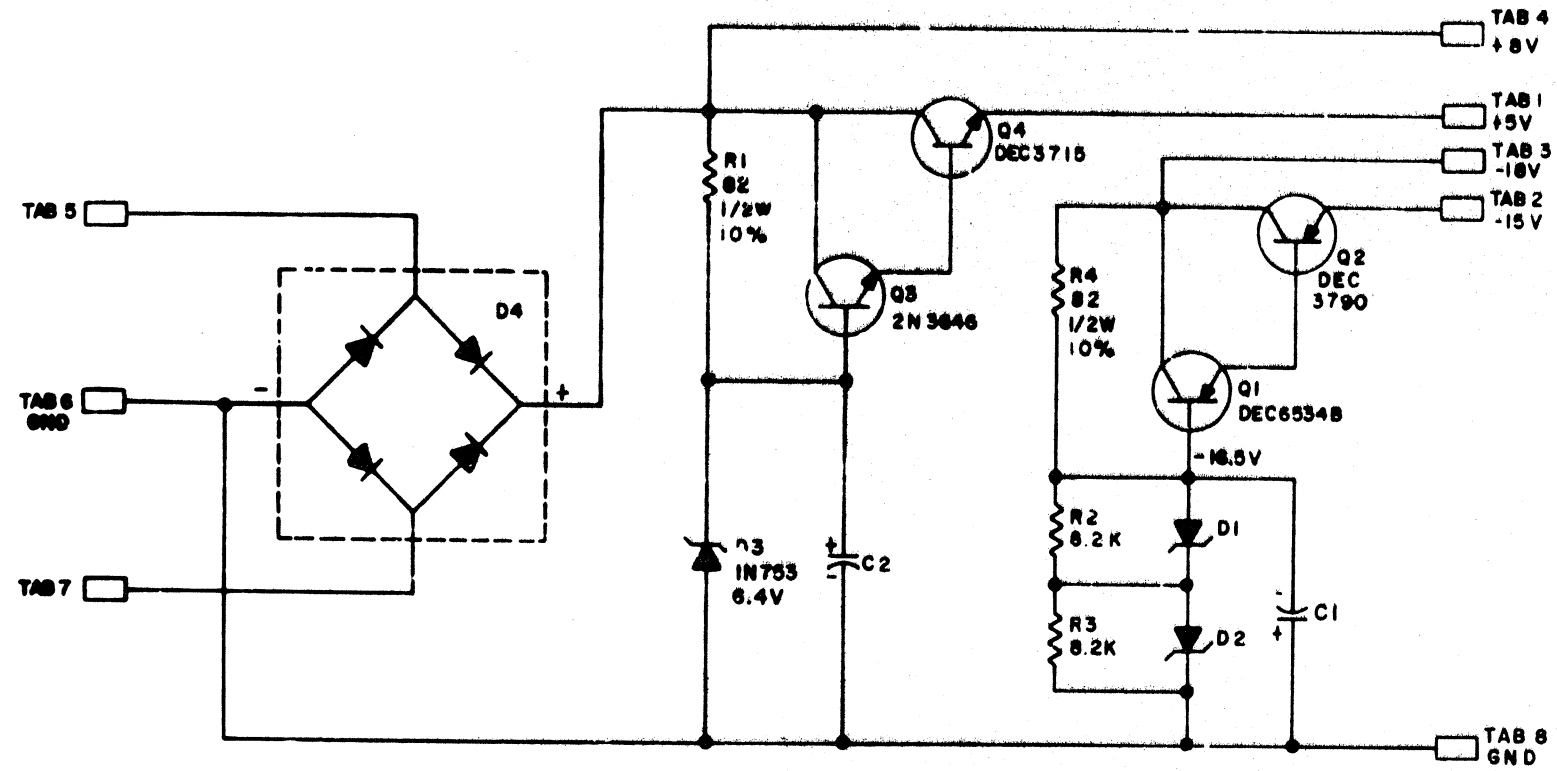
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

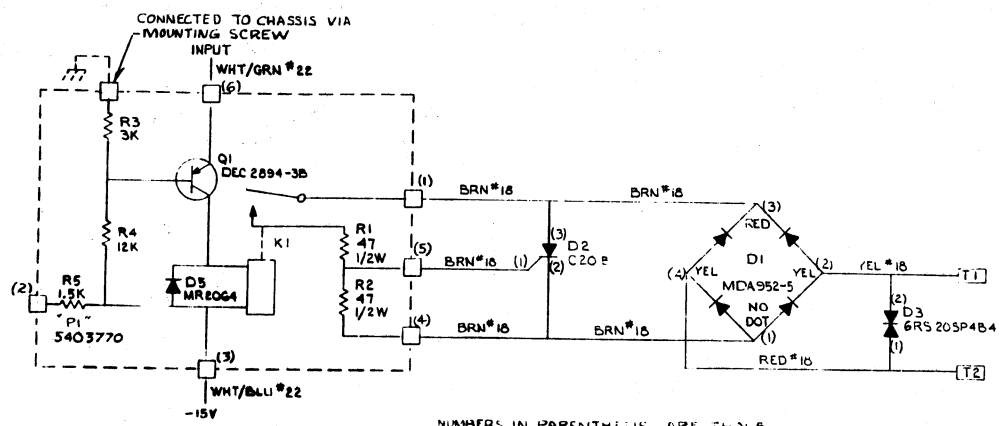
REV C
 NUMBER 5408308-0-1
 SIZE B
 CODE CS

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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
CS	CS	DEC	EIA	DEC	EIA	PRINTED CIRCUIT REV. 0				

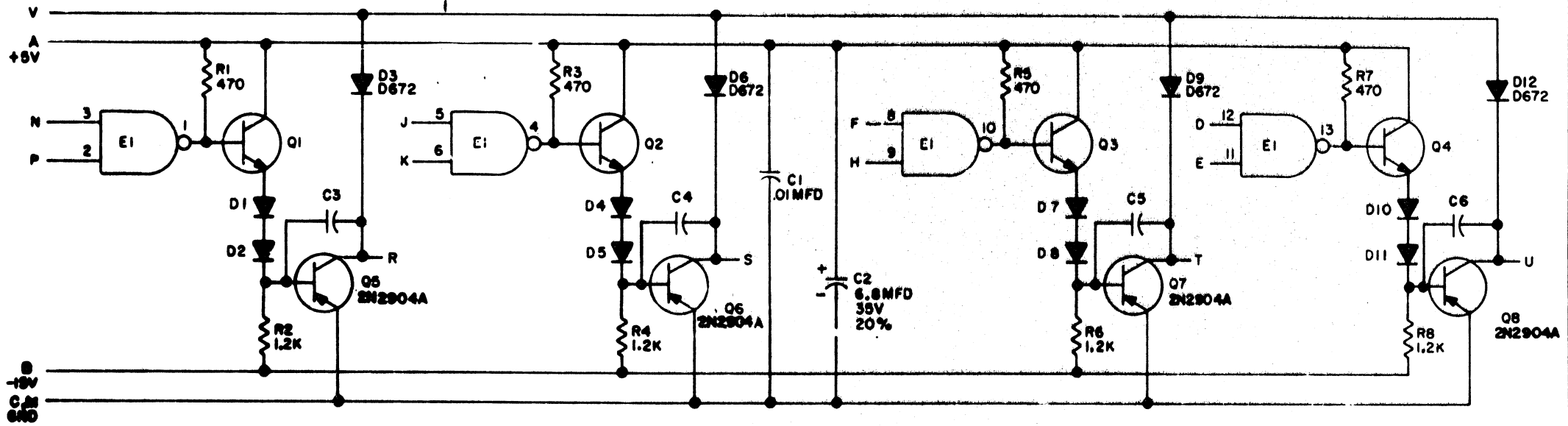


NUMBERS IN PARENTHESES ARE THOSE INDICATED IN CAD 5408385-0-1 AND NOT MARKED ON COMPONENTS

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

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

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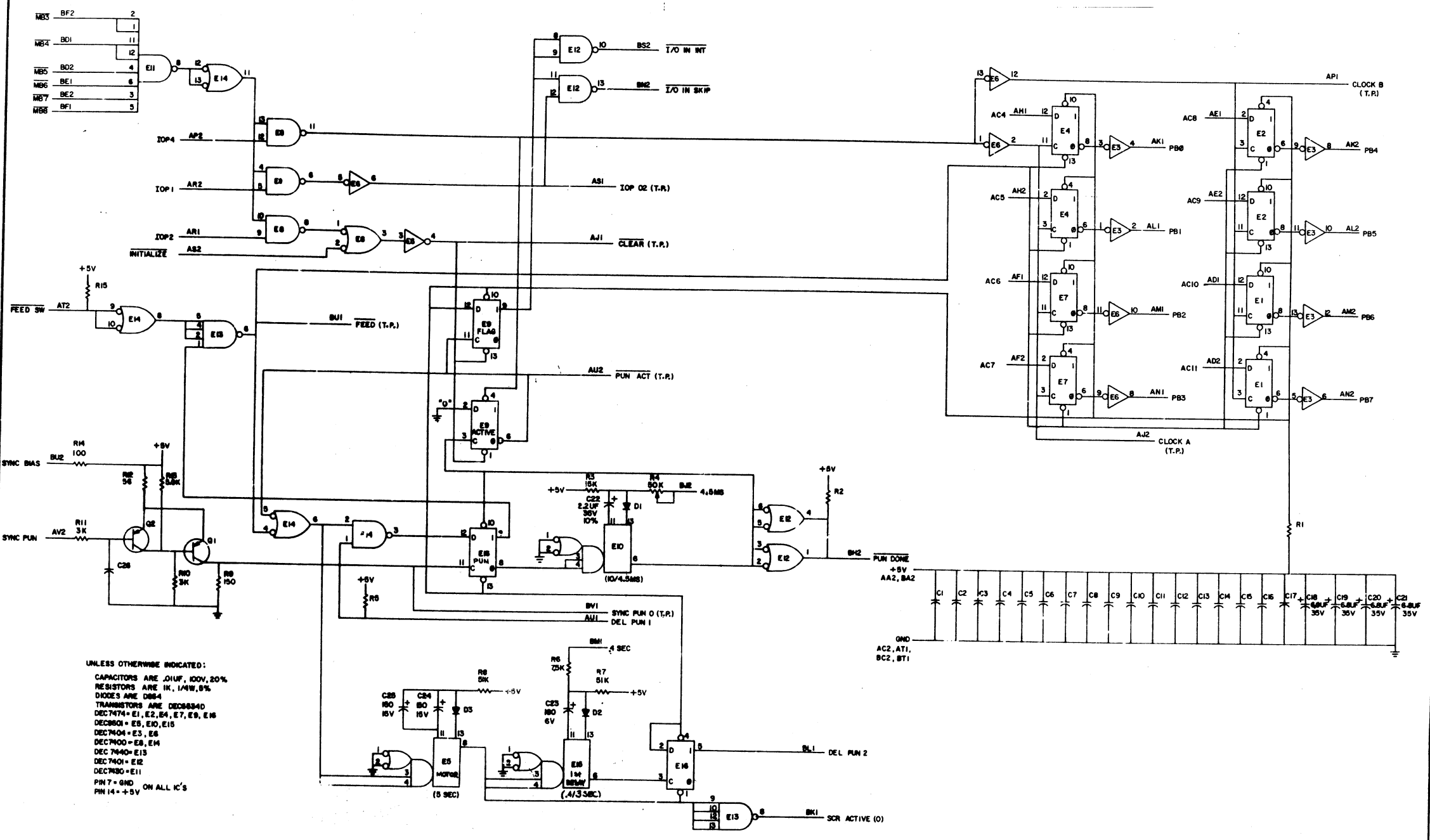


UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 10%
 DIODES ARE 9664
 E1 IS DEC7401N
 TRANSISTORS ARE DEC3009B
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 CAPACITORS ARE 100pF, 100V, 5%

REVISIONS CHG NO. REV 1 1 2 1 3 1 4 1 5 1	DRN. BUTLER	DATE 4/23/69	TRANSISTOR & DIODE CONVERSION CHART		EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE 4-100MA SOLENOID DRIVER MO44				
	CHG. P. J. ...	DATE 7/28/69	DEC	EIA		SIZE B	CODE CS	NUMBER MO44-0-1	REV C	
	ING. ...	DATE 7/28/69	DEC3009B	2N3009						
	PROD. ...	DATE								

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X 1-0-Q/JW S3 0
A# 3002/1/15



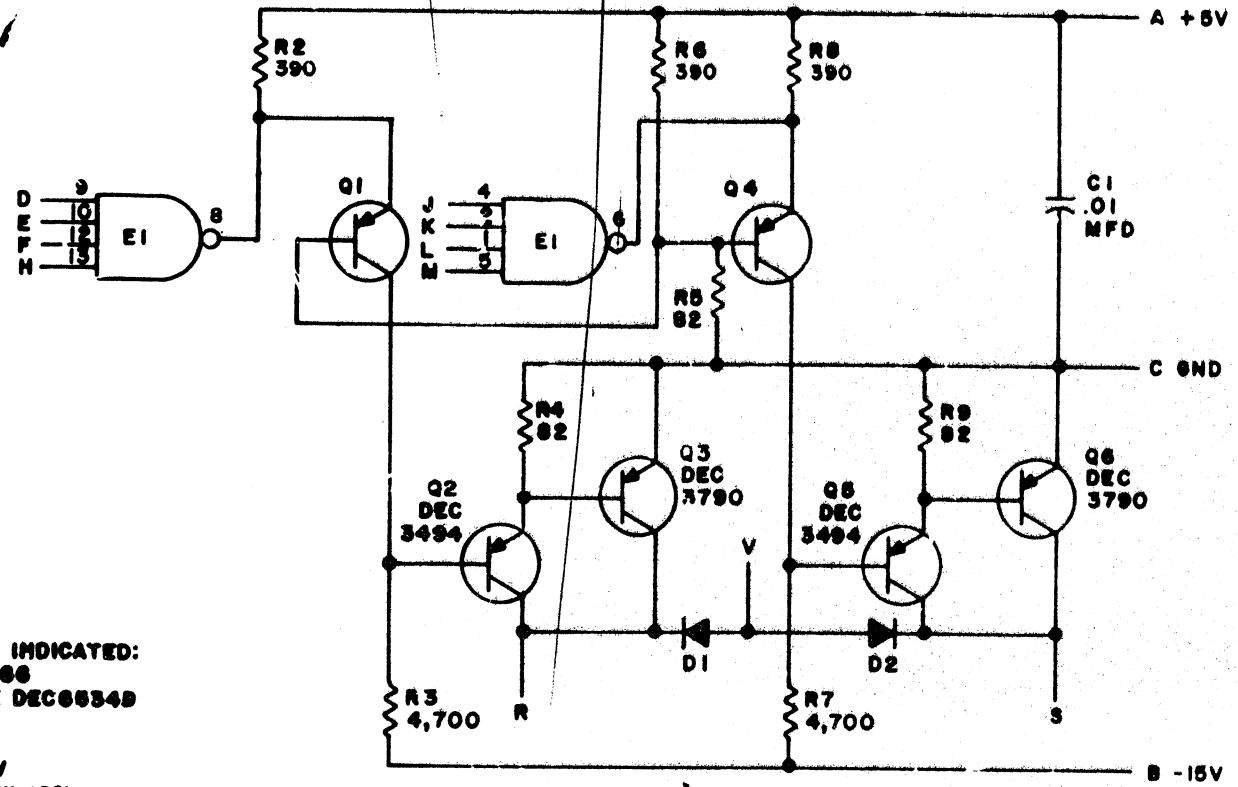
UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01UF, 100V, 20%
 RESISTORS ARE 1K, 1/4W, 5%
 DIODES ARE 1N4148
 TRANSISTORS ARE DEC2884D
 DEC7474 = E1, E2, E4, E7, E9, E16
 DEC2801 = E3, E10, E15
 DEC7404 = E5, E6
 DEC7400 = E8, E14
 DEC7440 = E13
 DEC7401 = E12
 DEC7480 = E11
 PIN 7 = GND ON ALL IC'S
 PIN 14 = +5V

TRANSISTOR & DIODE CONVERSION CHART				TITLE	
SYM	MANUFACTURER	TYPE	MANUFACTURER	DESCRIPTION	REVISION

EQUIPMENT CORPORATION			M710-0-1	
PRINTED CIRCUIT REV.			K	

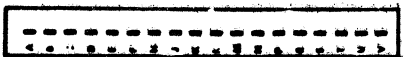
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SIZE CODE B CS NUMBER M040-0-1 REV E



UNLESS OTHERWISE INDICATED:
 DIODES ARE MR2066
 TRANSISTORS ARE DEC6534B
 E: IS DEC7420M
 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	NO
E	00001		
	00002		

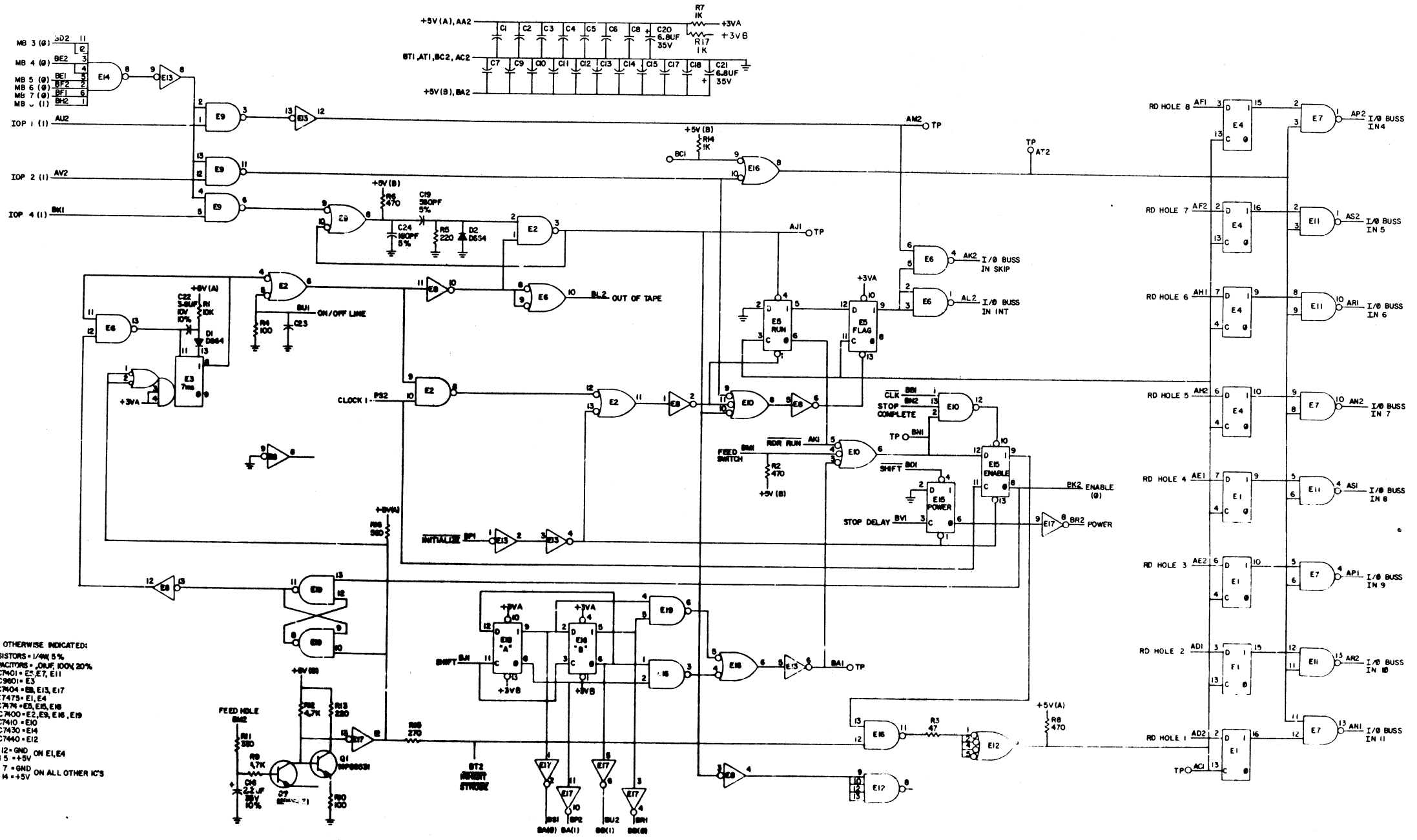
DRN Rb. Miller	DATE 2-18-67
CHK'D [Signature]	DATE 9/22/67
PROD 4/0	DATE 7/19/67

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3494	SAME		
DEC3790	2N3790		
DEC6534B	MP6534		
D862	1N245		
MR2066	1N4003		

EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

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

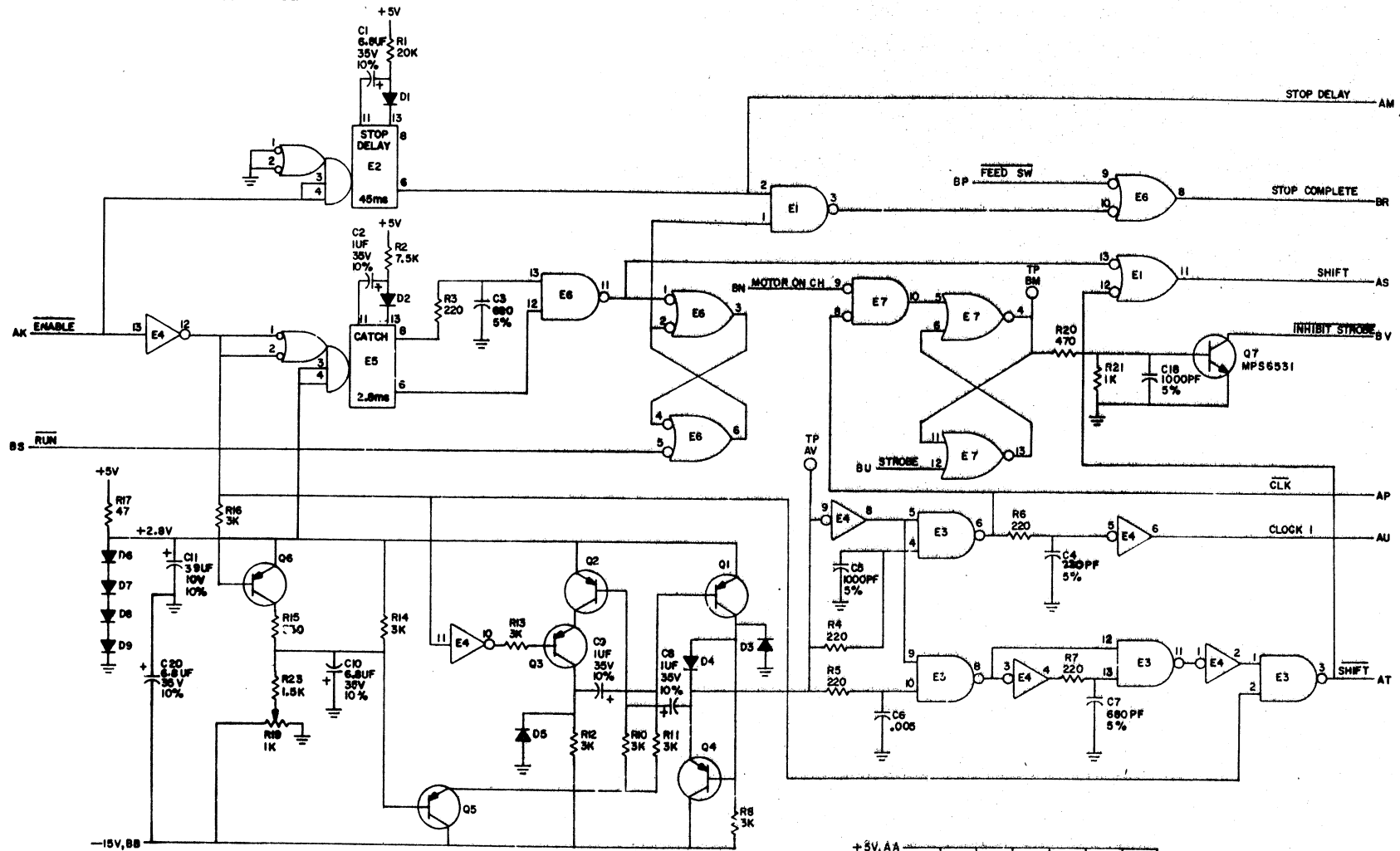


TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
MP35531	MP34531	2444	1R3409

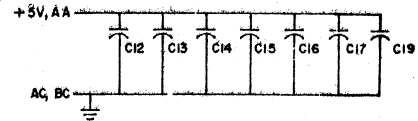
TITLE			
REV	DATE	BY	CHK
1	1/11/71	DEC	CS
EQUIPMENT CORPORATION			
M7050-0-1			
PRINTED CIRCUIT REV			

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UNLESS OTHERWISE INDICATED:
 TRANSISTORS = DEC6534D
 DIODES = D644
 RESISTORS = 1/4W, 5%
 CAPACITORS = .01UF, 100V, 20%
 E1, E3, E6 = DEC7400
 E4 = DEC7404
 E2, E5 = DEC9601
 PIN 7 = GND ON ALL IC'S
 PIN 14 = +5V ON ALL IC'S
 E7 = DEC7402



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

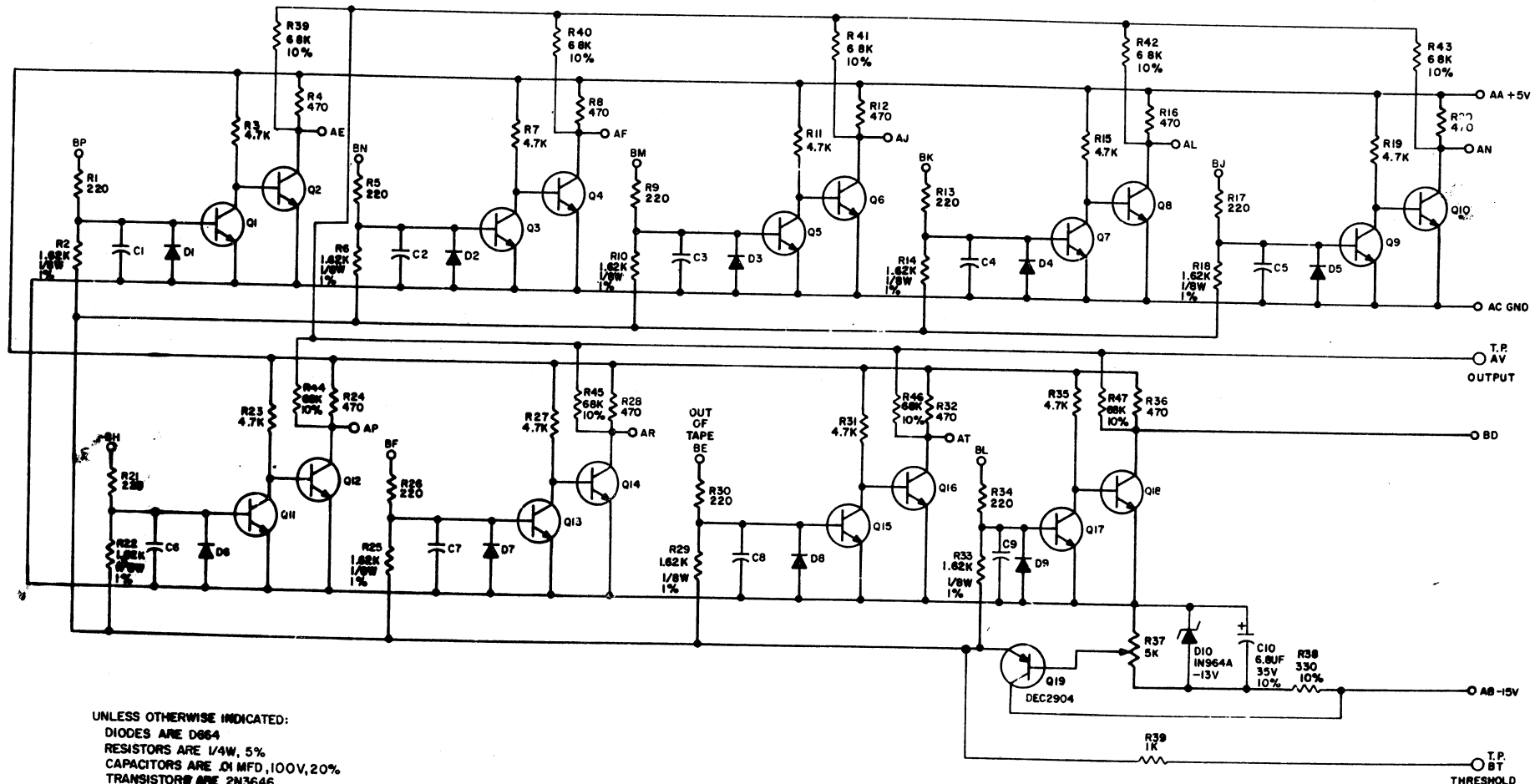
REV.	CHG. NO.	REV.
1	00002	E
2	00005	K
3	00007	L

DRN	M. MALLER	DATE	10/16/67
CHK'D	R. SILVERMAN	DATE	11/2/67
ENG.	R. S. BOGSE	DATE	11/2/67
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DATE	DEC	EIA	DEC
DEC 6534D	6534D	6534	6534
IN758	IN758	IN758	IN758
IN758	IN758	IN758	IN758
IN758	IN758	IN758	IN758

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

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

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

REVISIONS	CHK	CHG	NO.	REV.

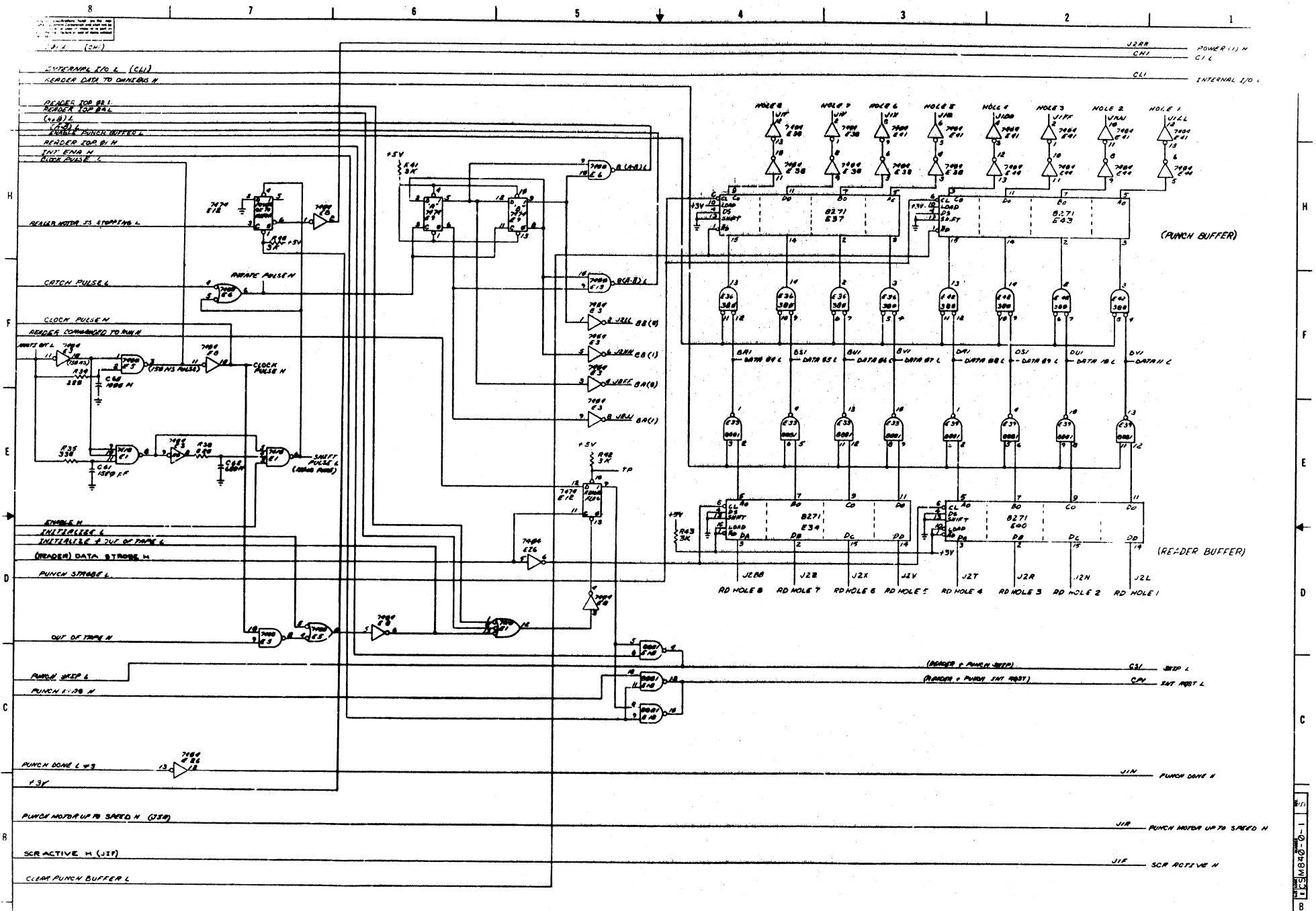
DEC FORM NO. DRC 102

DRN	DATE
REVISED	4/1/69
CHK'D	DATE
G. Janga	1/2/69
ENG	DATE
R. Abul	6/1/69
PROD.	DATE

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



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



QTY	DESCRIPTION	PART NO.	ITEM NO.
1	READER / PUNCH CONTROL	ECSM840-0-1	1
1	RELAY NONE		
1	WIRE		

DATE	BY	DESCRIPTION
10/13/54	JIF	DESIGN
10/13/54	JIF	CONSTRUCTION
10/13/54	JIF	TESTING
10/13/54	JIF	REVISION

REV.	DESCRIPTION	DATE
1	DESIGN	10/13/54
2	CONSTRUCTION	10/13/54
3	TESTING	10/13/54
4	REVISION	10/13/54

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
PC04-1				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
IF DIMALS	ANGLES	DATE	PARTS LIST	
XX - 02	10 30	6-2-72	DIGITAL EQUIPMENT CORPORATION	
X - 1		6-2-72	TITLE	
		6-2-72	MODULE IDENTIFICATION	
		6-2-72	LIST PC04	
REMOVE BURRS AND BREAK SHARP CORNERS TO SURE SIZE QUALITY		DATE	NEXT HIGHER ASSY	
		6-2-72	A-M-L-PC04	
MATERIAL		SCALE	SIZE CODE	NUMBER
		1 OF 1	DMU	PC04-2-3
FINISH		SHEET	DIST	REV
				D

PC04-0-3

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

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

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

* NOTE: G918 MUST BE D BOARD REV OR HIGHER

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

DEC FORM NO
 DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

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

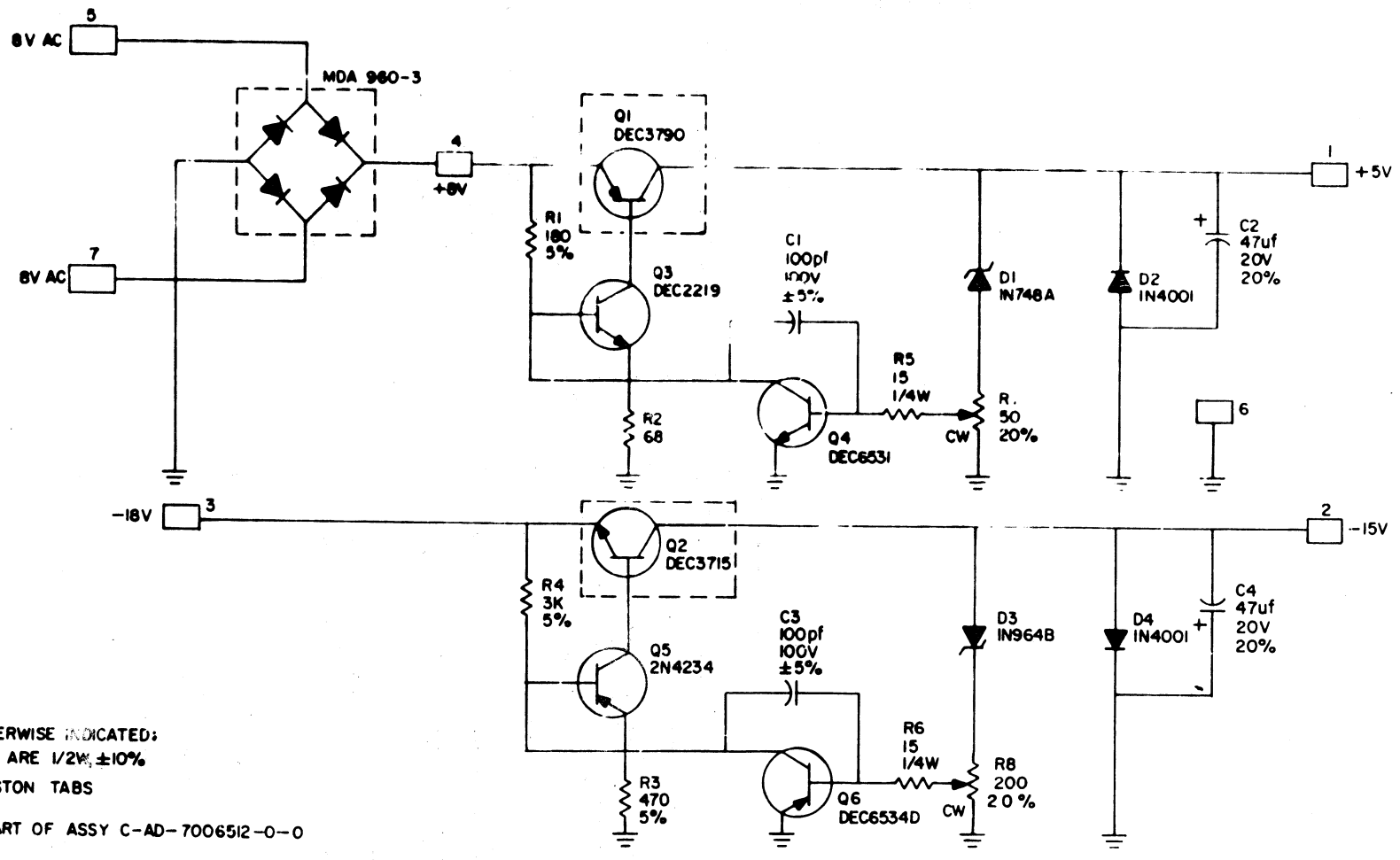
ITEM NO	DWG NO	PART NO.	DESCRIPTION	PC04-BB-0	PC04-CT-0M	PC04-M-0	PC04-RI-0	PC04-RT-0	PC04-RU-0
1	G918	*	PHOTO AMPLIFIER	1	-	-	-	-	1
2	W040		SOLENOID DRIVER (-)	-	-	-	-	-	-
3	W512		POSITIVE LEVEL CONVERTER	-	-	-	-	-	-
4	W040		SOLENOID DRIVER (-)	4	4	4	4	-	-
5	W044		SOLENOID DRIVER (+ 8L)	3	3	3	3	-	-
	M113		I0-2 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
 SHEET 2 OF 2
 NUMBER: PC04-0-3
 REV: D
 ECO NO.: [blank]

DEC FORM NO
 DRA 110

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY COPYRIGHT 1970 BY DIGITAL EQUIPMENT CORPORATION



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

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

DIGITAL EQUIPMENT CORPORATION
ENGINEERING SPECIFICATION

DATE 11/11/69

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

General Information:

The PC64 comes in eight (8) configurations. They are the PC64P, PL (basic punch), PC64R, RB (basic reader), PC64S, RB, RL, (punch and reader), and PC64C (punch, SCR, and reader). The 50 cycle variations are PC64PA, PR; PC64RA, RC. and PC64CA with no 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

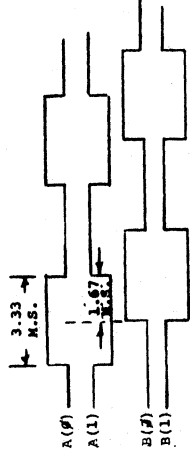
Logic Levels: Positive Logic Systems
Outputs
 Logic 1 is >+2.4v
 Logic 0 <+0.4v

Reader Signals:

Reference drawing MS-D-PC64-0-2

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

The timing chart and graph for these signals would be:



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

PC64 Engineering Specification

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

Power Supply

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

Power Requirements

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

Reader

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

(d) Type of tape

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

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

DIGITAL EQUIPMENT CORPORATION
ENGINEERING SPECIFICATION

DATE 11/11/69

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

General Information:

The PC64 comes in eight (8) configurations. They are the PC64P, PL (basic punch), PC64R, RB (basic reader), PC64S, RB, RL, (punch and reader), and PC64C (punch, SCR, and reader). The 50 cycle variations are PC64PA, PR; PC64RA, RC. and PC64CA with no 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

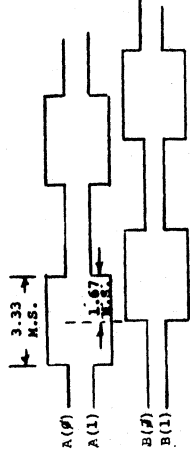
Logic Levels: Positive Logic Systems
Outputs
 Logic 1 is >+2.4v
 Logic 0 <+0.4v

Reader Signals:

Reference drawing MS-D-PC64-0-2

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

The timing chart and graph for these signals would be:



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

PC64 Engineering Specification

- (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 ar.1 <+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-PC64-0-2

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

DEC FORM NO. DRA 10A
 SIZE CODE A
 NUMBER PC64-0-4
 SHEET 2 OF 7

PC64 Engineering Specification

- 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 $\pm 5\%$

Marvline

- +5v is +5v $\pm 5v$
 -15v is -15v $\pm 20\%$
 -30v is -36v $\pm 5\%$

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

CONTINUATION SHEET		TABLE 1-1 PC94 Configuration					SIZE CODE	PCO-0-4	NUMBER	REV
CONFIGURATION	REFERENCE BLOCK SCHEMATICS	PUNCH MODULES	INTERFACE CABLES	READER MODULES	APPLICABLE COMPUTERS	A	A	7	A	
PC94P	D/BS/PC94-0-2 Page 1 of 3	None	1-W077A	N/A	PDP8; PDP8/S; PDP8/I					
PC94PL	D/BS/PC94-0-2 Page 3 of 3	3-M044	1-W033A	N/A	PDP8/L; PDP8E					
PC94R	D/BS/PC94-0-2 Page 1 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S					
PC94RB	D/BS/PC94-0-2 Pages 2 and 3 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8/I; PDP8/L PDP8/E					
PC94B	D/BS/PC94-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S					
PC94BB	D/BS/PC94-0-2 Page 2 of 3	None	2-W077A	1-G918 4-W040	PDP8/I					
PC94BL	D/BS/PC94-0-2 Page 3 of 3	3-M044	2-W033C	1-G918 4-W040	PDP8/L PDP8/E					
PC94C	D/BS/PC94-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP9; PDP1#					

DEC FORM NO 16-1022
DIA 108

SIZE CODE
PCO-0-4
NUMBER
7
REV
A

SHEET 5 OF 7

ENGINEERING SPECIFICATION		CONTINUATION SHEET		
TITLE PC94 Engineering Specification - Test Procedure for Reader				
B.	-15 volts on A98B and B98B (± 1 volts).			
C.	-30 volts on B96V and B92D (-32 to -40 volts).			
3.	Shut power off and insert modules for PC94.			
4.	Apply power and make same check as in 2.			
5.	Put cap. (6.8uf, 10-5306) between pins A93A (+) and A93C (-) and between pins B93C (+) and B93B (-).			

DEC FORM NO 16-1022
DIA 108

SIZE CODE
A

PCO4-0-4

NUMBER
7

REV
A

SHEET 7 OF 7

CONTINUATION SHEET		TABLE 1-1 PC94 Configuration					SIZE CODE	PCO-0-4	NUMBER	REV
CONFIGURATION	REFERENCE BLOCK SCHEMATICS	PUNCH MODULES	INTERFACE CABLES	READER MODULES	APPLICABLE COMPUTERS	A	A	7	A	
PC94P	D/BS/PC94-0-2 Page 1 of 3	None	1-W077A	N/A	PDP8; PDP8/S; PDP8/I					
PC94PL	D/BS/PC94-0-2 Page 3 of 3	3-M044	1-W033A	N/A	PDP8/L; PDP8E					
PC94R	D/BS/PC94-0-2 Page 1 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S					
PC94RB	D/BS/PC94-0-2 Pages 2 and 3 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8/I; PDP8/L PDP8/E					
PC94B	D/BS/PC94-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S					
PC94BB	D/BS/PC94-0-2 Page 2 of 3	None	2-W077A	1-G918 4-W040	PDP8/I					
PC94BL	D/BS/PC94-0-2 Page 3 of 3	3-M044	2-W033C	1-G918 4-W040	PDP8/L PDP8/E					
PC94C	D/BS/PC94-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP9; PDP1#					

DEC FORM NO 16-1022
DIA 108

SIZE CODE
PCO-0-4

NUMBER
7

REV
A

SHEET 6 OF 7

CONTINUATION SHEET		TABLE 1-1 PC94 Configuration					SIZE CODE	PCO-0-4	NUMBER	REV
CONFIGURATION	REFERENCE BLOCK SCHEMATICS	PUNCH MODULES	INTERFACE CABLES	READER MODULES	APPLICABLE COMPUTERS	A	A	7	A	
PC94P	D/BS/PC94-0-2 Page 1 of 3	None	1-W077A	N/A	PDP8; PDP8/S; PDP8/I					
PC94PL	D/BS/PC94-0-2 Page 3 of 3	3-M044	1-W033A	N/A	PDP8/L; PDP8E					
PC94R	D/BS/PC94-0-2 Page 1 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S					
PC94RB	D/BS/PC94-0-2 Pages 2 and 3 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8/I; PDP8/L PDP8/E					
PC94B	D/BS/PC94-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S					
PC94BB	D/BS/PC94-0-2 Page 2 of 3	None	2-W077A	1-G918 4-W040	PDP8/I					
PC94BL	D/BS/PC94-0-2 Page 3 of 3	3-M044	2-W033C	1-G918 4-W040	PDP8/L PDP8/E					
PC94C	D/BS/PC94-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP9; PDP1#					

DEC FORM NO 16-1022
DIA 108

SIZE CODE
PCO-0-4

NUMBER
7

REV
A

SHEET 6 OF 7

CONTINUATION SHEET		TABLE 1-1 PC94 Configuration					SIZE CODE	PCO-0-4	NUMBER	REV
CONFIGURATION	REFERENCE BLOCK SCHEMATICS	PUNCH MODULES	INTERFACE CABLES	READER MODULES	APPLICABLE COMPUTERS	A	A	7	A	
PC94P	D/BS/PC94-0-2 Page 1 of 3	None	1-W077A	N/A	PDP8; PDP8/S; PDP8/I					
PC94PL	D/BS/PC94-0-2 Page 3 of 3	3-M044	1-W033A	N/A	PDP8/L; PDP8E					
PC94R	D/BS/PC94-0-2 Page 1 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S					
PC94RB	D/BS/PC94-0-2 Pages 2 and 3 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8/I; PDP8/L PDP8/E					
PC94B	D/BS/PC94-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S					
PC94BB	D/BS/PC94-0-2 Page 2 of 3	None	2-W077A	1-G918 4-W040	PDP8/I					
PC94BL	D/BS/PC94-0-2 Page 3 of 3	3-M044	2-W033C	1-G918 4-W040	PDP8/L PDP8/E					
PC94C	D/BS/PC94-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP9; PDP1#					

DEC FORM NO 16-1022
DIA 108

SIZE CODE
PCO-0-4

NUMBER
7

REV
A

SHEET 6 OF 7

CONTINUATION SHEET		TABLE 1-1 PC94 Configuration					SIZE CODE	PCO-0-4	NUMBER	REV
CONFIGURATION	REFERENCE BLOCK SCHEMATICS	PUNCH MODULES	INTERFACE CABLES	READER MODULES	APPLICABLE COMPUTERS	A	A	7	A	
PC94P	D/BS/PC94-0-2 Page 1 of 3	None	1-W077A	N/A	PDP8; PDP8/S; PDP8/I					
PC94PL	D/BS/PC94-0-2 Page 3 of 3	3-M044	1-W033A	N/A	PDP8/L; PDP8E					
PC94R	D/BS/PC94-0-2 Page 1 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S					
PC94RB	D/BS/PC94-0-2 Pages 2 and 3 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8/I; PDP8/L PDP8/E					
PC94B	D/BS/PC94-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S					
PC94BB	D/BS/PC94-0-2 Page 2 of 3	None	2-W077A	1-G918 4-W040	PDP8/I					
PC94BL	D/BS/PC94-0-2 Page 3 of 3	3-M044	2-W033C	1-G918 4-W040	PDP8/L PDP8/E					
PC94C	D/BS/PC94-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP9; PDP1#					

DEC FORM NO 16-1022
DIA 108

SIZE CODE
PCO-0-4

NUMBER
7

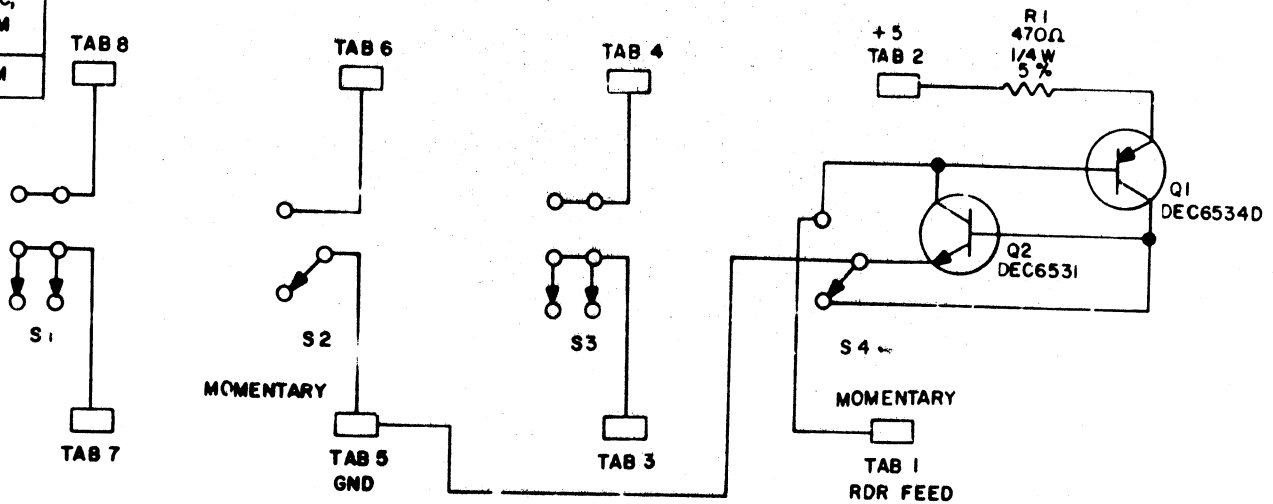
REV
A

SHEET 6 OF 7

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

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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	6	5408310	1
2	8	5408310	2
3	8	5408310	3
4	8	5408310	4
5	8	5408310	5

DESIGNED BY	DATE
<i>M. M. ...</i>	8-1-68
CHECKED BY	DATE
<i>M. M. ...</i>	8-7-68
APPROVED BY	DATE
<i>J. C. ...</i>	5/12/69

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

digital
EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

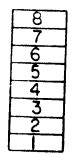
TITLE PCC SWITCH BOARD
 5408310

SIZE	CODE	NUMBER	REV
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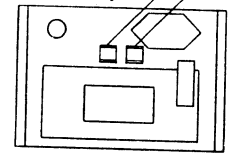
PRINTED CIRCUIT REV D

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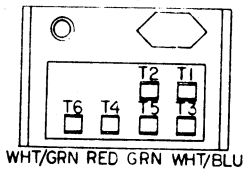
TS
(TOP VIEW)



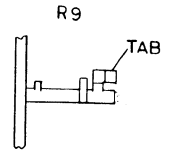
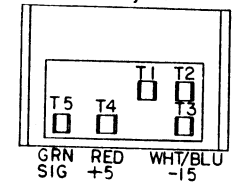
SCR DRIVER
5408385
(PC04-C,CA)



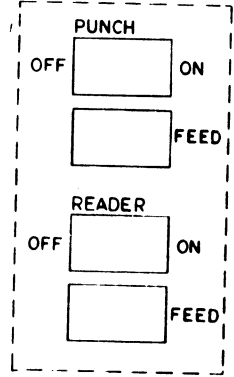
SCR DRIVER
7006720 (W/5408384 REV A)
(PC04-CL,CM)



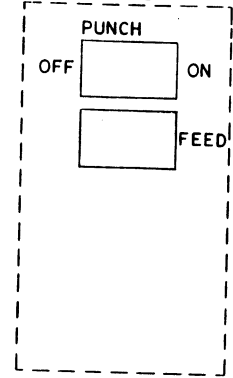
SCR DRIVER
7006720 (W/5408384 REV B)
(PC04-CL,CM)



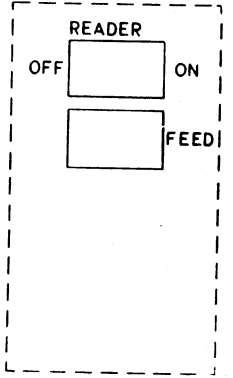
PC04-B,BA,BB,BC,BL,BM
5408310-4
DETAIL "A"



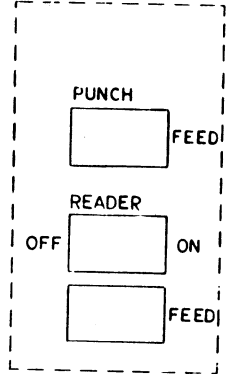
PC04-P,PA,PL,PM
5408935-0
DETAIL "B"



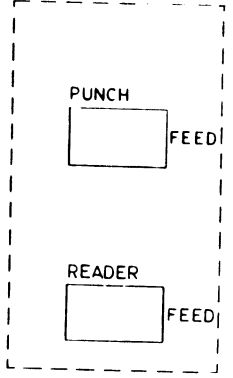
PC04-R,RB,RL
5408935-0
DETAIL "C"



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

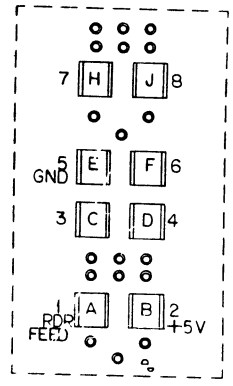
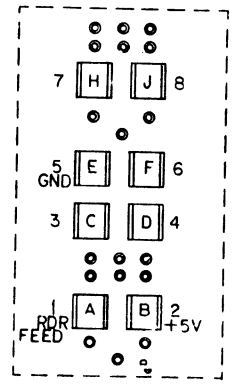
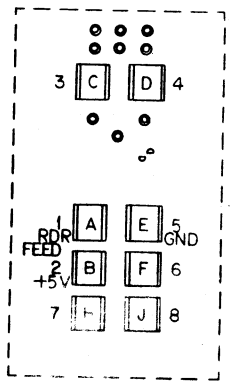
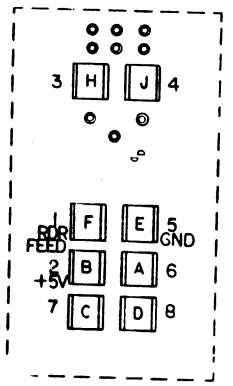
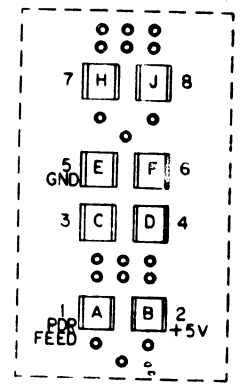


PC04-CL,CM
5408310-5
DETAIL "E"



FRONT VIEW

REAR VIEW



FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
PC04				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED (IN THE MARGIN IN INCHES)	DRN B. HUTNAK	DATE 1-10-69	digital EQUIPMENT CORPORATION MILFORD MASSACHUSETTS	
TOLERANCES	CHK'D R. CADWELL	DATE 6-5-69		
DECIMALS	ANGLES	ENG. G. BECKNER	DATE 6-6-69	TITLE PC04
XXX - DIM XX - 07 X - 1	10 30	PROJ. ENG. G. BECKNER	DATE 6-6-69	READ-75 PUNCH (SW E TERM LOCATIONS)
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE FINISH	PROD. B. ANTICUCCIO	DATE 6-6-69		
MATERIAL	NEXT HIGHER ASSY		SIZE CODE	NUMBER
FINISH	A-ML-PC01-0		DUA	PC04-0-0
	SCALE		DIST	REV F
	SHEET 3 OF 4			

REV P
DUA PC04-0-0

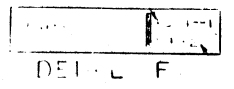
A

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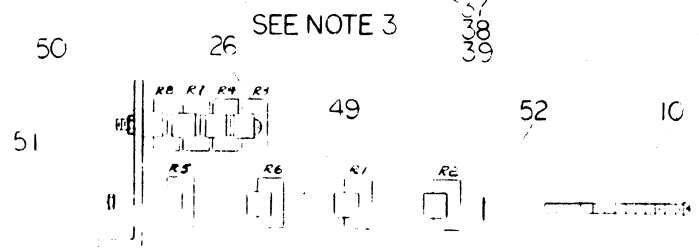
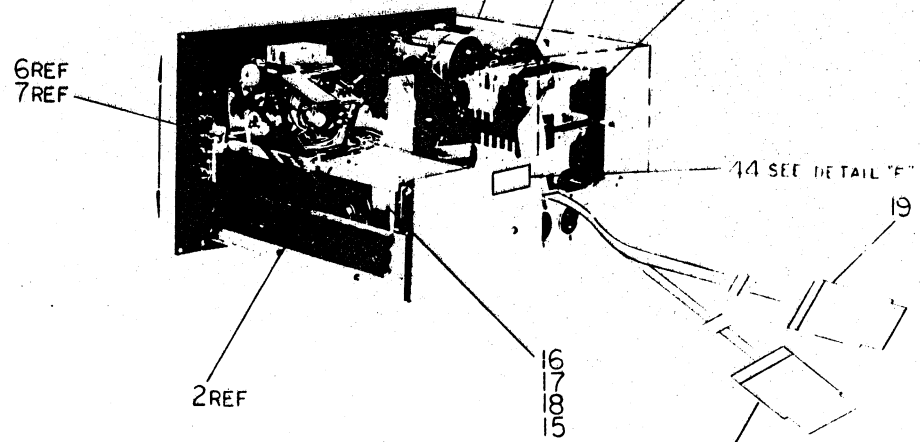
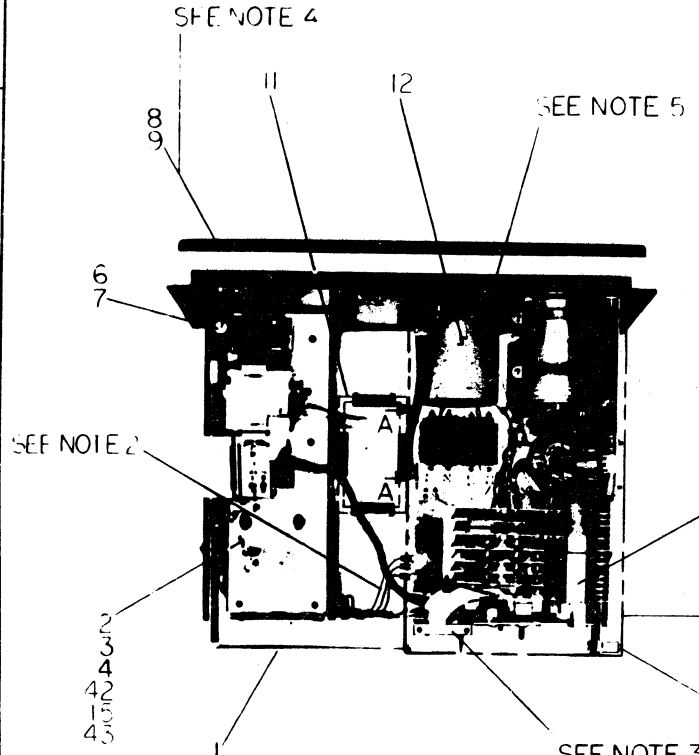
3 0-0-1000000 2

STAMP COMPLETE MODIF. NO. HERE

SEE NOTE 7



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



VIEW A-A

QTY	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION			
UNLESS OTHERWISE SPECIFIED:		DATE: 1/11/61	
UNLESS OTHERWISE SPECIFIED:		DATE: 1/11/61	
DIMENSIONS IN INCHES		DATE: 1/11/61	
TOLERANCES		DATE: 1/11/61	
DECIMALS FRACTIONS ANGLES		DATE: 1/11/61	
.009 .004 .001 .002 .005 .010 .015 .020 .030 .040 .050 .060 .070 .080 .090 .100 .125 .150 .175 .200 .250 .300 .375 .450 .500 .625 .750 .875 .900 .950 .999		DATE: 1/11/61	
FINISH SURFACE QUALITY		DATE: 1/11/61	
REMOVE BURRS AND DEBARR		DATE: 1/11/61	
CHAMFER		DATE: 1/11/61	
MATERIAL		DATE: 1/11/61	
NEXT HIGHER A.S.Y.		DATE: 1/11/61	
SCALE: NINE		DATE: 1/11/61	
SHEET 2 OF 4		DATE: 1/11/61	
FINISH		DATE: 1/11/61	
TITLE: PC04 READER AND PUNCH		DATE: 1/11/61	
SIZE CODE: DUA-PC04-0-0		DATE: 1/11/61	
NUMBER: 1		DATE: 1/11/61	
REV.:		DATE: 1/11/61	
DIST.:		DATE: 1/11/61	

REV. 1
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REV. 1
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COLOR/AWG	WIRE	CONNECTION	REMARKS
RED #18	*9	TS - 6	
BLK & YEL	PUNCH MOTOR	TS - 6	IF PUNCH PRESENT
RED #18	*7	SW BOARD - "A"	SEE DETAIL "A" OR "B" OR "C"

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

COLOR/AWG	WIRE	CONNECTION	REMARKS
GRY/RED #18	*7	-	SLEEPER WIRE ITEM # 458 TIE BACK

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

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

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

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

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

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

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

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

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

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

NOTE: SEE SHEET 3 FOR TERMINAL IDENTIFICATION DIAGRAMS.

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

FIRST USED ON OPTION/MODEL PC04-0	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. B. HUTNAK	DATE 4-10-69	DIGITAL EQUIPMENT CORPORATION WATYARD MASSACHUSETTS	
DECIMALS	CHK'D R. CARVILLI	DATE 6-5-69	TITLE	
ANGLES	ENG. COO. BECKNER	DATE 6-6-69	PC04	
XXX - 006	PROJ. ENG. COO. BECKNER	DATE 6-6-69	READER & PUNCH (WIRING)	
XX - 02	PROD. B. ANTONUCCIO	DATE 6-6-69	SIZE CODE	
X - 1	NEXT HIGHER ASSY.		NUMBER	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	A-ML-PC04		DUA PC04-0-0	
MATERIAL	FINISH	SCALE	SHEET	REV
			7 OF 7	P

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

REV. CHANGE NO.	REV.	FIRST USED ON OPTION/MODEL PCØ4 (ALL)	UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ± .008 ± 1/64 ± 0°30' FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	DRN. R. HUTNAK	DATE 4-10-69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE PCØ4 READER AND PUNCH
	CHK.			CHK'D. R. CARVELLI	DATE 6-5-69		
				ENG. GEO. BECKNER	DATE 6-6-69		
				PROD. R. ANTONUCCIO	DATE 6-6-69		
			MATERIAL +-----+	NEXT HIGHER ASSY. D-UA-PCØ4-Ø-Ø	SCALE +-----+	SIZE CODE CPL PCØ4-Ø-Ø	NUMBER REV. P
			FINISH +-----+	SHEET 2 OF 2	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-B,BA, D,DA, F,FB, H,HA, J,JB, L,LC, N,NA, P,PA, R,RA, T,TA, V,VA, X,XA, Z,ZA	K-WL-PC04-0-6
7006268-2	PC04-C,LC, E,EA, G,GC, I,IA, K,KB, M,MA, O,OA, Q,QA, S,SA, U,UA, W,WA, Y,YA	K-WL-PC04-0-7

- NOTES:
1. CONNECTIONS ON ITEM 14 TO BE SOLDERED AND LOCATED AT PRACTICAL HEIGHT ABOVE THE BOARD TO GND LUG AS SHOWN.
 2. CONNECTOR BLOCKS TO BE USED TO GND LUG AS SHOWN.
 3. USE BLUE WIRE (ITEM 5) FOR HAND WRAPPED WIRING.
 4. ~~REWORK/REPAIR~~
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 - B085-B07E
ADD - A02N-A05H
 B09E-B07E
 A02E-A01N
C. DELETE 100Ω RESISTOR FROM A08A-A06F

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A03A	A03C	5.6µF
11	CAP	-	B07A	B07C	5.6µF

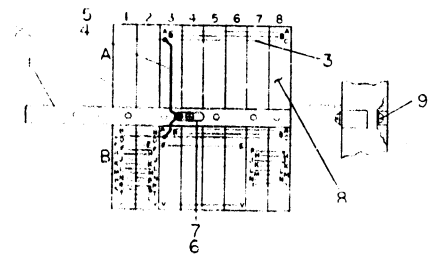
7006268-2

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A03A	A03C	-
11	CAP	-	B07B	B07C	+
12	RES		A08A	A08F	100Ω
13	RES		A09E	A09C	300Ω

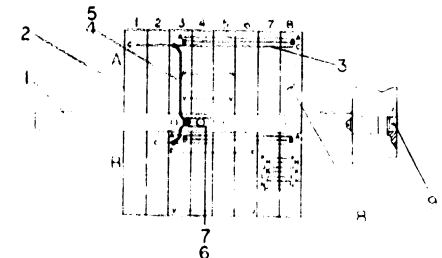
7006268-1

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A03A	A03C	-
11	CAP	-	B07B	B07C	+
12	RES		A08A	A08F	100Ω

7006268-0

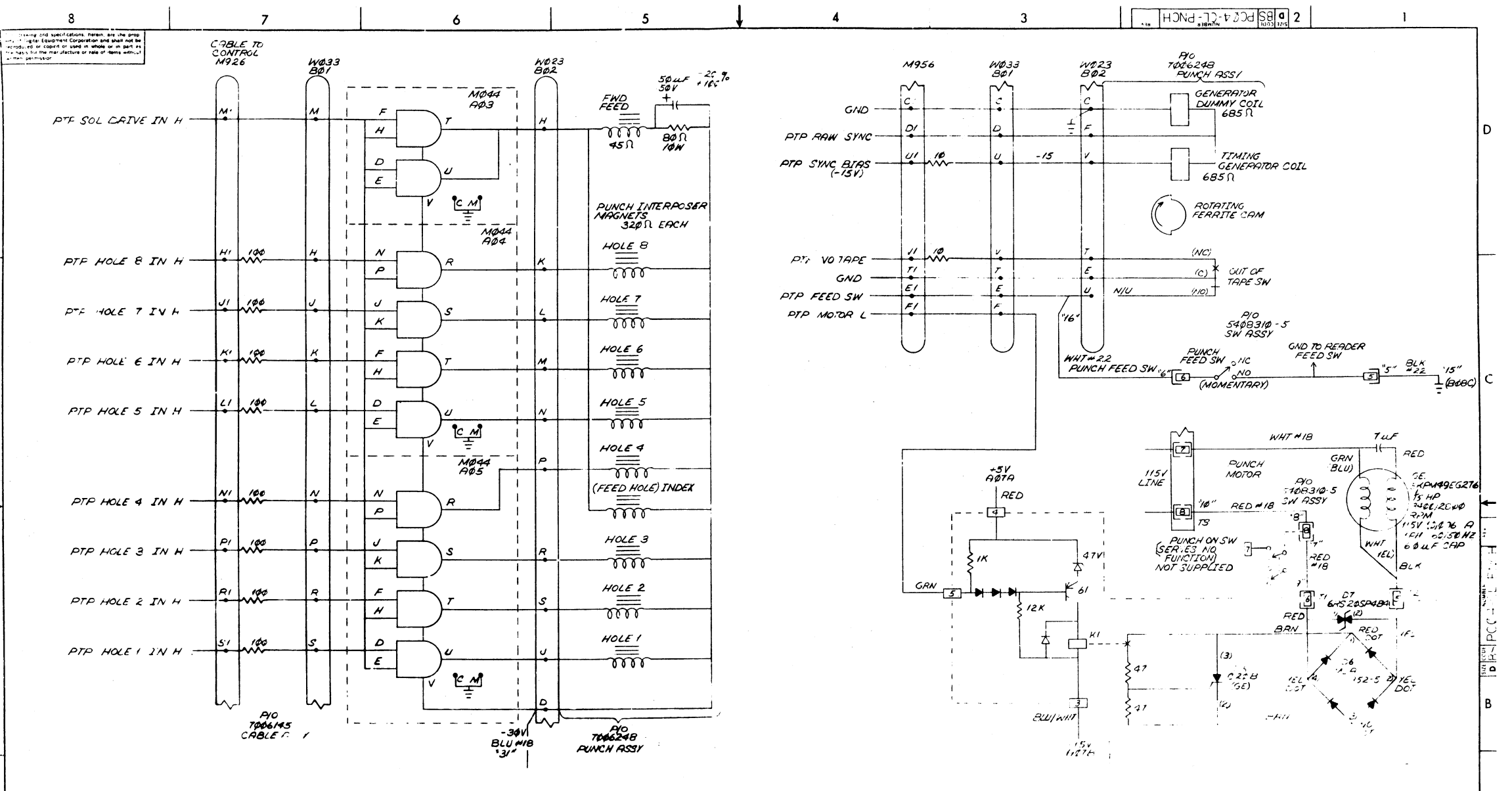


7006268-0
(B, S, BT)



7006268-1
(HL, AL, BM, BF)
7006268-1
(110)

REV	DATE	BY	CHKD	DESCRIPTION
1	10/10/68	W. L. LUIS		ISSUED FOR PRODUCTION
2	11/10/68	W. L. LUIS		REVISED TO ADD PARTS LIST
3	12/10/68	W. L. LUIS		REVISED TO ADD PARTS LIST
4	1/10/69	W. L. LUIS		REVISED TO ADD PARTS LIST
5	2/10/69	W. L. LUIS		REVISED TO ADD PARTS LIST
6	3/10/69	W. L. LUIS		REVISED TO ADD PARTS LIST
7	4/10/69	W. L. LUIS		REVISED TO ADD PARTS LIST
8	5/10/69	W. L. LUIS		REVISED TO ADD PARTS LIST
9	6/10/69	W. L. LUIS		REVISED TO ADD PARTS LIST
10	7/10/69	W. L. LUIS		REVISED TO ADD PARTS LIST
11	8/10/69	W. L. LUIS		REVISED TO ADD PARTS LIST
12	9/10/69	W. L. LUIS		REVISED TO ADD PARTS LIST
13	10/10/69	W. L. LUIS		REVISED TO ADD PARTS LIST
14	11/10/69	W. L. LUIS		REVISED TO ADD PARTS LIST
15	12/10/69	W. L. LUIS		REVISED TO ADD PARTS LIST
16	1/10/70	W. L. LUIS		REVISED TO ADD PARTS LIST
17	2/10/70	W. L. LUIS		REVISED TO ADD PARTS LIST
18	3/10/70	W. L. LUIS		REVISED TO ADD PARTS LIST
19	4/10/70	W. L. LUIS		REVISED TO ADD PARTS LIST
20	5/10/70	W. L. LUIS		REVISED TO ADD PARTS LIST
21	6/10/70	W. L. LUIS		REVISED TO ADD PARTS LIST
22	7/10/70	W. L. LUIS		REVISED TO ADD PARTS LIST
23	8/10/70	W. L. LUIS		REVISED TO ADD PARTS LIST
24	9/10/70	W. L. LUIS		REVISED TO ADD PARTS LIST
25	10/10/70	W. L. LUIS		REVISED TO ADD PARTS LIST
26	11/10/70	W. L. LUIS		REVISED TO ADD PARTS LIST
27	12/10/70	W. L. LUIS		REVISED TO ADD PARTS LIST
28	1/10/71	W. L. LUIS		REVISED TO ADD PARTS LIST
29	2/10/71	W. L. LUIS		REVISED TO ADD PARTS LIST
30	3/10/71	W. L. LUIS		REVISED TO ADD PARTS LIST
31	4/10/71	W. L. LUIS		REVISED TO ADD PARTS LIST
32	5/10/71	W. L. LUIS		REVISED TO ADD PARTS LIST
33	6/10/71	W. L. LUIS		REVISED TO ADD PARTS LIST
34	7/10/71	W. L. LUIS		REVISED TO ADD PARTS LIST
35	8/10/71	W. L. LUIS		REVISED TO ADD PARTS LIST
36	9/10/71	W. L. LUIS		REVISED TO ADD PARTS LIST
37	10/10/71	W. L. LUIS		REVISED TO ADD PARTS LIST
38	11/10/71	W. L. LUIS		REVISED TO ADD PARTS LIST
39	12/10/71	W. L. LUIS		REVISED TO ADD PARTS LIST
40	1/10/72	W. L. LUIS		REVISED TO ADD PARTS LIST
41	2/10/72	W. L. LUIS		REVISED TO ADD PARTS LIST
42	3/10/72	W. L. LUIS		REVISED TO ADD PARTS LIST
43	4/10/72	W. L. LUIS		REVISED TO ADD PARTS LIST
44	5/10/72	W. L. LUIS		REVISED TO ADD PARTS LIST
45	6/10/72	W. L. LUIS		REVISED TO ADD PARTS LIST
46	7/10/72	W. L. LUIS		REVISED TO ADD PARTS LIST
47	8/10/72	W. L. LUIS		REVISED TO ADD PARTS LIST
48	9/10/72	W. L. LUIS		REVISED TO ADD PARTS LIST
49	10/10/72	W. L. LUIS		REVISED TO ADD PARTS LIST
50	11/10/72	W. L. LUIS		REVISED TO ADD PARTS LIST
51	12/10/72	W. L. LUIS		REVISED TO ADD PARTS LIST
52	1/10/73	W. L. LUIS		REVISED TO ADD PARTS LIST
53	2/10/73	W. L. LUIS		REVISED TO ADD PARTS LIST
54	3/10/73	W. L. LUIS		REVISED TO ADD PARTS LIST
55	4/10/73	W. L. LUIS		REVISED TO ADD PARTS LIST
56	5/10/73	W. L. LUIS		REVISED TO ADD PARTS LIST
57	6/10/73	W. L. LUIS		REVISED TO ADD PARTS LIST
58	7/10/73	W. L. LUIS		REVISED TO ADD PARTS LIST
59	8/10/73	W. L. LUIS		REVISED TO ADD PARTS LIST
60	9/10/73	W. L. LUIS		REVISED TO ADD PARTS LIST
61	10/10/73	W. L. LUIS		REVISED TO ADD PARTS LIST
62	11/10/73	W. L. LUIS		REVISED TO ADD PARTS LIST
63	12/10/73	W. L. LUIS		REVISED TO ADD PARTS LIST
64	1/10/74	W. L. LUIS		REVISED TO ADD PARTS LIST
65	2/10/74	W. L. LUIS		REVISED TO ADD PARTS LIST
66	3/10/74	W. L. LUIS		REVISED TO ADD PARTS LIST
67	4/10/74	W. L. LUIS		REVISED TO ADD PARTS LIST
68	5/10/74	W. L. LUIS		REVISED TO ADD PARTS LIST
69	6/10/74	W. L. LUIS		REVISED TO ADD PARTS LIST
70	7/10/74	W. L. LUIS		REVISED TO ADD PARTS LIST
71	8/10/74	W. L. LUIS		REVISED TO ADD PARTS LIST
72	9/10/74	W. L. LUIS		REVISED TO ADD PARTS LIST
73	10/10/74	W. L. LUIS		REVISED TO ADD PARTS LIST
74	11/10/74	W. L. LUIS		REVISED TO ADD PARTS LIST
75	12/10/74	W. L. LUIS		REVISED TO ADD PARTS LIST
76	1/10/75	W. L. LUIS		REVISED TO ADD PARTS LIST
77	2/10/75	W. L. LUIS		REVISED TO ADD PARTS LIST
78	3/10/75	W. L. LUIS		REVISED TO ADD PARTS LIST
79	4/10/75	W. L. LUIS		REVISED TO ADD PARTS LIST
80	5/10/75	W. L. LUIS		REVISED TO ADD PARTS LIST
81	6/10/75	W. L. LUIS		REVISED TO ADD PARTS LIST
82	7/10/75	W. L. LUIS		REVISED TO ADD PARTS LIST
83	8/10/75	W. L. LUIS		REVISED TO ADD PARTS LIST
84	9/10/75	W. L. LUIS		REVISED TO ADD PARTS LIST
85	10/10/75	W. L. LUIS		REVISED TO ADD PARTS LIST
86	11/10/75	W. L. LUIS		REVISED TO ADD PARTS LIST
87	12/10/75	W. L. LUIS		REVISED TO ADD PARTS LIST
88	1/10/76	W. L. LUIS		REVISED TO ADD PARTS LIST
89	2/10/76	W. L. LUIS		REVISED TO ADD PARTS LIST
90	3/10/76	W. L. LUIS		REVISED TO ADD PARTS LIST
91	4/10/76	W. L. LUIS		REVISED TO ADD PARTS LIST
92	5/10/76	W. L. LUIS		REVISED TO ADD PARTS LIST
93	6/10/76	W. L. LUIS		REVISED TO ADD PARTS LIST
94	7/10/76	W. L. LUIS		REVISED TO ADD PARTS LIST
95	8/10/76	W. L. LUIS		REVISED TO ADD PARTS LIST
96	9/10/76	W. L. LUIS		REVISED TO ADD PARTS LIST
97	10/10/76	W. L. LUIS		REVISED TO ADD PARTS LIST
98	11/10/76	W. L. LUIS		REVISED TO ADD PARTS LIST
99	12/10/76	W. L. LUIS		REVISED TO ADD PARTS LIST
100	1/10/77	W. L. LUIS		REVISED TO ADD PARTS LIST
101	2/10/77	W. L. LUIS		REVISED TO ADD PARTS LIST
102	3/10/77	W. L. LUIS		REVISED TO ADD PARTS LIST
103	4/10/77	W. L. LUIS		REVISED TO ADD PARTS LIST
104	5/10/77	W. L. LUIS		REVISED TO ADD PARTS LIST
105	6/10/77	W. L. LUIS		REVISED TO ADD PARTS LIST
106	7/10/77	W. L. LUIS		REVISED TO ADD PARTS LIST
107	8/10/77	W. L. LUIS		REVISED TO ADD PARTS LIST
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111	12/10/77	W. L. LUIS		REVISED TO ADD PARTS LIST
112	1/10/78	W. L. LUIS		REVISED TO ADD PARTS LIST
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114	3/10/78	W. L. LUIS		REVISED TO ADD PARTS LIST
115	4/10/78	W. L. LUIS		REVISED TO ADD PARTS LIST
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117	6/10/78	W. L. LUIS		REVISED TO ADD PARTS LIST
118	7/10/78	W. L. LUIS		REVISED TO ADD PARTS LIST
119	8/10/78	W. L. LUIS		REVISED TO ADD PARTS LIST
120	9/10/78	W. L. LUIS		REVISED TO ADD PARTS LIST
121	10/10/78	W. L. LUIS		REVISED TO ADD PARTS LIST
122	11/10/78	W. L. LUIS		REVISED TO ADD PARTS LIST
123	12/10/78	W. L. LUIS		REVISED TO ADD PARTS LIST
124	1/10/79	W. L. LUIS		REVISED TO ADD PARTS LIST
125	2/10/79	W. L. LUIS		REVISED TO ADD PARTS LIST
126	3/10/79	W. L. LUIS		REVISED TO ADD PARTS LIST
127	4/10/79	W. L. LUIS		REVISED TO ADD PARTS LIST
128	5/10/79	W. L. LUIS		REVISED TO ADD PARTS LIST
129	6/10/79	W. L. LUIS		REVISED TO ADD PARTS LIST
130	7/10/79	W. L. LUIS		REVISED TO ADD PARTS LIST
131	8/10/79	W. L. LUIS		REVISED TO ADD PARTS LIST
132	9/10/79	W. L. LUIS		REVISED TO ADD PARTS LIST
133	10/10/79	W. L. LUIS		REVISED TO ADD PARTS LIST
134	11/10/79	W. L. LUIS		REVISED TO ADD PARTS LIST
135	12/10/79	W. L. LUIS		REVISED TO ADD PARTS LIST
136	1/10/80	W. L. LUIS		REVISED TO ADD PARTS LIST
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138	3/10/80	W. L. LUIS		REVISED TO ADD PARTS LIST
139	4/10/80	W. L. LUIS		REVISED TO ADD PARTS LIST
140	5/10/80	W. L. LUIS		REVISED TO ADD PARTS LIST
141	6/10/80	W. L. LUIS		REVISED TO ADD PARTS LIST
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143	8/10/80	W. L. LUIS		REVISED TO ADD PARTS LIST
144	9/10/80	W. L. LUIS		REVISED TO ADD PARTS LIST
145	10/10/80	W. L. LUIS		REVISED TO ADD PARTS LIST
146	11/10/80	W. L. LUIS		REVISED TO ADD PARTS LIST
147	12/10/80	W. L. LUIS		REVISED TO ADD PARTS LIST
148	1/10/81	W. L. LUIS		REVISED TO ADD PARTS LIST
149	2/10/81	W. L. LUIS		REVISED TO ADD PARTS LIST
150	3/10/81	W. L. LUIS		REVISED TO ADD PARTS LIST
151	4/10/81	W. L. LUIS		REVISED TO ADD PARTS LIST
152	5/10/81	W. L. LUIS		REVISED TO ADD PARTS LIST
153	6/10/81	W. L. LUIS		REVISED TO ADD PARTS LIST
154	7/10/81	W. L. LUIS		REVISED TO ADD PARTS LIST
155	8/10/81	W. L. LUIS		REVISED TO ADD PARTS LIST
156	9/10/81	W. L. LUIS		REVISED TO ADD PARTS LIST
157	10/10/81	W. L. LUIS		REVISED TO ADD PARTS LIST
158	11/10/81	W. L. LUIS		REVISED TO ADD PARTS LIST
159	12/10/81	W. L. LUIS		REVISED TO ADD PARTS LIST
160	1/10/82	W. L. LUIS		REVISED TO ADD PARTS LIST
161	2/10/82	W. L. LUIS		REVISED TO ADD PARTS LIST
162	3/10/82	W. L. LUIS		REVISED TO ADD PARTS LIST
163	4/10/82	W. L. LUIS		REVISED TO ADD PARTS LIST
164	5/10/82	W. L. LUIS		REVISED TO ADD PARTS LIST
165	6/10/82	W. L. LUIS		REVISED TO ADD PARTS LIST
166	7/10/82	W. L. LUIS		REVISED TO ADD PARTS LIST
167	8/10/82	W. L. LUIS		REVISED TO ADD PARTS LIST
168	9/10/82	W. L. LUIS		REVISED TO ADD PARTS LIST
169	10/10/82	W. L. LUIS		REVISED TO ADD PARTS LIST
170	11/10/82	W. L. LUIS		REVISED TO ADD PARTS LIST
171	12/10/82	W. L. LUIS		REVISED TO ADD PARTS LIST
172	1/10/83	W. L. LUIS		REVISED TO ADD PARTS LIST
173	2/10/83	W. L. LUIS		REVISED TO ADD PARTS LIST
174	3/10/83	W. L. LUIS		REVISED TO ADD PARTS LIST
175	4/10/83	W. L. LUIS		



REV	DATE	BY	CHKD

FINISH USED IN OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
PARTS LIST				
UNLESS OTHERWISE SPECIFIED TOLERANCES	DRN 20	DATE 7-2-71	digital EQUIPMENT CORPORATION WALTHAM, MASSACHUSETTS TITLE PUNCH PC04-CL-PNCH	
DECIMALS	1/16" - 1/32"	DATE 7-2-71		
ANGLES	10° - 30°	DATE 7-2-71		
REMOVE RUFFS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ ENG 7/2/71	DATE 7-2-71		
	PROD 7/2/71	DATE 7-2-71		
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV
FINISH	A-ML-PC04 2	D35	PC04-CL-PNCH	
	SCALE	SHEET	DIST	
	1 OF 1			

8

7

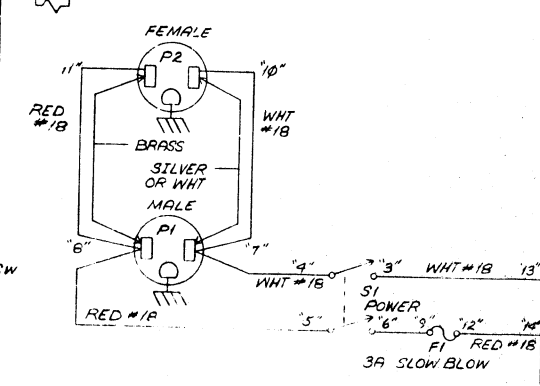
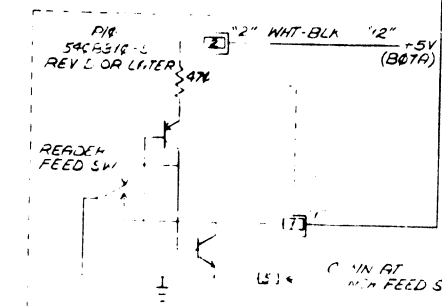
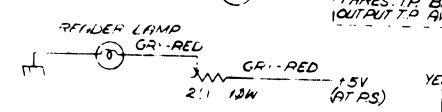
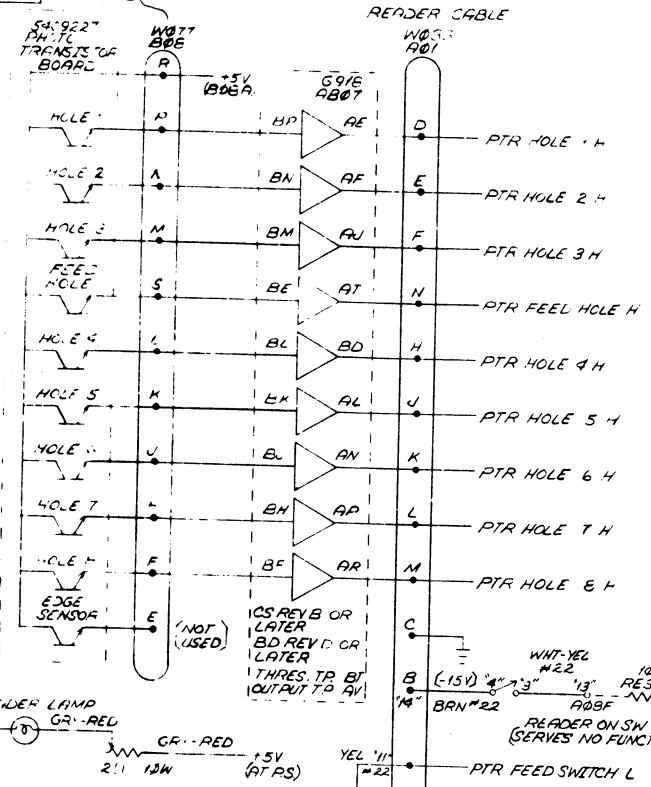
6

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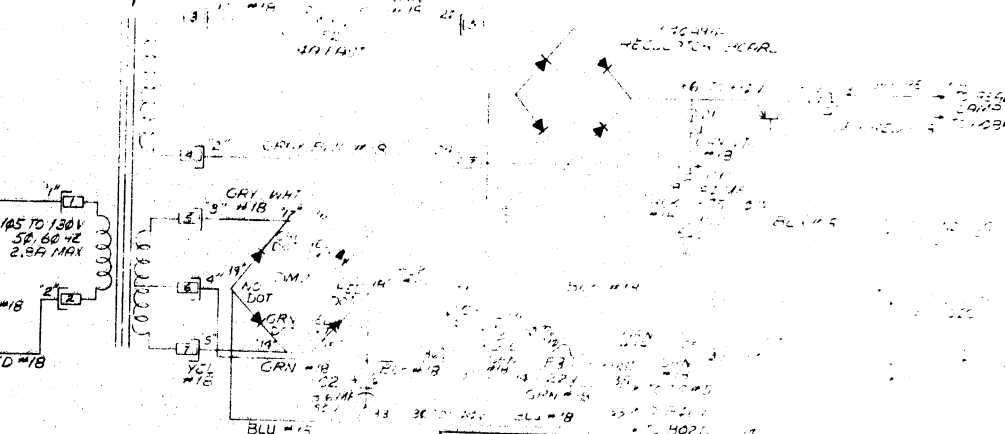
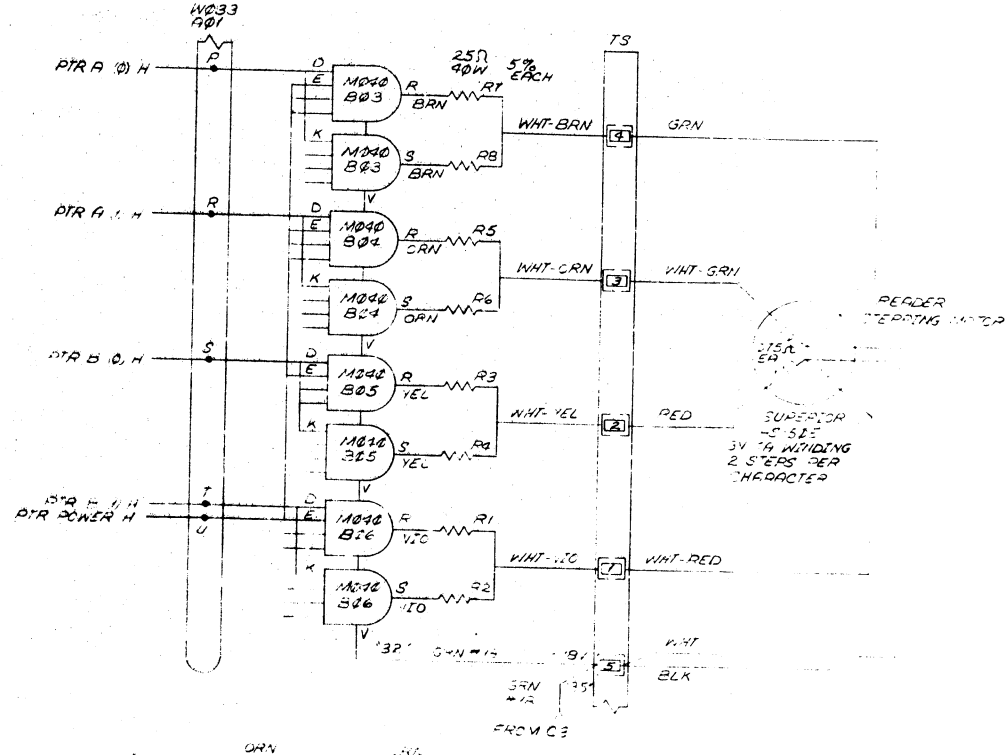
4

3

100-6267 PACTO TRANSISTOR
4851 REV. C LATER



READER CABLE



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES	DRN GJK	DATE 7/2/71	
FINISH	DATE	DATE	
REMOVE HOLES AND DRILL SHARP CORNERS SIMILARLY	PROJECTING	DATE	
MATERIAL	NEXT HIGH PAST		
FINISH	DATE	DATE	

8

7

6

5

4

3

2

1

4

3

1
REV

5

NUMBER

SIZE CODE
KWL

2

1


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B

B

A

A

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04				
PARTS LIST				
DRN <i>John Jones</i>	DATE 11-1-72	<div style="text-align: center;">  <p>digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS</p> </div>		
CHK'D <i>H. Gaudette</i>	DATE 2-7-72			
ENG	DATE 1-1-72			
PROJ. ENG.	DATE 1-1-72			
PROJ.	DATE 1-1-72			
NEXT DRAWING NO.		TITLE WIRELIST PC04 B, BA, BB, BC, C, CA, R, PA, R AND RB		
DATE		SIZE CODE KWL	NUMBER PC04-0-5	REV. H

REVISIONS	CHANGE NO.	REV
ORIGINATED		-
PC04 00014		
PC04		
10/1/72		
11/1/72		

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

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

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04				
PARTS LIST				
DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE WIRELIST PC04-BL, BM, PL, FM AND RL		
CHK'D	DATE			
ENG	DATE			
PROJ ENG	DATE			
PRCD	DATE			
NEXT HIGHER ASSEMBLY				
SCALE	SIZE CODE	NUMBER	REV	
	K WL	PC04-0-6	H	

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 8/13/70

TITLE PCB-E READER PUNCH CONTROL			
REVISIONS			
REV	DESCRIPTION	CHG NO	ORIG

REV	DATE	APPD BY	DATE

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ENG Larry Narhi	APPD <i>Larry Narhi</i>	SIZE CODE A	SP	NUMBER PC-8-FA-1	REV
DEC FORM NO. DRA 1084					

SHEET 1 OF 3

CONTINUATION SHEET

TITLE PCB-E READER PUNCH CONTROL

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

DEC FORM NO. DRA 1084

SIZE CODE A	SP	NUMBER PC-8-FA-1	REV

SHEET 3 OF 3

CONTINUATION SHEET

TITLE PCB-E READER PUNCH CONTROL

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

NOTE: Initialize sets Program Interrupt Enable Flag

DEC FORM NO. DRA 1084		SIZE CODE A	SP	NUMBER PC-8-FA-1	REV

SHEET 2 OF 3

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			LEGEND		QUANTITY / VARIATION														
ACCESSORY LIST			D DOCUMENT		PCB-E	PCB-EA	PCB-EF	PCB-EC					KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE	
			DN DOCUMENT CHANGE NOTICE																PA PAPER TAPE ASCII
MADE BY J. Mc Cluskey		CHECKED <i>[Signature]</i>		SECTION															
DATE 4/10/72		DATE 4/14/72																	
ENG L. Narhi		PROD <i>[Signature]</i>		ISSUED SECT.															
DATE 4/10/72		DATE 4/14/72																	
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																	
1	PC04-BL	High Speed Reader and Punch 60 HZ																	
2	PC04-BM	High Speed Reader and Punch 50 HZ																	
3	PC04-BL-TABLETOP	High Speed Reader And Punch 60 HZ Tabletop																	
		Version with P.C. Cover																	
4	PC04-BM-TABLETOP	High Speed Reader and Punch 50 HZ Tabletop																	
		Version with P.C. Cover																	
5	M840	High Speed Reader and Punch Control																	
6	BC08-K	Control Cables																	
7	LIBKIT-8E-PC8E-01	Maindecs for the High Speed Reader and Punch																	
8	DEC-00-PC0A-DC1	PC04/PC05 Paper tape Reader Punch Manual																	
9	ROYAL MC BEE	High Speed Punch Maintenance Manual																	
10	DEC-00-PC0A-DC1	PC8/E Maintenance Manual																	
11	A-ML-PL3-E	PC8/E Print set																	
12	DEC-00-PC-4/5-DWG	PC04/PC05 Paper Tape Reader Punch ^{Engineering} Drawings																	
13	36-5103	Box of Fanfold tape																	
NOTE: THE FOLLOWING ITEMS MUST BE ADDED FOR FIELD ADD-ON'S ONLY																			
14	90-8851	Mounting hardware Bag																	
15	91-7673-06	AC Line Cord 6 Ft.																	
TITLE Accessory List For PC8-E				ASSY. NO.				SIZE CODE A AL				NUMBER PC-4-3				REV 3		FORM NO PC8E 10005	
SHEET OF				DIST.															

L



DIGITAL EQUIPMENT CORPORATION WORLDWIDE SALES AND SERVICE

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