

**PC04/PC05
paper tape
reader/punch
engineering drawings**

PC04/PC05 Engineering Drawings

PC04 Engineering Drawings

Number	Title
D-DI-PC04-0-1	Drawing Index
D-UA-PC04-0-0	Unit Assembly
C-PL-PC04-0-0	Unit Assembly, Parts List
D-BS-PC04-0-2	Power and Control Schematic Diagram
D-BS-PC04-CL-RD	Reader and Power Supply
D-BS-PC04-CL-PNCH	Punch
D-MU-PC04-0-3	Module Utilization List
A-PL-PC04-0-3	Parts List, Modules
E-AD-7006268-0-0	Bus Bar
A-PL-7006268-0-0	Bus Bar, Parts List
A-SP-PC04-0-4	PC04 Engineering Specification

PC05 Engineering Drawings

Number	Title
D-DI-PC05-0-1	Drawing Index
D-UA-PC05-0-0	Unit Assembly
A-PL-PC05-0-0	Unit Assembly, Parts List
D-BS-PC05-0-4	Power and Control Schematic
C-MU-PC05-0-3	Module Utilization List
A-PL-PC05-0-3	Parts List, Modules
C-AD-7006253-0-0	Bus Bar
A-PL-7006253-0-0	Bus Bar, Parts List

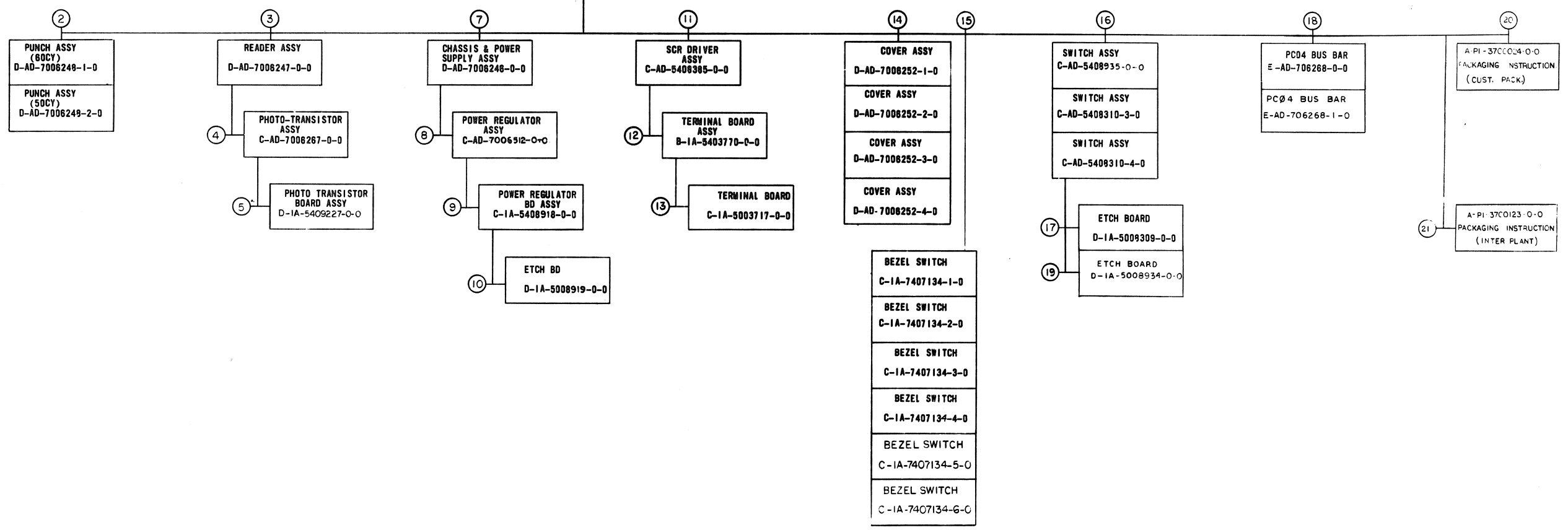
PC04/PC05 Circuit Schematics

Number	Title
C-CS-G918-0-1	Photo Transistor Amplifier
B-CS-M040-0-1	Solenoid Driver (Reader Motor)
B-CS-M044-0-1	Solenoid Driver (Punch Solenoid)
D-CS-M710-0-1	Punch Control
C-CS-M715-0-1	Reader Clock
E-CS-M840-0-1	Reader/Punch Control
D-CS-M7050-0-1	Reader Control
B-CS-5408918-0-1	Power Regulator Card
B-CS-5408308-0-1	Power Regulator Card
B-CS-5408384-0-1	Triac Driver Assembly

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

MODEL	DESCRIPTION	CY.	COMPOSITION																	
			FIND NUMBER																	
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
PC04-B, BB & BL	PUNCH & READER	80	-1	X	X	X		X	X	X						-1	-1	-4	X	X
PC04-BA, BC & BM	PUNCH & READER	90	-2	X	X	X		X	X	X					-1	-1	-4	X	X	
PC04-C	PUNCH, READER, DRIVER	80	-1	X	X	X		X	X	X	X	X	X	X	-4	-4	-3	X	X	
PC04-CA	PUNCH READER DRIVER	50	-2	X	X	X		X	X	X	X	X	X	X	-4	-4	-3	X	X	
PC04-P & PL	PUNCH	80	-1					X	X	X	X				-2	-2	-2	X	X	
PC04-PA & PM	PUNCH	50	-2					X	X	X	X				-2	-2	-2	X	X	
PC04-R & RB	READER			X	X	X		X	X	X	X				-3	-3	-0		X	



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

REV.	CHG. NO.	BY	DATE
1	PC04-00006	A	10/1/67
2	PC04-00007	B	10/1/67
3	PC04-00008	C	10/1/67
4	PC04-00009	D	10/1/67
5	PC04-00010	E	10/1/67
6	PC04-00011	F	10/1/67
7	PC04-00012	G	10/1/67
8	PC04-00013	H	10/1/67
9	PC04-00014	I	10/1/67
10	PC04-00015	J	10/1/67
11	PC04-00016	K	10/1/67
12	PC04-00017	L	10/1/67
13	PC04-00018	M	10/1/67
14	PC04-00019	N	10/1/67
15	PC04-00020	O	10/1/67
16	PC04-00021	P	10/1/67
17	PC04-00022	Q	10/1/67
18	PC04-00023	R	10/1/67
19	PC04-00024	S	10/1/67
20	PC04-00025	T	10/1/67
21	PC04-00026	U	10/1/67
22	PC04-00027	V	10/1/67
23	PC04-00028	W	10/1/67
24	PC04-00029	X	10/1/67
25	PC04-00030	Y	10/1/67
26	PC04-00031	Z	10/1/67

FIRST USED ON OPTION / MODEL PC04	DO NOT SCALE DRAWING 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			
1	DRN	DATE 10/1/67	DATE 10/1/67
1	CHK'D	DATE 10/1/67	DATE 10/1/67
1	ENG.	DATE 10/1/67	DATE 10/1/67
1	PROJ. ENG.	DATE 10/1/67	DATE 10/1/67
1	PROD.	DATE 10/1/67	DATE 10/1/67
1	NEXT HIGHER ASSY	A-ML-PC04	
1	SCALE	—	
1	SHEET	1 OF 2	
TITLE DRAWING INDEX LIST, PC04		SIZE CODE D DI	NUMBER PC04-0-1
DIST. G		RFV.	Z

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MECHANICAL				ELECTRICAL			
FIND NO	DESCRIPTION	PART NO	DEPT USAGE	FIND NO	DESCRIPTION	PART NO	DEPT USAGE
1	PC04- READER & PUNCH	D-UA-PC04-0-0		1	PAPER TAPE READER	A-ML-PC04-0	
2	PC04- READER & PUNCH (PL) CHAD BOX TAPE CONTAINER I/O CABLE ASSY PC04-PA PUNCH BRKT RESISTOR SCR MODULE RETAINER HOLD DOWN BAR PACKAGING INSTRUCTIONS PC04 READER & PUNCH PUNCH ASSY (80CY) PUNCH ASSY (50CY) PUNCH ASSY (PL) CHAD TUBE PUNCH MTG CHASSIS HINGE BRKT FEED TAPE CHUTE TAPE DEPRESSOR PIN PULLY (80CY) PULLY (50CY) TORSION SPRING	A-PL-PC04-0-0 B-MD-7405300-0-0 D-MD-7407131-0-0 C-IA-7006201-0-0 D-UA-PC04-PA-0 C-MD-7406091-0-0 C-IA-7405642-0-0 C-IA-7408339-7-0 4 PI 3700024-0-0 D-AD-7006248-1-0 D-AD-7006248-2-0 A-PL-7006248-0-0 B-MD-7407388-0-0 D-IA-7407071-0-0 B-MD-7407083-0-0 D-MD-7408008-0-0 D-IA-7408171-0-0 D-SC-1209915-0-0 B-MD-7408172-0-0 B-MD-7408088-1-0 B-MD-7408088-2-0 C-SC-1209924-0-0		4	PHOTO TRANSISTOR ASSY TEST SCHEMATIC TEST PROCEDURE PHOTO TRANSISTOR BD ASSY	C-IA-7006287-0-0 D-CS-7406267-T-1 A-SP-7406267-T-2 D-IA-5409227-0-0	
3	READER ASSY READER ASSY (PL) TAPE PATH GUIDE READER PLATE BLOCK READER SHAFT READER PLATE ARM SPRING SPRING BULB DEPRESSOR TAPE BRKT TAPE HOLD DOWN SLO SYN MOTOR REWORK SHIM LENS	D-AD-7008247-0-0 A-PL-7008247-0-0 D-MD-7407078-0-0 D-MD-7407085-0-0 B-MD-7407118-0-0 B-MD-7407120-0-0 B-MD-7407118-0-0 A-MD-7407118-0-0 C-MD-7407121-0-0 C-MD-7407144-0-0 B-IA-7407684-0-0 B-MD-7407800-0-0 B-MD-7404989-0-0		5	SWITCH ASSY SWITCH ASSY SWITCH ASSY SWITCH ASSY (PL) BAR SPACER SW. BD.	C-AD-5408935-0-0 C-AD-5408310-3-0 C-AD-5408310-4-0 A-PL-5408310-0-0 B-MD-7407175-0-0	
				6	PC0 SWITCH BOARD FLIP CHIP MODULE PR SWITCH BOARD	D-IA-5009309-0-0 D-MD-1402230-0-0 D-IA-5008934-0-0	
				7	PC04 BUS BAR MTG. BAR (8 IN.)	E-AD-7008288-0-0 B-IA-7407077-0-0	
				8	PACKAGING INSTRUCTION OUTER SHIPPING CARTON INNER SHIPPING CARTON BOTTOM PAD FRONT SPACER SIDE SPACER REAR SUPPORT TOP SPACER TORO PAD POLY BAG	A-PI-3700024-0-0 A-PS-9905046-0-0 A-PS-9905047-0-0 A-PS-9905053-0-0 A-PS-9905054-0-0 A-PS-9905055-0-0 A-PS-9905056-0-0 A-PS-9905044-1-0 A-PS-9905129-7-0	
				9	PACKAGING INSTRUCTION TAPELESS CARTON SPECIAL DIE CUT ONE PIECE FOLDER QUAD MODUAL BOOK PACK POLY BAG	A-PI-3700123-0-0 A-PS-9905348-00-0 A-PS-9905348-01-0 A-PS-9905348-02-0 A-PS-9905072-0-0 A-PS-9905129-7-0	
				10	CHASSIS & POWER SUPPLY ASSY CHASSIS & POWER SUPPLY (PL) PANEL FRONT BRKT MTG BAR RIGHT HAND BRKT MTG BAR LEFT HAND CHASSIS COVER, JONES STRIP HARNES, CONTROL HARNES 1/0 110 VAC HARNES POWER SUPPLY DECAL (PC04)	D-AD-7006248-0-0 A-PL-7006248-0-0 D-IA-7407075-0-0 C-IA-7407085-1-0 C-IA-7407085-2-0 E-IA-7407074-0-0 C-MD-5305644-0-0 D-IA-7008311-0-0 D-IA-7036310-0-0 D-IA-7008309-0-0 A-DC-7407476-0-0	
				11	PWR REGULATOR ASSY PWR REGULATOR (PL) HEATSINK, PWR REGULATOR	C-AD-7008912-0-0 A-PL-7008912-0-0 C-MD-7407086-0-0	
				12	PWR REGULATOR BOARD ASSY	C-IA-5408918-0-0	
				13	ETCH BOARD	D-IA-5008919-0-0	
				14	SCR DRIVER ASSY SCR DRIVER CHASSIS	C-AD-5408388-0-0 C-IA-7407070-0-0	
				15	TERMINAL BD ASSY	B-IA-5403770-0-0	
				16	TERMINAL BOARD	C-IA-5003717-0-0	
				17	COVER ASSEMBLY COVER ASSEMBLY COVER ASSEMBLY COVER ASSEMBLY COVER ASSEMBLY (PL) COVER, PC0 (BASIC & COMB.) COVER, PC0 (PUNCH) COVER, PC0 (READER) SHIM, BEZEL BEZEL	D-AD-7008252-1-0 D-AD-7008252-2-0 D-AD-7008252-3-0 D-AD-7008252-4-0 A-PL-7008252-0-0 E-SC-1208388-1-0 E-SC-1208388-3-0 E-SC-1208388-5-0 C-MD-7407840-0-0 E-SC-1209225-0-0	
				18	BEZEL SWITCH SILK SCREEN BEZEL SWITCH SILK SCREEN BEZEL SWITCH SILK SCREEN BEZEL SWITCH SILK SCREEN	C-IA-7407134-1-0 A-SS-7407134-1-1 C-IA-7407134-2-0 A-SS-7407134-2-1 C-IA-7407134-3-0 A-SS-7407134-3-1 C-IA-7407134-4-0 A-SS-7407134-4-1	
				19	POWER AND CONTROL SCHEMATIC DIAGRAM MODULE UTILIZATION MODULE UTILIZATION (PL) ENGINEERING SPECS WIRELIST WIRELIST	D-BS-PC04-0-2 C-MU-PC04-0-3 A-PL-PC04-0-3 A-SP-PC04-0-4 K-WL-PC04-0-5 K-WL-PC04-0-6 K-WL-PC04-0-7	
				20	CHASSIS & POWER SUPPLY ASSY POWER REG BD C.S. SCR DRIVER ASSY PRINTED CIRCUIT 823 BUS BAR (PC04) BUS BAR (PC04) ACCESSORY LIST	D-AD-7006246-0-0 B-CS-5408308-0-0 C-AD-5408385-0-0 PC-5403770-0-1 E-AD-7008288-0-0 E-AD-7006268-1-0 A-AL-FC04-0-08	

REV	DATE	BY	CHKD	DESCRIPTION
1	10/15/77	WILLIAMS		
2	11/15/77	WILLIAMS		
3	12/15/77	WILLIAMS		

DEC FORM NO. 100

FIRST USED ON OPTION/MODEL FC04	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
± .008 ± 1/64 ± 0°30'				
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	NEXT HIGHER ASSY			
FINISH	SCALE			
SHEET 2 OF 2		DISTRIBUTION		REV
		DIDI PC04-0-1		1

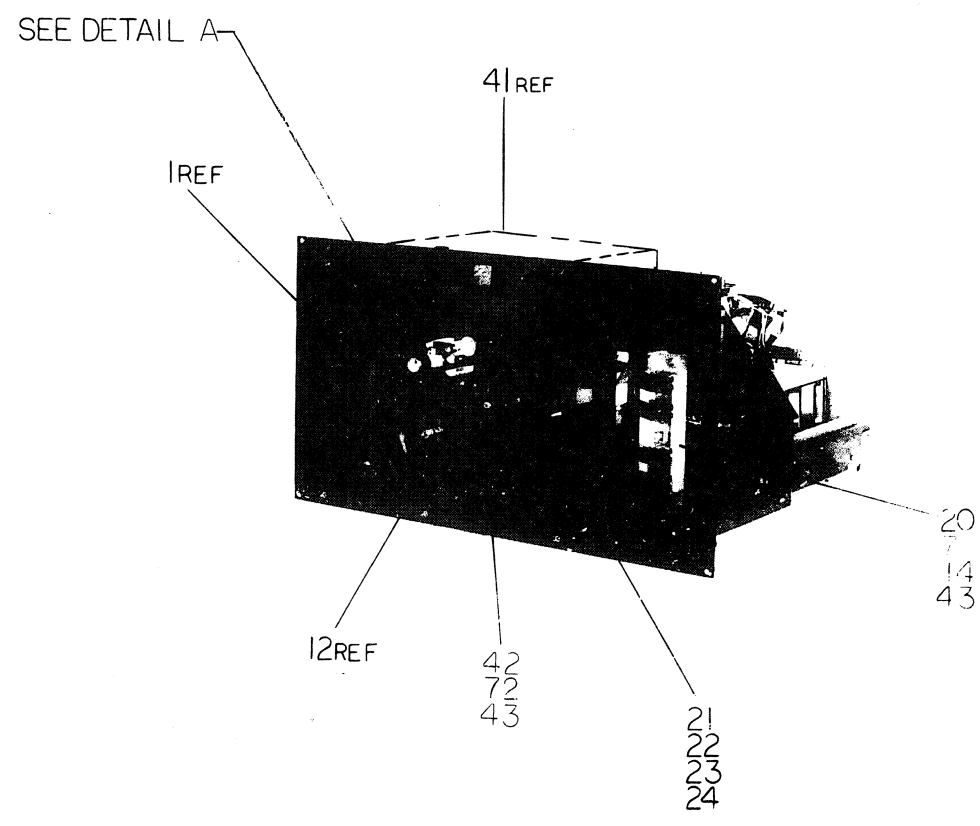
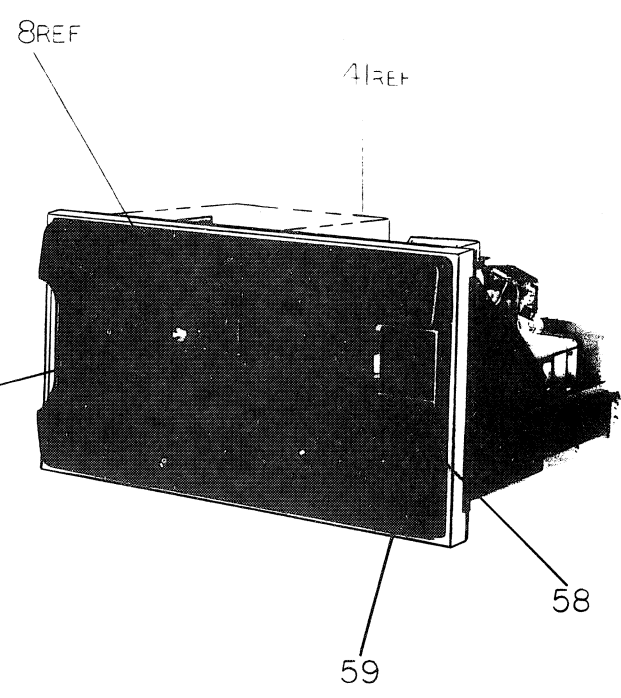
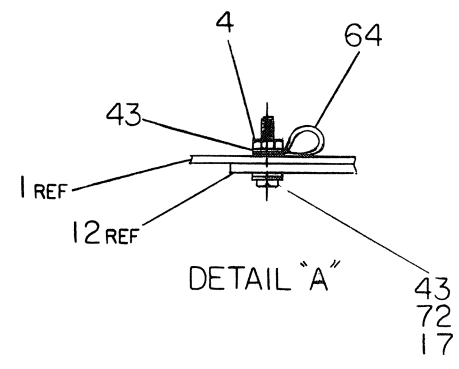
digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
TITLE
DRAWING INDEX LIST PC04

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0-0-000/UA/PC04-0 2 1

LEGEND		
MODEL	VARIATION	
	CY	COMPOSITION
PC04-B, B&A, BL	50	READER & PUNCH
PC04-BA, BC, BM	50	READER & PUNCH
PC04-C, CL	60	READER, PUNCH & SCR
PC04-CA, CM	50	READER, PUNCH & SCR
PC04-PA, PL	60	PUNCH
PC04-PA & PM	50	PUNCH
PC04-R&RB	50/60	READER

- NOTES:**
1. WIRING OF SWITCHES VARIES DEPENDING ON UNIT MODEL BEING BUILT. FOR SWITCH CONFIGURATION, FOR WIRING PURPOSES SEE DETAIL A FOR MODELS B, BA, BC, BC, CL, CM, DETAIL B FOR MODEL PA, DETAIL C FOR MODEL PA, RB AND DETAIL D FOR MODEL "C" AND "CA". 50/60 CY HAS NO EFFECT.
 2. IF THE SCR DRIVER UNIT IS USED, THIS WIRE WILL CONNECT TO SCR DRIVER T1, NOT T5-6. FOR CORRECT WIRING WHEN UNIT IS USED, SEE SCR DRIVER WIRE LIST (SHEET 3).
 3. PLACE CABLE IN POSITION. INSTALL CLAMP OVER CABLE.
 4. COVER ASSY TO BE ATTACHED TO CHASSIS ASSY AFTER ALL OTHER INSTALLATIONS ARE COMPLETE. TO DO SO, READER KNOB MUST BE REMOVED, COVER INSTALLED, THEN KNOB REPLACED ON READER SHAFT.
 5. ON MODELS P AND PA THIS WIRE WILL BE TIED BACK AND WHITE SHRINKABLE TUBING (ITEM 43) RECD.
 6. ON ALL MODELS ALL UNUSED WIRES SHOULD BE CONNECTED TO THEIR APPROPRIATE TABS.
 7. MODULE HOLD DOWN BAR TO BE INSTALLED BEFORE SHIPPING MACHINE.
 8. PC04-CA & CL ONLY.
 9. FOR ALL PC04'S EXCEPT CA & CL.
 10. ATTACH POWER INTERLOCK TO REAR OF STATIONARY SECTION OF CHASSIS TRACK. INSERT THE CORD FROM THE POWER INTERLOCK INTO THE JACK ON THE REAR OF THE PC04 (PI). SYSTEM POWER SHALL BE SUPPLIED TO POWER INTERLOCK.

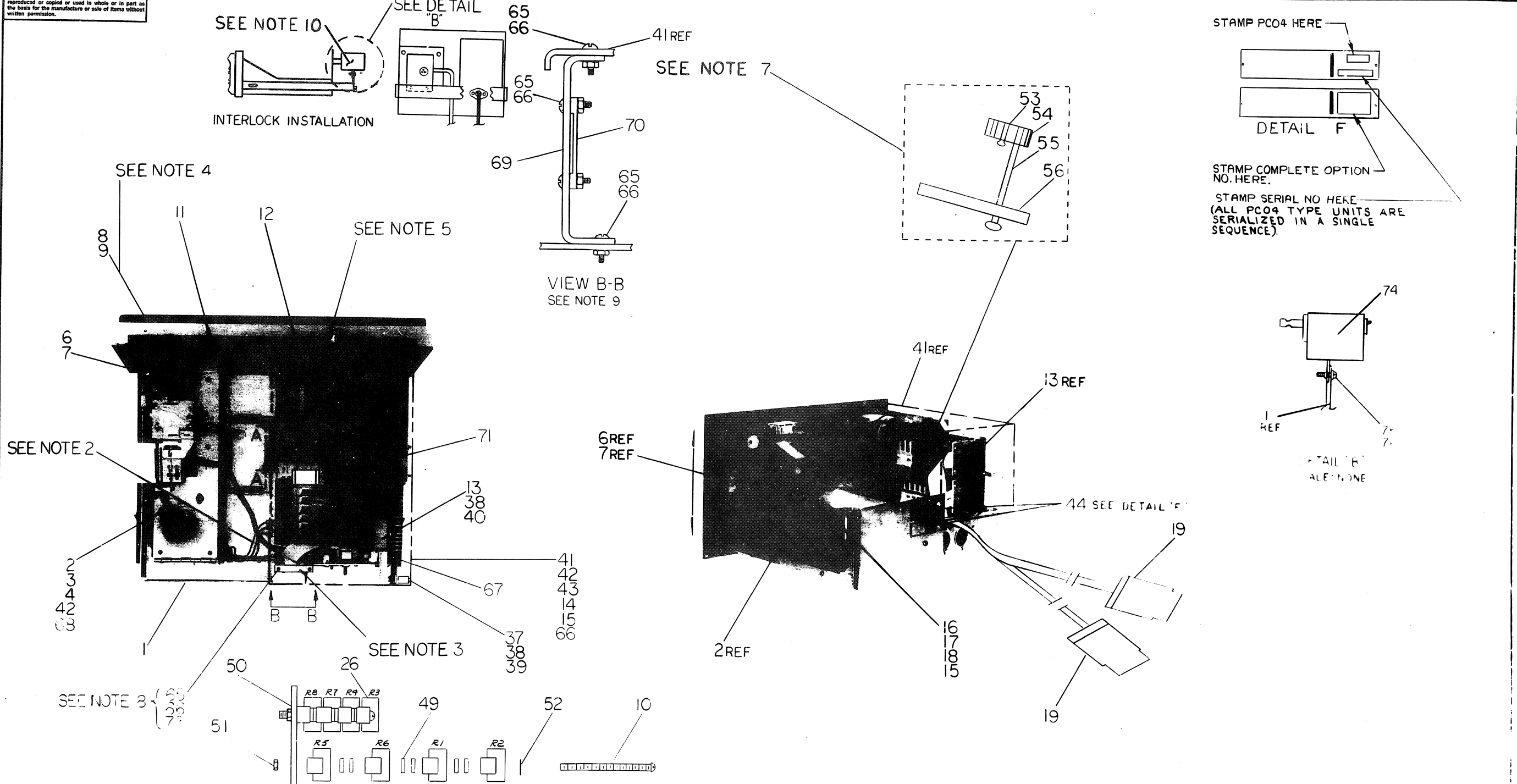


REV.	CHANGE NO.	DATE	BY	CHKD.	DATE
A	00006	7-1-69	T. Beckner	T. Beckner	7-1-69
B	00011	7-1-69	T. Beckner	T. Beckner	7-1-69
C	00037	11-6-69	G. Beckler	G. Beckler	11-6-69
D	00021	12-18-69	T. Beckner	T. Beckner	12-18-69
E	00022	12-23-70	T. Beckner	T. Beckner	12-23-70
F	00025	12-23-70	T. Beckner	T. Beckner	12-23-70
G	00027	12-23-70	T. Beckner	T. Beckner	12-23-70
H	00027	12-23-70	T. Beckner	T. Beckner	12-23-70
I	00036	12-23-70	T. Beckner	T. Beckner	12-23-70
J	00036	12-23-70	T. Beckner	T. Beckner	12-23-70
K	00041	12-23-70	T. Beckner	T. Beckner	12-23-70
L	00046	12-23-70	T. Beckner	T. Beckner	12-23-70
M	00053	12-23-70	T. Beckner	T. Beckner	12-23-70
N	00057	12-23-70	T. Beckner	T. Beckner	12-23-70
O	00061	12-23-70	T. Beckner	T. Beckner	12-23-70
P	00059	12-23-70	T. Beckner	T. Beckner	12-23-70
Q	00060	12-23-70	T. Beckner	T. Beckner	12-23-70
R	00061	12-23-70	T. Beckner	T. Beckner	12-23-70
S	00061	12-23-70	T. Beckner	T. Beckner	12-23-70
T	00062	12-23-70	T. Beckner	T. Beckner	12-23-70
U	00062	12-23-70	T. Beckner	T. Beckner	12-23-70
V	00062	12-23-70	T. Beckner	T. Beckner	12-23-70

FIRST USED ON OPTION / MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04				
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				
NEXT HIGHER ASSY				
A-M-L-PC04-0				
SCALE NONE				
SHEET 1 OF 4				
TITLE				
PC04				
READER AND PUNCH				
SIZE CODE NUMBER				
DUA PC04-0-0				
REV. T				

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



REV. NO.	REV.
CHANGE NO.	
DATE	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
	PARTS LIST		
PC04			
UNLESS OTHERWISE SPECIFIED		DATE	
UNLESS OTHERWISE SPECIFIED		DATE	
DIMENSION IN INCHES		DATE	
TOLERANCES		DATE	
DECIMALS	FRACTIONS	ANGLES	
± .005	± 1/64	± 0°30'	
FINAL SURFACE QUALITY		DATE	
REMOVE BURRS AND BREAK SHARP CORNERS		DATE	
MATERIAL		DATE	
NEXT HIGHER ASSY		DATE	
A-ML-PC04-0		DATE	
FINISH		DATE	
SCALE NONE		DATE	
SHEET 2 OF 4		DATE	

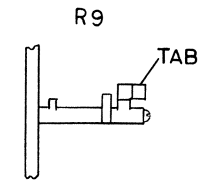
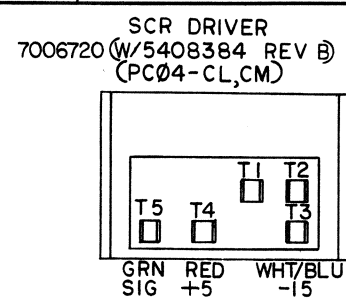
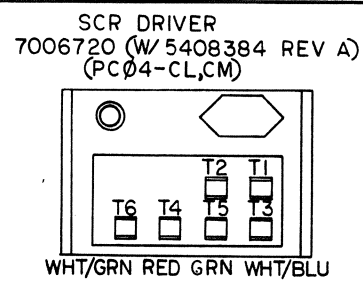
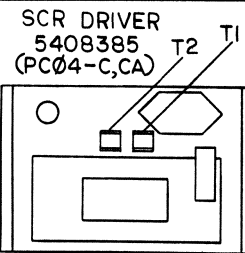
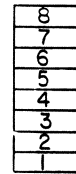
digital EQUIPMENT CORPORATION
 MAYNARD MASSACHUSETTS

TITLE
 PC04
 READER AND PUNCH

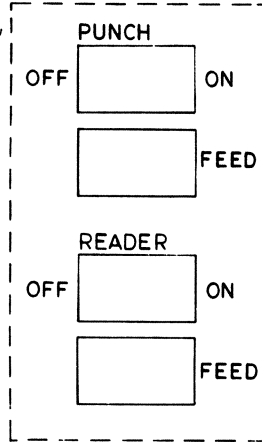
SIZE CODE NUMBER REV.
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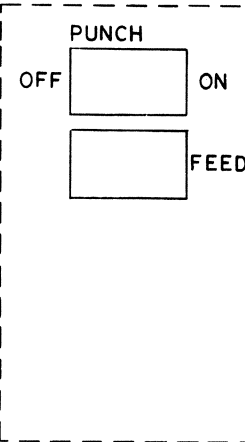
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(TOP VIEW)



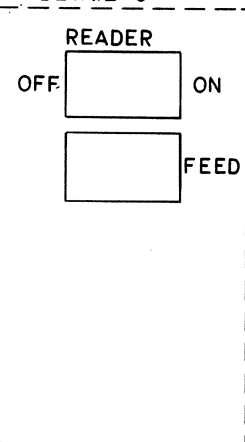
PC04-B,BA,BB,BC,BL,BM
5408310-4
DETAIL "A"



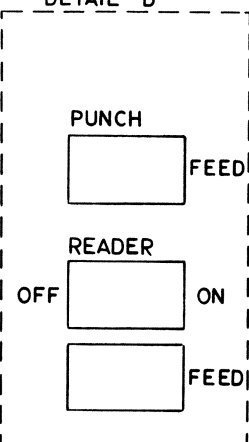
PC04-P, PA, PL, PM
5408935-0
DETAIL "B"



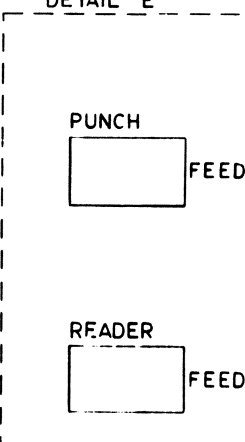
PC04-R,RB,RL
5408935-0
DETAIL "C"



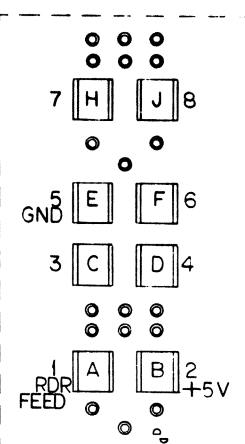
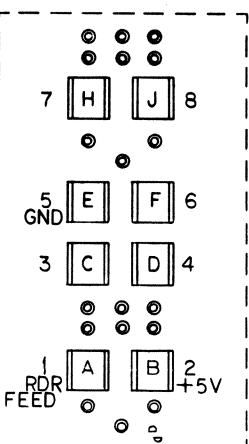
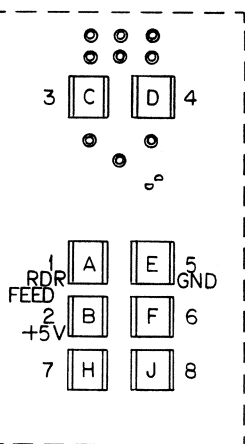
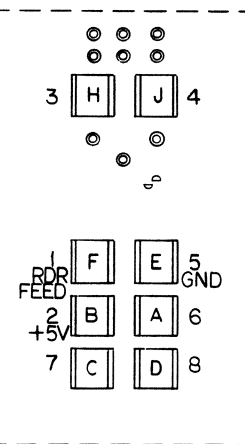
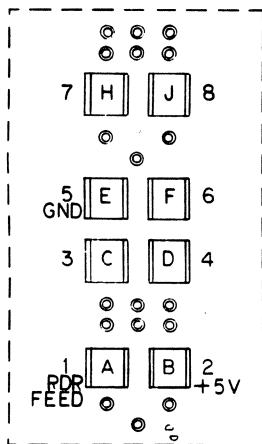
PC04-C,CA
5408310-3
DETAIL "D"



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



REAR VIEW



REVISIONS	REV
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. B. HUTNAK	DATE 4-10-69		
DECIMALS .XXX - .005	CHK'D R. CARVELLI	DATE 6-5-69		
ANGLES ±0° 30'	ENG. G. BECKNER	DATE 6-6-69		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ. ENG. G. BECKNER	DATE 6-6-69		
MATERIAL	PROD. B. ANTONUCCIO	DATE 6-6-69	TITLE PC04 READER & PUNCH (SW & TERM LOCATIONS.)	
FINISH	A-ML-PC04-0	SIZE CODE	NUMBER	REV.
	SCALE	DUA	PC04-0-0	T
	SHEET 3 OF 4	DIST.		

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CONNECTIONS IF NO SCR DRIVER ASSY

COLOR/AWG	WIRE	CONNECTION	REMARKS
RED #18	*9	TS - 6	
BLK & YEL BLK & WHT	PUNCH MOTOR	TS - 6	IF PUNCH PRESENT
RED #18	*7	SW BOARD - "H"	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 BLK & WHT	PUNCH MOTOR	SCR - T2	
RED #18	*7	SW BOARD - "J"	SEE DETAIL "D"
WHT/BLU #22	SCR LEAD	A Ø 7B	
WHT/GRN #22	SCR LEAD	B Ø 1B	

**CONNECTIONS FOR 7006520
SCR DRIVER ASSY**

COLOR/AWG	WIRE	CONNECTION	REMARKS
RED #18	*9	SCR T1	
BLK & YEL BLK & WHT	PUNCH MOTOR	SCR T2	
RED #18	*7	SW BOARD - "J"	SEE DETAIL "E"
WHT/BLU #22	SCR LEAD	A Ø 7B	
WHT/GRN #22	SCR LEAD	A Ø 7C	NOT USED ON 5408385 REV B
RED #22	SCR LEAD	A Ø 7A	
GRN #22	SCR LEAD	B Ø 1F	

PUNCH CONNECTIONS

COLOR	WIRE	CONNECTION	REMARKS
WHT #22	PUNCH CAP	TS - 7	

PLUG PUNCH DATA CABLE (WØ23)
INTO SLOT BØ2

CONNECTIONS IF NO READER

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

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	
BLK #18	38 39	CI - (-) LAMP "B"	

PLUG READER PHOTOCELL CABLE
(WØTT) INTO SLOT BØB

READER WIRING

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

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

COMMON CONNECTIONS

COLOR/AWG	WIRE	CONNECTION	REMARK
BLK #18	*27	GND LUG	LOGIC GND
GRY/YEL #18	*29	A Ø 8B	-15V
BLU #18	*31	B Ø 2D	-3ØV
BLK #18	*28	GND LUG	LOGIC GND
GRY/RED #18	*30	A Ø 8A	+5V
GRN #18	*32	B Ø 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 Ø 1V	
WHT/BLK #22	*12	B Ø 7A	+5V
WHT/YEL #22	*13	A Ø 8F	
BLK #22	*15	B Ø 8C	
WHT #22	*16	B Ø 2U	

CONNECTION ON 7006268-Ø
LOGIC BLOCK (PCØ4-B, -BA, -BB, BC,
-C, -CA, -P, -PA, -R -RB)

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

CONNECTION ON 7006268-1
AND -2 LOGIC BLOCK
(PCØ4-BL, -BM, -CL, -CM, -PL, -PM, -RL)

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

NOTE: SEE SHEET 3 FOR TERMINAL
IDENTIFICATION DIAGRAMS.

FIRST USED ON OPTION/MODEL PCØ4-Ø	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. B. HUTN+K	DATE 4-10-69	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS .005 ANGLES ±0°30'	CHK'D R. CARVELLI	DATE 6-5-69	TITLE PCØ4 READER & PUNCH (WIRING)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	ENG. GEO. BECKNER	DATE 6-6-69	SIZE CODE A-ML-PCØ4	
MATERIAL FINISH	PROJ. ENGR. GEO. BECKNER	DATE 6-6-69	NUMBER DUA PCØ4-Ø-Ø	
	PROD. B. ANTONUCCIO	DATE 6-6-69	REV. 7	
	NEXT HIGHER ASSY.	SCALE	SHEET 4 OF 4	

REVISIONS
CHANGE NO.
CHK

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ITEM NO.	DWG. NO. / PART NO.	DESCRIPTION	QUANTITY/VARIATION												
			PC04-B-EB	PC04-BA-BC	PC04-BL	PC04-BN	PC04-C	PC04-CA	PC04-CL	PC04-CH	PC04-P	PC04-PA	PC04-PL	PC04-PM	PC04-R-EB
1	D-AD-7006246-0-0	CHASSIS AND POWER SUPPLY ASSY	1	1	1	1	1	1	1	1	1	1	1	1	1
2	D-AD-7006248-1-0	PUNCH ASSY (60 HZ)	1	1	1	1	1	1	1	1	1	1	1	1	1
2	D-AD-7006248-2-0	PUNCH ASSY (50 HZ)	1	1	1	1	1	1	1	1	1	1	1	1	1
3	9006021-1	SCR, PHL PAN HD 6-32 X 5/16 LG SST	6	6	6	6	6	6	6	6	6	6	6	6	6
4	9006560	NUT, KEPS 6-32 X 5/16 X 5/32	3	3	3	3	3	3	3	3	3	3	3	3	3
5	9006070-1	SCR, PHL PAN HD 10-32 X 5/16 LG SST	2	2	2	2	2	2	2	2	2	2	2	2	2
6	1100106	THYRISTOR GRS20SP4B4	1	1	1	1	1	1	1	1	1	1	1	1	1
7	9107278-3	18 AWG TEF TUBING RED	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
8	D-AD-7006252-1-0	COVER ASSY (PUNCH & READER)	1	1	1	1	1	1	1	1	1	1	1	1	1
8	D-AD-7006252-2-0	COVER ASSY (PUNCH)	1	1	1	1	1	1	1	1	1	1	1	1	1
8	D-AD-7006252-3-0	COVER ASSY (READER)	1	1	1	1	1	1	1	1	1	1	1	1	1
8	D-AD-7006252-4-0	COVER ASSY (PUNCH, READER & SCR)	1	1	1	1	1	1	1	1	1	1	1	1	1
8	D-AD-7006252-6-0	COVER ASSY (READER, PUNCH & SCR)	1	1	1	1	1	1	1	1	1	1	1	1	1
9	9006042-2	SCR, PHL FLAT HD 8-32 X 1 LG SST	4	4	4	4	4	4	4	4	4	4	4	4	4
10	9006083-1	SCR, PHL PAN HD 10-32 X 2 1/2 LG SST	4	4	4	4	4	4	4	4	4	4	4	4	4
11	C-MD-745300-0-0	CHAD BOX	1	1	1	1	1	1	1	1	1	1	1	1	1
12	D-AD-7006247-0-0	READER ASSY	1	1	1	1	1	1	1	1	1	1	1	1	1
13	E-AD-7006268-0-0	WIRED ASSY, PC04	1	1	1	1	1	1	1	1	1	1	1	1	1
13	E-AD-7006268-1-0	WIRED ASSY, PC04	1	1	1	1	1	1	1	1	1	1	1	1	1
13	E-AD-7006268-2-0	WIRED ASSY, PC04	1	1	1	1	1	1	1	1	1	1	1	1	1
14	9006022-1	SCR, PHL PAN HD 6-32 X 3/8 LG SST	3	3	3	3	3	3	3	3	3	3	3	3	3
15	9006633	WASHER, INT TOOTH #6	2	2	2	2	2	2	2	2	2	2	2	2	2
16	C-AD-5408385-0-0	SCR DRIVER ASSY	1	1	1	1	1	1	1	1	1	1	1	1	1
16	C-AD-7006520-0-0	SCR DRIVER ASSY	1	1	1	1	1	1	1	1	1	1	1	1	1
17	9006026-1	SCR, PHL PAN HD 6-32 X 3/4 LG SST	1	1	1	1	1	1	1	1	1	1	1	1	1
18	9006801	HEX SPACER, 1/2 AF X 3/8 LG #6 HOLE	2	2	2	2	2	2	2	2	2	2	2	2	2
19	C-IA-7006281-0-0	I/O CABLE, PC04 (W033 TO W077)	2	2	2	2	2	2	2	2	2	2	2	2	2
19	D-IA-7407067-1-0	CABLE CONNECTOR M926 TO W033 S	1	1	1	1	1	1	1	1	1	1	1	1	1
19	D-IA-7006145-1-0	CABLE CONN (PUNCH) M926 TO W033	1	1	1	1	1	1	1	1	1	1	1	1	1
19	D-IA-7407067-3-0	CABLE CONNECTOR M926 TO W033 S	1	1	1	1	1	1	1	1	1	1	1	1	1
20	C-AD-5408310-4-0	SWITCH ASSY	1	1	1	1	1	1	1	1	1	1	1	1	1
20	C-AD-5408935-0-0	SWITCH ASSY	1	1	1	1	1	1	1	1	1	1	1	1	1
20	C-AD-5408310-3-0	SWITCH ASSY	1	1	1	1	1	1	1	1	1	1	1	1	1
20	C-AD-5408310-5-0	SWITCH ASSY	1	1	1	1	1	1	1	1	1	1	1	1	1
21	D-MD-7407131-0-0	TAPE CONTAINER	1	1	1	1	1	1	1	1	1	1	1	1	1
22	9006011-2	SCR, PHL FLAT HD 4-40 X 3/8 LG SST	2	2	2	2	2	2	2	2	2	2	2	2	2
23	9006556	NUT, HEX 4-40 X 1/2 X 1/16 SST	2	2	2	2	2	2	2	2	2	2	2	2	2
24	9006632	WASHER, INT TOOTH #4	2	2	2	2	2	2	2	2	2	2	2	2	2
25	9006635	WASHER, INT TOOTH #10	2	2	2	2	2	2	2	2	2	2	2	2	2
26	1309896	RES, 25 OHM ±5% 40 W	8	8	8	8	8	8	8	8	8	8	8	8	8
27	9107360-10	10 AWG BRD TEFON WHT	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
28	9007917	SOLDERLESS CONN 18-22 AWG .250 TAB	4	4	4	4	4	4	4	4	4	4	4	4	4
29	9107400-97	WIRE, 22 AWG STRD TEFON WHT/VIO TRACER	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R

REV.	CHANGE NO.	BY	DATE
M	00053		
REVISED REDRAWN			
M-Owen 12-13-71			
A-KENT			
Allen Kent 4 Jan 72			
N	00057		
E. Neal 27 Jan 73			
A. WILLIAMS			
William 3/27/73			
P	00059		
C. Owen 5-28-74			
A. WILLIAMS			
J.R. B. 6/14/74			
R	00060		
E. Neal 1-20-75			
E. Neal 2-24-75			
S	00061		
J. BITTO			
J. Bitto (C.R.T.) 8/13/75			
T	00062		
STEVE KITTLE 4 May 76			
H. DRAB			
H. Drab 5-25-76 (DR)			

PC04 (ALL)

UNLESS OTHERWISE SPECIFIED	DRN. R. HUTNAK	DATE 4-10-69
UNLESS OTHERWISE SPECIFIED	CHK'D. R. CARVELLI	DATE 6-5-69
DIMENSION IN INCHES	ENG. GEO. BECKNER	DATE 6-6-69
TOLERANCES	PROJ. ENG. GEO. BECKNER	DATE 6-6-69
DECIMALS ± .005	PROD. R. ANTONUCCIO	DATE 6-6-69
FRACTIONS ± 1/64		
ANGLES ± 0°30'		
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		
MATERIAL	NEXT HIGHER ASSY.	
FINISH	D-UA-FC04-0-0	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
PC04 READER AND PUNCH

SIZE CODE: C PL
NUMBER: PC04-0-0
REV. T

SHEET 1 OF 3

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ITEM NO.	DWG. NO./PART NO.	DESCRIPTION	PCØ4															
			PCØ4-BL	PCØ4-BA	PCØ4-BC	PCØ4-BL	PCØ4-BM	PCØ4-C	PCØ4-CA	PCØ4-CL	PCØ4-CM	PCØ4-P	PCØ4-PA	PCØ4-PL	PCØ4-PM	PCØ4-R	PCØ4-RL	
30	9107400-94	WIRE, 22 AWG STRD TEFLON WHT/YEL TRACER	A	R	R	R	R	R	R	A	R	R	R	R	R	R	R	R
31	9107400-93	WIRE, 22 AWG STRD TEFLON WHT/ORN TRACER	A	R	R	R	R	R	R	A	R	R	R	R	R	R	R	R
32	9107400-91	WIRE, 22 AWG STRD TEFLON WHT/BRN TRACER	A	R	R	R	R	R	R	A	R	R	R	R	R	R	R	R
33	9107350-77	WIRE, 22 AWG STRD TEFLON VIO	A	R	R	R	R	R	R	A	R	R	R	R	R	R	R	R
34	9107350-44	WIRE, 22 AWG STRD TEFLON YEL	A	R	R	R	R	R	R	A	R	R	R	R	R	R	R	R
35	9107350-33	WIRE, 22 AWG STRD TEFLON ORN	A	R	R	R	R	R	R	A	R	R	R	R	R	R	R	R
36	9107350-11	WIRE, 22 AWG STRD TEFLON BRN	A	R	R	R	R	R	R	A	R	R	R	R	R	R	R	R
37	9008905-01	SCR, PHL PAN HD 8-32 X 1-1/8 LG SST	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
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
40	9006036-01	SCR, PHL PAN HD 8-32 X 5/16 LG SST	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
42	9006024-1	SCR, PHL PAN HD 6-32 X 1/2 LG SST	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
43	9006653	WASHER, FLAT #6 SST	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
44	9008141	DEC NAME PLATE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
45	9107275	SHRINKABLE TUBING WHITE (6 IN.)	A	R	R	R	R	R	R	A	R	R	R	R	R	R	R	R
46	E-IA-7407438-0-0	POWER SUPPLY COVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47	D-IA-7407067-1-0	I/O CABLE ASSY. (Ø)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48	7006145-1	I/O CABLE ASSY. (Ø)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49	9006664	WASHER, FLAT #10	24	24	24	24	24	24	24	24	24	24	24	24	24	24	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
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
52	9006633	WASHER, INT TOOTH #10	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
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	1
54	1209850	UNIVERSAL MODULE RETAINER	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
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
57	9107470-35	WIRE, 24 AWG GOLD TEFLON GRDN	A	R	R	R	R	R	R	A	R	R	R	R	R	R	R	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
58	C-IA-7407134-2-0	BEZEL SWITCH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
58	C-IA-7407134-3-0	BEZEL SWITCH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
58	C-IA-7407134-4-0	BEZEL SWITCH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
58	C-IA-7407134-5-0	BEZEL SWITCH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
58	C-IA-7407134-6-0	BEZEL SWITCH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
59	9009030	NUT KEPS #6-32 SST	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
61	9006656	WASHER FLAT	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
63	A-PI-3700123-0-0	PACKAGING INSTRUCTIONS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
64	9007079	CLAMP, CABLE 1/8 INCH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
65	9006013-01	SCR, PHL PAN, HD, #4-40 X 1/2 LG	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
66	9006557	NUT, KEPS #4-40 1/4 X 3/32	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
67	9006766	TERMINAL, SOLDER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

REV.	
CHANGE NO.	
CHK	

FIRST USED ON: PCØ4 (ALL)

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

DRN. R. HUTNAK
CHK'D. R. CARVELLI
ENG. GEO. BECKNER
PROJ. ENG. GEO. BECKNER
PROD. R. ANTONUCCIO

DATE 4-10-69
DATE 6-5-69
DATE 6-6-69
DATE 6-6-69
DATE 6-6-69

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
TITLE
PCØ4 READER
AND PUNCH

MATERIAL +-----+
FINISH +-----+

NEXT HIGHER ASSY.
D-UA-PCØ4-Ø-Ø
SCALE +-----+
SHEET 2 OF 3

SIZE CODE C PL
NUMBER PCØ4-Ø-Ø
REV. T

ITEM NO.	DWG. NO./PART NO.	DESCRIPTION	PCØ4															
			B	BB	BA	BC	BL	BM	C	CA	CL	CM	P	PA	PL	PM	R	RB
68	9007622	GROMMET, CATAPILLAR (3 1/2 IN.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69	B-MD-7408955-0-0	BRACKET	1	1	1	1	1	1	-	-	1	1	1	1	1	1	1	1
70	B-MD-7408956-0-0	CLAMP	1	1	1	1	1	1	-	-	1	1	1	1	1	1	1	1
71	9008340	CLIP, PVC, HARNESS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72	9007649	WASHER, EXT. TOOTH #6	14	14	14	14	14	14	14	14	14	14	14	14	14	12	12	12
73	1202704	CLAMP, CABLE, WHITE	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
74	D-AD-7015804-Ø-Ø	PCØ INTERLOCK ASSY AC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
75	9006037-1	SCREW, #8-32 x 3/8 LONG	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
76	9006634	WASHER, INT. LOCK #8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

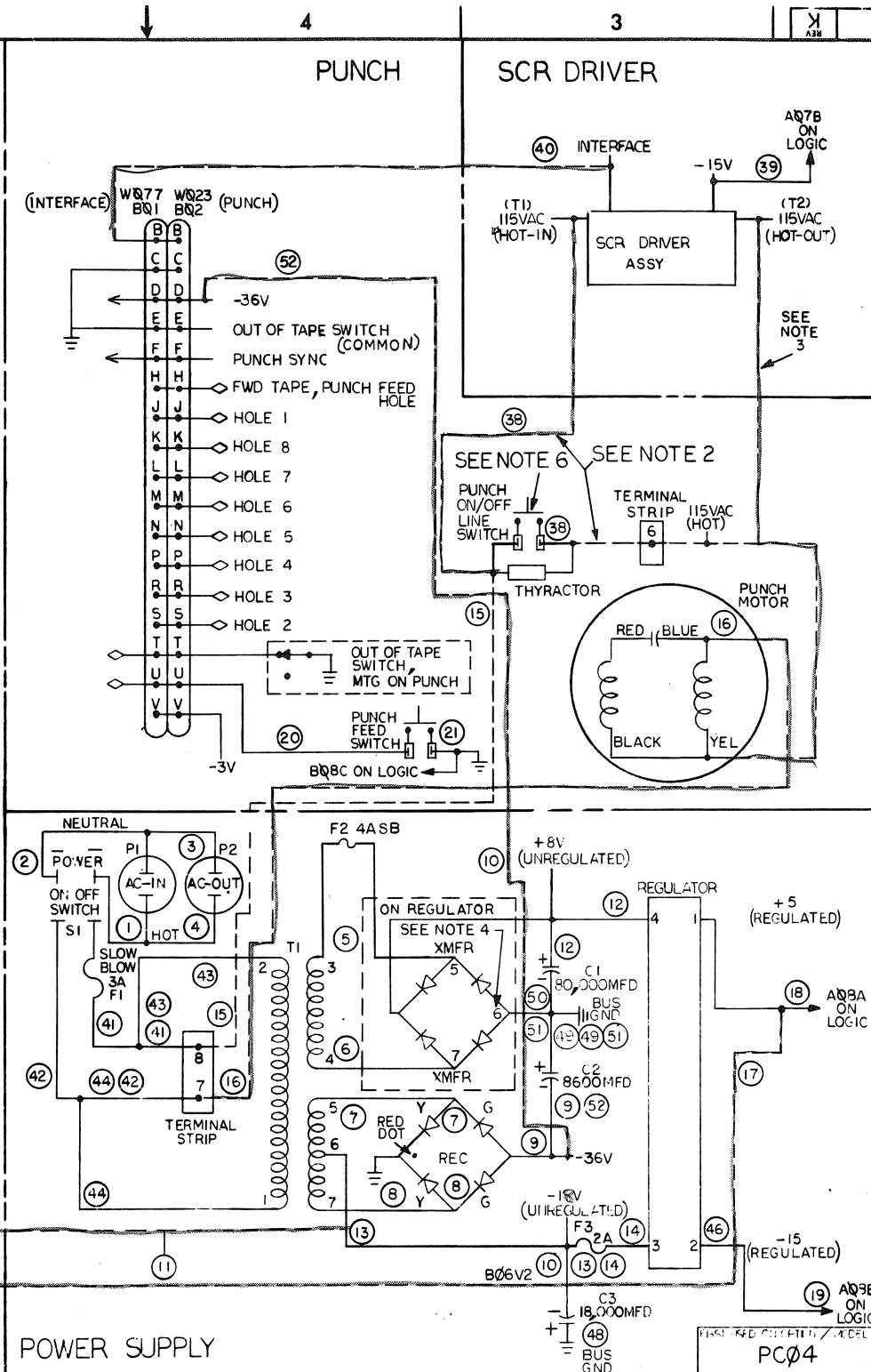
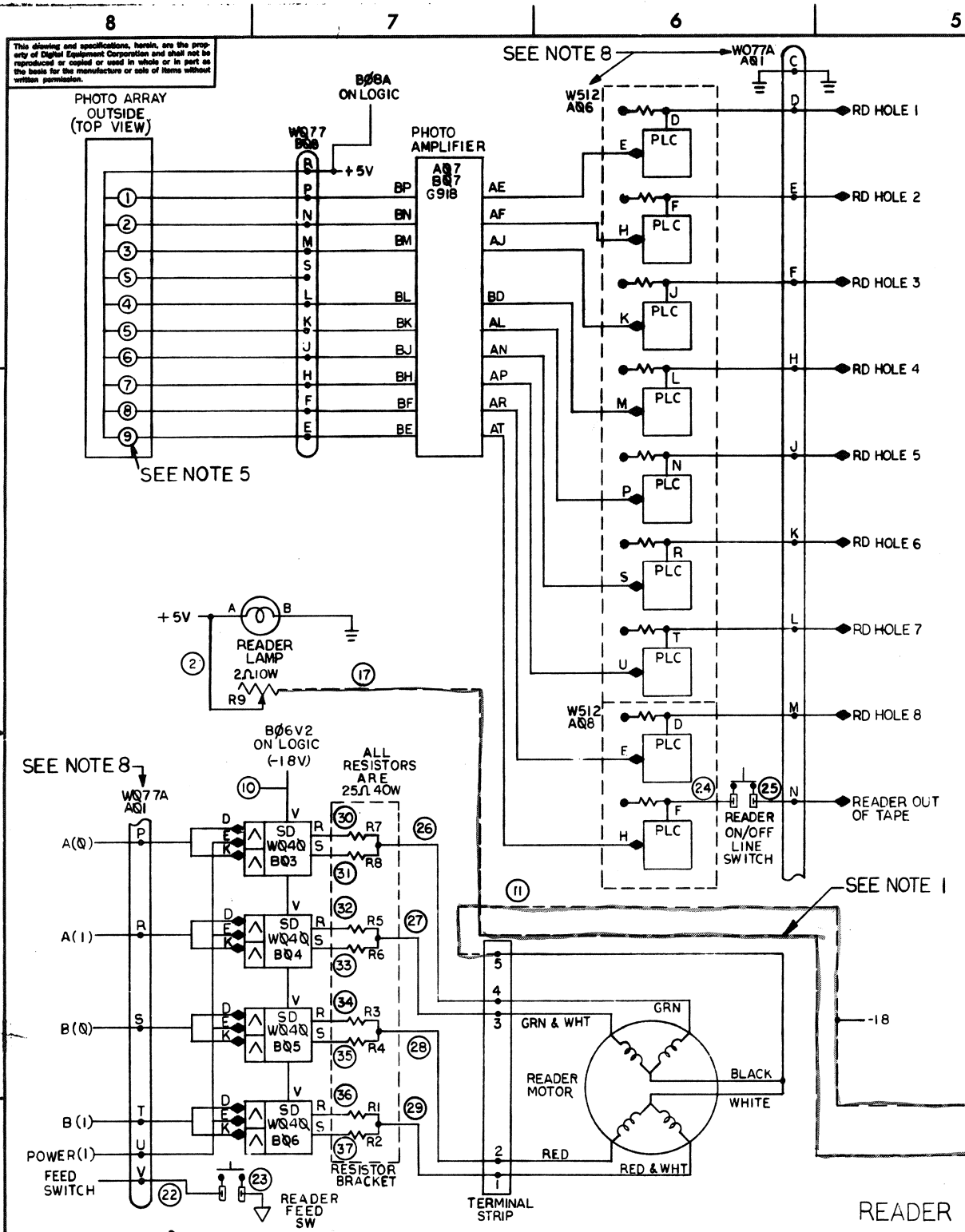
REV.	
CHANGE NO.	
CHK	

DRN. R. Hutnak	4-10-69	FIRST USED ON	digital
CHK'D P. Carvell	6/5/69	PCØ4 (ALL)	
ENG. G. Beckner	6/6/69	TITLE	
PROJ. ENG. G. Beckner	6/6/69	PCØ4 READER	
PROD. Antonuccio	6/6/69	AND PUNCH	
NEXT HIGHER ASSY.			
D-UA-PCØ4-Ø-Ø			
SCALE	+	SIZE CODE	C PL
SHEET	3 OF 3	NUMBER	PCØ4-Ø-Ø
		REV.	T

REV. T
 NUMBER PCØ4-Ø-Ø
 SIZE CODE C PL
 B
 A

4 3 2 1

4 3 2 1 ml



NOTES:

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

WIRE NO	COLOR	WIRE NO	COLOR
1	RED	24	WHITE-YELLOW
2	WHITE	25	BROWN
3	WHITE	26	WHITE-BROWN
4	RED	27	WHITE-ORANGE
5	ORANGE	28	WHITE-YELLOW
6	GRAY-BLUE	29	WHITE-VIOLET
7	GRAY-WHITE	30	BROWN
8	YELLOW	31	BROWN
9	BLUE	32	ORANGE
10	GRN	33	ORANGE
11	GRN	34	YELLOW
12	GRAY-VIOLET	35	YELLOW
13	GREEN	36	VIOLET
14	GREEN	37	VIOLET
15	RED	38	RED
16	WHITE	39	WHITE-BLUE
17	GRAY-RED	40	WHITE-GREEN
18	GRAY-RED	41	RED
19	GRAY-YELLOW	42	WHITE
20	WHITE	43	RED
21	BLACK	44	WHITE
22	YELLOW	45	WHITE
23	WHITE-BLACK	46	GRAY-YELLOW
48 THRU 51	BLACK	47	GRAY-RED
52	BLUE		

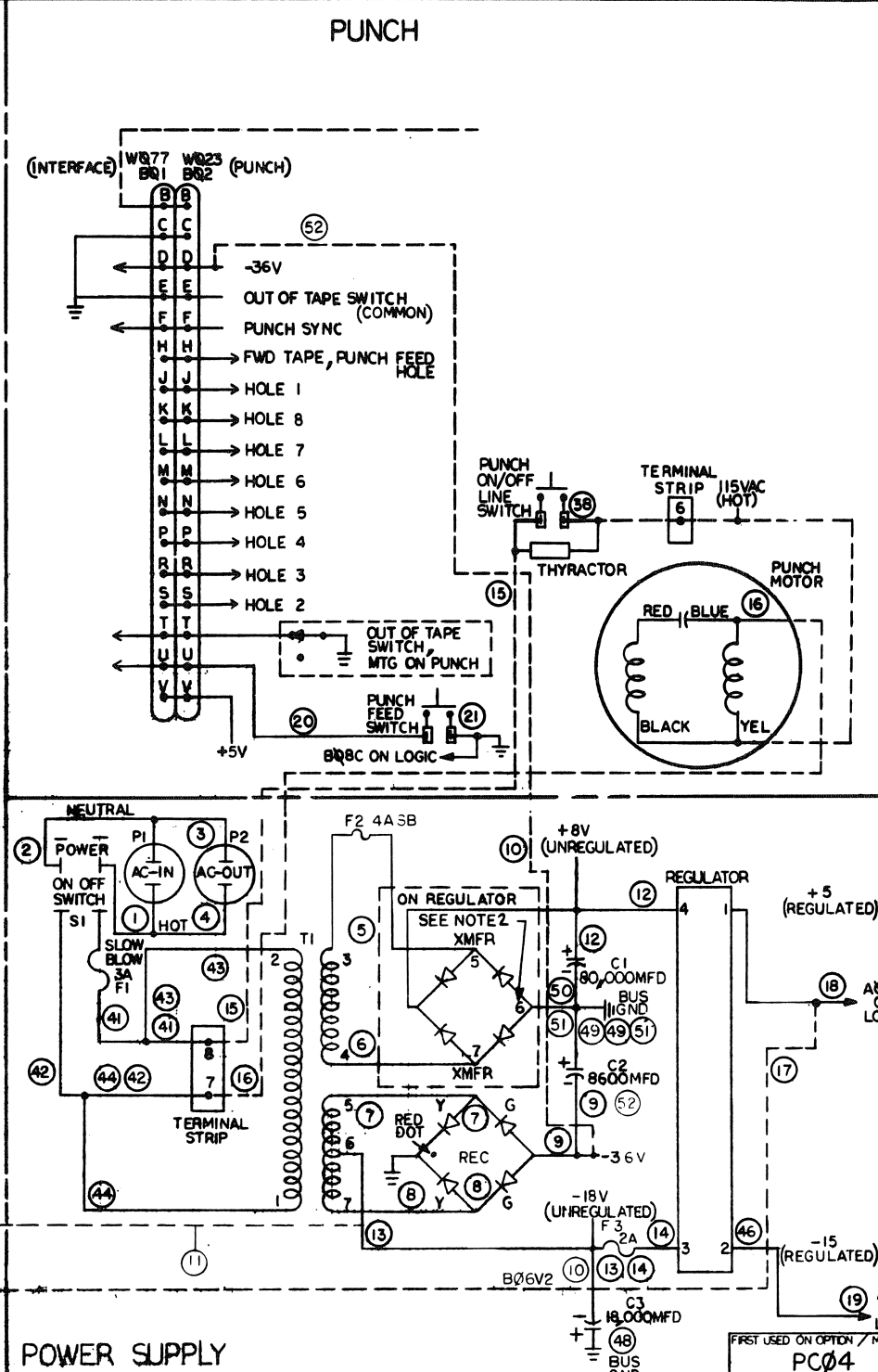
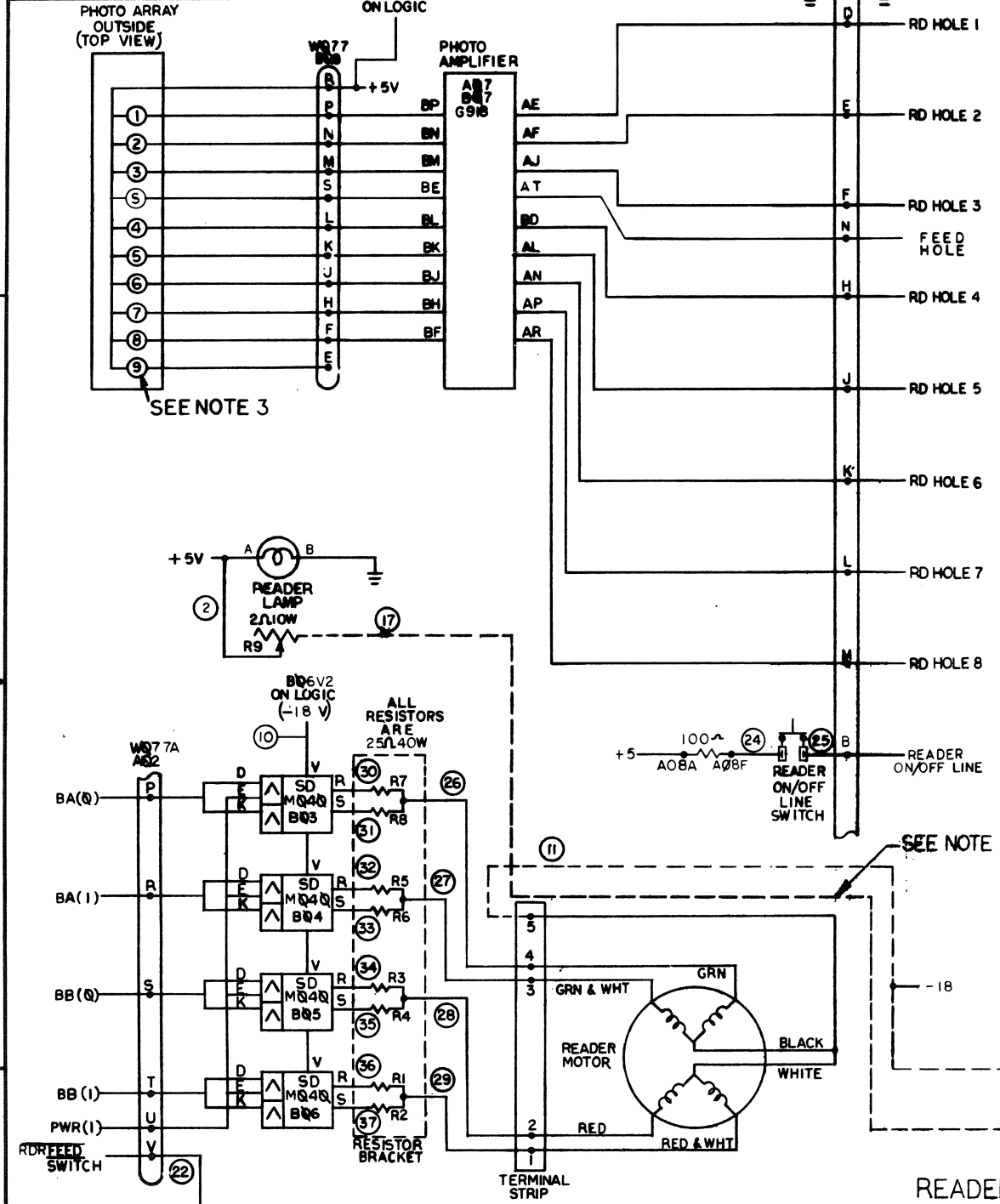
CONNECTIONS	MODEL			
	PCQ4 B PCQ4 BA	PCQ4 C PCQ4 CA	PCQ4 P PCQ4 PA	PCQ4 R
PWR SUP TO READER	+5V TO READER LAMP POT -18 TO T.S.S.	SAME AS PCQ4-B PCQ4-BA		SAME AS PCQ4-B PCQ4-BA
PWR SUP TO PUNCH	-30 TO PUNCH CABLE B'D 115V (HOT) TO PUNCH SW 115 (NEUTRAL) TO PUNCH MOTOR	SAME AS PCQ4-E PCQ4-EA		SAME AS PCQ4-E PCQ4-EA
PWR SUP TO SCR DRVR				
SCR DRVR TO PUNCH				

REV.	DATE	BY	CHKD	APPD	DESCRIPTION
1	11/18/69	W. J.
2	12/16/69	P.
3	12/16/69	C.
4	12/16/69	C.
5	12/16/69	C.
6	12/16/69	C.
7	12/16/69	C.
8	12/16/69	C.

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

UNLESS OTHERWISE SPECIFIED	DRN	DATE	2/16/69
UNLESS OTHERWISE SPECIFIED	CHKD	DATE	2/16/69
DIMENSIONS IN INCHES	ENG	DATE	12/16/69
TOLERANCES	APPD	DATE	12/16/69
DECIMALS ± .005			
FRACTIONS ± 1/64			
ANGLES ± 0°30'			
FINAL SURFACE QUALITY			
REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL	NEXT HIGHER ASSY.		
FINISH	A-ML-PCQ4-		
SCALE NONE	SIZE CODE	NUMBER	REV.
SHEET 1 OF 3	DBS	PCQ4-0-2	K

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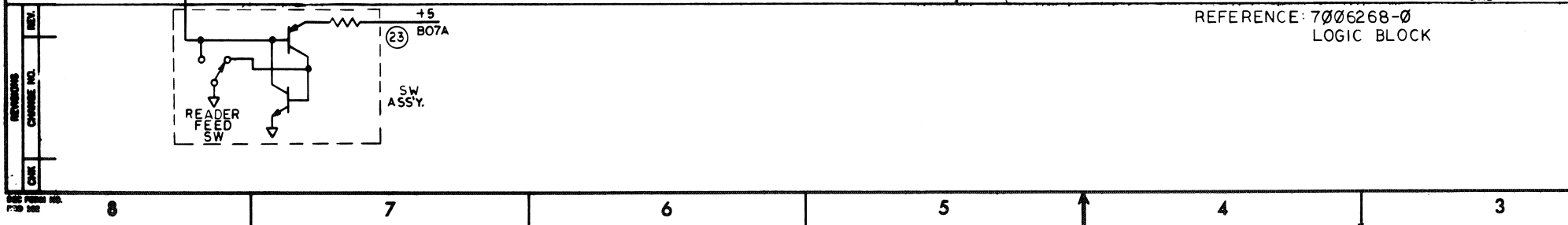
NOTES:
 1. DOTTED LINES INDICATE POSSIBLE CONNECTIONS BETWEEN POWER SUPPLY, READER AND PUNCH.
 2. THE UNCIRCLED NUMBERS 1 THRU 7 REFER TO CONNECTIONS ON REGULATOR BOARD.
 3. THIS PHOTO TRANSISTOR IS NOT USED.
 4. CIRCLED NUMBERS 1 THRU 46 ARE WIRE NUMBERS. SEE TABLE.

WIRE TABLE

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

LEGEND

CONN ECTIONS	MODEL	PC04 P	PC04 R8
PWR SUP TO READER	PC04 BB, PC04 BC	PC04 PA	SAME AS PC04-B, PC04-BC
PWR SUP TO PUNCH	30 TO PUNCH CABLE B01D, 115V (HOT) TO PUNCH SW, 115 (NEUTRAL) TO PUNCH MOTOR	SAME AS PC04 BB, PC04 Br	



PC04

QTY.	DESCRIPTION	PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED
 DIMENSION IN INCHES
 TOLERANCES: DECIMALS ± .005, FRACTIONS ± 1/64, ANGLES ± 0°30'

DATE: 12/15/69
BY: [Signature]
CHKD: [Signature]

TITLE: POWER AND CONTROL SCHEMATIC DIAGRAM (81)

MATERIAL: A-ML-PC04

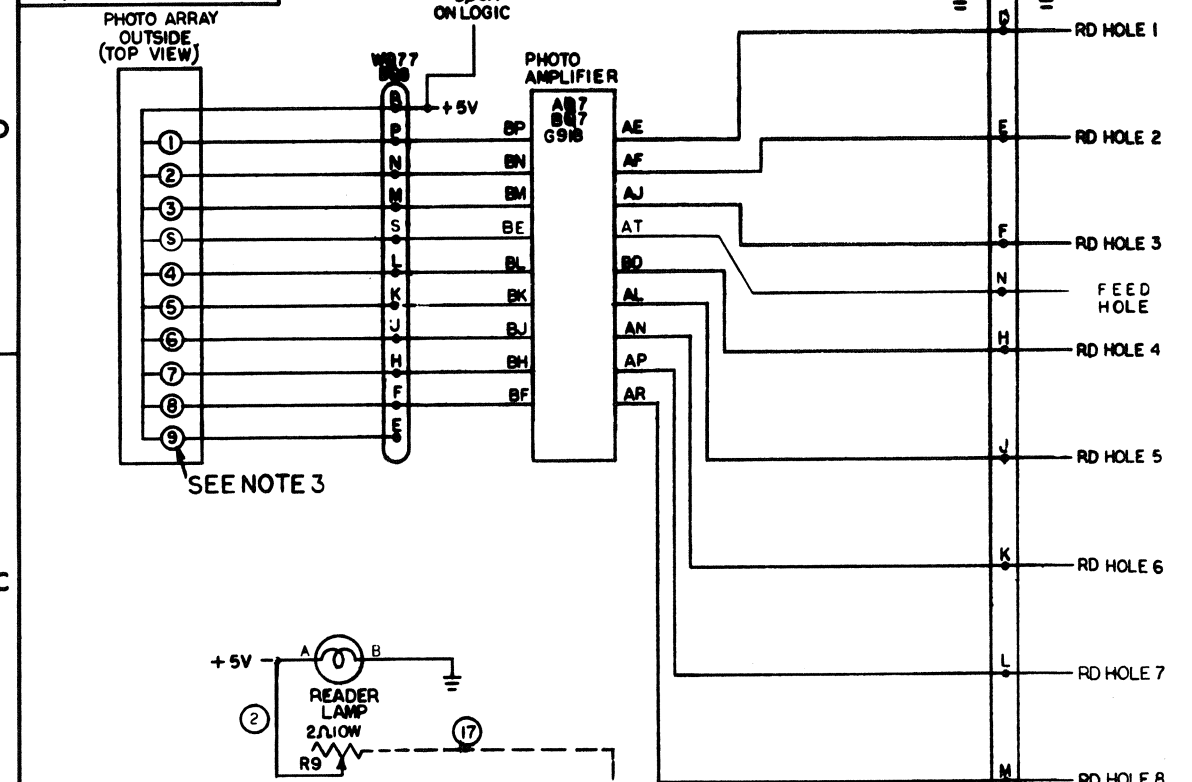
SCALE: NONE

SHEET: 2 OF 3

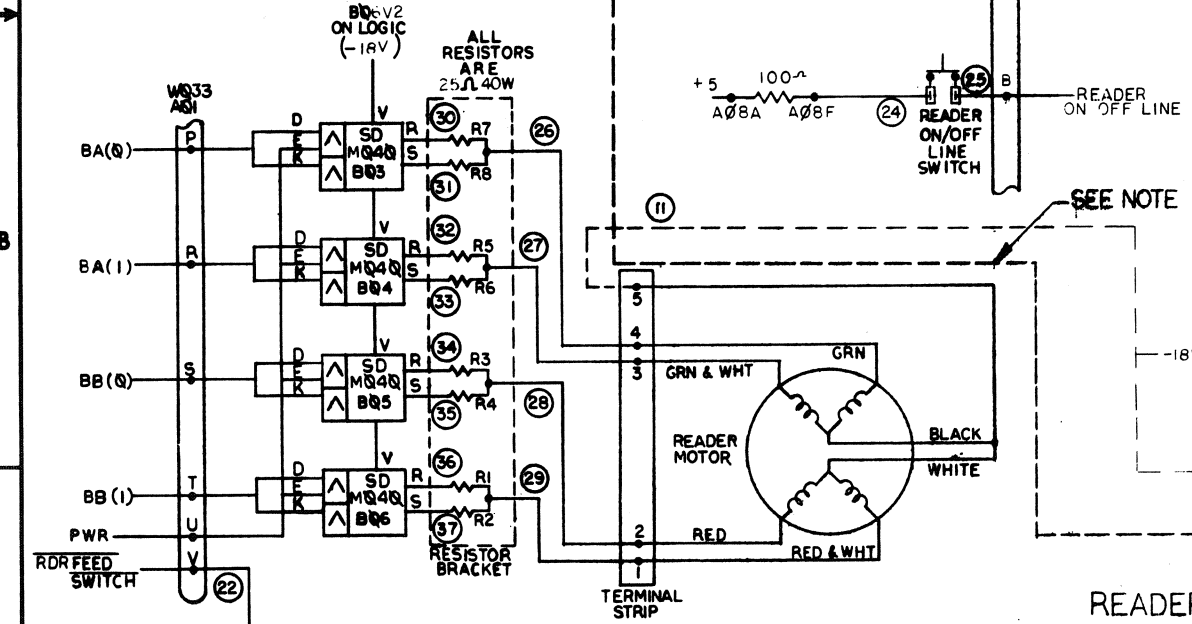
DIST.: DBS PC04-0-2

REV.: K

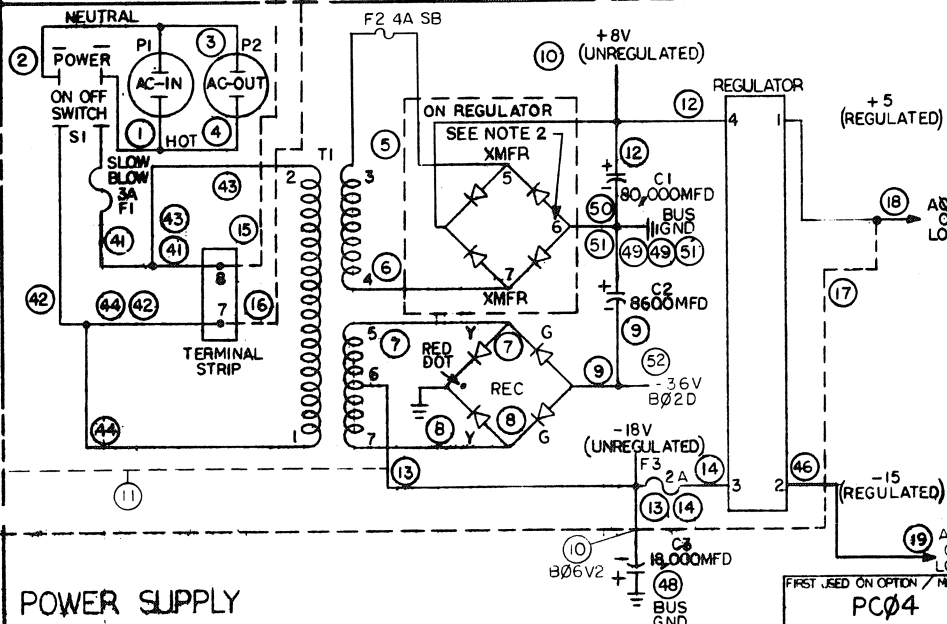
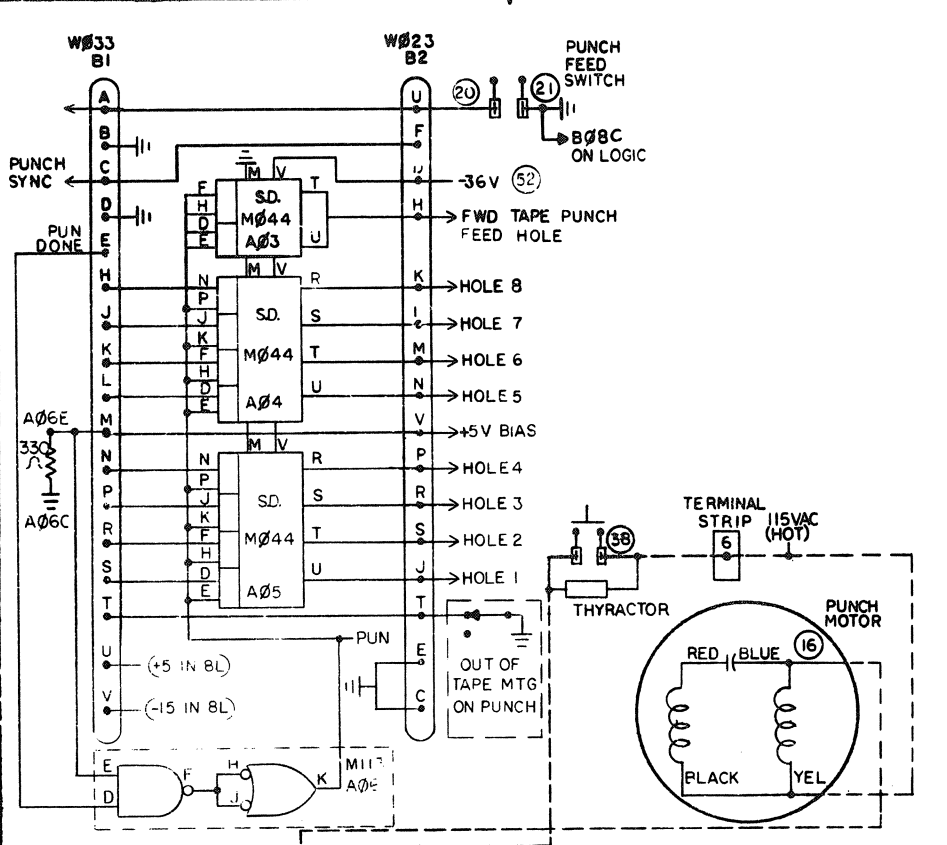
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SEE NOTE 3



READER POWER SUPPLY



REFERENCE: 7006268-1 LOGIC BLOCK

- 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 16 ARE WIRE NUMBERS. SEE TABLE.

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

CONNECTIONS	MODEL		
	PC04 BL PC04 BM	PC04 PL PC04 PM	PC04 RB
PWR SUP TO READER	15V TO READER LAMP POT 18 TO T.S.5		SAME AS PC04-BL PC04-BM
PWR SUP TO PUNCH	30 TO PUNCH CABLE B02D 115V (HOT) TO PUNCH SW 115 (NEUTRAL) TO PUNCH MOTOR		SAME AS PC04 BL PC04 BM

QTY.	DESCRIPTION	PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ± .008 ± 1/64 ± 0°30' FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL: / /

FINISH: / /

DATE: 12/16/69

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

APPROVED BY: [Signature]

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

SCALE: NONE

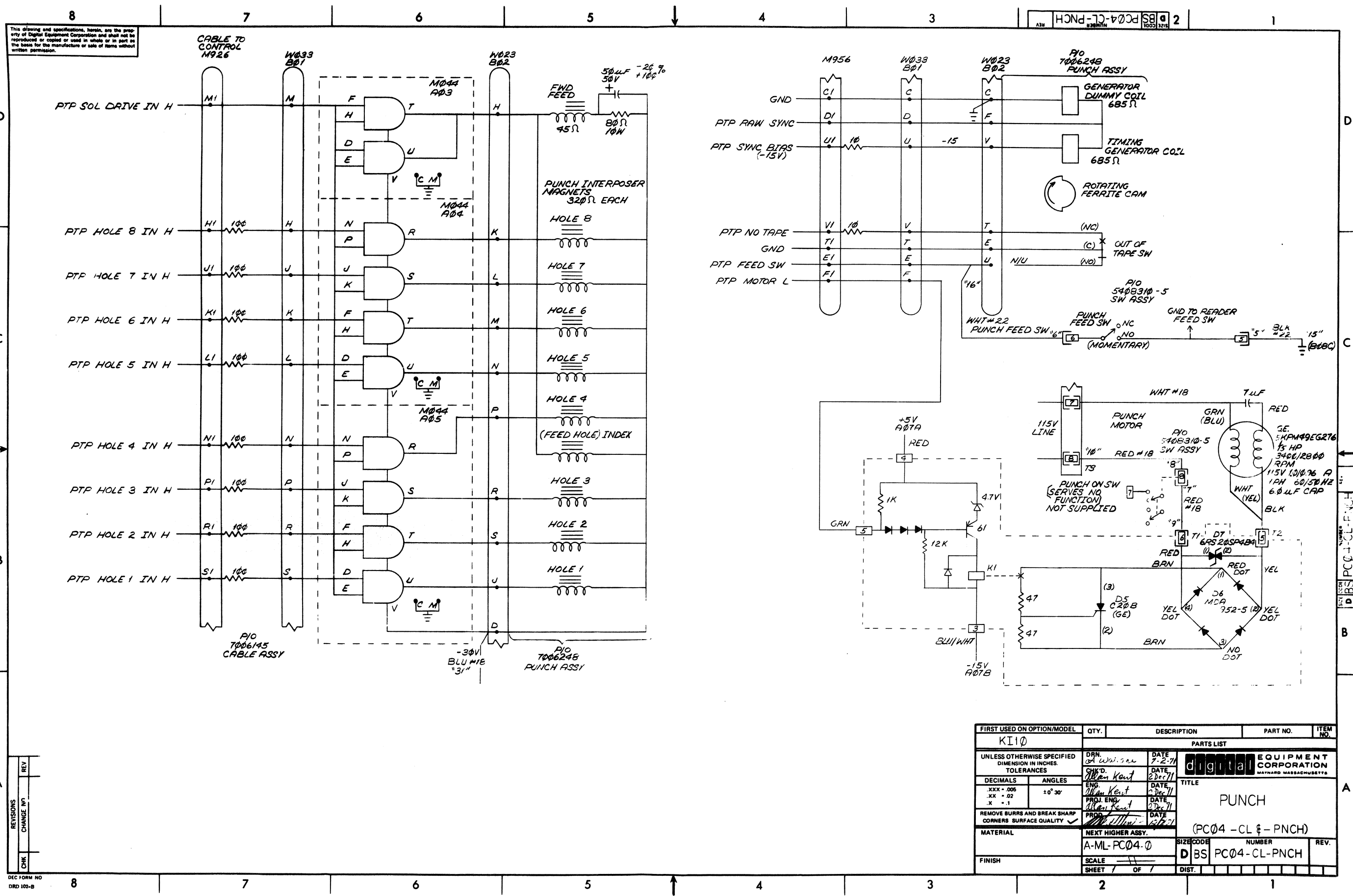
SHEET: 3 OF 3

DATE: 12/16/69

DWG. NO.: DBS PC04-0-2

REV. NO.: K

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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KI10				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
.XXX - .005	±0° 30'	TITLE PUNCH (PC04-CL- 1 -PNCH)		
.XX - .02				
.X - .1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL		NEXT HIGHER ASSY.	SIZE CODE	NUMBER
FINISH		A-ML-PC04-0	D BS	PC04-CL-PNCH
SCALE		SHEET 1 OF 1	DIST.	REV.

REVISIONS
 CHANGE NO.
 CHK
 DEC FORM NO
 DRD 102-B

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DMU PC04-0-3

NOTES:
 1. G918 REVISION MUST BE "B" CIRCUIT SCHEMATIC, "D" ETCHED BOARD OF HIGHER.
 2. * 50 HZ VARIATION

	1	2	3	4	5	6	7	8
A						W512	G918	W512
								LEVEL CONVERTER
B	W077	W023	W040	W040	W040	W040		W077
								PHOTO AMPLIFIER
								READER CELL
								LEVEL CONVERTER

PC04-B-BA*-C-CA*
 (SEE E-AD-7006268-0-0 WITH NOTE 4; PDP-8/S, -9, KA10)

	1	2	3	4	5	6	7	8
A								
B	W077	W023						

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

	1	2	3	4	5	6	7	8
A						W512	G918	W512
								LEVEL CONVERTER
B			W040	W040	W040	W040		W077
								PHOTO AMPLIFIER
								READER CELL
								LEVEL CONVERTER

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

	1	2	3	4	5	6	7	8
A								G918
B	W077	W023	W040	W040	W040	W040		W077
								PHOTO AMPLIFIER
								READER CELL

PC04-BB-BC*
 (7006268-0; PDP-8/I)

	1	2	3	4	5	6	7	8
A								
B	W033	W023						

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

	1	2	3	4	5	6	7	8
A								G918
B	W077							W077
								PHOTO AMPLIFIER
								READER CELL

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

	1	2	3	4	5	6	7	8
A	W033	W044	W044	W044	W044	W044	W044	G918
B	W033	W023	W040	W040	W040	W040		W077
								PHOTO AMP. IFIER
								READER CELL

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

	1	2	3	4	5	6	7	8
A								G918
B	W033							W077
								PHOTO AMPLIFIER
								READER CELL

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

	1	2	3	4	5	6	7	8
A								G918
B	W033	W023	W040	W040	W040			W077
								PHOTO AMPLIFIER
								READER CELL

PC04-CL-CM*
 (7006268-2; KI10)

REV.	CHG.	NO.	DATE	BY
C		00053		
D		00055	4-19-72	
			4-19-72	
			4-23-72	

DEC FORM NO. 100-A

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04-0		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES:	DRN P. MARCOTTI	DATE 6-6-69	digital EQUIPMENT CORPORATION	
TOLERANCES:	CHK'D R. CARVELL	DATE 6-3-69	MAYNARD, MASSACHUSETTS	
DECIMALS	ENG. G. BECKNER	DATE 6-6-69	TITLE	
ANGLES	PROJ. ENG. G. BECKNER	DATE 6-6-69	MODULE UTILIZATION LIST PC04	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. R. ANTONUCCIO	DATE 6-6-69		
MATERIAL	NEXT HIGHER ASSY.			
FINISH	A-ML-PC04	SIZE CODE	NUMBER	REV.
	SCALE	DMU	PC04-0-3	D
	SHEET 1 OF 1	DIST.		

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY P. MARCOTTE
 DATE *6/15/69* CHECKED *R. Carvelli* SECTION 1
 ENG *P. Blackner* PROD DATE *6/6/69* ISSUED SECT. 1
 DATE *6/6/69* DATE *6/6/69*

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	PCØ4-B-Ø	PCØ4-BA-Ø	PCØ4-C-Ø	PCØ4-CA-Ø	PCØ4-P-Ø	PCØ4-PA-Ø	PCØ4-R-Ø	PCØ4-BB-Ø	PCØ4-3C-Ø	PCØ4-RB-Ø
1	G918 *	PHOTO AMPLIFIER	1	1	1	1	-	-	1	1	1	1
2	WØ4Ø	NEGATIVE INPUT CONVERTER	1	1	1	1	-	-	1	1	1	1
3	WØ4Ø	SOLENOID DRIVER	4	4	4	4	-	-	4	-	-	-
4	W512	POSITIVE LEVEL CONVERTER	2	2	2	2	-	-	2	-	-	-
5	MØ4Ø	SOLENOID DRIVER (+ 8I)	-	-	-	-	-	-	-	4	4	4
6	MØ44	SOLENOID DRIVER (+8L)	-	-	-	-	-	-	-	-	-	-
7	M113	1Ø-2 INPUT NAND GATE	-	-	-	-	-	-	-	-	-	-

* NOTE: G918 MUST BE D BOARD REV OR HIGHER

TITLE MODULE UTILIZATION
 ASSEMBLY NO. D-MU-PCØ4-Ø-3
 SIZE CODE A PL
 SHEET 1 OF 2
 REV ECO NO. PCØ4-Ø-3 D PCØ4-Ø-3
 DEC FORM NO. DRA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

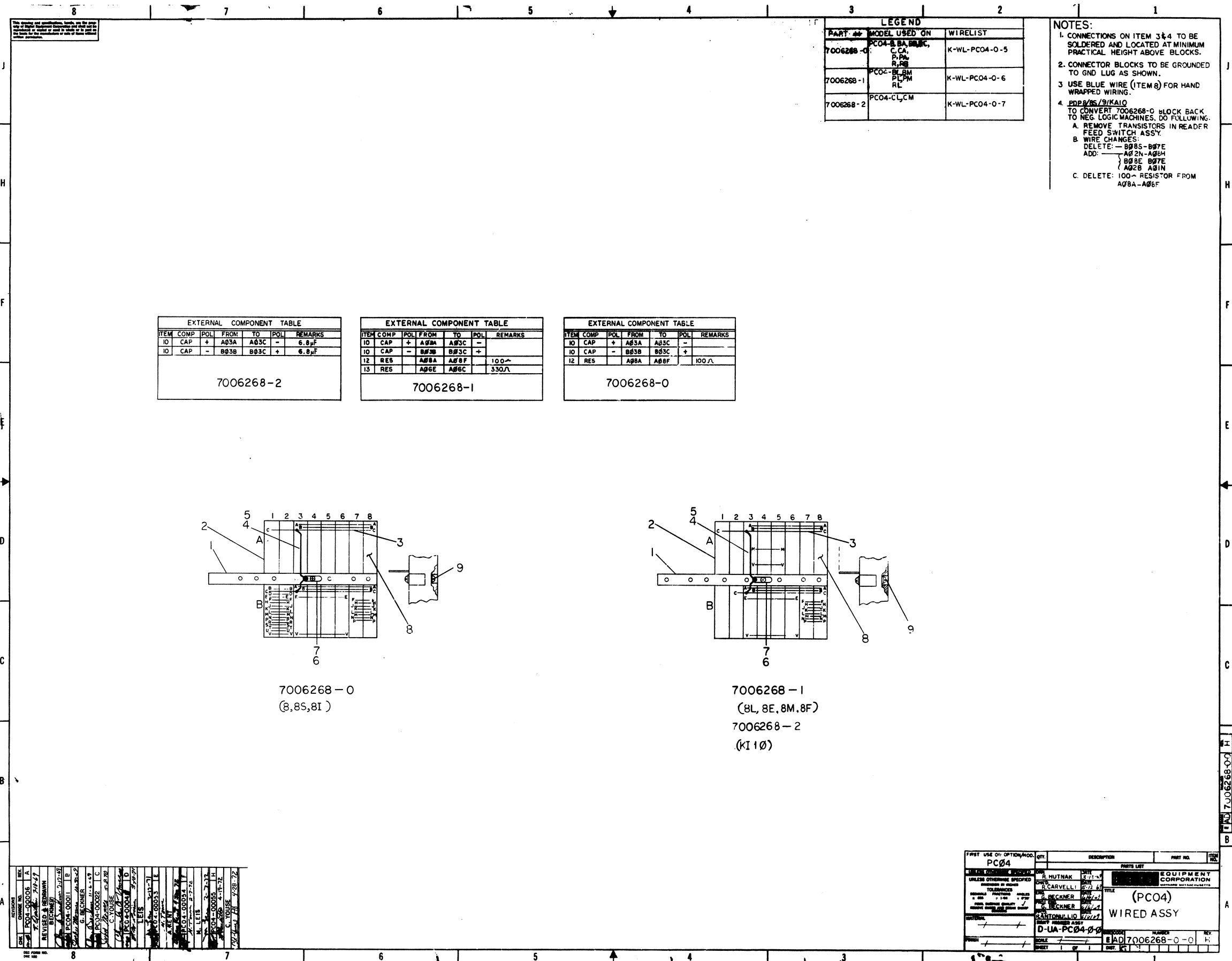
PARTS LIST

MADE BY P. MARCOTTE
 DATE *6/5/69* CHECKED *R. Carvelli* SECTION 1
 ENG *G. Blackner* PROD DATE *6/6/69* ISSUED SECT. 1
 DATE *6/6/69* DATE *6/6/69*

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	PCØ4-BI-Ø	PCØ4-BM-Ø	PCØ4-PI-Ø	PCØ4-PM-Ø	PCØ4-CI, -CM	PCØ4-RI
1	G918 *	PHOTO AMPLIFIER	1	1	-	-	1	1
2	WØ4Ø	SOLENOID DRIVER (-)	-	-	-	-	-	-
3	W512	POSITIVE LEVEL CONVERTER	-	-	-	-	-	-
4	MØ4Ø	SOLENOID DRIVER (+)	4	4	-	-	-	4
5	MØ44	SOLENOID DRIVER (+8L)	3	3	3	3	-	-
6	M113	1Ø-2 INPUT NAND GATE	1	1	1	-	-	-

* NOTE: G918 MUST BE D REV BOARD OR HIGHER

TITLE MODULE UTILIZATION
 ASSEMBLY NO. D-MU-PCØ4-Ø-3
 SIZE CODE A PL
 SHEET 2 OF 2
 REV ECO NO. PCØ4-Ø-3 D PCØ4-Ø-3
 DEC FORM NO. DRA 110



LEGEND		
PART NO.	MODEL USED ON	WIRELIST
7006268-0	PC04-BA,8E,8F, C,CA, P,PA, R,RE	K-WL-PC04-0-5
7006268-1	PC04-BL,8M, PL,PM, RL	K-WL-PC04-0-6
7006268-2	PC04-CL,CM	K-WL-PC04-0-7

- NOTES:**
- CONNECTIONS ON ITEM 3&4 TO BE SOLDERED AND LOCATED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS.
 - CONNECTOR BLOCKS TO BE GROUNDED TO GND LUG AS SHOWN.
 - USE BLUE WIRE (ITEM 8) FOR HAND WRAPPED WIRING.
 - PDP/RS/9/KA10 TO CONVERT 7006268-0 BLOCK BACK TO NEG. LOGIC MACHINES, DO FOLLOWING:
 - REMOVE TRANSISTORS IN READER FEED SWITCH ASSY.
 - WIRE CHANGES:
 - DELETE: - B085-B07E
 - ADD: - A02N-A06H
 - B09E-B07E
 - A02B-A01N
 - C. DELETE: 100-RESISTOR FROM A08A-A06F

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A03A	A03C	- 6.8μF
10	CAP	-	B03B	B03C	+ 6.8μF

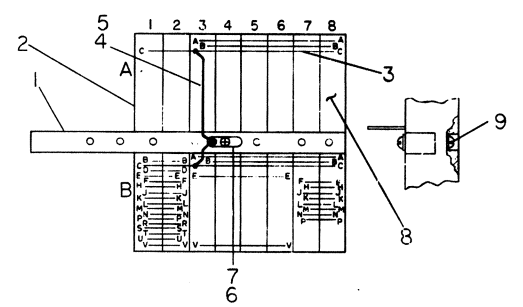
7006268-2

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A03A	A03C	-
10	CAP	-	B03B	B03C	+
12	RES		A08A	A08F	100Ω
13	RES		A06E	A06C	330Ω

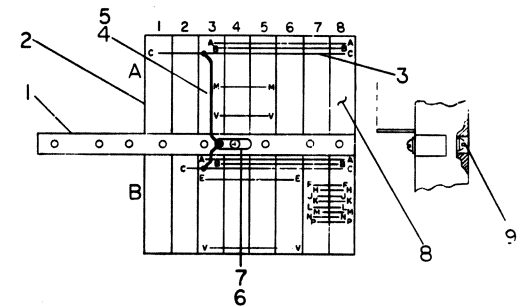
7006268-1

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A03A	A03C	-
10	CAP	-	B03B	B03C	+
12	RES		A08A	A08F	100Ω

7006268-0



7006268-0
(8,8S,8I)



7006268-1
(8L,8E,8M,8F)
7006268-2
(KI10)

REV	DATE	BY	CHKD	DESCRIPTION
1	10/1/72	W. L. B.		REVISED TO ADD 100Ω RESISTOR
2	10/1/72	W. L. B.		REVISED TO ADD 330Ω RESISTOR
3	10/1/72	W. L. B.		REVISED TO ADD 6.8μF CAPACITORS
4	10/1/72	W. L. B.		REVISED TO ADD 100Ω RESISTOR
5	10/1/72	W. L. B.		REVISED TO ADD 330Ω RESISTOR
6	10/1/72	W. L. B.		REVISED TO ADD 6.8μF CAPACITORS
7	10/1/72	W. L. B.		REVISED TO ADD 100Ω RESISTOR
8	10/1/72	W. L. B.		REVISED TO ADD 330Ω RESISTOR

FIRST USE OR OPTION/NO.	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04				
UNLESS OTHERWISE SPECIFIED		EQUIPMENT CORPORATION		
TOLERANCES		TITLE (PC04)		
DIMENSIONS		WIRED ASSY		
MATERIALS		D-UA-PC04-0-0		
FINISH		REVISED		
SCALE		REVISED		
SHEET		REVISED		

7006268-0

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

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

QUANTITY / VARIATION

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION																	
			7006268-0	7006268-1	7006268-2															
1	B-IA-7407077-0-0	MTG BAR 6 IN.	1	1	1															
2	1202244	144 PIN CONN BLOCK WRAPTYPE	2	2	2															
3	1202188	BUS BAR BERG NO. 3584-032	A/R	RA	RA	R														
4	9107560-1	#22 AWG BUS WIRE	A/R	RA	RA	R														
5	9107265	#22 TUBING, TEFLON, WHITE	A/R	RA	RA	R														
6	9007597	TERMINAL SHAKEPROOF #2116-08-00	1	1	1															
7	9006034	SCR PHL PAN HD #8-32 x .19 LG SST	1	1	1															
8	9107470-10	#24 AWG SOLID KYNAR BLUE	A/R	RA	RA	R														
9	9007641	SCR PHL FIL HD #8-32 x 1/2 LG SST	4	4	4															
10	1005306	CAP 6.8 MFD 35V 10%	2	2	2															
11	1000086	CAP 180 MFD 6V 10%	1																	
12	13-00231	RES 100ohm 1/4W 5%	1	1	-															
13	1300295	RES 330 OHM 1/4W 5%	-	1	-															
REF	K-WL-PC04-0-5	WIRE LIST	1	-	-															
REF	K-WL-PC04-0-6	WIRE LIST	-	1	-															
REF	K-WL-PC04-0-7	WIRE LIST	-	-	1															

TITLE	PC04 WIRED ASSY	ASSY NO.	E-AD-7006268-0-0	SIZE	A	CODE	PL	NUMBER	7006268-0-0	REV.	H	ECO NO.	PC04-00055
SHEET	1	OF	1	DIST.	5								

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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

TITLE PC94 Engineering Specification DATE 11/11/69

REVISIONS		CHG NO	ORIG	DATE	APPD BY	DATE
REV	DESCRIPTION	PC04	M. LEIS		M	3-17-77
A		PC04				

General Information:

The PC94 comes in eight (8) configurations. They are the PC94P, PL (basic punch), PC94R, RE (basic reader), PC94AB, EB, BL, (punch and reader), and PC94C (punch, SCR, and reader). The 50 cycle variations are PC94PA, PM; PC94BA, BC, BM, and PC94CA with no variation in PC94R and RE. Table 1-1 gives the block schematic references, UML, interface cables, and the applicable computers.

Logic Levels: Negative Logic Systems

Logic 1 is -3.2v to -3.9 volts
 Logic 0 is 0v to -0.3 volts

Logic Levels: Positive Logic Systems

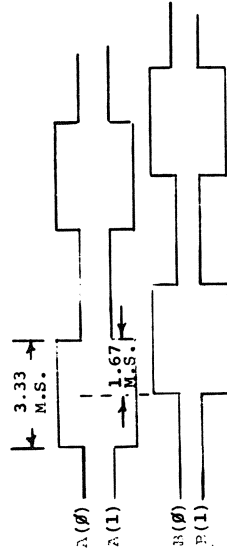
Inputs
 Logic 1 is >+2.4v
 Logic 0 <+0.8v

Reader Signals:

Reference drawing BS-D-PC94-0-2

(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:



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 ±.25 volts
- (2) Regulated -15 volts ±1.0 volt
- (3) -36 volts ± 4 volts

Power Requirements

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

Reader

- (a) Temperature (1) 55° - 110°F operating, 10° - 150°F non-operating
- (b) Humidity (1) 20% - 95% w/o condensation operating; 5% - 95% w/o condensation non-operating.
- (c) Speed (1) 300 - 310 characters/second full speed. (2) 20 - 26 character/second single character rate.
- (d) Type of tape (1) non-oil (less than 12% transmissivity)
- (e) Tape Life: Acceleration de-accelerate type operation - 30,000 cycles.

DEC FORM NO DRA 108A

SIZE CODE SP A REV A NUMBER PC04-0-4 SHEET 3 OF 7

TITLE PC94 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 and <+0.8 v when the motor is stopped for positive logic systems.
- (3) The reader feed switch is simply an off line means of moving tape through the reader. A ground level performs this function.
- (4) The reader on/off line switch allows the operator to disable the unit from reading by putting the switch in the off-line position.
- (5) The reader on/off line switch is open whenever the reader is off line, and is >2.4v when the reader is on line.

(6) Data Output Lines:

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

Punch Signals:

Refer to drawing BS-D-PC94-0-2

- (1) The interface signal used to turn on the punch motor with an SCR driver option is Gnd when active and open or -3v when inactive.
- (2) The -36 volt is supplied to the solenoid coils on the punch motor and also to the solenoid drivers at the external control.
- (3) Punch sync is the signal generated from the sync timing wheel on the punch. Equally spaced (in time) positive and negative pulses (one each) for each shaft revolution is generated on this line.
- (4) Forward tape and punch feed hole: A ground level for 10 msec. ±10% will punch feed hole and then advance the tape forward in preparation for another cycle for all configurations except PC94PI and BL when the solenoid drivers are activated by a >+2.0v signal.

DEC FORM NO DRA 108A

SIZE CODE SP A REV A NUMBER PC04-0-4 SHEET 2 OF 7

TITLE PC94 Engineering Specification CONTINUATION SHEET

- (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 ±5%

Margins

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

DEC FORM NO DRA 108A

SIZE CODE SP A REV A NUMBER PC04-0-4 SHEET 4 OF 7

ENGINEERING SPECIFICATION		CONTINUATION SHEET			
TITLE PC#4 Engineering Specification		TITLE PC#4 Engineering Specification - Test Procedure for Reader			
TABLE 1-1 PC#4 Configuration					
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-M040	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-M040	PDP8/I
PC#4BL	D/BS/PC#4-0-2 Page 3 of 3	3-M044	2-W033C	1-G918 4-M040	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; PDP10

DEC FORM NO
DRA 108A

SIZE CODE
A

PCO-0-4

NUMBER

REV
A

SHEET 5 OF 7

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

DEC FORM NO 16-1022
DRA 108

SIZE CODE
A

PCO4-U-4

NUMBER

REV
A

SHEET 7 OF 7

ENGINEERING SPECIFICATION		CONTINUATION SHEET																																									
TITLE PC#4 Engineering Specification		TITLE PC#4 Engineering Specification - Test Procedure for Reader																																									
<p>1. Do not apply power until the following checks are made.</p> <p>a. Logic block empty.</p> <p>b. A#1A, A#2A, A#1E, A#2B, A#1A, and B#2A are bare (no wiring or bussing).</p> <p>c. B#1B and B#2B should be bussed together without any wires on them except for the PC#4C configuration when a white/green wire will be on B#1E.</p> <p>d. Remove reader lamp.</p> <p>e. Check caps for proper polarity in wiring.</p> <p>f. Put ohmmeter on X100 scale and check regulator board tabs 1 thru 5 and 7 for lack of short to ground. Tabs 6 and 8 should indicate a short to ground.</p> <p>g. Check fuses for proper rating. Also, should be slo/blo.</p> <p>h. Check for continuity between reader lamp ground slot and chassis ground.</p> <p>i. Check the following wires for proper connection.</p> <table border="1"> <thead> <tr> <th>Color</th> <th>Location</th> <th>Color</th> <th>Location</th> </tr> </thead> <tbody> <tr> <td>+black (str)</td> <td>B#8C</td> <td>*wh/blue</td> <td>A#7B</td> </tr> <tr> <td>*wh/black (str)</td> <td>B#7C</td> <td>*wh/green</td> <td>B#1B</td> </tr> <tr> <td>#brown (str)</td> <td>A#2B</td> <td>#brown (solid)</td> <td>B#3R, S</td> </tr> <tr> <td>#yellow (str)</td> <td>A#1V</td> <td>#orange (solid)</td> <td>B#4R, S</td> </tr> <tr> <td>*wh/yellow (str)</td> <td>A#8F</td> <td>#yellow (solid)</td> <td>B#5P, S</td> </tr> <tr> <td>+white (str)</td> <td>B#1U</td> <td>#violet (solid)</td> <td>F#6R, S</td> </tr> <tr> <td>grey/red (str)</td> <td>A#8A</td> <td>+punch configurations</td> <td></td> </tr> <tr> <td>grey/yellow (str)</td> <td>A#8B</td> <td>*only on PC#4C configurations</td> <td></td> </tr> <tr> <td>blue (str)</td> <td>B#6V</td> <td>=reader configurations</td> <td></td> </tr> </tbody> </table> <p>j. Put reader lamp back in position making sure that the tension on the lamp is sufficient for good contact.</p> <p>2. Apply AC power to the unit and check.</p> <p>a. +5 volts on A#8A and B#8A (+5 volts ± 25 volts).</p>				Color	Location	Color	Location	+black (str)	B#8C	*wh/blue	A#7B	*wh/black (str)	B#7C	*wh/green	B#1B	#brown (str)	A#2B	#brown (solid)	B#3R, S	#yellow (str)	A#1V	#orange (solid)	B#4R, S	*wh/yellow (str)	A#8F	#yellow (solid)	B#5P, S	+white (str)	B#1U	#violet (solid)	F#6R, S	grey/red (str)	A#8A	+punch configurations		grey/yellow (str)	A#8B	*only on PC#4C configurations		blue (str)	B#6V	=reader configurations	
Color	Location	Color	Location																																								
+black (str)	B#8C	*wh/blue	A#7B																																								
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DEC FORM NO
DRA 108A

SIZE CODE
A

PCO4-U-4

NUMBER

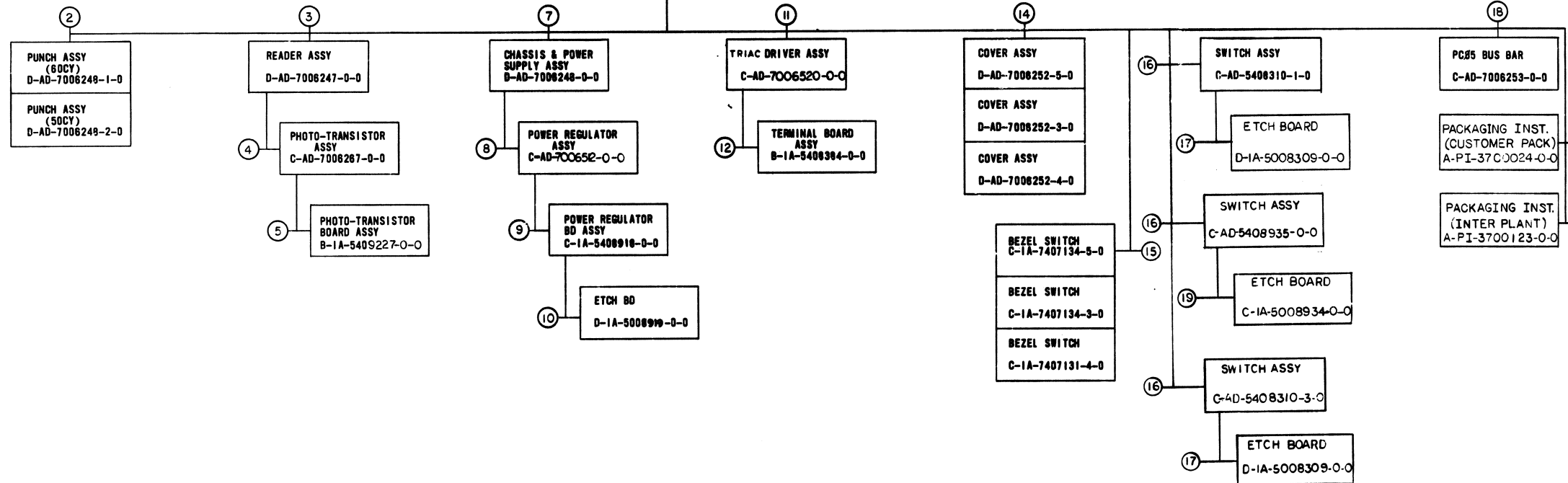
REV
A

SHEET 6 OF 7

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NOTES:
 1 THE KEY TO SYMBOLS IN THE FIND NO. COLUMNS IN FIND BLOCK 1 IS:
 AN "X" MEANS THE ASSY IS USED.
 A BLANK SPACE MEANS THE ASSY IS NOT USED.
 A DASH AND NUMBER (-1-2 ETC) MEANS THE ASSY IS USED AND THAT VARIATION OF THE ASSY HAVING THAT PARTICULAR DASH NUMBER AS PART OF ITS DWG. NUMBER IS USED
 EXAMPLE:
 A READER MODEL FROM FIND COLUMN 14 USES A (-3) OR A D-AD-7006252-3-0 COVER ASSY.

MODEL	DESCRIPTION	CY	COMPOSITION																
			FIND NUMBER																
			2	3	4	5	7	8	9	10	11	12	14	15	16	17	18	19	
PC05-C	PUNCH, READER, DRIVER	00	-1	X	X	X		X	X	X	X	X		-4	-4	-3	X	X	
PC05-CA	PUNCH, READER, DRIVER	50	-2	X	X	X		X	X	X	X	X		-4	-4	-3	X	X	
PC05-P	PUNCH, DRIVER	00	-1					X	X	X	X	X		-5	-5	-1	X	X	
PC05-PA	PUNCH, DRIVER	50	-2					X	X	X	X	X		-5	-5	-1	X	X	
PC05-R	READER	X		X	X	X		X	X	X	X			-3	-3	-0		X	X



UNIT ASSY. DWG. NO. D-UA-PC05-0-0

REV.	CHG. NO.	DATE	BY	APP.	DESCRIPTION
A	PC05-0001				
B	PC05-0002				
C	TU55-00014				
D	PC05-0003				
E	PC0-0002				
F	PC05-00014				
G	PC05-00015				
H	PC05-00018				
I	PC05-00020				
J	PC05-00021				
K	PC05-00016				
L	PC04-00026				
M	PC04-00032				
N	PC05-00018				
O	PC05-00019				
P	PC05-00021				
Q	PC05-00020				
R	PC05-00021				
S	PC05-00021				
T	PC05-00021				
U	PC05-00021				
V	PC05-00024				
W	PC05-00024				
X	PC05-00024				
Y	PC05-00024				
Z	PC05-00024				

FIRST USED ON OPTION/MODEL
 PC05

DO NOT SCALE DRAWING
 UNLESS OTHERWISE SPECIFIED
 DIMENSIONS IN INCHES
 DECIMALS FRACTIONS ANGLES
 ± .005 ± 1/64 ± 90°
 FINAL SURFACE QUALITY
 REMOVE BURRS AND BREAK SHARP CORNERS

QTY.	DESCRIPTION	PART NO.	ITEM NO.
	PARTS LIST		
	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
	TITLE DRAWING INDEX LIST PC05		
	NEXT HIGHER ASSY A-ML-FC05-0		
	SCALE 1 OF 2	DIST. 5	REV. Z

SEE SHEET 2 OF 2

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1-0-500101 2

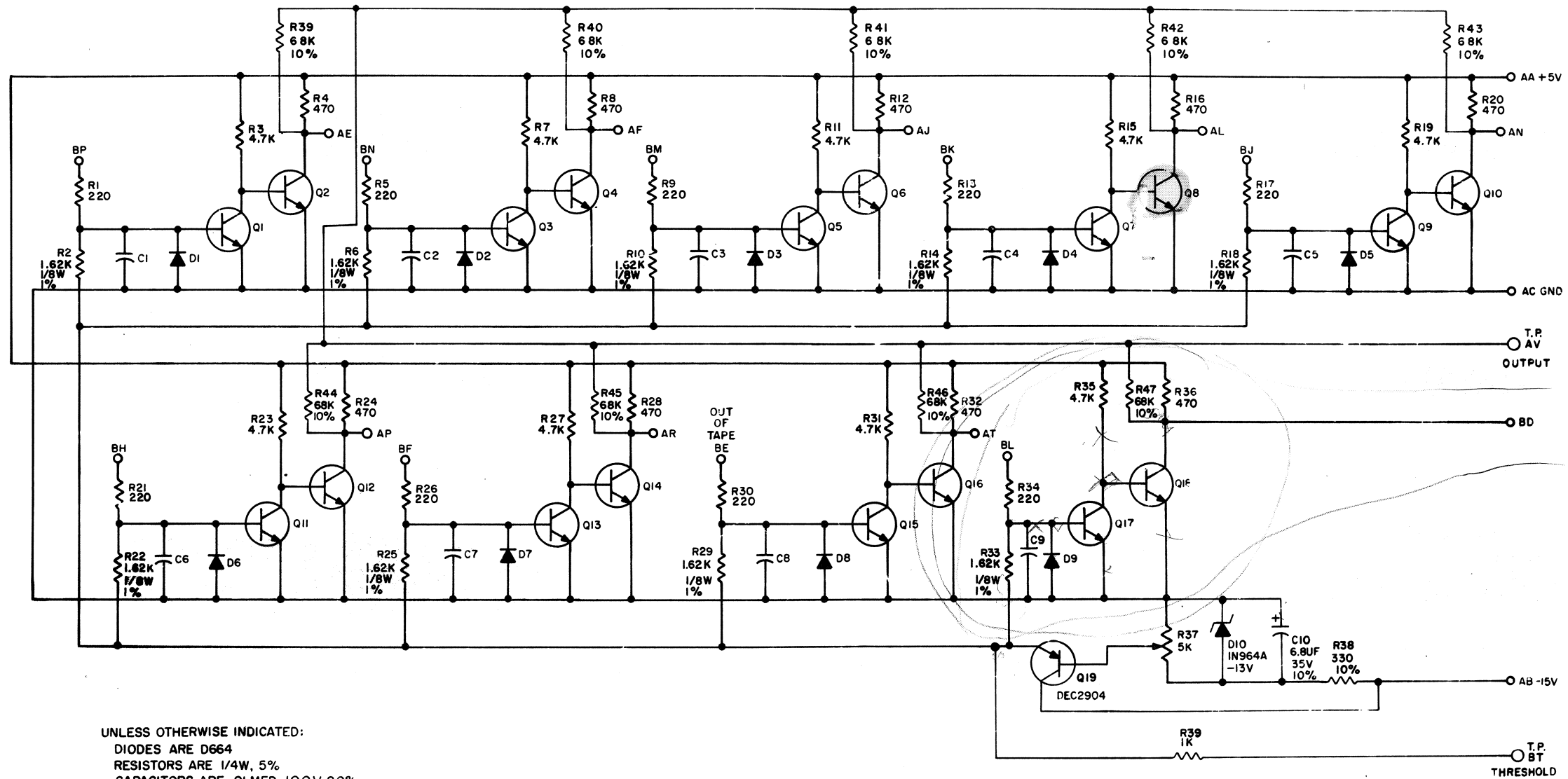
MECHANICAL			DEPT USAGE			MECHANICAL			DEPT USAGE			MECHANICAL			DEPT USAGE			ELECTRICAL			DEPT USAGE									
FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C	FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C	FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C	FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C							
1	PC05 READER, PUNCH.	D-UA-PC05-0-0				4	PHOTO TRANSISTOR ASSY	C-1A-7008207-0-0				16	SWITCH ASSY SWITCH ASSY SWITCH ASSY SWITCH ASSY (PL) BAR SPACER SW. BD.	C-AD-5408310-1-0 C-AD-5408310-2-0 C-AD-5408310-3-0 A-PL-5408310-0-0 B-MD-7407175-0-0				1	PAPER TAPE PUNCH READER SCR PC05-0A READER & PUNCH & DRIVER PC05-0A PUNCH PC05-0A PUNCH PC05-0A POWER & CONTROL SCHEMATIC DIAGRAM MODULE UTILIZATION MODULE UTILIZATION (PL) SET UP PROCEDURE ACCESSORY LIST	A-ML-PC05-0 A-ML-PC05-0A A-ML-PC05-0A A-ML-PC05-0A D-BS-PC05-3-4 C-MU-PC05-3 A-PL-PC05-3 A-SP-PC05-0-0 A-AL-PC05-0-05										
2	PC05 READER & PUNCH (PL) CHAD BOX TAPE CONTAINER BRKT. RESISTOR POWER SUPPLY COVER SCR MODULE RETAINER HOLD DOWN BAR PACKAGING INSTRUCTION PC0 READER & PUNCH PUNCH ASSY (50 CY) PUNCH ASSY (50 CY) PUNCH ASSY (PL) CHAD TUBE PUNCH MTG CHASSIS HINGE SHIELD PUNCH CONTACTS TAPE DEPRESSOR PIN PULLY (80CY) PULLY (50CY) PAPER TAPE PUNCH FEED BRKT TAPE CHUTE TORSION SPRING	A-PL-PC05-0-0 B-MD-7408300-0-0 D-MD-7407131-0-0 C-MD-7408300-0-0 E-1A-7407438-0-0 C-1A-7408342-0-0 C-1A-7408334-7-0 A-PI-3700024-0-0 D-AD-7008248-1-0 D-AD-7008248-2-0 A-PL-7008248-0-0 B-MD-7407398-0-0 D-1A-7407071-0-0 B-MD-7407083-0-0 B-MD-7407132-0-0 D-SC-1209915-0-0 B-MD-7408172-0-0 B-MD-7408088-1-0 B-MD-7408088-2-0 D-MD-7408088-0-0 D-1A-7408171-0-0 C-SC-1209924-0-0				7	CHASSIS & POWER SUPPLY ASSY CHASSIS & POWER SUPPLY (PL) PANEL FRONT BRKT MTG BAR RIGHT HAND BRKT MTG BAR LEFT HAND CHASSIS COVER, JONES STRIP HARNESS, CONTROL HARNESS I/O 110 VAC HARNESS POWER SUPPLY DECAL (PC04)	D-AD-7008248-0-0 A-PL-7008248-0-0 D-1A-7407075-0-0 C-MD-7407085-1-0 C-MD-7407085-2-0 E-1A-7407074-0-0 C-MD-5309640-0-0 D-1A-7008311-0-0 D-1A-7008310-0-0 D-1A-7008309-0-0 A-DC-7407476-0-0				17	PC0 SWITCH BOARD FLIP CHIP MODULE	D-1A-5008308-0-0 D-MD-1402230-0-0				7	CHASSIS & POWER SUPPLY ASSY	D-AD-7008248-0-0				11	TRIAC DRIVER ASSY CIRCUIT SCHEMATIC	C-AD-7006520-0-0 C-AD-7006520-0-0				
3	READER ASSY READER ASSY (PL) TAPE PATH GUIDE READER PLATE BLOCK READER SHAFT READER PLATE ARM, SPRING SPRING, BULB DEPRESSOR TAPE BRKT TAPE HOLD DOWN SLO SYN MOTOR REWORK SHIM LENS	D-AD-7008247-0-0 A-PL-7008247-0-0 D-MD-7407076-0-0 D-MD-7407085-0-0 B-MD-7407119-0-0 B-MD-7407120-0-0 B-MD-7407118-0-0 A-MD-7407118-0-0 C-MD-7407121-0-0 C-MD-7407144-0-0 B-1A-7407684-0-0 B-MD-7407800-0-0 B-MD-7404989-0-0				8	PWR REGULATOR ASSY PWR REGULATOR (PL) HEATSINK, PWR REGULATOR CIRCUIT SCHEMATIC	C-AD-7006512-0-0 A-PL-7006512-0-0 C-MD-7407088-0-0 B-CS-5408308-0-1				18	PC05 BUS BAR MTG. BAR (6 IN.)	C-AD-7008253-0-0 B-1A-7407077-0-0				19	PR SWITCH BOARD	D-1A-5008934-0-0				8	PWR REGULATOR ASSY CIRCUIT SCHEMATIC	C-AD-7006512-0-0 B-CS-5408918-0-1				
						9	PWR REGULATOR BOARD ASSY	C-1A-5408918-0-0				19	PACKAGING INSTRUCTIONS OUTER SHIPPING CARTON INNER SHIPPING CARTON BOTTOM PAD FRONT SPACER SIDE SPACER REAR SUPPORT TOP SPACER TORO PAD POLY BAG	A-PI-3700024-0-0 A-PS-9905046-0-0 A-PS-9905047-0-0 A-PS-9905053-0-0 A-PS-9905054-0-0 A-PS-9905055-0-0 A-PS-9905052-0-0 A-PS-9905056-0-0 A-PS-9905044-1-0 A-PS-9905129-7-0				18	BUS BAR (PC05)	C-AD-7008253-0-0										
						10	ETCH BOARD	D-1A-5008919-0-0				20	PACKAGING INSTRUCTIONS TAPELESS CARTON SPECIAL DIE CUT ONE PIECE FOLDER QUAD MODULE BOOK PACK POLY BAG	A-PI-3700123-0-0 A-PS-9905348-00-0 A-PS-9905348-01-0 A-PS-9905348-02-0 A-PS-9905072-0-0 A-PS-9905129-7-0				11	TRIAC DRIVER ASSY SCR DRIVER ASSY (PL) SCR DRIVER CHASSIS	C-AD-7006520-0-0 A-PL-7006520-0-0 C-1A-7407070-0-0										
						11	TERMINAL BOARD ASSY	E-1A-5408394-0-0				21	PACKAGING INSTRUCTIONS TAPELESS CARTON SPECIAL DIE CUT ONE PIECE FOLDER QUAD MODULE BOOK PACK POLY BAG	A-PI-3700123-0-0 A-PS-9905348-00-0 A-PS-9905348-01-0 A-PS-9905348-02-0 A-PS-9905072-0-0 A-PS-9905129-7-0																
						12	COVER ASSEMBLY COVER ASSEMBLY COVER ASSEMBLY COVER ASSEMBLY (PL) COVER, PC0 (BASIC & COMB) COVER, PC0 (PUNCH) COVER, PC0 (READER) BEZEL	D-AD-7008252-3-0 D-AD-7008252-4-0 D-AD-7008252-5-0 A-PL-7008252-0-0 E-SC-1209396-1-0 E-SC-1209396-3-0 E-SC-1209396-5-0 E-SC-1209225-0-0																						
						13	BEZEL SWITCH SILK SCREEN BEZEL SWITCH SILK SCREEN BEZEL SWITCH SILK SCREEN	C-1A-7407134-5-0 A-SS-7407134-5-1 C-1A-7407134-3-0 A-SS-7407134-2-0 C-1A-7407134-4-0 A-SS-7407134-4-1																						

REV.	CHG.	NO.	DATE	BY	APP.
1	PC05-00013	1-18-73			
2	PC05-00026	2/13/73			
3	PC05-00027	2/13/73			
4	PC05-00027	2/13/73			
5	PC05-00027	2/13/73			
6	PC05-00027	2/13/73			

FIRST USED ON OPTION / MODEL
PC05

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ±.005 ± 1/64 ± 0°30' FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	DATE 2/24/69 DATE 2/24/69 DATE 2/24/69 DATE 2/24/69 DATE 2/24/69	DATE 2/24/69 DATE 2/24/69 DATE 2/24/69 DATE 2/24/69 DATE 2/24/69	DATE 2/24/69 DATE 2/24/69 DATE 2/24/69 DATE 2/24/69 DATE 2/24/69
MATERIAL + + +	NEXT HIGHER ASSY A-ML-PC05-0	SCALE + + +	SHEET 2 OF 2
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		DRAWING INDEX LIST PC05	
SIZE CODE DDI PC05-0-1		NUMBER Z	

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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.	NO.	DATE	BY
A	00001	7/1/69	R. BUTLER
B	00002	9/1/69	R. BUTLER
C	00003	11/1/69	R. BUTLER

DEC FORM NO. DRC 102

DRN	R. BUTLER	DATE	9/1/69
CHK'D		DATE	9/1/69
ENG.	R. BUTLER	DATE	11/1/69
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
2N3646	2N3009	IN964A -13V	SAME
D664	IN3606	DEC2904	2N1132

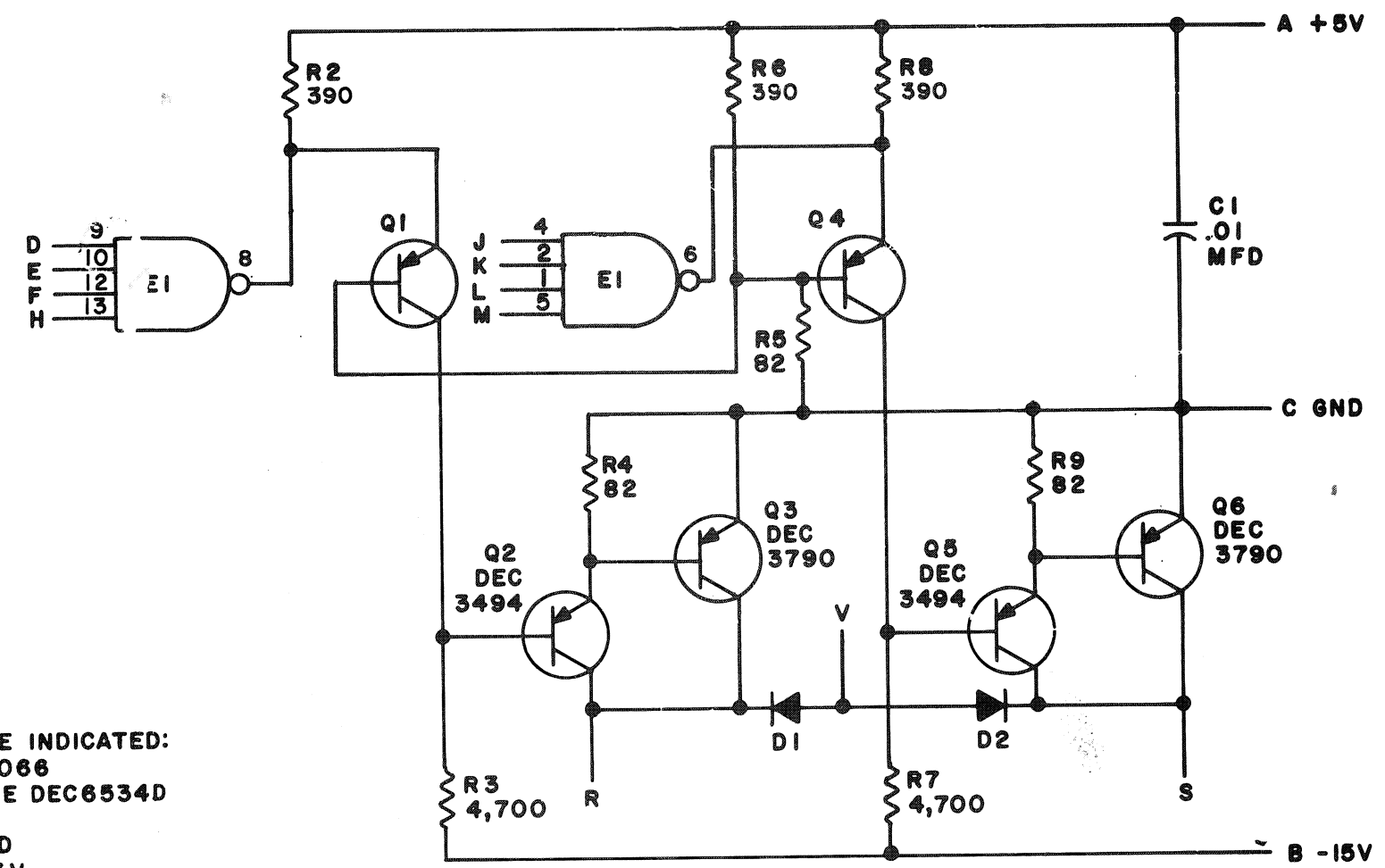
digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

REVISION NUMBER 00001 B

5 100 324 414 403 P. 118

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UNLESS OTHERWISE INDICATED:
 DIODES ARE MR2066
 TRANSISTORS ARE DEC6534D
 E1 IS DEC7420N
 PIN 7 ON IC = GND
 PIN 14 ON IC = +5V
 RESISTORS ARE 1/4 W, 10%

PARTS LIST A-PL-M040-0-0

REVISIONS	CHK	CHG NO	REV
		00001	E
		00002	

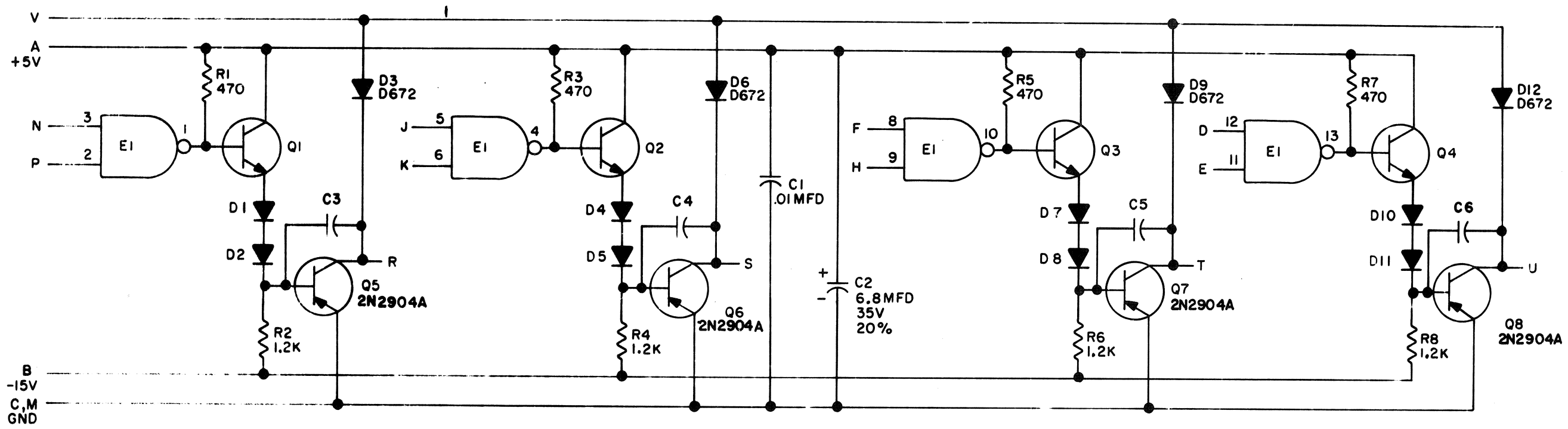
DRN <i>M. Keller</i>	DATE 9-14-67
CHK'D	DATE
ENG <i>K. Seagr</i>	DATE 9/14/67
PROD 4	DATE

TRANSISTOR & DIODE CONVERSION CHART	
DEC	EIA
DEC3494	SAME
DEC3790	2N3790
DEC6534D	MPS6534
D662	1N645
MR2066	1N4003

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

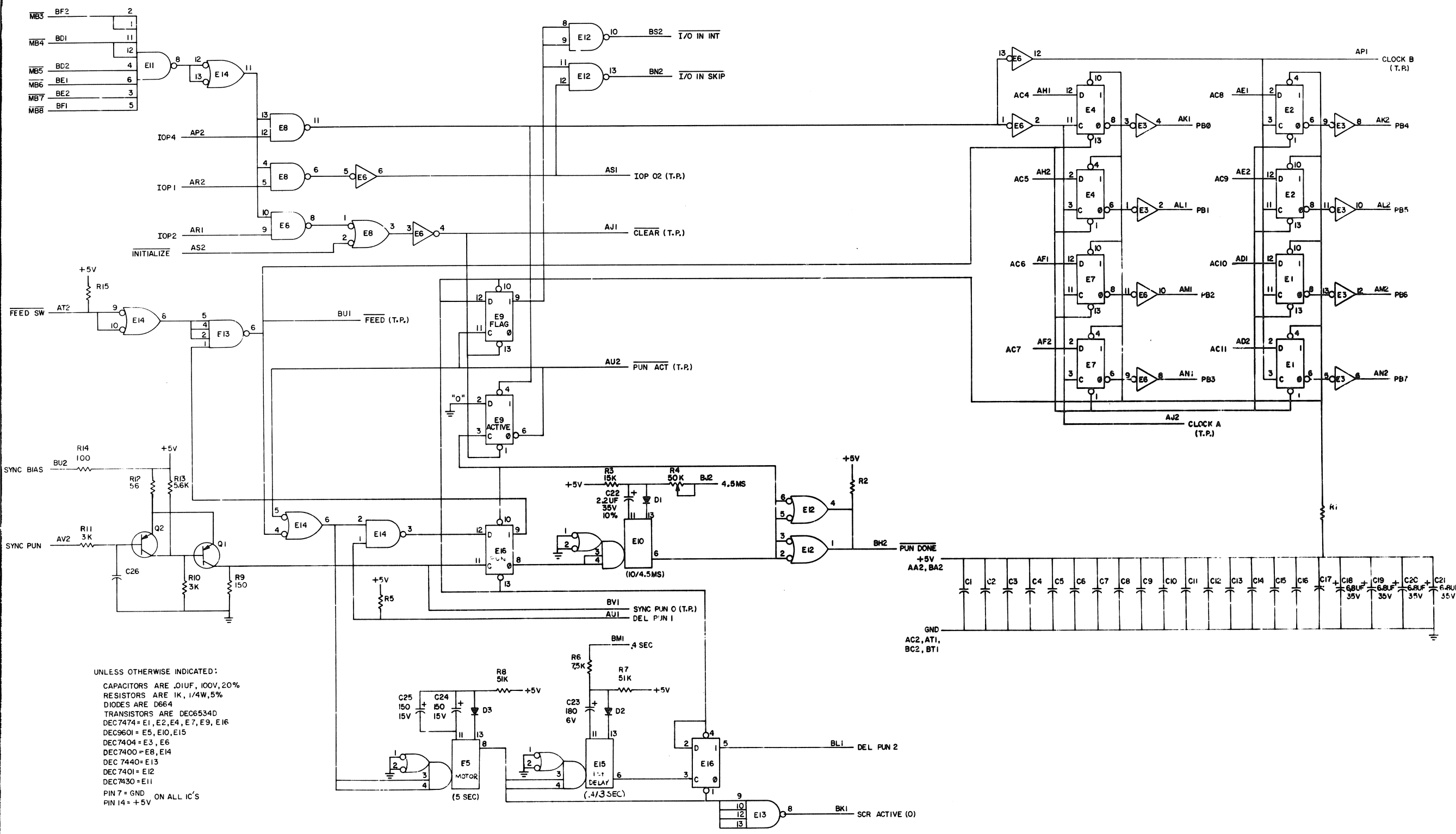
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UNLESS OTHERWISE INDICATED
 RESISTORS ARE 1/4W, 10%
 DIODES ARE D664
 E1 IS DEC7401N
 TRANSISTORS ARE DEC3009B
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 CAPACITORS ARE 100pf, 100V, 5%

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">REVISIONS</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">CHK</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">CHG NO</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">REV</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">B</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">C</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	REVISIONS	CHK	CHG NO	REV	B	C							<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DRN</td> <td>DATE</td> </tr> <tr> <td>CHK'D</td> <td>DATE</td> </tr> <tr> <td>ENG</td> <td>DATE</td> </tr> <tr> <td>PROD</td> <td>DATE</td> </tr> </table>	DRN	DATE	CHK'D	DATE	ENG	DATE	PROD	DATE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4">TRANSISTOR & DIODE CONVERSION CHART</th> </tr> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>D664</td> <td>1N3606</td> <td></td> <td></td> </tr> <tr> <td>2N2904A</td> <td>2N2904</td> <td></td> <td></td> </tr> <tr> <td>DEC3009B</td> <td>2N3009</td> <td></td> <td></td> </tr> </table>	TRANSISTOR & DIODE CONVERSION CHART				DEC	EIA	DEC	EIA	D664	1N3606			2N2904A	2N2904			DEC3009B	2N3009			<p>digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4">TITLE 4-100MA SOLENOID DRIVER MO44</td> </tr> <tr> <td>SIZE B</td> <td>CODE CS</td> <td>NUMBER MO44-0-1</td> <td>REV C</td> </tr> <tr> <td colspan="2">PRINTED CIRCUIT REV</td> <td>B</td> <td></td> </tr> </table>	TITLE 4-100MA SOLENOID DRIVER MO44				SIZE B	CODE CS	NUMBER MO44-0-1	REV C	PRINTED CIRCUIT REV		B	
REVISIONS	CHK	CHG NO	REV	B	C																																																			
DRN	DATE																																																							
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THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1970 BY DIGITAL EQUIPMENT CORPORATION.



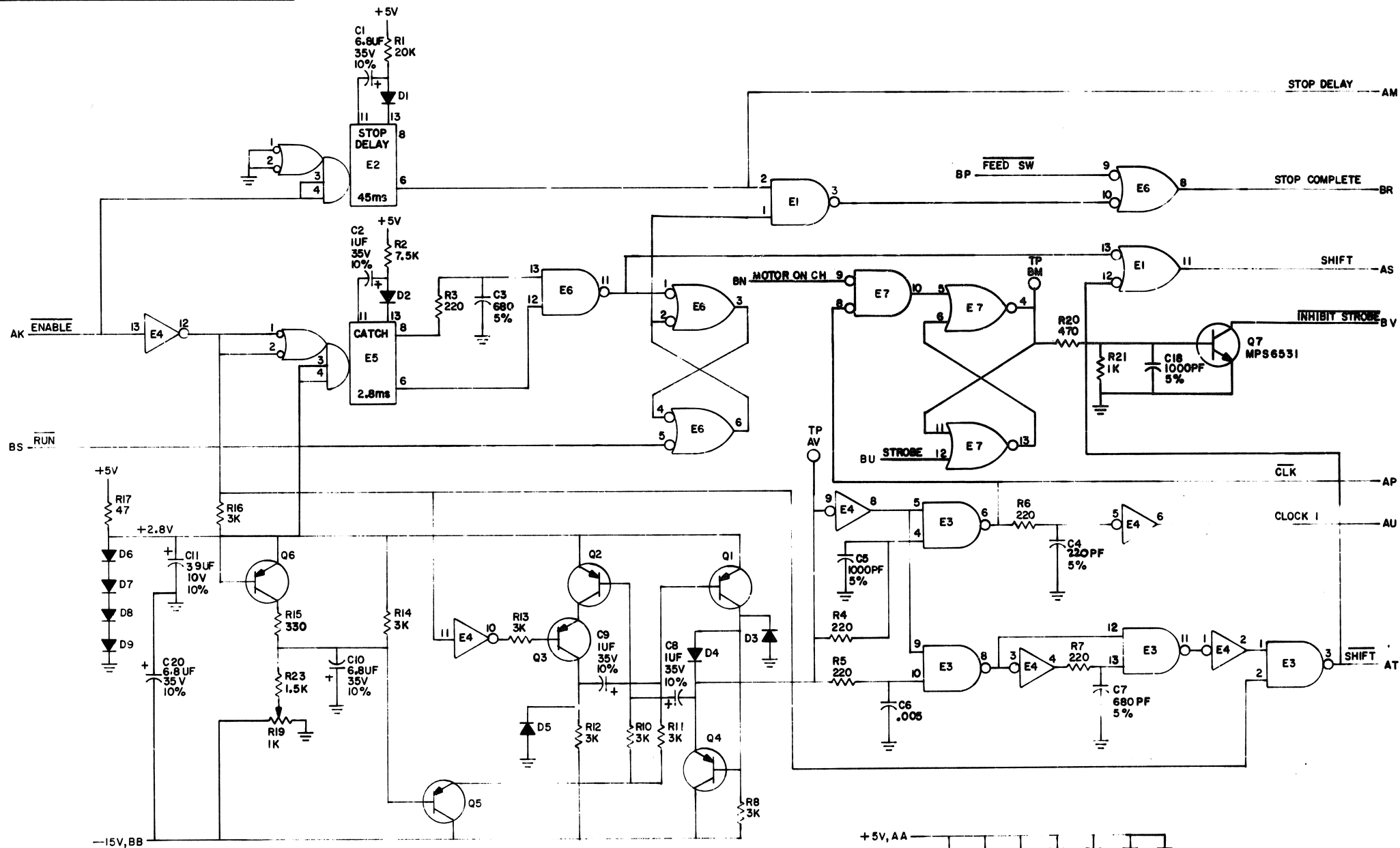
UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01UF, 100V, 20%
 RESISTORS ARE 1K, 1/4W, 5%
 DIODES ARE D664
 TRANSISTORS ARE DEC6534D
 DEC7474 = E1, E2, E4, E7, E9, E16
 DEC9601 = E5, E10, E15
 DEC7404 = E3, E6
 DEC7400 = E8, E14
 DEC7440 = E13
 DEC7401 = E12
 DEC7430 = E11
 PIN 7 = GND ON ALL IC'S
 PIN 14 = +5V

REV	DATE	BY	CHKD
1	1-14-71	W	K
2	00005	H	J
3	00006	J	
4	00007	K	

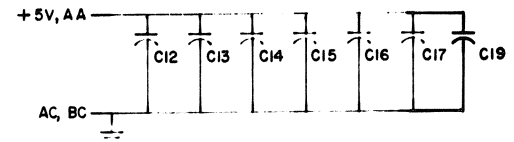
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		
DEC6534D	NONE		

TITLE		PUNCH CONTROL M710	
SIZE	D	NUMBER	M710-0-1
CODE	CS	REV	K
EQUIPMENT CORPORATION		PRINTED CIRCUIT REV	

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UNLESS OTHERWISE INDICATED:
 TRANSISTORS = DEC6534D
 DIODES = D664
 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
 E7 = DEC7402



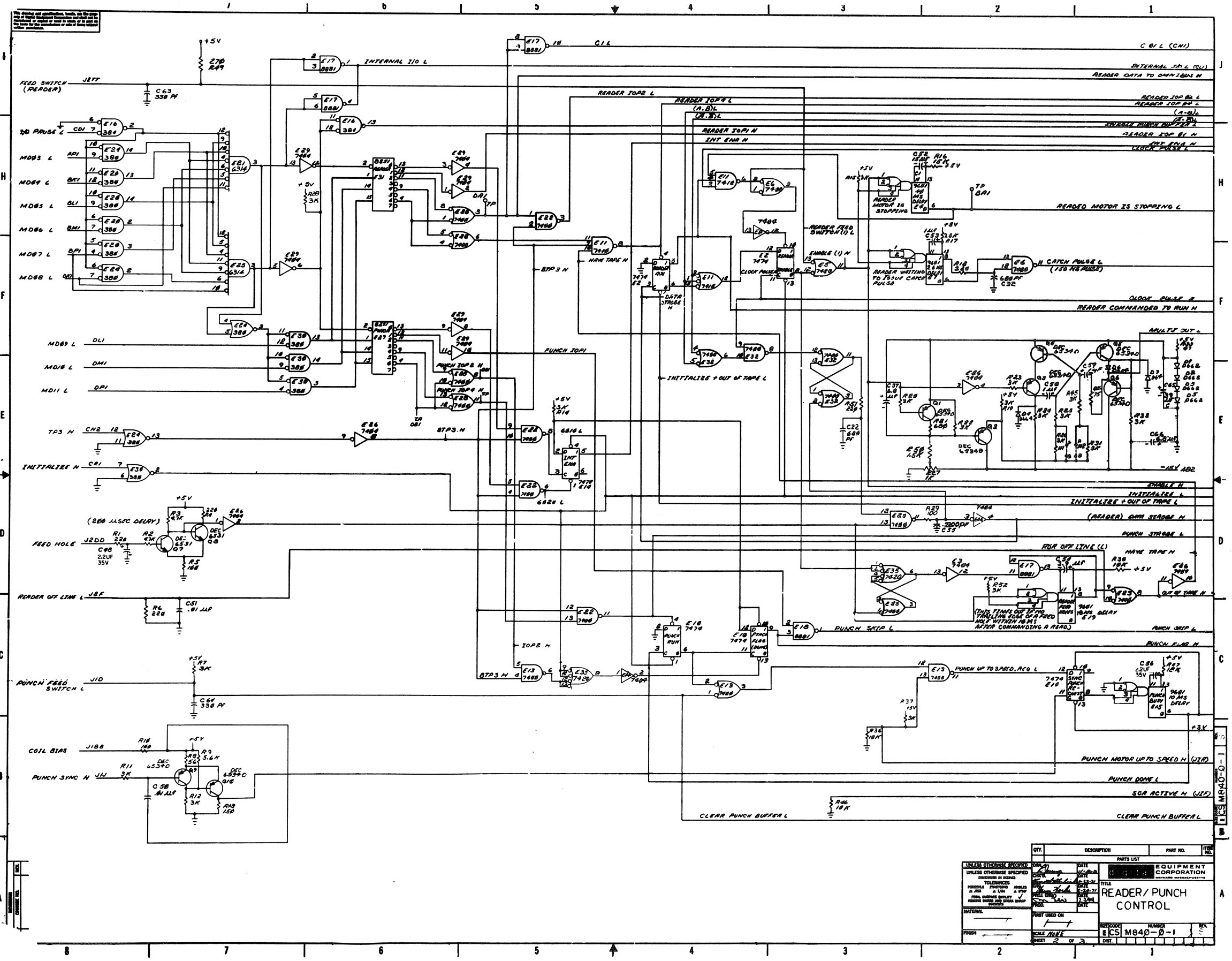
REV L
 NUMBER M715-C-1
 SIZE CODE C CS

REV	CHG	NO	REV
AV	00002	E	
REV	00006	K	
REV	00008	L	

CHK'D	DATE	CHK'D	DATE
R. SILVERMAN	11/2/67	R. SILVERMAN	11/2/67
R. G. SOGGE	11/2/67	R. G. SOGGE	11/2/67

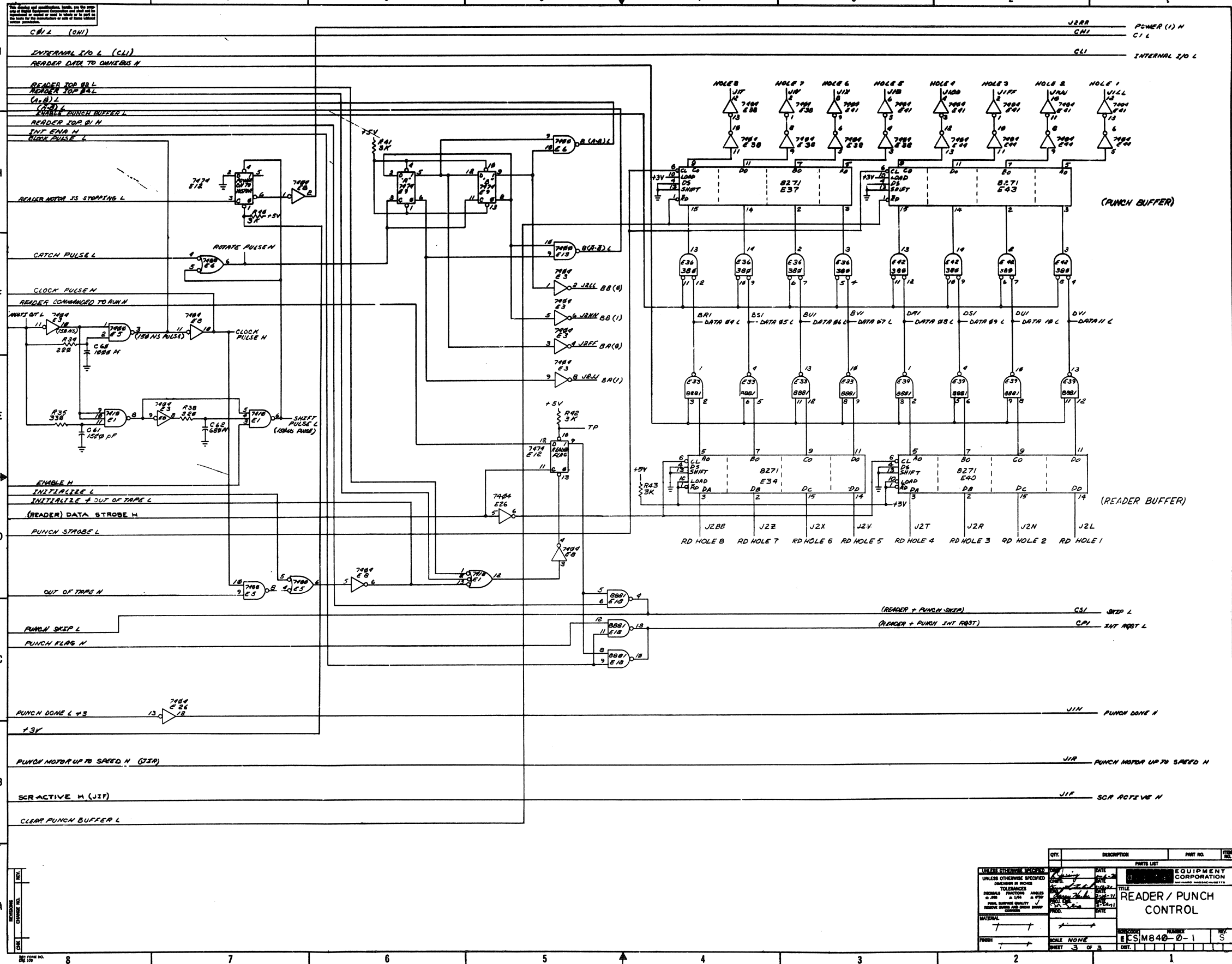
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC6534D	MPS6534	IN758	SAME
D664	IN3606		
DEC6531	MPS6531		

digital EQUIPMENT CORPORATION
 TITLE: READER CLOCK M715
 NUMBER: M715-0-1
 REV: L
 PRINTED CIRCUIT REV: F



QTY.	DESCRIPTION	PART NO.	REV.
1	7474	7474	
1	7470	7470	
1	7475	7475	
1	7400	7400	
1	7401	7401	
1	7402	7402	
1	7403	7403	
1	7404	7404	
1	7405	7405	
1	7406	7406	
1	7407	7407	
1	7408	7408	
1	7409	7409	
1	7410	7410	
1	7411	7411	
1	7412	7412	
1	7413	7413	
1	7414	7414	
1	7415	7415	
1	7416	7416	
1	7417	7417	
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1	7470	7470	
1	7471	7471	
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1	7473	7473	
1	7474	7474	
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1	7476	7476	
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1	7479	7479	
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1	7488	7488	
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1	7494	7494	
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1	7497	7497	
1	7498	7498	
1	7499	7499	
1	7500	7500	

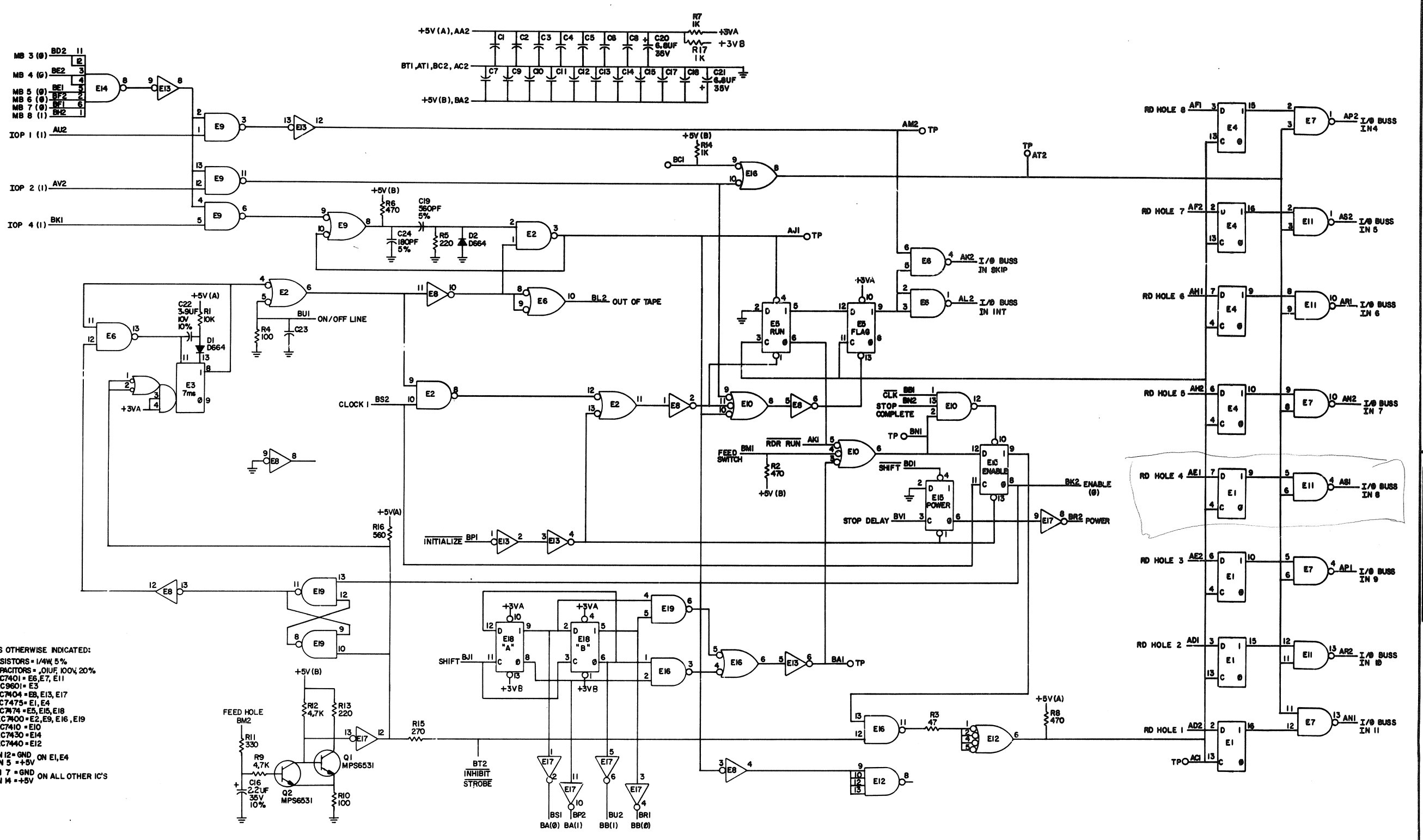
UNLESS OTHERWISE SPECIFIED
 EQUIPMENT CORPORATION
 TITLE
 READER/PUNCH CONTROL
 NUMBER
 ECSI M840-D-1
 REV.
 DATE



QTY	DESCRIPTION	PART NO.	REV.
	PARTS LIST		
	EQUIPMENT CORPORATION		
	READER/PUNCH CONTROL		
	ECSM840-0-1		
	SHEET 3 OF 3		

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0 1-0-0904W 10 8



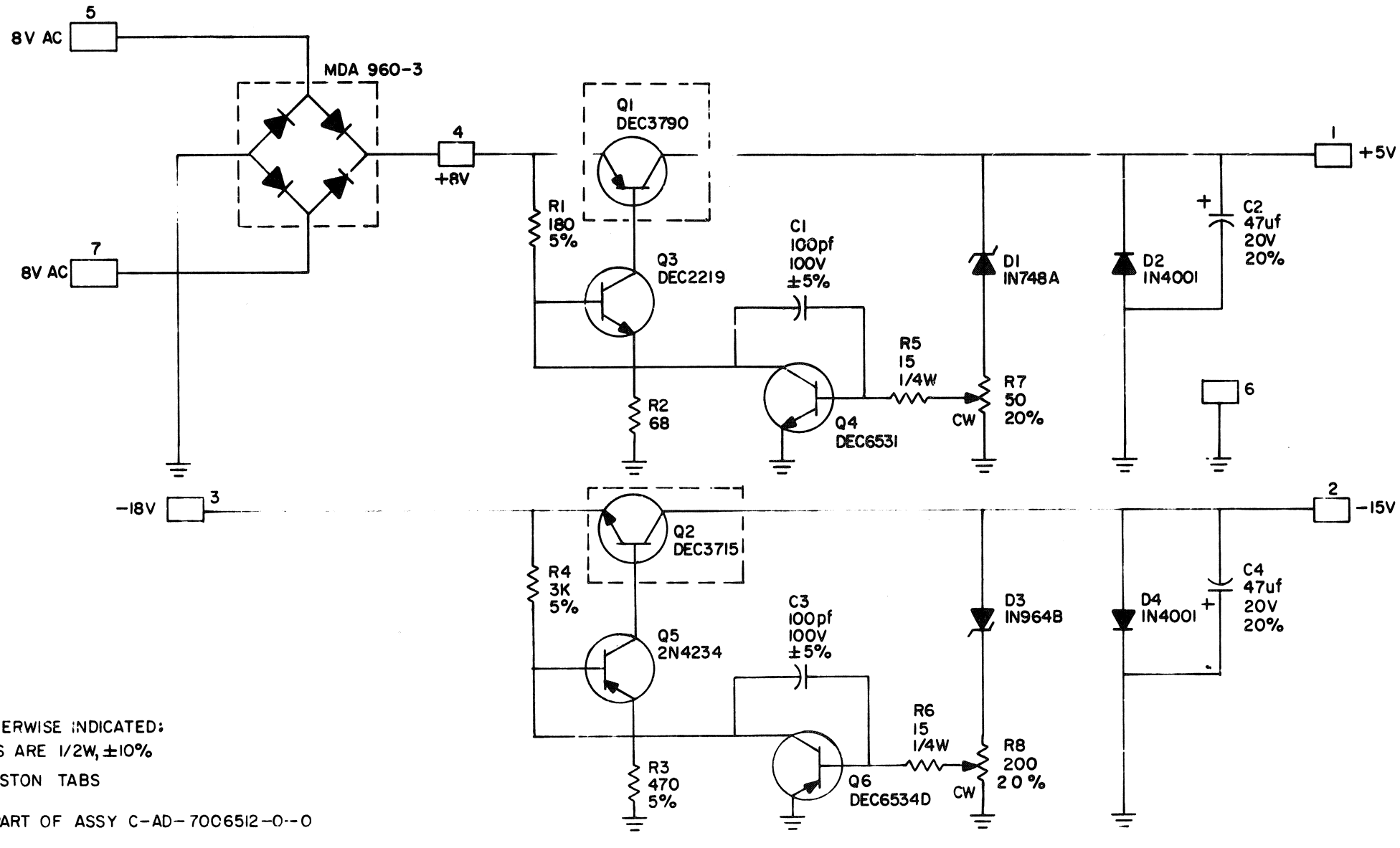
UNLESS OTHERWISE INDICATED:
 RESISTORS - 1/4W 5%
 CAPACITORS - 0.1UF 100V 20%
 DEC7401 = E5, E7, E11
 DEC9601 = E3
 DEC7404 = E3, E13, E17
 DEC7475 = E1, E4
 DEC7474 = E5, E15, E18
 DEC7400 = E2, E9, E16, E19
 DEC7410 = E10
 DEC7450 = E14
 DEC7440 = E12
 PIN 12 = GND ON E1, E4
 PIN 5 = +5V
 PIN 7 = GND ON ALL OTHER IC'S
 PIN 14 = +5V

REV	DATE	BY	CHKD
1	10/10/77	WJ	WJ
2	11/17/77	WJ	WJ
3	12/15/77	WJ	WJ
4	1/11/78	WJ	WJ
5	2/1/78	WJ	WJ
6	2/1/78	WJ	WJ
7	2/1/78	WJ	WJ
8	2/1/78	WJ	WJ
9	2/1/78	WJ	WJ
10	2/1/78	WJ	WJ

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
7400	100	7401	101
7402	102	7403	103
7404	104	7405	105
7406	106	7407	107
7408	108	7409	109
7410	110	7411	111
7412	112	7413	113
7414	114	7415	115
7416	116	7417	117
7418	118	7419	119
7420	120	7421	121
7422	122	7423	123
7424	124	7425	125
7426	126	7427	127
7428	128	7429	129
7430	130	7431	131
7432	132	7433	133
7434	134	7435	135
7436	136	7437	137
7438	138	7439	139
7440	140	7441	141
7442	142	7443	143
7444	144	7445	145
7446	146	7447	147
7448	148	7449	149
7450	150	7451	151
7452	152	7453	153
7454	154	7455	155
7456	156	7457	157
7458	158	7459	159
7460	160	7461	161
7462	162	7463	163
7464	164	7465	165
7466	166	7467	167
7468	168	7469	169
7470	170	7471	171
7472	172	7473	173
7474	174	7475	175
7476	176	7477	177
7478	178	7479	179
7480	180	7481	181
7482	182	7483	183
7484	184	7485	185
7486	186	7487	187
7488	188	7489	189
7490	190	7491	191
7492	192	7493	193
7494	194	7495	195
7496	196	7497	197
7498	198	7499	199
7500	200		

EQUIPMENT CORPORATION		READER CONTROL	
SIZE D	CASE CS	NUMBER M7080-0-1	REV E
PRINTED CIRCUIT REV		D/E	

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

□ = FASTON TABS

▭ = PART OF ASSY C-AD-7006512-0-0

REVISIONS	CHK	CHG NO	REV

DRN	DATE
NANLY MOORE	7/8/70
CHK'D	DATE
ENG	DATE
PROD	DATE

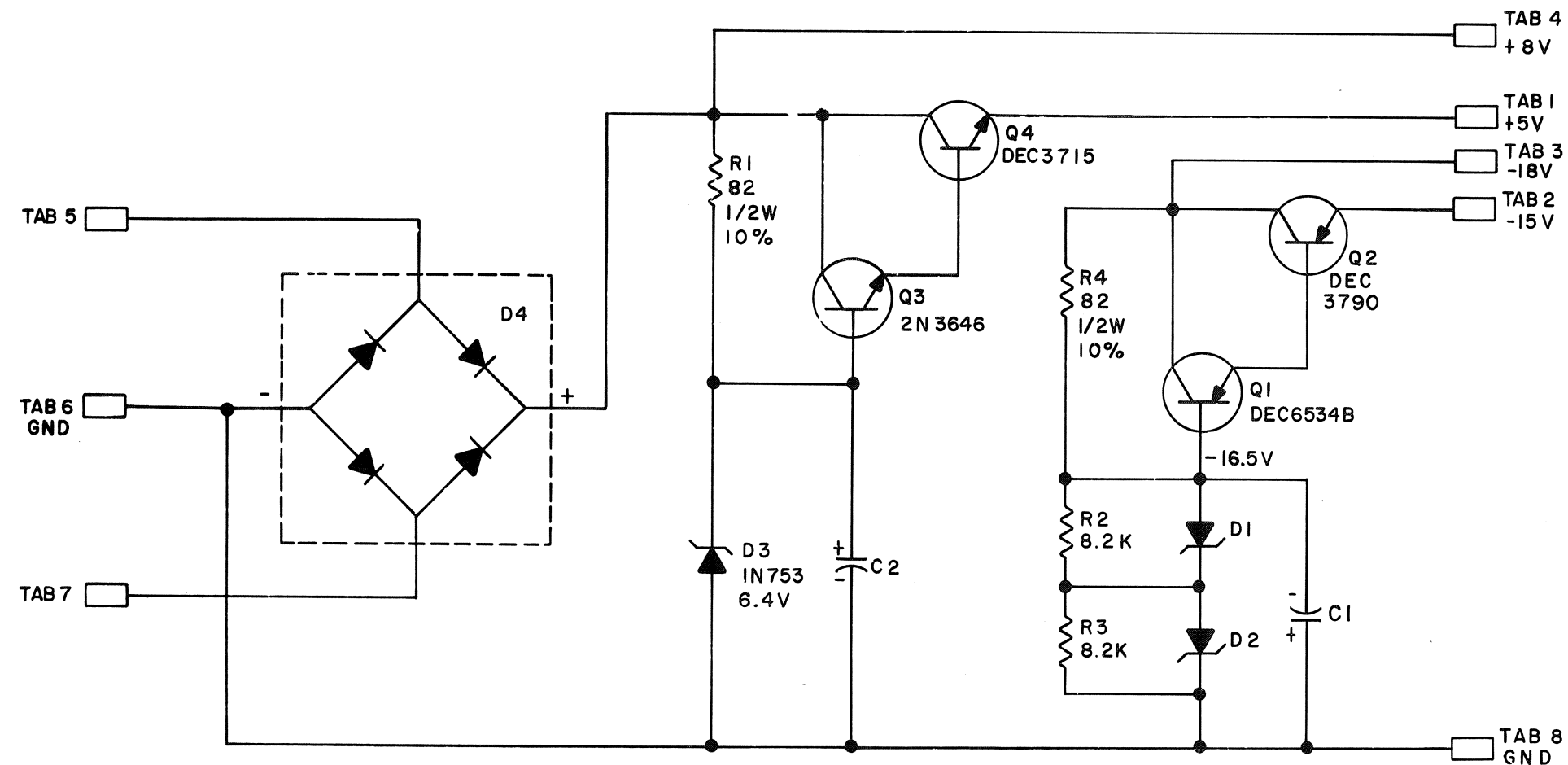
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	FIA
DEC3790-2	2N3790	DEC653I	MPS653I
DEC2219	2N2219	IN748A	SAME
DEC3715	2N3715	IN964B	SAME
2N4234	2N4234	IN400I	SAME
DEC6534D	MP96534		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

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

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

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UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE 6.8 MFD 35V 20%
 DIODES ARE IN756A, 8.2V
 D4 IS MDA960-3
 RESISTORS ARE 1/4 W 5%
 TABS ARE AMP 41290

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

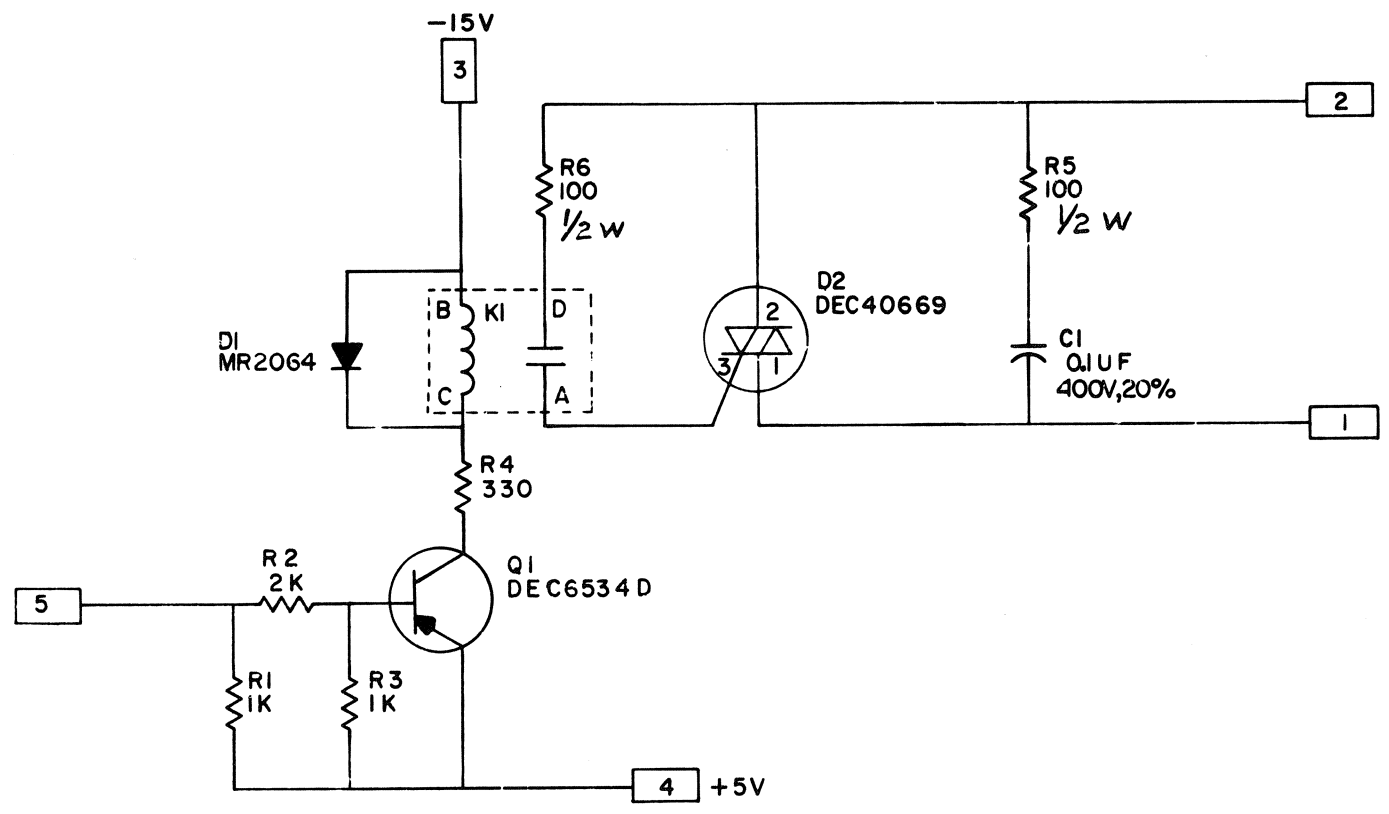
DRN <i>R. F. ...</i>	DATE 3-31-69
CHK'D <i>M. ...</i>	DATE 4-17-69
ENG <i>...</i>	DATE 2-14-69
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
IN753	SAME	2N3646	2N3009
IN756A	SAME		
DEC3790	2N3790		
DEC6534B	MPS6534		
DEC3715	NONE		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

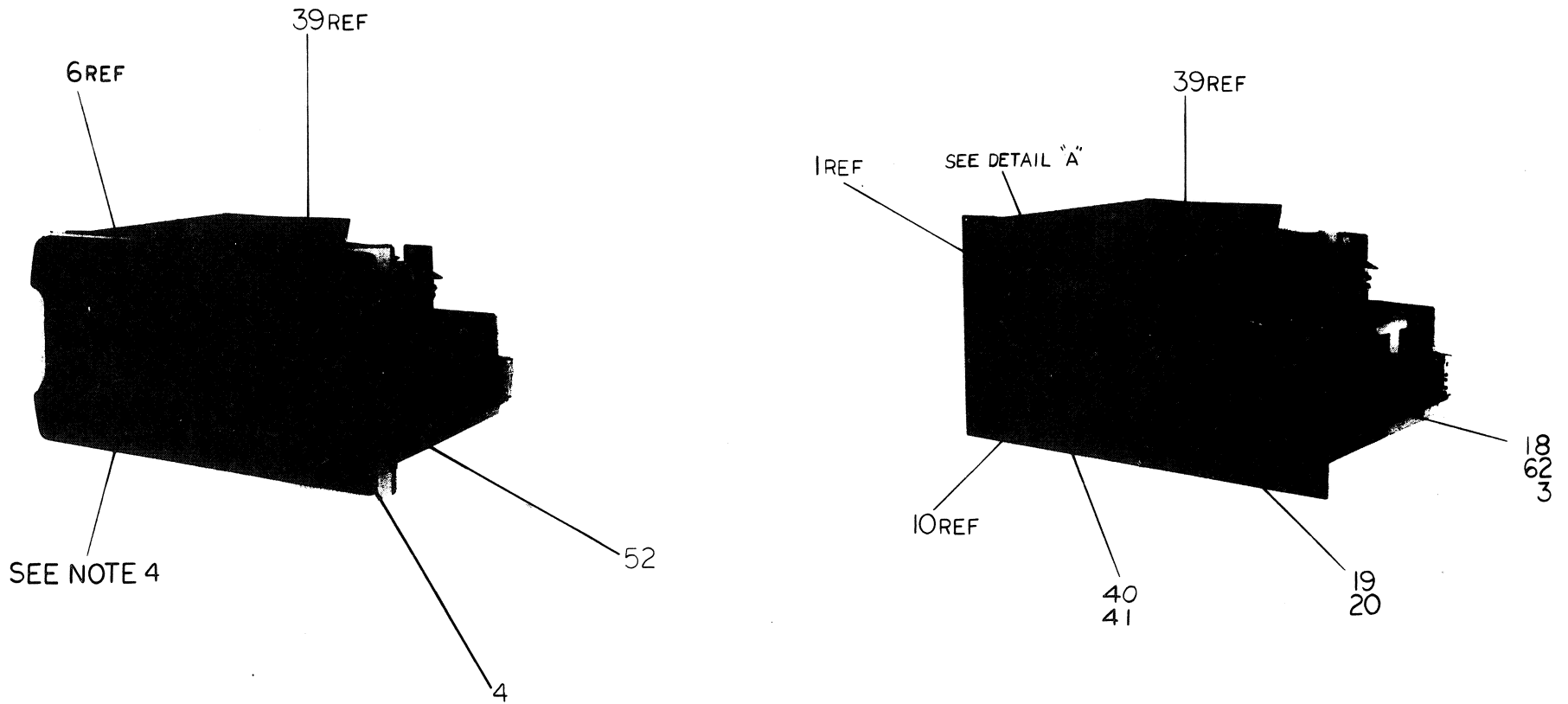
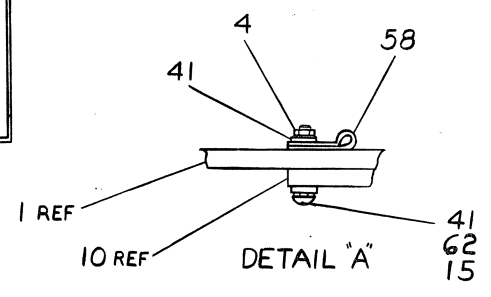
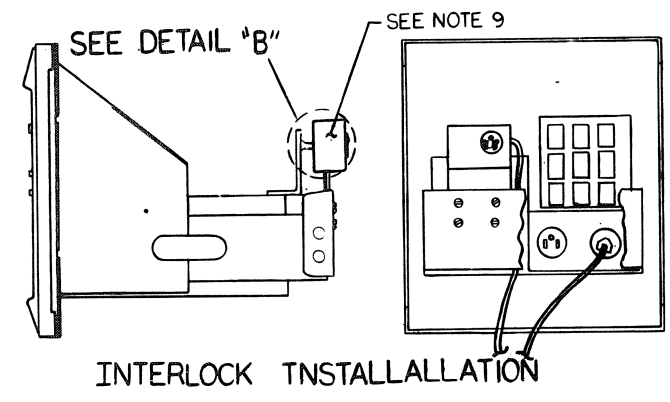
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UNLESS OTHERWISE INDICATED:
 RELAY IS DEC40034
 TABS ARE AMP. # 41290
 RESISTORS ARE 1/4 W, 5%

REVISIONS	CHK	CHG NO	REV	DRN	M. HALLER	DATE	6-20-69	TRANSISTOR & DIODE CONVERSION CHART			TITLE TRIAC SW ASSY (PC05)						
	REV & REDR	00001	B		CHK'D	T.A. NALETTE	DATE	6-24-69	DEC			EIA	DEC	FIA			
	ENG	G. BECKNER	DATE		11-19-69	DEC6534D	MPS6534	EQUIPMENT CORPORATION				SIZE	CODE	NUMBER	REV		
	PROD		DATE					MAYNARD, MASSACHUSETTS				B	CS	5408384-0-1	B		
PRINTED CIRCUIT REV												B					

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LEGEND		
MODEL	CY	VARIATION COMPOSITION
PC05-C	60	READER PUNCH & DRIVER
PC05-CA	50	READER PUNCH & DRIVER
PC05-P	60	PUNCH
PC05-PA	50	PUNCH
PC05-R		READER

- NOTES:
1. WIRING OF SWITCHES VARIES DEPENDING ON UNIT MODEL BEING BUILT, FOR SWITCH CONFIGURATION, FOR WIRING PURPOSES SEE DETAIL "A" FOR MODEL "C" AND "CA", DETAIL "B" FOR MODEL "P" AND "PA", AND DETAIL "C" FOR MODEL "R"; 50 CY HAS NO EFFECT.
 2. IF THE TRIAC DRIVER UNIT IS USED, THIS WIRE WILL CONNECT TO TRIAC DRIVER TERMINAL T1. IF THE UNIT IS NOT USED, THIS WIRE WILL CONNECT TO TS-6 AND END. FOR CORRECT WIRING WHEN THE UNIT IS USED, SEE TRIAC DRIVER WIRE LIST. (SHEET 3).
 3. PLACE CABLE IN POSITION IN TALL CLAMP OVER CABLE.
 4. COVER ASSY TO BE ATTACHED TO CHASSIS ASSY AFTER ALL OTHER INSTALLATIONS ARE COMPLETE. TO DO SO, READER KNOB MUST BE REMOVED, COVER INSTALLED, THEN KNOB REPLACED ON READER SHAFT.
 5. ON MODELS "P" AND "PA" THIS WIRE WILL BE TIED BACK AND WHITE SHRINKABLE TUBING (ITEM 43) ADDED AS REQD.
 6. FOR REFERENCE SEE DRAWING INDEX D-DI-PC05-0-1
 7. ON MODELS PC05-C, CA, P, PA THESE WIRES WILL BE BUSSED TOGETHER AT COMMON TERMINAL ON SWITCH PANEL. ON "R" MODEL THESE WIRES WILL BE CONNECTED AS USUAL TO THEIR APPROPRIATE TERMINALS.
 8. MODULE HOLD DOWN BAR TO BE INSTALLED BEFORE SHIPPING MACHINE.
 9. ATTACH POWER INTERLOCK TO REAR OF STATIONARY SECTION OF CHASSIS TRACKS. INSERT CORD FROM POWER INTERLOCK INTO JACK (H1) IN THE REAR OF THE PC05. SYSTEM POWER SHALL BE SUPPLIED TO POWER INTERLOCK.

REV.	CHANGED BY	DATE	DESCRIPTION
1	G. BECKNER	10-1-69	REVISED
2	G. BECKNER	10-1-69	REVISED
3	G. BECKNER	10-1-69	REVISED
4	G. BECKNER	10-1-69	REVISED
5	G. BECKNER	10-1-69	REVISED
6	G. BECKNER	10-1-69	REVISED
7	G. BECKNER	10-1-69	REVISED
8	G. BECKNER	10-1-69	REVISED
9	G. BECKNER	10-1-69	REVISED
10	G. BECKNER	10-1-69	REVISED
11	G. BECKNER	10-1-69	REVISED
12	G. BECKNER	10-1-69	REVISED
13	G. BECKNER	10-1-69	REVISED
14	G. BECKNER	10-1-69	REVISED
15	G. BECKNER	10-1-69	REVISED
16	G. BECKNER	10-1-69	REVISED
17	G. BECKNER	10-1-69	REVISED
18	G. BECKNER	10-1-69	REVISED
19	G. BECKNER	10-1-69	REVISED
20	G. BECKNER	10-1-69	REVISED
21	G. BECKNER	10-1-69	REVISED
22	G. BECKNER	10-1-69	REVISED
23	G. BECKNER	10-1-69	REVISED
24	G. BECKNER	10-1-69	REVISED
25	G. BECKNER	10-1-69	REVISED
26	G. BECKNER	10-1-69	REVISED
27	G. BECKNER	10-1-69	REVISED
28	G. BECKNER	10-1-69	REVISED
29	G. BECKNER	10-1-69	REVISED
30	G. BECKNER	10-1-69	REVISED
31	G. BECKNER	10-1-69	REVISED
32	G. BECKNER	10-1-69	REVISED
33	G. BECKNER	10-1-69	REVISED
34	G. BECKNER	10-1-69	REVISED
35	G. BECKNER	10-1-69	REVISED
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45	G. BECKNER	10-1-69	REVISED
46	G. BECKNER	10-1-69	REVISED
47	G. BECKNER	10-1-69	REVISED
48	G. BECKNER	10-1-69	REVISED
49	G. BECKNER	10-1-69	REVISED
50	G. BECKNER	10-1-69	REVISED

QTY.	DESCRIPTION	PART NO.	ITEM NO.
	PC05		
	UNLESS OTHERWISE SPECIFIED		
	UNLESS OTHERWISE SPECIFIED		
	TOLERANCES		
	DECIMALS FRACTIONS ANGLES		
	± .005 ± 1/64 ± 0°30'		
	FINAL SURFACE QUALITY		
	REMOVE BURRS AND BREAK SHARP		
	CC NERS		
	MATERIAL		
	FINISH		
	SCALE		
	SHEET		

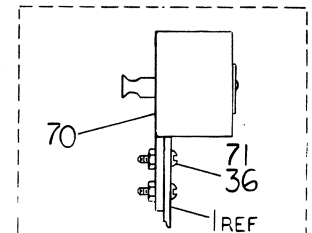
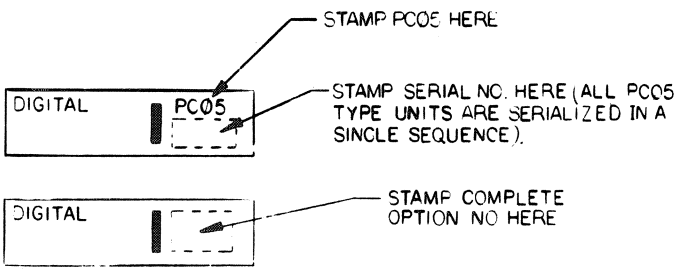
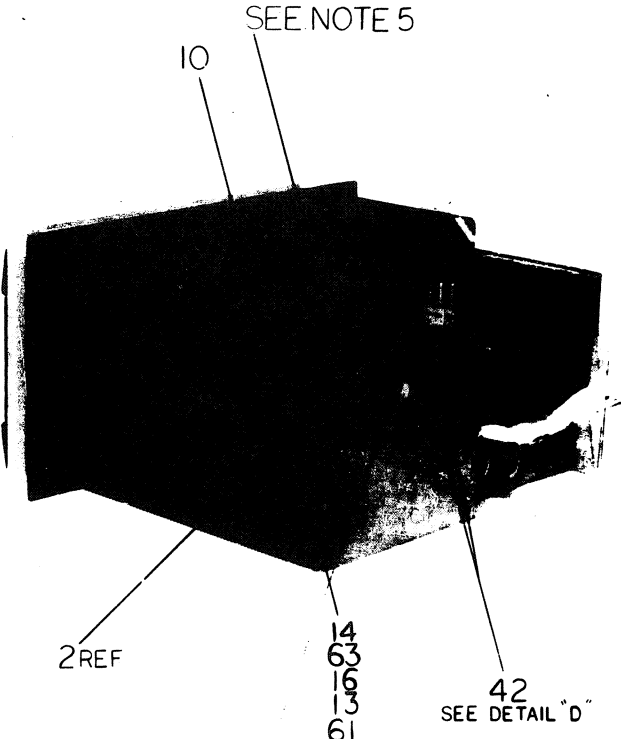
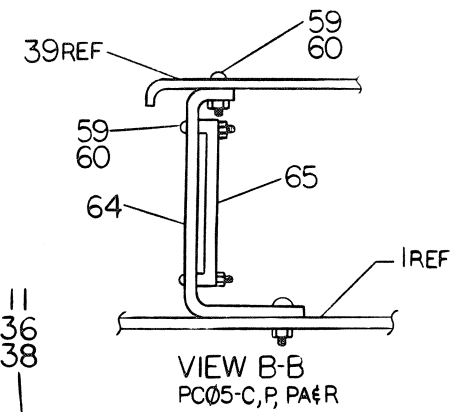
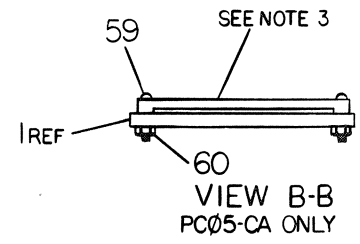
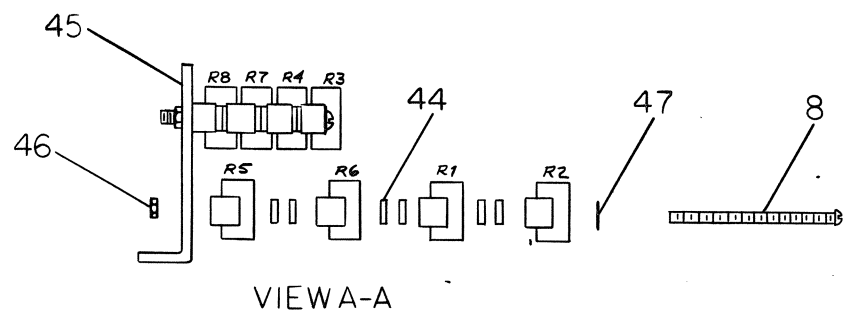
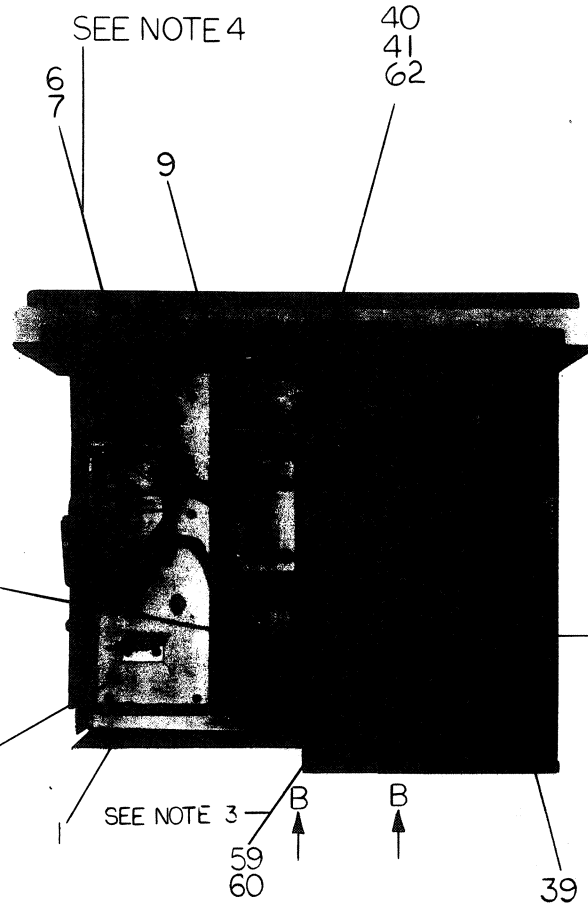
REV. V
NUMBER
PC05-0-0
SHEET NO. 1 OF 3

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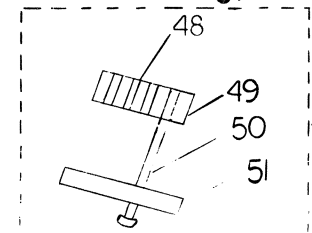
PC05-0-0
REV. 2
12/67

D
C
B
A

D
C
B
A



DETAIL "B"
SCALE: NONE



SEE NOTE 8

REV.	
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO.
PC05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED		DRN	DATE	digital CORPORATION MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE SPECIFIED		CHK'D	DATE	
UNLESS OTHERWISE SPECIFIED		ENG	DATE	
UNLESS OTHERWISE SPECIFIED		PROD	DATE	
DIMENSION IN INCHES		TOLERANCES		TITLE
DECIMALS	FRACTIONS	ANGLES		PC05
± .005	± 1/64	± 0.30		READER AND PUNCH
FINAL SURFACE QUALITY		REMOVE BURRS AND BREAK SHARP CORNERS		SIZE/ CODE
				DUA
MATERIAL		NEXT HIGHER ASSY		NUMBER
+ - - - +		A-MI-PC05-0		REV.
FINISH		SCALE - NCNE		V
+ - - - +		SHEET 2 OF 3		DIST.

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TRIAC DRIVER WIRE LIST

JUMPER CONNECTIONS			
WIRE	COLOR	CONNECTION	REMARKS
HARN WIRE #9	RED	T1	SEE NOTE 2
PUNCH MOTOR LEAD	BLK/YEL	T2	
T3	WHT/BLU	A11B2	
T4	RED	A11A2	
T5	GRN	A12N2	

PUNCH WIRE LIST

HARNESS CONNECTIONS			
COLOR	WIRE NO.	LOCATION	REMARKS
BLK	5	PNCH SW1 TAB 5	SEE NOTE 1 SHEET 1
WHT	6	PNCH SW1 TAB 6	
RED	7	SWITCH PANEL TAB 7	SEE NOTE 7 SHEET 1
RED	8	SWITCH PANEL TAB 8	
RED	9	TS-6	SEE NOTE 2 SHEET 1
GY/RED	8	DO NOT CONNECT	SEE NOTE 5
BLK	15	B12C2 (GND)	
WHT	16	A05T2	

READER WIRE LIST

HARNESS CONNECTIONS			
COLOR	WIRE NO.	LOCATION	REMARKS
YEL	1	RDR SW2 TAB 1	SEE NOTE 1 SHEET 1
WHT/BLK	2	RDR SW2 TAB 2	
WHT/YEL	3	RDR SW1 TAB 3	
BRN	4	RDR SW1 TAB 4	
YEL	11	B04M1	
WHT/BLK	12	B11A2(+5)	
WHT/YEL	13	A11T1	
BRN	14	B04U1	
GY/RED	8	R9 TAB	LAMP RESISTOR

HARNESS CONNECTIONS

COLOR	WIRE NO.	LOCATION	REMARKS
BLK	27	GND LUG	LOGIC GND
GY/YEL	29	A12B2	
GRN	31	A08V2	
BLK	28	GND LUG	LOGIC GND
GY/RED	30	A12A2	
GRN	32	A10V2	
BLK *18	38	CI(-)	
	39	LAMP *B	

JUMPER CONNECTIONS

WIRE	CONNECTIONS			
ITEM NO.	COLOR	TYPE ITEM	FROM	TO
25	WHT	26	SEE BELOW	TS-7

JUMPER CONNECTIONS

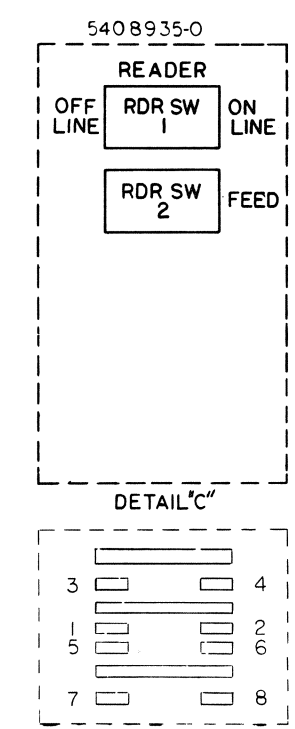
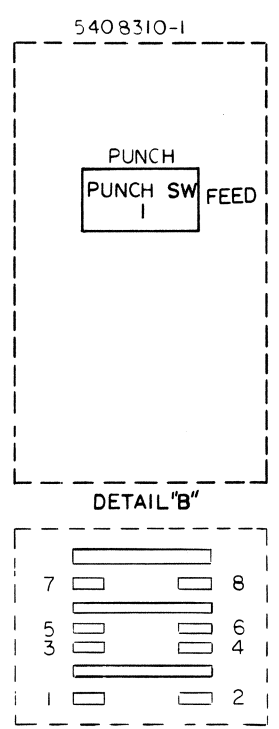
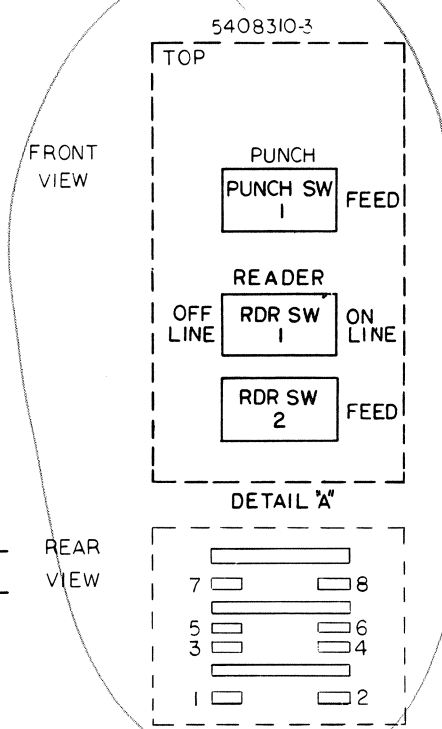
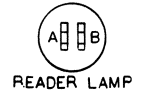
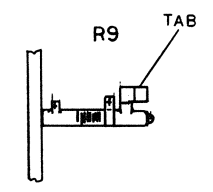
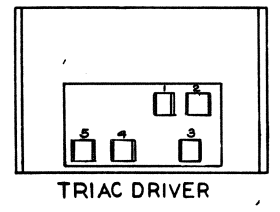
WIRE	CONNECTIONS			
ITEM NO.	COLOR	TYPE ITEM	FROM *	TO
27	WHT/VIO	NONE	R1 & R2	TS-1
28	WHT/YEL		R3 & R4	TS-2
29	WHT/ORN		R5 & R6	TS-3
30	WHT/BRN		R7 & R8	TS-4
31	VIO		R1	B00R2
31	VIO		R2	B06S2
32	YEL		R3	B07R2
32	YEL		R4	B07S2
33	ORN		R5	A10R2
33	ORN		R6	A10S2
34	BRN		R7	A09R2
34	BRN	NONE	R8	A09S2

* THIS END CONNECTS TO CAPACITOR ON PUNCH CHASSIS, ON TERMINAL WITH BLUE WIRE ATTACHED

* FOR RESISTOR CONFIGURATION SEE VIEW A-A SHEET 2

READER MOTOR CONNECTIONS

COLOR	FROM	TO	REMARKS
WHT/RED	RDR MOTOR	TS-1	
RED		TS-2	
WHT/GRN		TS-3	
GRN		TS-4	
WHT & BLK	RDR MOTOR	TS-5	



EXTERNAL COMPONENT TABLE

ITEM	COMP	POL	FROM	TO	POL	REMARKS
66	CAP	+	A03A2	A01C2	-	
66	CAP	+	B01C2	B03B2	-	
67	CAP	+	A05J1	A05C2	-	
68	RES		B09H1	B09A2		
68	RES		B10D1	B10A2		
69	RES		A11T1	A11A2		

FIRST USED ON OPTION/MODEL PC05	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				
TITLE PC05 READER AND PUNCH		DATE 6/1/67		
DATE 2/1/69		DATE 7/1/67		
DATE 1/1/67		DATE 1/1/67		
DATE 1/1/67		DATE 1/1/67		
MATERIAL NEXT HIGHER ASSY A ML-PC05 0				
FINISH NONE		SCALE NONE		
SHEET 3 OF 3		DIST.		

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION				
PARTS LIST			PC05-C	PC05-CA	PC05-P	PC05-PA	PC05-R
MADE BY P. MARCOTTE	CHECKED <i>R. Carwell</i>	SECTION 1					
DATE 6/19/69	DATE 6/24/69	ISSUED SECT. 1					
ENG <i>J. Beckner</i>	PROD <i>J. Beckner</i>						
DATE 7/1/69	DATE 7/2/69						
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	PC05-C	PC05-CA	PC05-P	PC05-PA	PC05-R
1	D-AD-7006246-0-0	CHASSIS AND POWER SUPPLY ASSY	1	1	1	1	1
2	D-AD-7006248-1-0	PUNCH ASSY (60 CY)	1	1			
3	D-AD-7006248-2-0	PUNCH ASSY (50 CY)		1	1		
4	9006021-1	SCR, PHL PAN HD 6-32 x 5/16 LG SST	5	5	5	5	3
5	9006560	NUT, KEPS 6-32	5	5	4	4	3
5	9006070-1	SCR, PHL PAN HD 10-32 x 5/16 LG SST	2	2	2	2	2
6	D-AD-7006252-5-0	COVER ASSY (PUNCH)			1	1	
6	D-AD-7006252-3-0	COVER ASSY (READER)					1
6	D-AD-7006252-4-0	COVER ASSY (COMB)	1	1			
7	9006042-2	SCR, PHL PH 8-32 x 1 LG SST	4	4	4	4	4
8	9006083-1	SCR, PHL PAN HD 10-32 x 2-1/2 LG SST	4	4			4
9	C-MD-7405300-0-0	CHAD BOX	1	1	1	1	
10	D-UA-7006247-0-0	READER ASSY	1	1			1
11	C-AD-7006253-0-0	BUS BAR PC05	1	1	1	1	1
12	9006022-1	SCR, PHL PAN HD 6-32 x 3/8 LG SST	3	3	3	3	3
13	9006633	WASHER, INT TOOTH #6	2	2			
14	C-AD-7006520-0-0	TRIAC DRIVER ASSY	1	1	1	1	
15	9006026-1	SCR, PHL PAN HD 6/32 x 3/4 LG SST	1	1			
16	9006801	SPACER 1/2 AF x 3/8 LG #6 HOLE	2	2			
17	D-UA-PC05-0-0	PC05 CABLE	2	2	2	2	2
18	C-AD-5408310-1-0	SWITCH ASSY			1	1	
18	C-AD-5408935-0-0	SWITCH ASSY					1
TITLE PC05 READER, PUNCH, DRIVER			ASSY NO. D-UA-PC05-0-0	SIZE CODE A PL	NUMBER PC05-0-0	REV. V	ECO NO. PC05-00031
SHEET 1 OF 4			DIST. G				

DEC FORM NO. RA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION				
PARTS LIST			PC05-C	PC05-CA	PC05-P	PC05-PA	PC05-R
MADE BY P. MARCOTTE	CHECKED <i>R. Carwell</i>	SECTION 1					
DATE 6/19/69	DATE 6/24/69	ISSUED SECT. 1					
ENG <i>J. Beckner</i>	PROD <i>J. Beckner</i>						
DATE 7/1/69	DATE 7/2/69						
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	PC05-C	PC05-CA	PC05-P	PC05-PA	PC05-R
40	9006024-1	SCR, PHL PAN HD 6-32 x 1/2 LG SST	7	7	4	4	5
41	9006653	WASHER, FLAT #6 SST	5	5	2	2	5
42	9008141	DEC NAME TAG	2	2	2	2	2
43	9107252-09	WHITE SHRINKABLE TUBING				A/EA/B	
44	9006664	WASHER #10 SST	24	24			24
45	C-MD-7408091-0-0	BRKT, RESISTOR	1	1			1
46	9006565	NUT, KEP 10-32 SST	4	4	4	4	4
47	9006655	WASHER INT TOOTH #10	4	4			4
48	9007799-6	SCR, PHL, FILLISTER HD 8-32X 1 1/2	1	1	1	1	1
49	1209850	UNIVERSAL RETAINER	1	1	1	1	1
50	C-IA-7405642-0-0	SCR MODULE RETAINER	1	1	1	1	1
51	C-IA-7408339-7-0	HOLD DOWN BAR 6"	1	1	1	1	1
52	C-IA-7407134-3-0	BEZEL SWITCH					1
52	C-IA-7407134-4-0	BEZEL SWITCH					1
52	C-IA-7407134-5-0	BEZEL SWITCH					1
53	9006658	NUT, HEX # 6-32 SST	2	2	2	2	2
54	9006633	WASHER INT TOOTH LOCK #6	2	2	2	2	2
55	9006656	WASHER FLAT	2	2	2	2	2
56	A-PI-3700024-0-0	PACKAGING INSTRUCTIONS	1	1	1	1	1
57	A-PI-3700123-0-0	PACKAGING INSTRUCTIONS	1	1	1	1	1
58	9007079	CLAMP, CABLE	1	1			1
TITLE PC05 READER, PUNCH, DRIVER			ASSY NO. D-UA-PC05-0-0	SIZE CODE A PL	NUMBER PC05-0-0	REV. V	ECO NO.
SHEET 3 OF 4			DIST. G				

DEC FORM NO. DRA 110

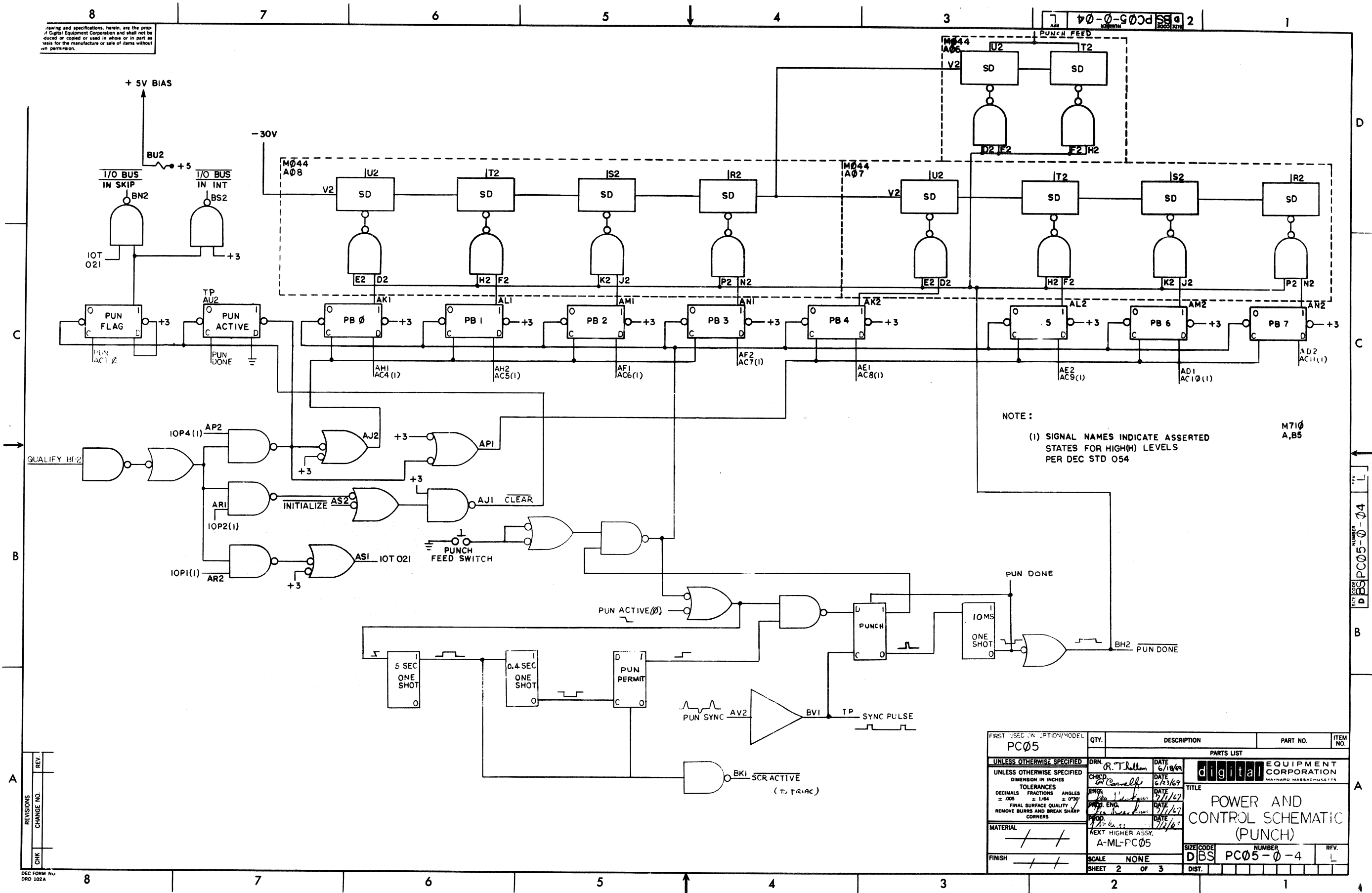
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION				
PARTS LIST			PC05-C	PC05-CA	PC05-P	PC05-PA	PC05-R
MADE BY P. MARCOTTE	CHECKED <i>R. Carwell</i>	SECTION 1					
DATE 6/19/69	DATE 6/24/69	ISSUED SECT. 1					
ENG <i>J. Beckner</i>	PROD <i>J. Beckner</i>						
DATE 7/1/69	DATE 7/2/69						
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	PC05-C	PC05-CA	PC05-P	PC05-PA	PC05-R
18	C-AD-5408310-3-0	SWITCH ASSY	1	1			
19	D-MD-7407131-0-0	TAPE CONTAINER	1	1	1	1	
20	9006011-2	SCR, PHL PH 4-40 x 3/8 LG SST	2	2	2	2	
21	9006556	NUT, HEX 4-40	2	2	2	2	8
22	9006632	WASHER, INT TOOTH #4	2	2	2	2	8
23	9006633	WASHER, INT TOOTH #10	2	2	2	2	8
24	1309896	RES, 25 OHM 40W ± 5%	8	8			8
25	9107360-99	18 AWG STRD TEFLON WHT	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B
26	9007917	GOLDEREGG CORN	6	6	6	6	4
27	9107400-97	22 AWG STRD TEFLON TRACER WHT/VIO	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B
28	9107400-94	22 AWG STRD TEFLON TRACER WHT/YEL	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B
29	9107400-93	22 AWG STRD TEFLON TRACER WHT/ORN	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B
30	9107400-91	22 AWG STRD TEFLON TRACER WHT/BRN	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B
31	9107350-77	24 AWG SOLID KYNAR VIO	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B
32	9107350-44	24 AWG SOLID KYNAR YEL	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B
33	9107350-33	24 AWG SOLID KYNAR ORN	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B
34	9107350-11	24 AWG SOLID KYNAR BRN	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B	A/RA/RA/RA/RA/B
35	9006905-01	SCR, PHL PAN HD 8-32 x 1/8 LG SST	1	1	1	1	1
36	9006634	WASHER INT TOOTH #8	4	4	4	4	4
37	9006823	SPACER 3/8 AF x 3/4 LG	1	1	1	1	1
38	9009540-01	SCR, PHL PAN HD 8-32 x 5/16 LG SST	1	1	1	1	1
39	E-IA-7407438-0-0	POWER SUPPLY COVER	1	1	1	1	1
TITLE PC05 READER, PUNCH, DRIVER			ASSY NO. D-UA-PC05-0-0	SIZE CODE A PL	NUMBER PC05-0-0	REV. V	ECO NO.
SHEET 2 OF 4			DIST. G				

DEC FORM NO. DRA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION				
PARTS LIST			PC05-C	PC05-CA	PC05-P	PC05-PA	PC05-R
MADE BY P. MARCOTTE	CHECKED <i>R. Carwell</i>	SECTION 1					
DATE 6/19/69	DATE 6/24/69	ISSUED SECT. 1					
ENG <i>GEO. BECKNER</i>	PROD <i>P. MARTINI</i>						
DATE 7/1/69	DATE 7/7/69						
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	PC05-C	PC05-CA	PC05-P	PC05-PA	PC05-R
59	9006013-01	SCR, PHL, PAN HD, #4-40 X 1/2 LG	4	2	4	4	4
60	9006557	NUT, KEPS #4	4	2	4	4	4
61	9007622	GROMMET, CATERPILLAR	3 1/2	3 1/2			
62	9007649	WASHER, EXT. TOOTH #6	10	10	10	10	10
63	9006027-01	SCR, PHL, PAN HD, #6-32 X 7/8 LG	2	2			
64	B-MD-7408955	BRACKET	1	0	1	1	1
65	B-MD-7408956	CLAMP	1	0	1	1	1
66	1005306	CAP 6.8 MFD 35V 10%	2	2	2	2	2
67	1001610	CAP .01 MFD 100V 20%	1	1	1	1	1
68	1300316	RES 470 OHM 1/2 W 10%	2	2	2	2	2
69	1300229	RES 100 OHM 1/2 W 5%	1	1	1	1	1
70	7015804	INTERLOCK, POWER	1	1	1	1	1
71	9006037-1	SCREW #8-32 x 3/8 LONG	2	2	2	2	2
TITLE PC05 READER, PUNCH, DRIVER			ASSY NO. D-UA-PC05-0-0	SIZE CODE A PL	NUMBER PC05-0-0	REV. V	ECO NO.
SHEET 4 OF 4			DIST. G				

DEC FORM DEC 16-(325)-1031-N870
DRA 110

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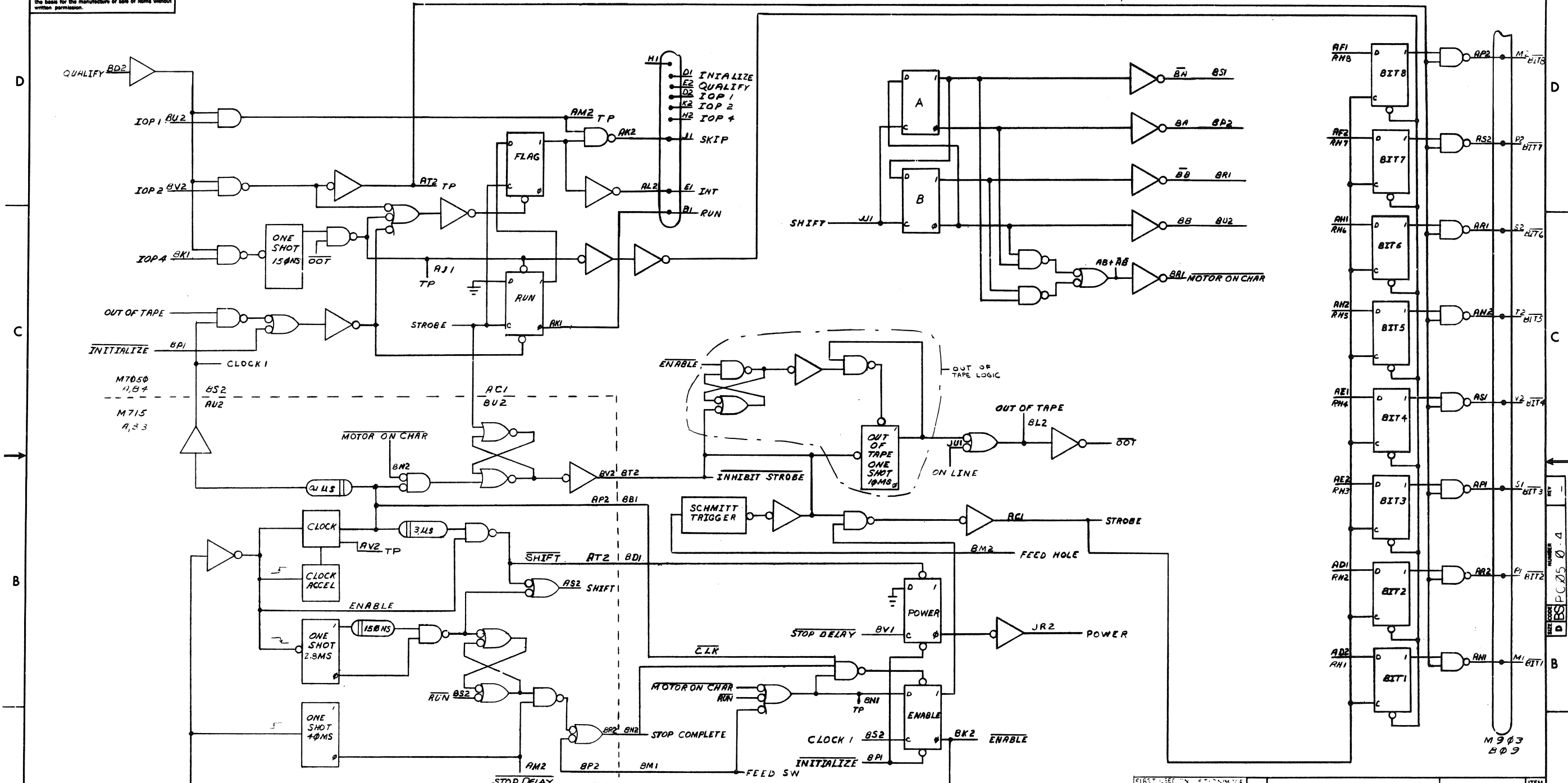


FIRST USED IN OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC05				
UNLESS OTHERWISE SPECIFIED				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
TOLERANCES				
DECIMALS	FRACTIONS	ANGLES		
± .005	± 1/64	± 0°30'		
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
NEXT HIGHER ASSY.				
A-ML-PC05				
FINISH				
SCALE NONE				
SHEET 2 OF 3				
PARTS LIST			PART NO.	
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				
TITLE				
POWER AND CONTROL SCHEMATIC (PUNCH)				
SIZE CODE			NUMBER	
D BS			PC05-0-4	
DIST.			REV.	
			L	

REV.	CHANGE NO.	DATE

DEC FORM NO. DRD 102A

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REV	
CHK	

FIRST USED BY	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
±.008 ±.004 ±.030				
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
FINISH				
SCALE NONE				
SHEET 3 OF 3				
DATE 2-7-71		DIGITAL EQUIPMENT CORPORATION MAYNARD MASS/CHUSTRS		
CHK'D P CARVELLY		TYPE		
ENG GHECKNER		POWER SCHEMATIC (READER)		
PROJ ENG GHECKNER		REV. L		
PROD. DATE		DBS PC05-0-4		
MATERIAL		NUMBER		
NEXT HIGHER ASSY		REV.		
SCALE NONE		L		
SHEET 3 OF 3		DIST.		

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MODEL	MODULE LIST
PC05-C, PC05-CA	A3-A12, B6-B12
PC05-P, PC05-PA	A5, A6, A7, A8, A12, B6, B10
PC05-R	A3, A4, A9, A10, A11, B7, B8, B9, B12

NOTES:

- 1 REF. G-AD-5408231-0-0
- 2 DELETE THIS MODULE WHEN CKT REV H AND UP OF M710 IS USED. (ETCH F)
- 3 M715 MUST BE OF REVISION (K CIRCUIT OR HIGHER. (LE ETCH
- 4 G918 MUST BE OF REVISION (B CIRCUIT OR HIGHER. (D ETCH

	1	2	3	4	5	6	7	8	9	10	11	12
A			M715 READER CLOCK	M7050 READER CONTROL	M710 PUNCH CONTROL	M044	M044	M044	M040	M040	G918 PHOTO AMPLIFIER	K303 *
B						W023 PUNCH CONN	M040	M040	M903	M903	G918 PHOTO HEAD	W077

SEE NOTE 1,2

SEE NOTE 3

SEE NOTE 4

Solenoid driver
Solenoid driver
Kabel Reactor
Puncher

CHK	CHANGE NO.	REV.
<i>Paul</i>	PC05-00001	A
<i>J. Beckner</i>	<i>P-27-81</i>	
<i>G. Beckner</i>	<i>9-3-69</i>	
<i>W. L. ...</i>	PC05-00021	B
<i>W. L. ...</i>	<i>9-17-71</i>	
<i>W. L. ...</i>	LEIS	
<i>W. L. ...</i>	<i>12471</i>	

FIRST USED OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC05				
UNLESS OTHERWISE SPECIFIED				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES				
DECIMALS	FRACTIONS	ANGLES		
± .005	± 1/64	± 0°30'		
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
FINISH				
NEXT HIGHER ASSY.				
SCALE				
SHEET				
PARTS LIST				
DRN. <i>S. Marzotto</i> DATE <i>6/18/69</i> CHK'D. <i>R. Carneiro</i> DATE <i>6/20/69</i> ENGR. <i>...</i> DATE <i>7/1/67</i> PROJ. ENGR. <i>...</i> DATE <i>7/1/67</i> PROD. <i>...</i> DATE <i>...</i>				
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				
TITLE				
MODULE UTILIZATION LIST PC05				
SIZE CODE		NUMBER		REV.
C/MU		PC05-0-3		B
DIST.				

REV. B
NUMBER PC05-0-3
SIZE CODE C/MU

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY P. MARCOTTE	CHECKED <i>R Carwell</i>	SECTION 1
DATE 6/18/69	DATE 6/20/69	
ENG <i>P. Carwell</i>	PROD <i>1</i>	ISSUED SECT. 1
DATE <i>7/1/69</i>	DATE <i>7/2/69</i>	

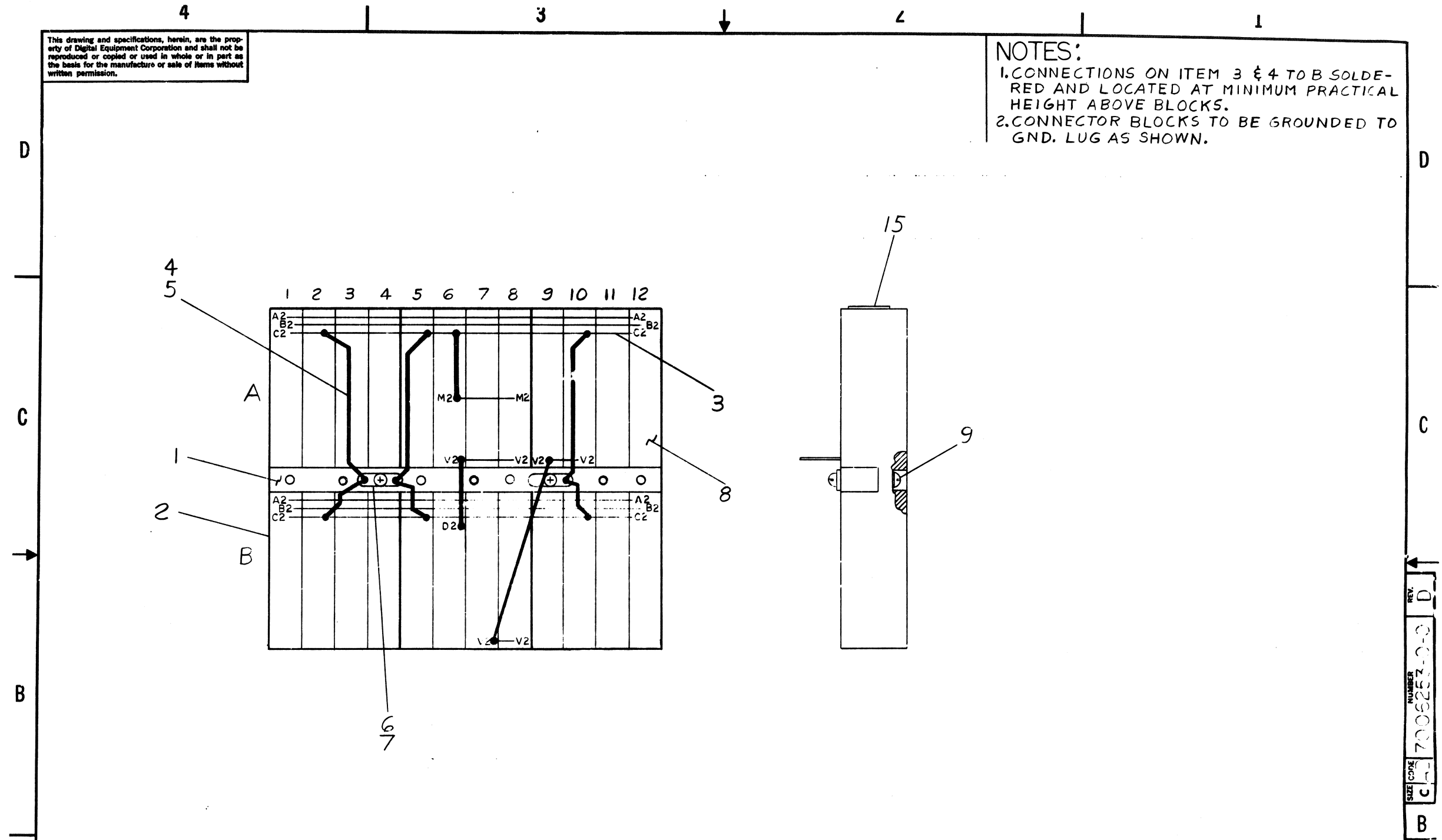
QUANTITY / VARIATION

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION															
			PC05-C	PC05-CA	PC05-P	PC05-PA	PC05-R											
1	G918	PHOTO AMPLIFIER	1	1			1											
2	C-AD-5408231-0-0	TIMER (K303 WITH K374, K376 & K378)	1	1	1	1												
3	M040	SOLENOID DRIVER	4	4			4											
4	M044	SOLENOID DRIVER	3	3	3	3												
5	M705	READER CONTROL	1	1	1	1												
6	M710	PUNCH CONTROL	1	1	1	1												
7	M715	READER CLOCK	1	1			1											
8	M7050	READER CONTROL	1	1			1											
NOTE 1: DELETE 5408231 MODULE WHEN CKT REV H AND HIGHER OF			M710 MODULE IS USED															

TITLE MODULE UTILIZATION	ASSY NO. C-MU-PC05-0-3	SIZE A	CODE PL	NUMBER PC05-0-3	REV. B	ECO NO. PC05-000021
SHEET 1 OF 1		DIS				

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NOTES:
 1. CONNECTIONS ON ITEM 3 & 4 TO B SOLDERED AND LOCATED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS.
 2. CONNECTOR BLOCKS TO BE GROUNDED TO GND. LUG AS SHOWN.



REV.	CHG. NO.	CHK.	DATE
A	PC05-00003		
B	PC05-00016		
C	PC05-00021		
D	PC05-00030		

E. LUTTIG
 T. QUINN 5-3-70
 YOUSE
 J. BITTO
 J. BITTO
 J. BITTO

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DIMENSION IN INCHES TOLERANCES DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30'		TITLE	
MATERIAL		BUS BAR (PC05)	
FINISH		SIZE CODE: C AD NUMBER: 7006253-0-0 REV: D	

REV. D
 NUMBER 7006253-0-0
 SIZE CODE C AD

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

QUANTITY / VARIATION

MADE BY P. MARCOTTE	CHECKED <i>P. Carrell</i>	SECTION
DATE 6/10/69	DATE 6/18/69	1
ENG <i>Geo. Beckman</i>	PROD <i>Richard J. ...</i>	ISSUED SECT.
DATE 7/1/69	DATE 7/2/69	1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																		
1	B-IA-7407077-0-0	MTG. BAR 6IN.	1																	
2	1205348	288 PIN CONN. BLOCK WRAPTYPE	3																	
3	9008428	BUS STRIP - 44 HOLE	A/R																	
4	9107560-01	#28 AWG BUS WIRE	A/R																	
5	9107258-09	#22 TUBING TEFLON, WHITE	A/R																	
6	9007597	TERMINAL, SHAKEPROOF #2116-08-00	2																	
7	9006034-01	SCR PHL PAN HD #8-32 x .19 LG SST	2																	
8	9105740-44	30 AWG SOLID KYNAR INS. WIRE, YELLOW	A/R																	
9	9006120-06	SCR PHL FIL HD #8-32 x .62 LG SST	3																	
10	1005900	CAP 6.8 MFD 35V 10%	2																	
11	1001610	CAP .01 MFD 100V 20%	1																	
12	1002627	CAP 2.2 MFD 20V 10%	1																	
REF	K-WL-PCØ5-Ø-2	WIRE LIST	1																	
13	1300317	RES 470 OHM 1/4 W 10%	2																	
14	1300231	RES 100 ohm 1/4 W 5%	1																	
15	A-DC-7411881-01	DECAL LOGIC ASSY	1																	
16	3700040-00	PACKAGING INSTRUCTIONS	REF																	
17	9905016-4	COMPRESS - O - CARTON	A/R																	
21	A-WT-7006253-0	AWT REVISION STATUS	REF																	

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
BUS BAR (PCØ5)	C-AD-7006253-0-0	A	PL	7006253-0-0	D	PC05-00030
	SHEET 1 OF 1	DIST.	G			