

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

digital equipment corporation · maynard, massachusetts

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-M340-0-1	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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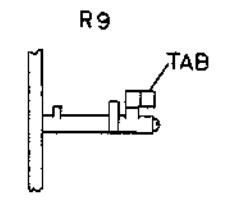
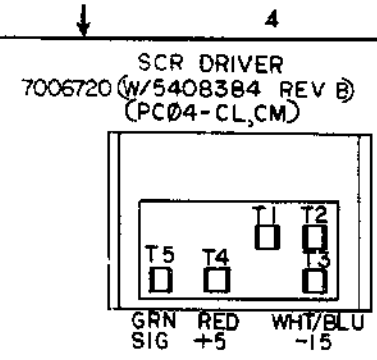
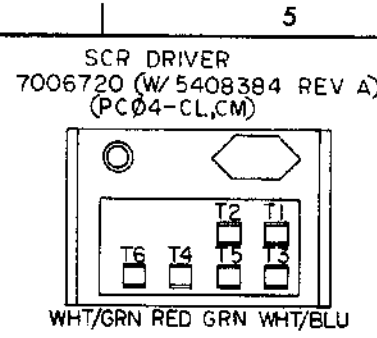
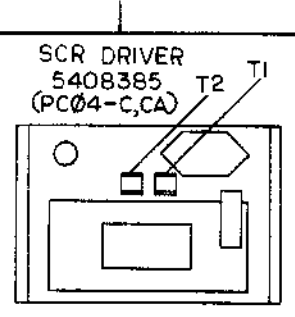
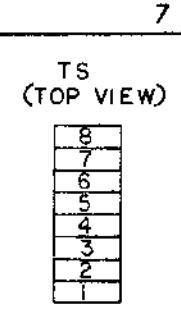
MECHANICAL					MECHANICAL					MECHANICAL					ELECTRICAL														
FIND NO	DESCRIPTION	PART NO	DEPT	USAGE	FIND NO	DESCRIPTION	PART NO	DEPT	USAGE	FIND NO	DESCRIPTION	PART NO	DEPT	USAGE	FIND NO	DESCRIPTION	PART NO	DEPT	USAGE										
1	PC04- READER & PUNCH	D-UA-PC04-0-0			4	PHOTO TRANSISTOR ASSY TEST SCHEMATIC TEST PROCEDURE	C-1A-7008267-0-0 D-CS-7406267-T-1 A-SP-7406267-T-2			16	SWITCH ASSY SWITCH ASSY SWITCH ASSY SWITCH ASSY (PL) BAR SPACER SW. BD.	C-AD-5400525-0-0 C-AD-5408310-3-0 C-AD-5408310-4-0 A-PL-5408310-0-0 B-WD-7407175-0-0			1	PAPER TAPE READER	A-ML-PC04-0												
2	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 MFG CHASSIS HINGE BRKT FEED TAPE CHUTE TAPE DEPRESSOR PIN PULLY (80CY) PULLY (50CY) TORSION SPRING	A-PL-PC04-0-0 B-WD-7405300-0-0 D-MD-7407131-0-0 C-1A-7006261-0-0 D-UA-PC04-PA-0 C-MD-7408091-0-0 C-1A-7405642-0-0 C-1A-7408339-7-0 A-PT-3700024-0-0 D-AD-7006248-1-0 D-AD-7006248-2-0 A-PL-7006248-0-0 B-WD-7407386-0-0 D-1A-7407071-0-0 B-WD-7407063-0-0 D-MD-7408098-0-0 D-1A-7408171-0-0 D-SC-1209225-0-0 B-MD-7408172-0-0 B-WD-7408089-1-0 B-WD-7408089-2-0 C-SC-1209224-0-0			7	CHASSIS & POWER SUPPLY ASSY CHASSIS & POWER SUPPLY (PL) PANEL FRONT BRKT MFG BAR RIGHT HAND BRKT MFG BAR LEFT HAND CHASSIS COVER, JONES STRIP HARNESS, CONTROL HARNESS 1/0 110 VAC HARNESS POWER SUPPLY DECAL (PC04)	D-AD-7006248-0-0 A-PL-7006248-0-0 D-1A-7407075-0-0 C-1A-7407065-1-0 C-1A-7407065-2-0 E-1A-7407074-0-0 C-MD-5305644-0-0 D-1A-7008311-0-0 D-1A-7336310-0-0 D-1A-7006309-0-0 A-DC-7407478-0-0			17	PC0 SWITCH BOARD FLIP CHIP MODULE PR SWITCH BOARD	D-1A-5009309-0-0 D-MD-1402230-0-0 D-1A-5008934-0-0			7	CHASSIS & POWER SUPPLY ASSY POWER REG BD C.S. SCR DRIVER ASSY PRINTED CIRCUIT 823	D-BS-PC04-0-2 C-MU-PC04-0-3 A-PL-PC04-0-4 A-SP-PC04-0-5 K-WL-PC04-0-6 K-WL-PC04-0-7 D-AD-7006248-0-0 B-CS-5408308-0-0 C-AD-5408385-0-0 PC-5403770-0-1												
3	READER ASSY READER ASSY (PL) TAPE PATH GUIDE READER PLATE BIDCY 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-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-1A-7407684-0-0 B-MD-7407800-0-0 B-MD-7404989-0-0			8	PWR REGULATOR ASSY PWR REGULATOR (PL) HEATSINK, PWR REGULATOR	C-AD-7008086-0-0 A-PL-7008086-0-0 C-MD-7407086-0-0			18	PC04 BUS BAR MTG. BAR (8 IN.)	E-AD-7006288-0-0 B-1A-7407077-0-0			11	SCR DRIVER ASSY SCR DRIVER CHASSIS	C-AD-5408385-0-0 C-1A-7407070-0-0			10	ETCH BOARD	D-1A-500919-0-0			18	BUS BAR (PC04) BUS BAR (PC04) ACCESSORY LIST	E-AD-7006288-0-0 E-AD-7006288-1-0 A-AL-7404-0-08		
					10	TERMINAL BOARD	C-1A-5003717-0-0			19	PACKAGING INSTRUCTION TAPELESS CARTON SPECIAL DIE CUT ONE PIECE FOLDER QUAD MODULAR BOOK PACK 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			11	TERMINAL BOARD	C-1A-5003717-0-0			21	PACKAGING INSTRUCTION TAPELESS CARTON SPECIAL DIE CUT ONE PIECE FOLDER QUAD MODULAR 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							
					14	COVER ASSEMBLY COVER ASSEMBLY COVER ASSEMBLY COVER ASSEMBLY COVER ASSEMBLY (PL) COVER, PC0 (BASIC & COMB.) COVER, PC0 (PUNCH) COVER, PC0 (READER) BEZEL	D-AD-7008252-1-0 D-AC-7008252-2-0 D-AD-7008252-3-0 D-AD-7008252-4-0 A-PL-7008252-0-0 E-SC-1209306-1-0 E-SC-1209306-3-0 E-SC-1209306-5-0 C-MD-7407040-0-0 E-SC-1209225-0-0			20	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-9905052-0-0 A-PS-9905056-0-0 A-PS-9905044-1-0 A-PS-9905129-7-0			12	TERMINAL BOARD ASSY	B-1A-5403770-0-0			21	PACKAGING INSTRUCTION OUTER SHIPPING CARTON INNER SHIPPING CARTON BOTTOM PAD FRONT SPACER SIDE SPACER REAR SUPPORT TOP SPACER TORO PAD 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							
					15	BEZEL SWITCH SILK SCREEN BEZEL SWITCH SILK SCREEN BEZEL SWITCH SILK SCREEN BEZEL SWITCH SILK SCREEN	D-1A-7407134-1-0 A-SS-7407134-1-1 C-1A-7407134-2-0 A-SS-7407134-2-1 C-1A-7407134-3-0 A-SS-7407134-3-1 C-1A-7407134-4-0 A-SS-7407134-4-1																						

REV.	Y	10/15/72
CHG	PC04-0005B	2
REV	PC04-0005B	2
REV	PC04-0005B	2
REV	PC04-0005B	2
REV	PC04-0005B	2

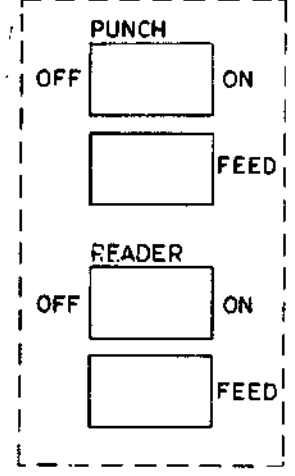
FIRST USED ON OPTION/MODEL PC04	QTY.	DESCRIPTION	PART NO	ITEM NO
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± .004 ± .007 FINISH SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	DATE 6/1/69	DATE 6/1/69	DATE 6/1/69	DATE 6/1/69
DRAWING INDEX LIST PC04				
NEXT HIGHER ASSY AML PC04				
SCALE 2 OF 2				
D D I PC04-0-1				

PC04-0-1

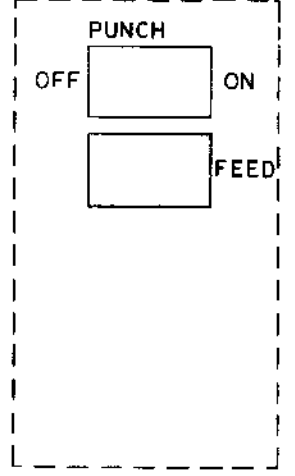
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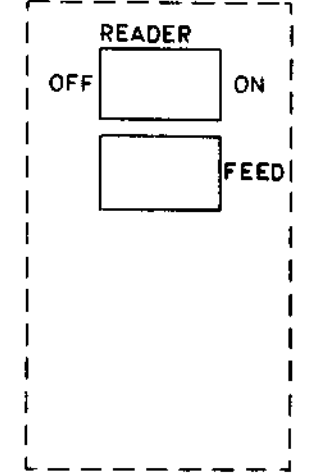
PC04-B,BA,BB,BC,BL,BM
5408310-4
DETAIL "A"



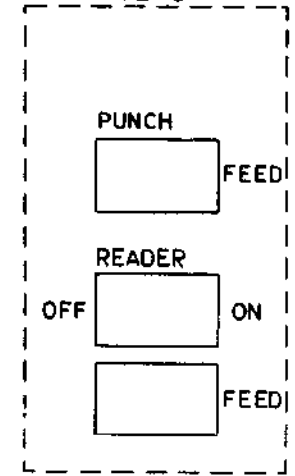
PC04-P,PA,PL,PM
5408935-0
DETAIL "B"



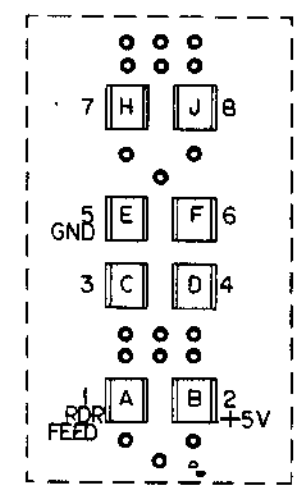
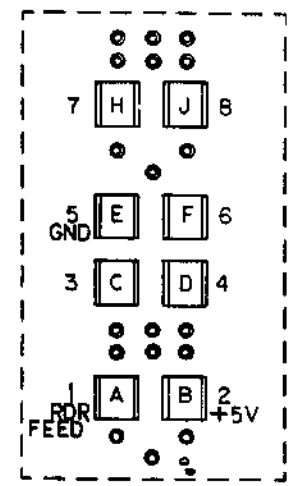
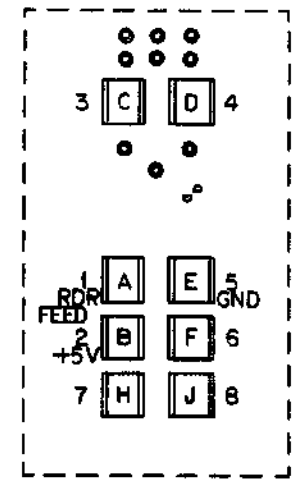
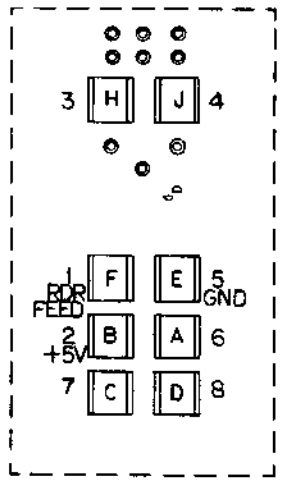
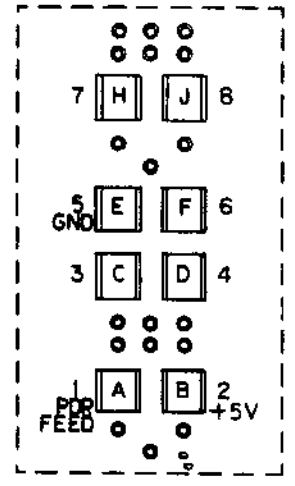
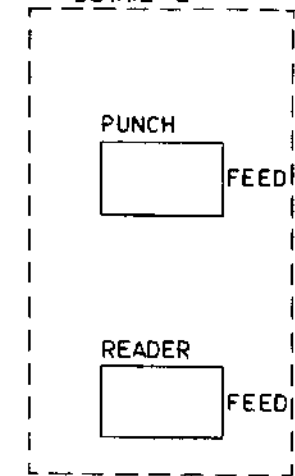
PC04-R,RB,RL
5408935-C
DETAIL "C"



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



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



REV	CHANGE NO

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO	ITEM NO
PC04				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. B. HUTNAK	DATE 4-10-69	digital EQUIPMENT CORPORATION	
DECIMALS .XXX - .008 .XX - .02 .X - .1	CHK'D. R. CARVELLI	DATE 6-5-69		
ANGLES 10° 30'	ENG. G. BECKNER	DATE 6-6-69	TITLE PC04 READER & PUNCH (SW & TERM LOCATIONS)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ. ENG. G. BECKNER	DATE 6-6-69		
MATERIAL	PROD. B. ANTONUCCIO	DATE 6-6-69	SIZE CODE	NUMBER
FINISH	NEXT HIGHER ASSY. A-ML-PC04-0		DUA	PC04-0-0
	SCALE	SHEET 3 OF 4	DIST.	

REV. P
DUA PC04-0-0

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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	A07B	
WHT/GRN #22	SCR LEAD	B01B	

**CONNECTIONS FOR 7006520
SCR DRIVER ASSY**

COLOR/AWG	WIRE	CONNECTION	REMARKS
RED #18	*9	SCR T1	
BLK & YEL BLK & WHT	PUNCH MOTOR	SCR T2	
RED #18	*7	SW BOARD - J	SEE DETAIL "E"
WHT/BLU #22	SCR LEAD	A07B	
WHT/GRN #22	SCR LEAD	A07C	NOT USED ON 5408385 R17B
RED #22	SCR LEAD	A07A	
GRN #22	SCR LEAD	B01F	

PUNCH CONNECTIONS

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

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	

PLUG READER PHOTOCELL CABLE
(W077) INTO SLOT B08

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	29
31	WHT/ORN #22	R5 & R6	-	TS - 3	28
32	WHT/BRN #22	R7 & R8	-	TS - 4	28
33	VIO #22	R1	-	B06R	-
33	VIO #22	R2	-	B06S	-
34	YEL #22	R3	-	B05R	-
34	YEL #22	R4	-	B05S	-
35	ORN #22	R5	-	B04R	-
35	ORN #22	R6	-	B04S	-
36	BRN #22	R7	-	B03R	-
36	BRN #22	R8	-	B03S	-

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

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

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

COMMON CONNECTIONS

COLOR/AWG	WIRE	CONNECTION	REMARK
BLK #18	*27	GND LUG	LOGIC GND
GRY/YEL #18	*29	A0BB	-15V
BLU #18	*31	B02D	-30V
BLK #18	*28	GND LUG	LOGIC GND
GRY/RED #18	*30	A0BA	+5V
GRN #18	*32	B06V	-18V
YEL #22	*1	SW BOARD - "A"	SEE DETAILS "A" THRU "E" FOR LOCATION.
WHT/BLK #22	*2	SW BOARD - "B"	
WHT/YEL #22	*3	SW BOARD - "C"	
BRN #22	*4	SW BOARD - "D"	
BLK #22	*5	SW BOARD - "E"	
WHT #22	*6	SW BOARD - "F"	
RED #18	*8	SW BOARD - "J"	
YEL #22	*11	A01V	
WHT/BLK #22	*12	B07A	+5V
WHT/YEL #22	*13	A0BF	
BLK #22	*15	B0BC	
WHT #22	*16	B02U	

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

COLOR/AWG	WIRE	CONNECTION
BRN #22	*14	A02B

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

COLOR/AWG	WIRE	CONNECTION
BRN #22	*14	A01B

NOTE: SEE SHEET 3 FOR TERMINAL
IDENTIFICATION DIAGRAMS.

FIRST USED ON OPTION/MODEL PC04-0	QTY	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. B. HUTNAK	DATE 4-10-69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	CHK'D R. CARVELLI	DATE 6-5-69	TITLE PC04 READER & PUNCH (WIRING)	
ANGLES	ENG. GEO. BECKNER	DATE 6-6-69	NEXT HIGHER ASSY	
REMOVE SURFS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. S. ANTONUCCIO	DATE 6-6-69	SCALE	
MATERIAL	FINISH		SIZE CODE A-ML-PC04	NUMBER DUA PC04-0-0
SHEET 7 OF 7			DIST.	REV. -

REVISIONS	REV.
CHANGE NO.	
CHK	

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ITEM NO.	DWG. NO. / PART NO.	DESCRIPTION	QUANTITY/VARIATION												
			PC04-B-1B	PC04-BA-1C	PC04-BL	PC04-BM	PC04-C	PC04-CA	PC04-CL	PC04-CM	PC04-P	PC04-PA	PC04-PL	PC04-PM	PC04-R-1B
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	-	-	-	-
2	D-AD-7006248-2-0	PUNCH ASSY (50 HZ)	-	1	-	1	-	1	-	1	-	1	-	-	-
3	9006021-1	SCR, PHL PAN HD 6-32 X 5/16 LG SST	6	6	6	6	6	6	6	6	6	6	6	6	6
4	9006560	NUT, KEPS 6-32 X 5/16 X 5/32	2	2	2	2	2	2	2	2	2	2	2	-	-
5	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
6	1100106	TRAYECTOR GRS20SP4B4	1	1	1	1	-	-	-	-	1	1	1	1	-
7	9107278-3	18 AWG TEF TUBING RED	A/R	R/R	R/R	R/R	R	-	-	-	A/R	R/R	R/R	R/R	-
8	D-AD-7006252-1-0	COVER ASSY (PUNCH & READER)	1	1	1	1	-	-	-	-	-	-	-	-	-
8	D-AD-7006252-2-0	COVER ASSY (PUNCH)	-	-	-	-	-	-	-	1	1	1	1	-	-
8	D-AD-7006252-3-0	COVER ASSY (READER)	-	-	-	-	-	-	-	-	-	-	-	1	1
8	D-AD-7006252-4-0	COVER ASSY (PUNCH, READER & SCR)	-	-	-	-	1	1	-	-	-	-	-	-	-
8	D-AD-7006252-6-0	COVER ASSY (READER, PUNCH & SCR)	-	-	-	-	-	1	1	-	-	-	-	-	-
9	9006042-2	SCR, PHL FLAT HD 8-32 X 1 LG SST	4	4	4	4	4	4	4	4	4	4	4	4	4
10	9006083-1	SCR, PHL PAN HD 10-32 X 2 1/2 LG SST	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	-	-
12	D-AD-7006247-0-0	READER ASSY	1	1	1	1	1	1	1	1	-	-	-	1	1
13	E-AD-7006268-0-0	WIRED ASSY, PC04	1	1	-	-	1	1	-	-	1	1	-	1	-
13	B-AD-7006268-1-0	WIRED ASSY, PC04	-	-	1	1	-	-	-	-	-	1	1	-	1
13	E-AD-7006268-2-0	WIRED ASSY, PC04	-	-	-	-	-	1	1	-	-	-	-	-	-
14	9006022-1	SCR, PHL PAN HD 6-32 X 3/8 LG SST	3	3	3	3	3	3	3	3	3	3	3	3	3
15	9006033	WASHER, INT TOOTH #6	15	15	15	15	17	17	17	17	11	11	11	11	13
16	C-AD-5408385-0-0	SCR DRIVER ASSY	-	-	-	-	1	1	-	-	-	-	-	-	-
16	C-AD-7006528-0-0	SCR DRIVER ASSY	-	-	-	-	-	1	1	-	-	-	-	-	-
17	9006026-1	SCR, PHL PAN HD 6-32 X 3/4 LG SST	-	-	-	-	2	2	2	-	-	-	-	-	-
18	9006801	HEX SPACER, 1/4" X 3/8 LG #6 HOLE	-	-	-	-	2	2	2	2	-	-	-	-	-
19	C-IA-7006281-0-0	I/O CABLE, PC04 (W033 TO W077)	2	2	-	-	2	2	2	-	1	1	-	1	1
19	D-IA-7407057-1-0	CABLE CONNECTOR M926 TO W033 S	-	-	1	1	-	-	-	-	-	-	-	-	-
19	D-IA-7006145-1-0	CABLE CONN (PUNCH) M926 TO W033	-	-	-	-	-	-	-	-	-	1	1	-	-
19	D-IA-7407057-3-0	CABLE CONNECTOR M926 TO W033 S	-	-	-	-	-	1	1	-	-	-	-	-	-
20	C-AD-5408310-4-0	SWITCH ASSY	1	1	1	1	-	-	-	-	-	-	-	-	-
20	C-AD-5408310-0-0	SWITCH ASSY	-	-	-	-	-	-	-	1	1	1	1	1	1
20	C-AD-5408310-3-0	SWITCH ASSY	-	-	-	-	1	1	-	-	-	-	-	-	-
20	C-AD-5408310-5-0	SWITCH ASSY	-	-	-	-	-	1	1	-	-	-	-	-	-
21	D-MD-7407131-0-0	TAPE CONTAINER	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	-	-
23	9006556	NUT, HEX 4-40 X 1/2 X 1/16 SST	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	-	-
25	9006635	WASHER, INT TOOTH #4	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
27	9007360-10	10 WIRE GRID SCREEN NET	1	1	1	1	1	1	1	1	1	1	1	1	1
28	9007917	SOLDERLESS CONN 18-22 AWG .250 TAB	4	4	4	4	4	4	4	4	-	-	-	4	4
29	9107400-97	WIRE, 22 AWG STRD TEFLON WHY/VIO TRACER	A/R	R/R	R/R	R/R	A/R	R/R	R/R	R/R	-	-	-	A/R	A/R

CHK	CHANGE NO.	REV.
	PC04-00053	M
	REVISED REDRAWN	
	CM-010112-12-13-71	
	A-KENT	
	Allen Kent 4 Jan 72	
	PC04-00057	N
	William 3/12/73	
	A. WILLIAMS	
	PC04-00059	P
	A. Williams 5-28-74	
	A. WILLIAMS	
	J.R. C. 6/1/74	

FIRST USED ON OPTION MODEL
PC04 (ALL)

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

MATERIAL
+ + +

FINISH
+ + +

DRN
R. HUTNAK
DATE
4-10-69

CHK'D
R. CARVELLI
DATE
6-5-69

ENG
GEO. BECKNER
DATE
6-6-69

PROJ. ENG
GEO. BECKNER
DATE
6-6-69

PROD. R.
ANTONUCCIO
DATE
6-6-69

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

SCALE + + +

SHEET 1 OF 2

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
PC04 READER AND PUNCH

SIZE CODE
CPL PC04-0-0

NUMBER
P

REV.
P

DIST.

REV. P
NUMBER 00
CPL PC04-0-0
REV. P

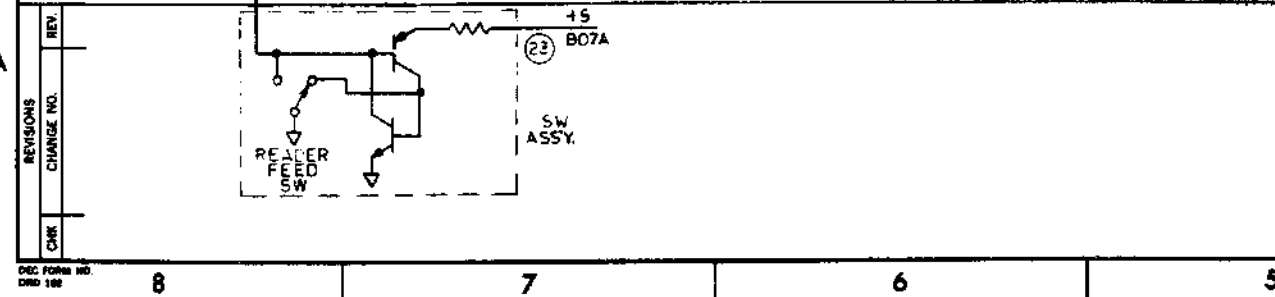
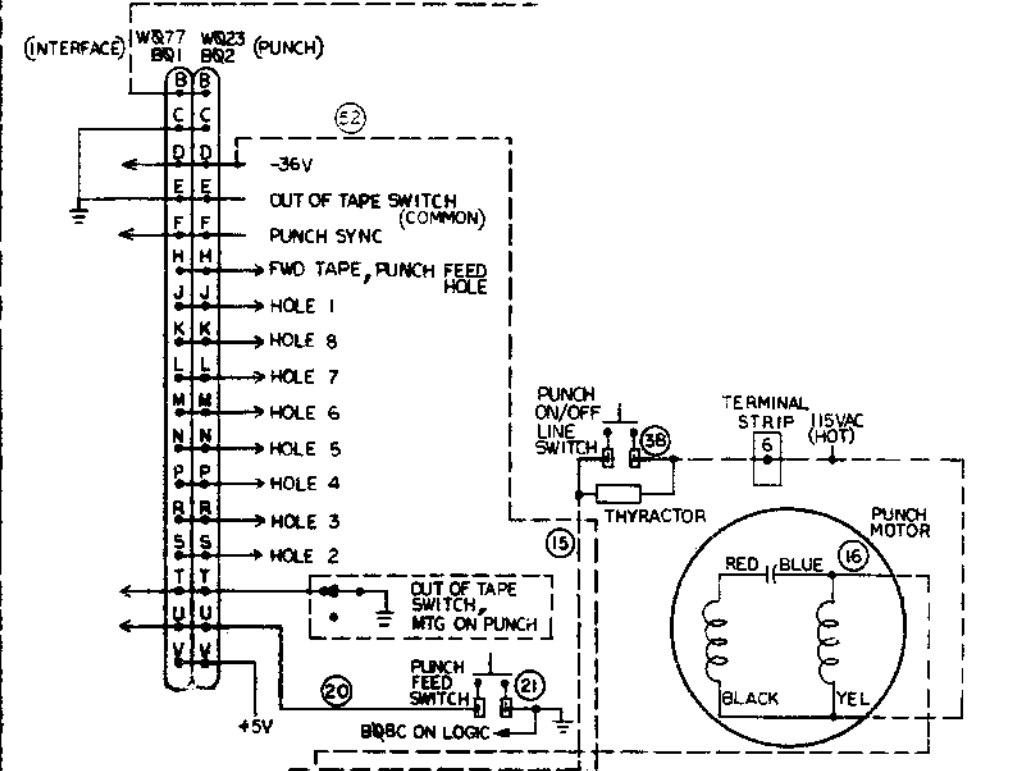
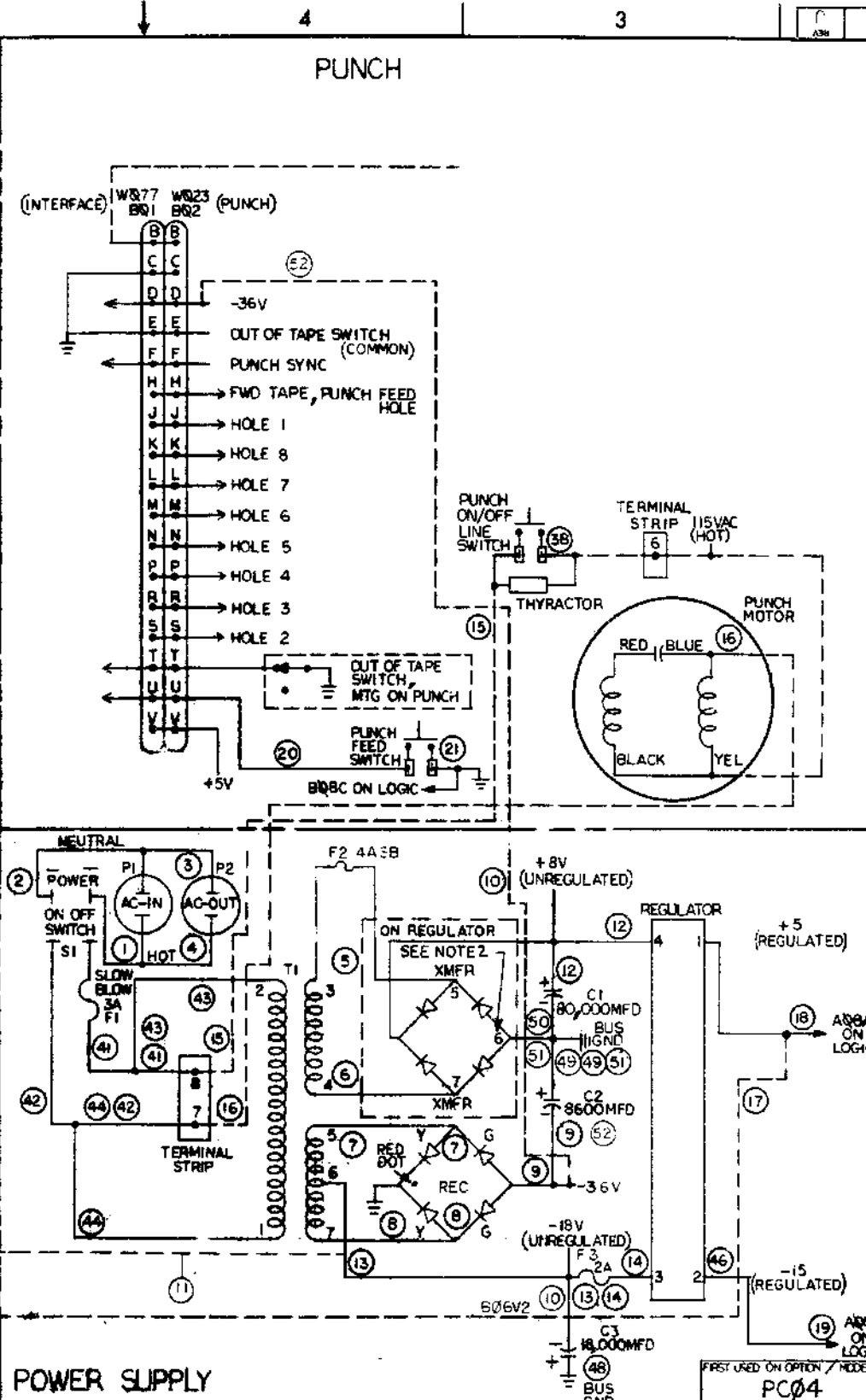
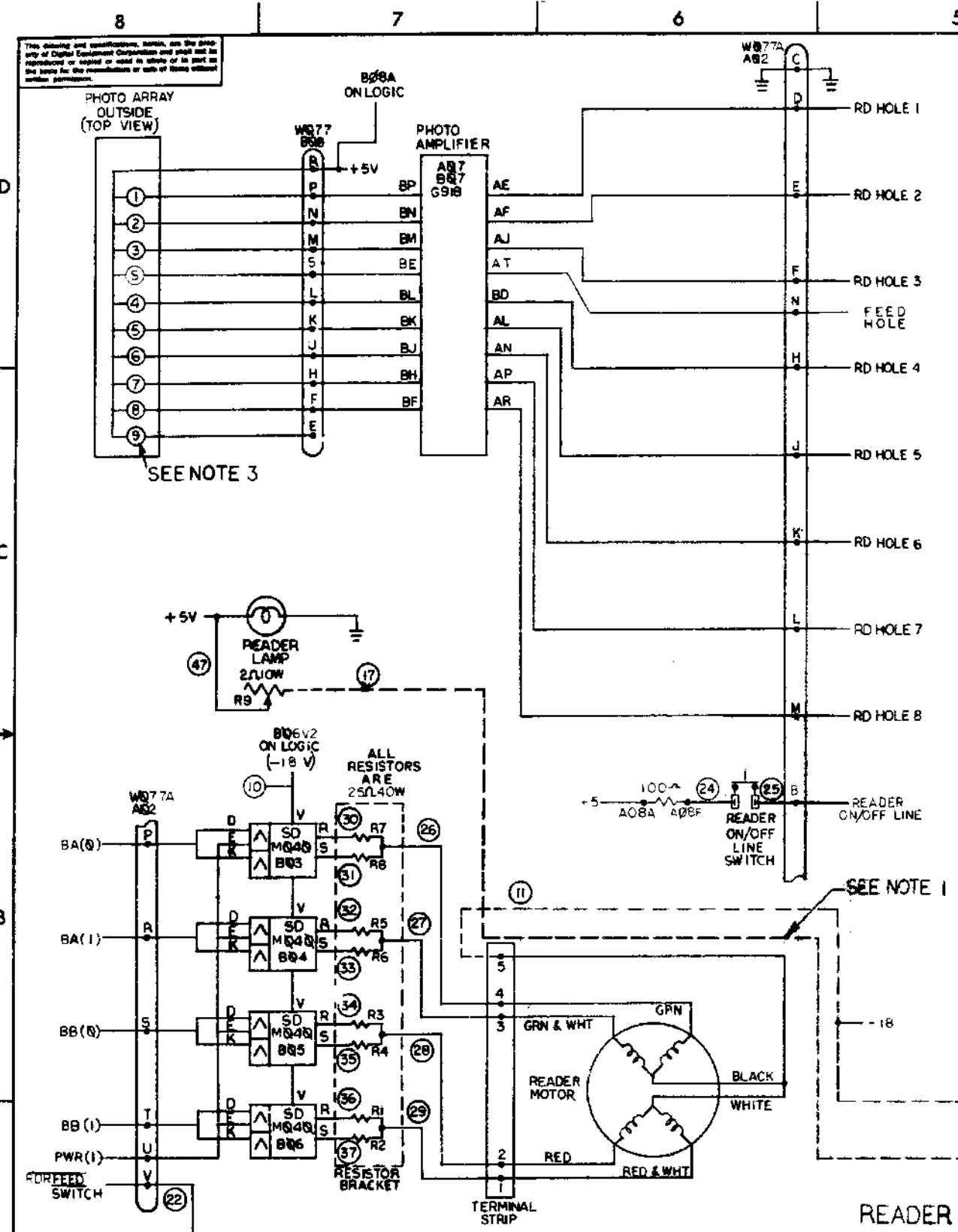
NOTES:
 1. DOTTED LINES INDICATE POSSIBLE CONNECTIONS BETWEEN POWER SUPPLY, READER AND PUNCH.
 2. THE UNCIRCLED NUMBERS 1 THRU 7 REFER TO CONNECTIONS ON REGULATOR BOARD.
 3. THIS PHOTO TRANSISTOR IS NOT USED.
 4. CIRCLED NUMBERS 1 THRU 46 ARE WIRE NUMBERS. SEE TABLE.

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
47	BLACK		
48	BLUE		

LEGEND			
CONNECTIONS	MODEL	PC04 P	PC04 R6
PWR SUP TO READER	PC04 BB PC04 BC	PC04 PA	SAME AS PC04-B PC04-BC
PWR SUP TO PUNCH			SAME AS PC04 BB PC04 B7

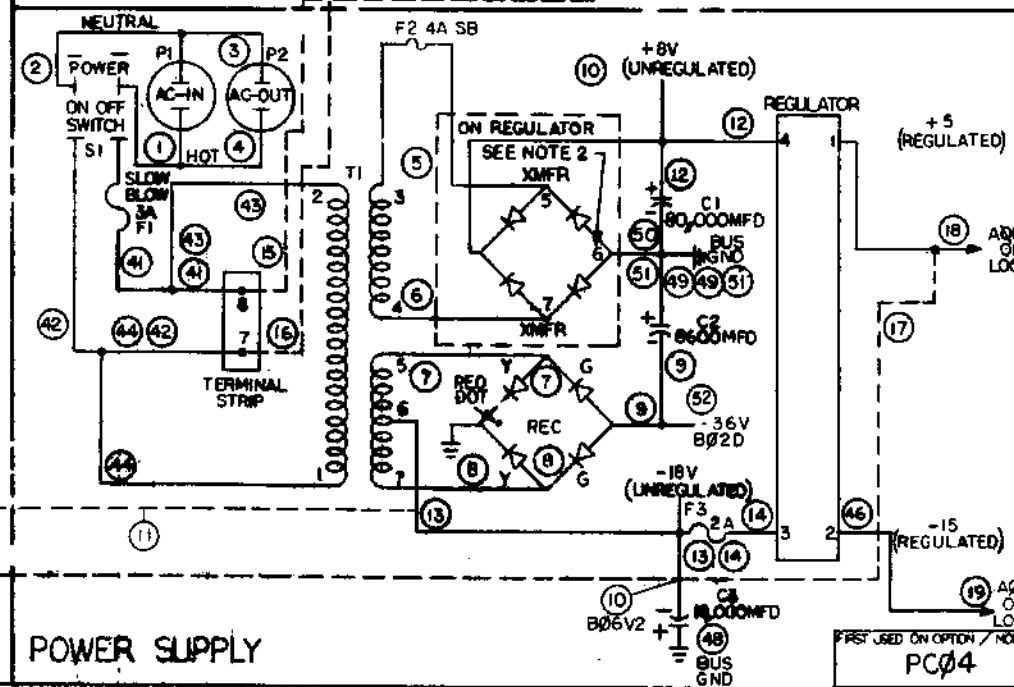
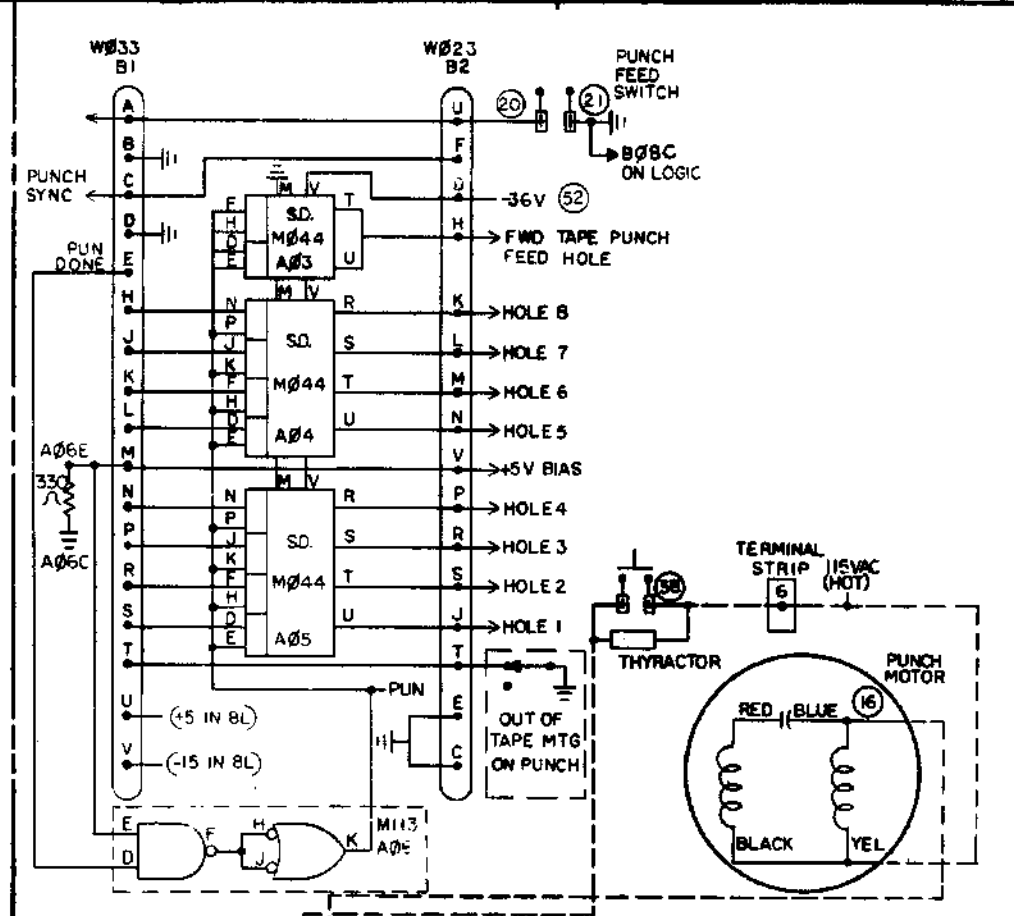
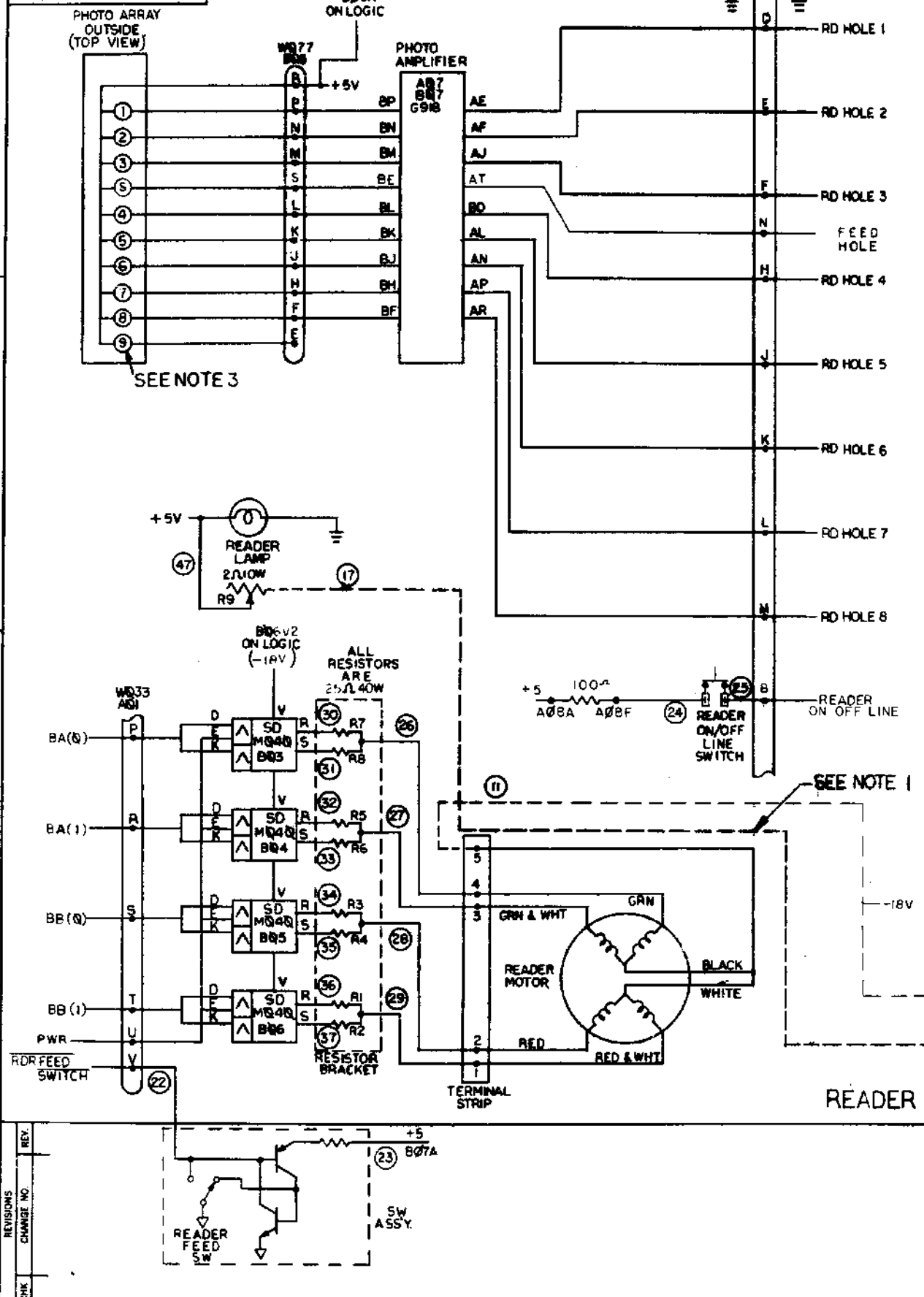
REV	DESCRIPTION	DATE	BY
1	REVISED	12/19/69	PC
2	REVISED	1/10/70	PC
3	REVISED	1/10/70	PC

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	PC04		



REFERENCE: 7006268-0
 LOGIC BLOCK

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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	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 (BU 51)	BLACK	47	GRAY-RED
52	BLUE		

LEGEND

CONN	PC04 BL	PC04 PL	PC04 RB
PWR SUP TO READER LAMP POT			SAME AS PC04-BL PC04-BM
PWR SUP TO PUNCH			SAME AS PC04 BL PC04 BM

PARTS LIST

QTY	DESCRIPTION	PART NO.	ITEM NO.
	PC04		

REFERENCE: 7006268-1 LOGIC BLOCK

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES

ORIGINALS: FRACTIONS: ANGLES: ± .005 ± .002 ± .010

FULL SURFACE QUALITY REMOVE BURRS AND SHARP EDGES

MATERIAL: + + +

FINISH: + + +

DATE: 12/10/69

BY: [Signature]

CHK: [Signature]

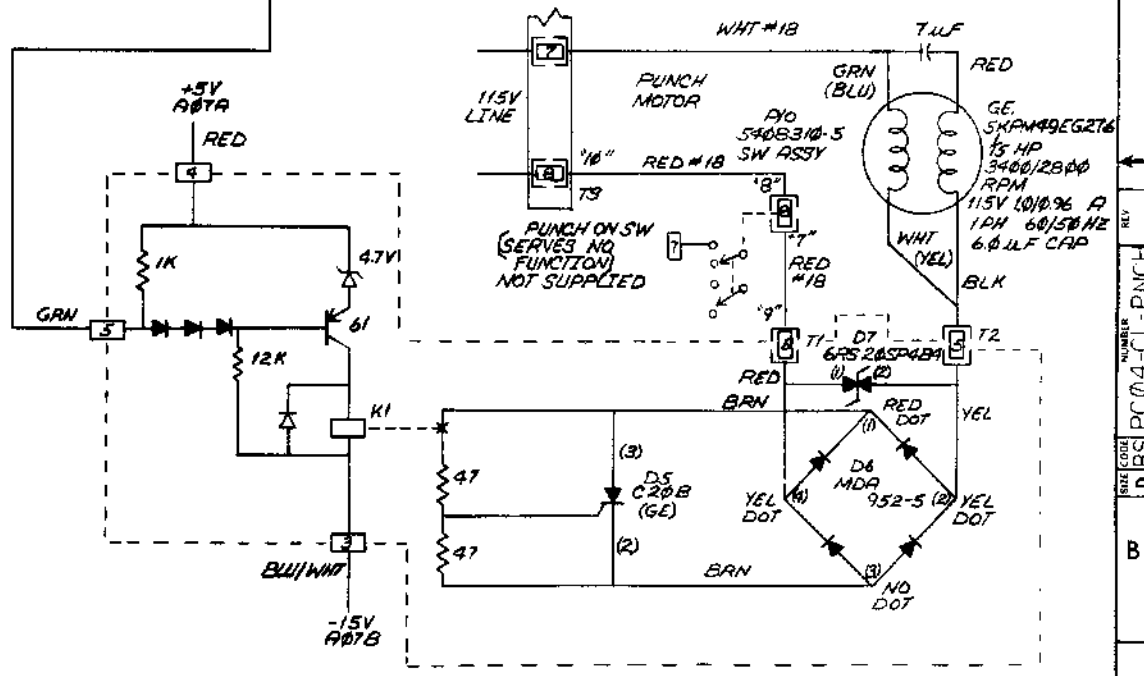
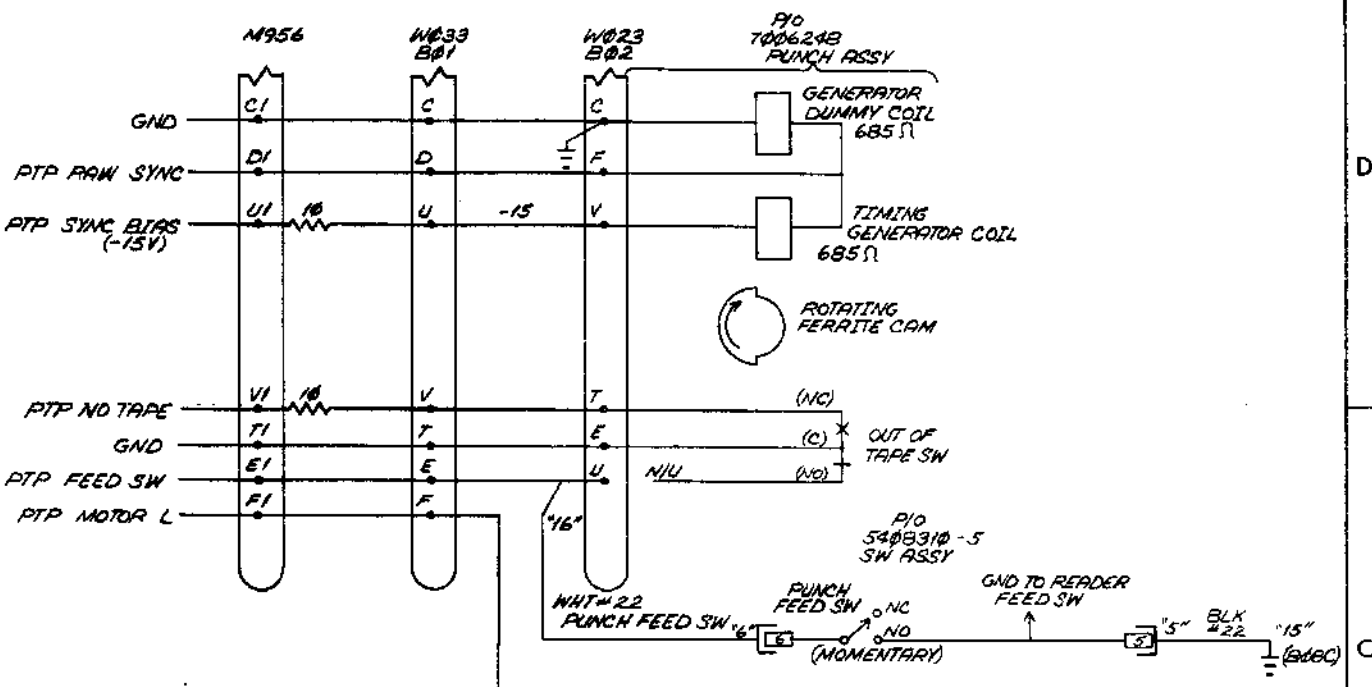
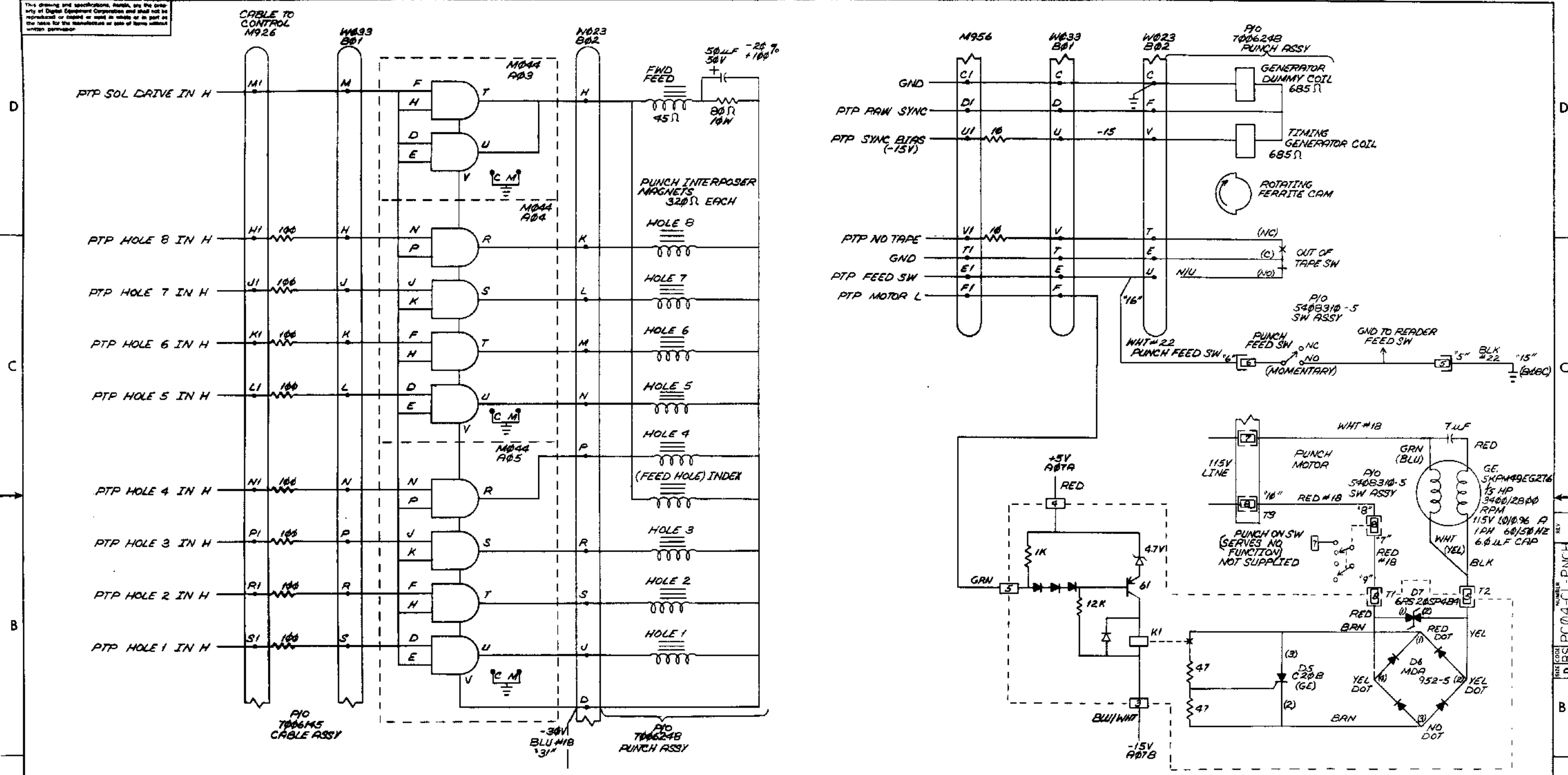
REV: [Signature]

SCALE: NONE

SHEET: 3 OF 3

DIST: []

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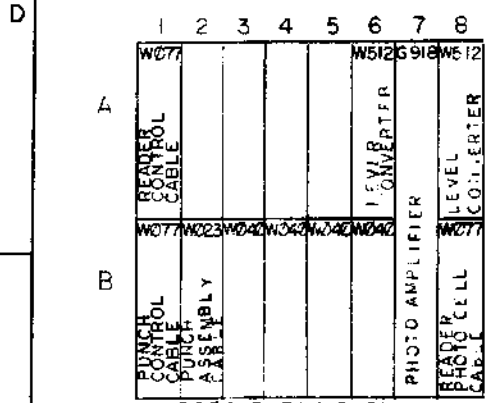


REV	
CHG	
CHK	
REVISIONS	CHANGE NO.

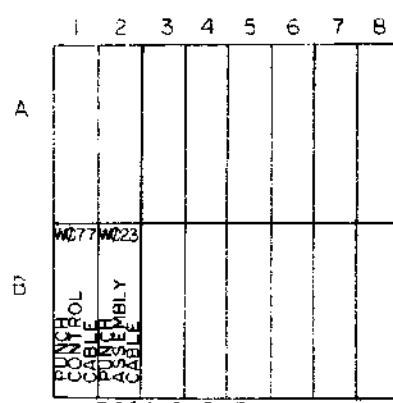
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
K110				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
.XXX - .005	± 0° 30'	digital EQUIPMENT CORPORATION		
.XXX - .02		TITLE		
.X ± .1		PUNCH		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL NEXT HIGHER ASSY.				
A-ML-PC04-0				
FINISH SCALE				
SHEET 1 OF 1				
SIZE CODE			NUMBER	REV.
D BS			PC04-CL-PNCH	
DIST.				

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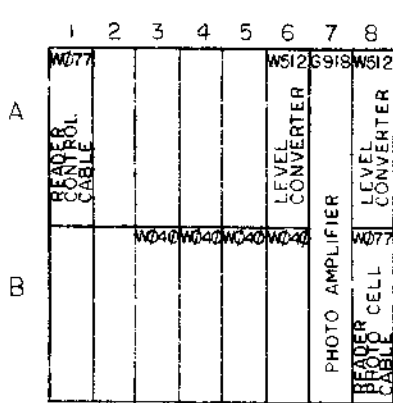
NOTES:
 1. G918 REVISION MUST BE "B" CIRCUIT SCHEMATIC, "D" ETCHED BOARD OF HIGHER.
 2. * 50 HZ VARIATION



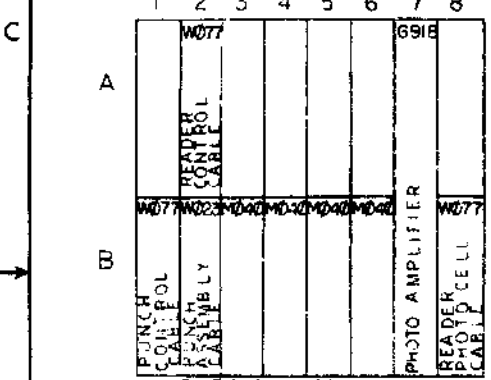
PC04-B-BA*-C-CA*
 (SEE E-AD-7006268-2-0 WITH NOTE 4; PDP-8/S, 8/KA10)



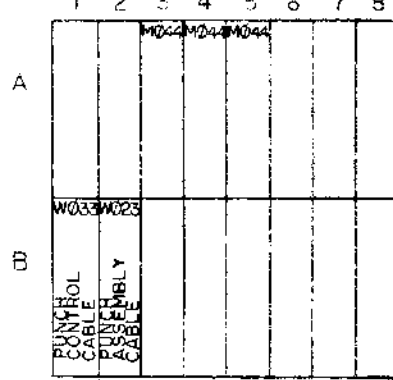
PC04-P-PA*
 (SEE E-AD-7006268-0-0 WITH NOTE 4; PDP-8/S)



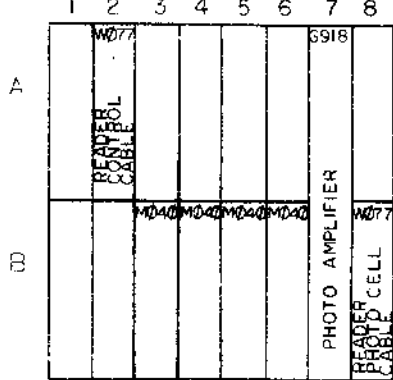
PC04-R
 (SEE E-AD-7006268-0-0 WITH NOTE 4; PDP-8/S)



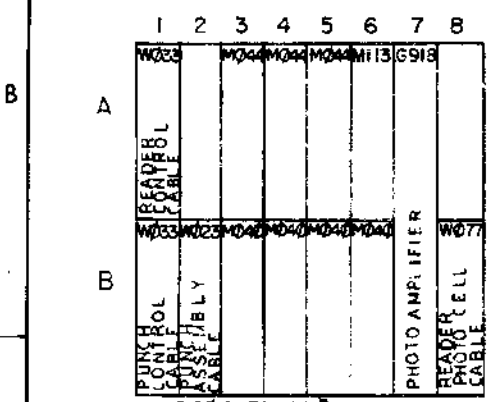
PC04-BB-BC*
 (7006268-0; PDP-8/I)



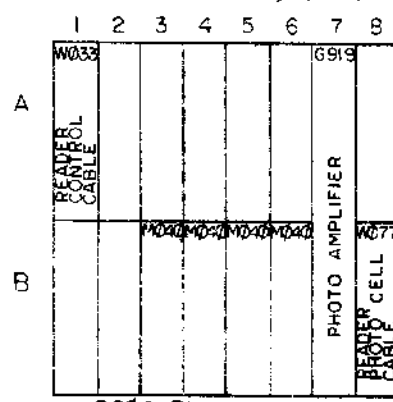
PC04-PL-PM*
 (7006268-1; PDP-8/L, 8/E, 8/M, 8/F)



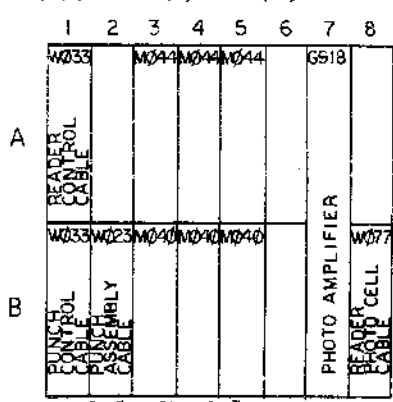
PC04-RB
 (7006268-0; PDP-8/I)



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



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



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

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

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04-0				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES			
.XX - .006	±0° 30'			
.XX - .00				
.X - .1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL				
NEXT HIGHER ASSY.				
FINISH				
PARTS LIST				
DRN. P. MARCOTT DATE 6-2-69				
CHK'D. R. CARVELLI DATE 6-5-69				
ENG. G. BECKNER DATE 6-6-69				
PROJ. ENG. G. BECKNER DATE 6-6-69				
PROJ. R. ANTONUCCIO DATE 6-6-69				
TITLE				
MODULE UTILIZATION LIST PC04				
A-ML-PC04			SIZE CODE	NUMBER
SCALE			DMU	PC04-0-3
SHEET 1 OF 1			DIST.	

REV D
 PC04-0-3

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				QUANTITY/VARIATION													
PARTS LIST				PC04-B-0	PC04-BA-0	PC04-C-0	PC04-CA-0	PC04-P-0	PC04-PA-0	PC04-R-0	PC04-BB-0	PC04-BC-0	PC04-RB-0				
MADE BY P. MARCOTTE		CHECKED <i>R. Carvelli</i>		SECTION 1													
DATE		DATE 6/5/69		ISSUED SECT. 1													
ENG <i>G. Beckner</i>		PROD															
DATE 6/6/69		DATE															
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION															
1	G918 *	PHOTO AMPLIFIER		1	1	1	1	-	-	1	1	1					
2	M502	NEGATIVE INPUT CONVERTER		1	1	1	1	1	1	1							
3	W040	SOLENOID DRIVER		4	4	4	4	-	-	4	-	-	-	-	-	-	-
4	W512	POSITIVE LEVEL CONVERTER		2	2	2	2	-	-	2	-	-	-	-	-	-	-
5	M040	SOLENOID DRIVER (+ 8I)		-	-	-	-	-	-	-	4	4	4				
6	M044	SOLENOID DRIVER (+8L)															
7	M113	10-2 INPUT NAND GATE															
* NOTE: G918 MUST BE D BOARD REV OR HIGHER																	
TITLE MODULE UTILIZATION				ASSY NO. D-MU-PC04-0-3				SIZE CODE A PL		NUMBER PC04-0-3				REV D		ECO NO. PC04-00055	
SHEET 1 OF 2				DIST.													

DEC FORM NO. DRA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				QUANTITY/VARIATION													
PARTS LIST				PC04-BL-0	PC04-BM-0	PC04-PL-0	PC04-PM-0	PC04-CL, -CM	PC04-RL								
MADE BY P. MARCOTTE		CHECKED R. CARVELLI		SECTION 1													
DATE		DATE 6/5/69		ISSUED SECT. 1													
ENG G. BECKNER		PROD ANTONNUCIO															
DATE 6/6/69		DATE 6/6/69															
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION															
1	G918 *	PHOTO AMPLIFIER		1	1	-	-	1	1								
2																	
3	W040	SOLENOID DRIVER (-)		-	-	-	-	-	-								
4	W512	POSITIVE LEVEL CONVERTER		-	-	-	-	-	-								
5	M040	SOLENOID DRIVER (+)		4	4	-	-	4	4								
6	M044	SOLENOID DRIVER (+ 8L)		3	3	3	3	3	-								
7	M113	10-2 INPUT NAND GATE		1	1	1	1	-	-								
* NOTE: G918 MUST BE D REV BOARD OR HIGHER																	
TITLE MODULE UTILIZATION				ASSY NO. D-MU-PC04-0-3				SIZE CODE A PL		NUMBER PC04-0-3				REV D		ECO NO.	
SHEET 2 OF 2				DIST.													

DEC FORM NO. DRA 110

LEGEND		
PART #	MODEL USED ON	WIRELIST
7006268-0	PC04-B, BA, BB, BC, C, CA, D, DA, E, EB	K-WL-PC04-0-5
7006268-1	PC04-BL, BM, 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 GROUND TO GND LUG AS SHOWN.
 - USE BLUE WIRE (ITEM 4) FOR HAND WRAPPED WIRING.
 - PPPS/RS/9/MA:0
TO CONVERT 7006268-0 BLOCK PACK TO NEG. LOGIC MACHINES, DO FOLLOWING:
A REMOVE TRANSISTORS IN READER FEED SWITCH ASSY
B WIRE CHANGES
C DELETE - 808S-807E
ADL - 802N-803H
D 803E 807E
E 802B 801N
F DELETE 100-RES STOP FROM 802A-802F

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A83A	A83C	6.8µF
11	CAP	-	B83B	B83C	4 6.8µF

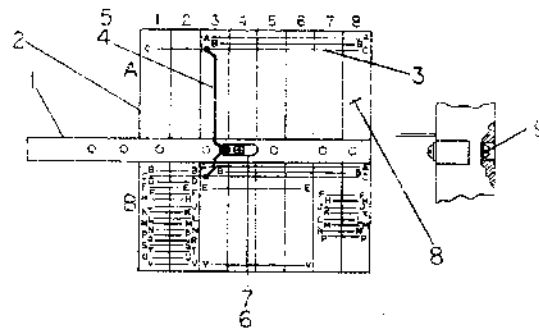
7006268-2

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A83A	A83C	
11	CAP	-	B83B	B83C	
12	RES		A88A	A88F	100Ω
13	RES		A88E	A88C	100Ω

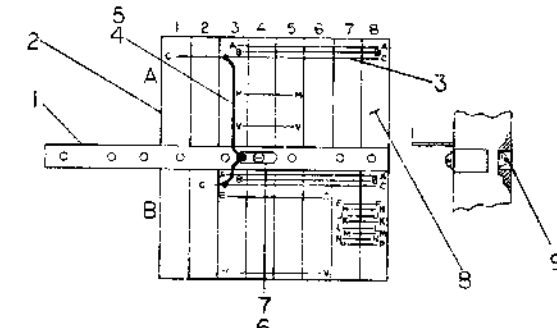
7006268-1

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A83A	A83C	
11	CAP	-	B83B	B83C	
12	RES		A88A	A88F	100Ω

7006268-0



7006268-0
(8.8S, 8F)



7006268-1
(8L, 8E, 8M, 8F)
7006268-2
(KI 10)

REV	DATE	BY	DESCRIPTION
1	10/1/68	R. MULLEN	INITIAL DESIGN
2	10/15/68	R. CARVELL	REVISED FOR MANUFACTURE
3	10/20/68	R. CARVELL	REVISED FOR MANUFACTURE
4	10/25/68	R. CARVELL	REVISED FOR MANUFACTURE
5	10/30/68	R. CARVELL	REVISED FOR MANUFACTURE
6	11/5/68	R. CARVELL	REVISED FOR MANUFACTURE
7	11/10/68	R. CARVELL	REVISED FOR MANUFACTURE
8	11/15/68	R. CARVELL	REVISED FOR MANUFACTURE
9	11/20/68	R. CARVELL	REVISED FOR MANUFACTURE
10	11/25/68	R. CARVELL	REVISED FOR MANUFACTURE
11	12/1/68	R. CARVELL	REVISED FOR MANUFACTURE
12	12/5/68	R. CARVELL	REVISED FOR MANUFACTURE
13	12/10/68	R. CARVELL	REVISED FOR MANUFACTURE
14	12/15/68	R. CARVELL	REVISED FOR MANUFACTURE
15	12/20/68	R. CARVELL	REVISED FOR MANUFACTURE
16	12/25/68	R. CARVELL	REVISED FOR MANUFACTURE
17	1/1/69	R. CARVELL	REVISED FOR MANUFACTURE
18	1/5/69	R. CARVELL	REVISED FOR MANUFACTURE
19	1/10/69	R. CARVELL	REVISED FOR MANUFACTURE
20	1/15/69	R. CARVELL	REVISED FOR MANUFACTURE
21	1/20/69	R. CARVELL	REVISED FOR MANUFACTURE
22	1/25/69	R. CARVELL	REVISED FOR MANUFACTURE
23	2/1/69	R. CARVELL	REVISED FOR MANUFACTURE
24	2/5/69	R. CARVELL	REVISED FOR MANUFACTURE
25	2/10/69	R. CARVELL	REVISED FOR MANUFACTURE
26	2/15/69	R. CARVELL	REVISED FOR MANUFACTURE
27	2/20/69	R. CARVELL	REVISED FOR MANUFACTURE
28	2/25/69	R. CARVELL	REVISED FOR MANUFACTURE
29	3/1/69	R. CARVELL	REVISED FOR MANUFACTURE
30	3/5/69	R. CARVELL	REVISED FOR MANUFACTURE
31	3/10/69	R. CARVELL	REVISED FOR MANUFACTURE
32	3/15/69	R. CARVELL	REVISED FOR MANUFACTURE
33	3/20/69	R. CARVELL	REVISED FOR MANUFACTURE
34	3/25/69	R. CARVELL	REVISED FOR MANUFACTURE
35	4/1/69	R. CARVELL	REVISED FOR MANUFACTURE
36	4/5/69	R. CARVELL	REVISED FOR MANUFACTURE
37	4/10/69	R. CARVELL	REVISED FOR MANUFACTURE
38	4/15/69	R. CARVELL	REVISED FOR MANUFACTURE
39	4/20/69	R. CARVELL	REVISED FOR MANUFACTURE
40	4/25/69	R. CARVELL	REVISED FOR MANUFACTURE
41	5/1/69	R. CARVELL	REVISED FOR MANUFACTURE
42	5/5/69	R. CARVELL	REVISED FOR MANUFACTURE
43	5/10/69	R. CARVELL	REVISED FOR MANUFACTURE
44	5/15/69	R. CARVELL	REVISED FOR MANUFACTURE
45	5/20/69	R. CARVELL	REVISED FOR MANUFACTURE
46	5/25/69	R. CARVELL	REVISED FOR MANUFACTURE
47	6/1/69	R. CARVELL	REVISED FOR MANUFACTURE
48	6/5/69	R. CARVELL	REVISED FOR MANUFACTURE
49	6/10/69	R. CARVELL	REVISED FOR MANUFACTURE
50	6/15/69	R. CARVELL	REVISED FOR MANUFACTURE
51	6/20/69	R. CARVELL	REVISED FOR MANUFACTURE
52	6/25/69	R. CARVELL	REVISED FOR MANUFACTURE
53	7/1/69	R. CARVELL	REVISED FOR MANUFACTURE
54	7/5/69	R. CARVELL	REVISED FOR MANUFACTURE
55	7/10/69	R. CARVELL	REVISED FOR MANUFACTURE
56	7/15/69	R. CARVELL	REVISED FOR MANUFACTURE
57	7/20/69	R. CARVELL	REVISED FOR MANUFACTURE
58	7/25/69	R. CARVELL	REVISED FOR MANUFACTURE
59	8/1/69	R. CARVELL	REVISED FOR MANUFACTURE
60	8/5/69	R. CARVELL	REVISED FOR MANUFACTURE
61	8/10/69	R. CARVELL	REVISED FOR MANUFACTURE
62	8/15/69	R. CARVELL	REVISED FOR MANUFACTURE
63	8/20/69	R. CARVELL	REVISED FOR MANUFACTURE
64	8/25/69	R. CARVELL	REVISED FOR MANUFACTURE
65	9/1/69	R. CARVELL	REVISED FOR MANUFACTURE
66	9/5/69	R. CARVELL	REVISED FOR MANUFACTURE
67	9/10/69	R. CARVELL	REVISED FOR MANUFACTURE
68	9/15/69	R. CARVELL	REVISED FOR MANUFACTURE
69	9/20/69	R. CARVELL	REVISED FOR MANUFACTURE
70	9/25/69	R. CARVELL	REVISED FOR MANUFACTURE
71	10/1/69	R. CARVELL	REVISED FOR MANUFACTURE
72	10/5/69	R. CARVELL	REVISED FOR MANUFACTURE
73	10/10/69	R. CARVELL	REVISED FOR MANUFACTURE
74	10/15/69	R. CARVELL	REVISED FOR MANUFACTURE
75	10/20/69	R. CARVELL	REVISED FOR MANUFACTURE
76	10/25/69	R. CARVELL	REVISED FOR MANUFACTURE
77	11/1/69	R. CARVELL	REVISED FOR MANUFACTURE
78	11/5/69	R. CARVELL	REVISED FOR MANUFACTURE
79	11/10/69	R. CARVELL	REVISED FOR MANUFACTURE
80	11/15/69	R. CARVELL	REVISED FOR MANUFACTURE
81	11/20/69	R. CARVELL	REVISED FOR MANUFACTURE
82	11/25/69	R. CARVELL	REVISED FOR MANUFACTURE
83	12/1/69	R. CARVELL	REVISED FOR MANUFACTURE
84	12/5/69	R. CARVELL	REVISED FOR MANUFACTURE
85	12/10/69	R. CARVELL	REVISED FOR MANUFACTURE
86	12/15/69	R. CARVELL	REVISED FOR MANUFACTURE
87	12/20/69	R. CARVELL	REVISED FOR MANUFACTURE
88	12/25/69	R. CARVELL	REVISED FOR MANUFACTURE
89	1/1/70	R. CARVELL	REVISED FOR MANUFACTURE
90	1/5/70	R. CARVELL	REVISED FOR MANUFACTURE
91	1/10/70	R. CARVELL	REVISED FOR MANUFACTURE
92	1/15/70	R. CARVELL	REVISED FOR MANUFACTURE
93	1/20/70	R. CARVELL	REVISED FOR MANUFACTURE
94	1/25/70	R. CARVELL	REVISED FOR MANUFACTURE
95	2/1/70	R. CARVELL	REVISED FOR MANUFACTURE
96	2/5/70	R. CARVELL	REVISED FOR MANUFACTURE
97	2/10/70	R. CARVELL	REVISED FOR MANUFACTURE
98	2/15/70	R. CARVELL	REVISED FOR MANUFACTURE
99	2/20/70	R. CARVELL	REVISED FOR MANUFACTURE
100	2/25/70	R. CARVELL	REVISED FOR MANUFACTURE

PC04	DESCRIPTION	PART NO.	REV.
PC04	WIRE ASSY	7006268-0-0	1
EQUIPMENT CORPORATION		TITLE	
(PC04)		WIRE ASSY	
D-1A-PC04-0		SCALE	
EAG 7006268-0-0		DATE	
REV.		BY	
1		R. CARVELL	
2		R. CARVELL	
3		R. CARVELL	
4		R. CARVELL	
5		R. CARVELL	
6		R. CARVELL	
7		R. CARVELL	
8		R. CARVELL	
9		R. CARVELL	
10		R. CARVELL	
11		R. CARVELL	
12		R. CARVELL	
13		R. CARVELL	
14		R. CARVELL	
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27		R. CARVELL	
28		R. CARVELL	
29		R. CARVELL	
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43		R. CARVELL	
44		R. CARVELL	
45		R. CARVELL	
46		R. CARVELL	
47		R. CARVELL	
48		R. CARVELL	
49		R. CARVELL	
50		R. CARVELL	

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

QUANTITY / VARIATION

MADE BY	ROBERT TUPNAK	CHECKED	<i>Carroll</i>	SECTION	1
DATE	2/20/69	DATE	5/5/69	ISSUED SECT.	1
ENG		PROD			
DATE	<i>Leaf 4/4/69</i>	DATE			

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION																	
			7006268-0	7006268-1	7006268-2															
1	B-IA-7407077-0-0	MFG BAR 6 IN.	1	1	1															
2	1202244	144 PIN CONN BLOCK WRAPTYP	2	2	2															
3	1202188	BUS BAR SERG NO. 3584-032	A	RA	RA	R														
4	9107560-1	#22 AWG BUS WIRE	A	R	RA	RA	R													
5	9107265	#22 TUBING, TEFLON, WHITE	A	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	RA	RA	R														
9	9007641	SCR PHL FLL 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%																		
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 CODE	A PL	NUMBER	7006268-0-0	REV.	H	ECO NO.	PC04-00055
		SHEET	1	OF	1	DIST.	G				

DEC FORM NO. DRA 110

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION				DATE 11/11/69		
TITLE PC04 Engineering Specification						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A		PC04-00046	M. LEIS		M	3-17-77

General Information:

The PC04 comes in eight (8) configurations. They are the PC04P, PL (basic punch), PC04R, RB (basic reader), PC04B, BB, BL (punch and reader), and PC04C (punch, SCR, and reader). The 50 cycle variations are PC04PA, PM, PC04BA, EC, EM, and PC04CA with no variation in PC04R and RB. Table 1-1 gives the block schematic references, UMI, interface cables, and the applicable computers.

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

Logic Levels: Positive Logic Systems

	Outputs	Inputs
Logic 1 is	>+2.4v	>+2.0v
Logic 0	<+0.4v	<+0.8v

Reader Signals:

Reference drawing BS-D-PC04-0-2

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

The timing chart and graph for these signals would be:

ENG <i>Charles A. Young</i>	APPD <i>Lee P. ...</i>	SIZE A	CODE SP	NUMBER PC04-0-4	REV A
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SHEET 1 OF 7

CONTINUATION SHEET			
TITLE PC04 Engineering Specification			
<p>(5) The eight data holes also require a 10 msec. level to activate the punches.</p> <p>(6) Out-of-tape signal is generated from a micro-switch on the punch. It is at ground when the punch is out-of-tape.</p> <p>(7) Punch feed switch is used to manually feed tape through the punch.</p> <p>(8) The -3 volt or +5v supply is a bias on the punch sync coil.</p> <p>(9) The punch on/off power switch is used in the options not using the SCR driver. It simply supplies 115 volts to the punch motor.</p> <p>Power Supply</p> <p>(1) Regulated +5 volts \pm .25 volts (2) Regulated -15 volts \pm 1.0 volt (3) -36 volts \pm 4 volts</p> <p>Power Requirements</p> <p>Unit will run at 50 or 60 cycles, 115 volts \pm 10%. 2.5 AMPS run 4 AMPS surge</p> <p>Reader</p> <p>(a) Temperature (1) 55° - 110°F operating, 10° - 150°F non-operating</p> <p>(b) Humidity (1) 20% - 95% w/o condensation operating; 5% - 95% w/o condensation non-operating.</p> <p>(c) Speed (1) 300 - 310 characters/second full speed. (2) 20 - 26 character/second single character rate.</p> <p>(d) Type of tape (1) non-OI (less than 12% transmissivity)</p> <p>(e) Tape Life: Acceleration de-accelerate type operation = 30,000 cycles.</p>			

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

CONTINUATION SHEET												
TITLE PC04 Engineering Specification												
<p>(2) Power (1) serves the function of supplying only half current to the stepping motor when the motor is stopped. This signal is 0 volts when the motor is stopped and -3 volts when the motor is active for negative logic systems and >+2.0 volts when motor is active and <+0.8 v when the motor is stopped for positive logic systems.</p> <p>(3) The reader feed switch is simply an off line means of moving tape through the reader. A ground level performs this function.</p> <p>(4) The reader on/off line switch allows the operator to disable the unit from reading by putting the switch in the off-line position.</p> <p>(5) The reader on/off line switch is open whenever the reader is off line, and is >2.4V when the reader is on line.</p> <p>(6) Data Output Lines:</p> <table style="width: 100%; border: none;"> <thead> <tr> <th></th> <th style="text-align: center;">Hole</th> <th style="text-align: center;">No Hole</th> </tr> </thead> <tbody> <tr> <td>Negative Systems</td> <td style="text-align: center;">-3 volts</td> <td style="text-align: center;">0 volts</td> </tr> <tr> <td>Positive Systems</td> <td style="text-align: center;">+2.4 volts</td> <td style="text-align: center;">0 volts</td> </tr> </tbody> </table> <p>Punch Signals:</p> <p>Refer to drawing BS-D-PC04-0-2</p> <p>(1) The interface signal used to turn on the punch motor with an SCR driver option is Gnd when active and open or -3v when inactive.</p> <p>(2) The -36 volt is supplied to the solenoid coils on the punch motor and also to the solenoid drivers at the external control.</p> <p>(3) Punch sync is the signal generated from the sync timing wheel on the punch. Equally spaced (in time) positive and negative pulses (one each) for each shaft revolution is generated on this line.</p> <p>(4) Forward tape and punch feed hole: A ground level for 10 msec. \pm 10% will punch feed hole and then advance the tape forward in preparation for another cycle for all configurations except PC04PL and BL when the solenoid drivers are activated by a +2.0v signal.</p>					Hole	No Hole	Negative Systems	-3 volts	0 volts	Positive Systems	+2.4 volts	0 volts
	Hole	No Hole										
Negative Systems	-3 volts	0 volts										
Positive Systems	+2.4 volts	0 volts										

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

CONTINUATION SHEET			
TITLE PC04 Engineering Specification			
<p>Punch</p> <p>(a) Temperature (1) 55° - 110°F operating; 10° - 150°F non-operating</p> <p>(b) Humidity (1) 20% - 95% w/o condensation - operating (2) 5% - 95% w/o condensation - non-operating</p> <p>(c) Tension of tape supply (1) Not to exceed 6 ounces</p> <p>(d) Speed (1) 50 characters/second \pm 5%</p> <p>Margins</p> <p>+5v is +5v \pm .5v -15v is -15v \pm 20% -30v is -36v \pm 15%</p>			

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

CONTINUATION SHEET					
TITLE PC04 Engineering Specification					
	TABLE 1-1 PC04 Configuration				
PC04P	D/BS/PC04-0-2 Page 1 of 3	None	1-W077A	N/A	PDP8; PDP8/S; PDP8/L
PC04PL	D/BS/PC04-0-2 Page 1 of 3	3-M044	1-M033A	N/A	PDP8/L; PDP8/S
PC04R	D/BS/PC04-0-2 Page 1 of 3	N/A	1-W077A	1-G91B 4-M040 2-MS12	PDP8; PDP8/S
PC04RB	D/BS/PC04-0-2 Pages 2 and 3 of 3	N/A	1-W077A	1-G91B 4-M040 2-MS12	PDP8/L; PDP8/L PDP8/E
PC04B	D/BS/PC04-0-2 Page 1 of 3	None	2-W077A	1-G91B 4-M040 2-MS12	PDP8; PDP8/S
PC04BB	D/BS/PC04-0-2 Page 2 of 3	None	2-W077A	1-G91B 4-M040	PDP8/L
PC04BL	D/BS/PC04-0-2 Page 3 of 3	3-M044	2-M033C	1-G91B 4-M040	PDP8/L; PDP8/E
PC04C	D/BS/PC04-0-2 Page 1 of 3	None	2-W077A	1-G91B 4-M040 2-MS12	PDP8; PDP8/L PDP8/E
SIZE	CODE	NUMBER	REV		
A	SP	PC04-D-4	A		

DEC FORM NO
DRA 108A

SHEET 5 OF 7

CONTINUATION SHEET					
TITLE PC04 Engineering Specification - Test Procedure for Reader					
<p>B. -15 volts on A08B and B08B (± 1 volts).</p> <p>C. -30 volts on B06V and B02D (-32 to -40 volts).</p> <p>3. Shut power off and insert modules for PC04.</p> <p>4. Apply power and make same check as in 2.</p> <p>5. Put cap. (6.8uF, 10-5306) between pins A03A (+) and A03C (-) and between pins B03C (+) and B03B (-).</p>					
SIZE	CODE	NUMBER	REV		
A		PC04-D-4	A		

DEC FORM NO 16-1022
DRA 108

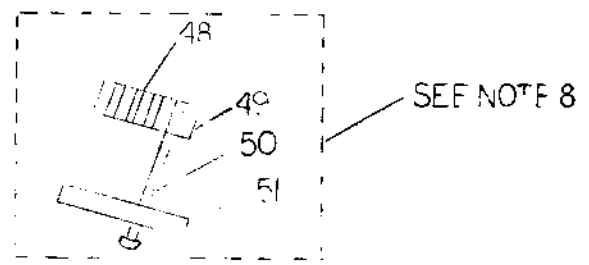
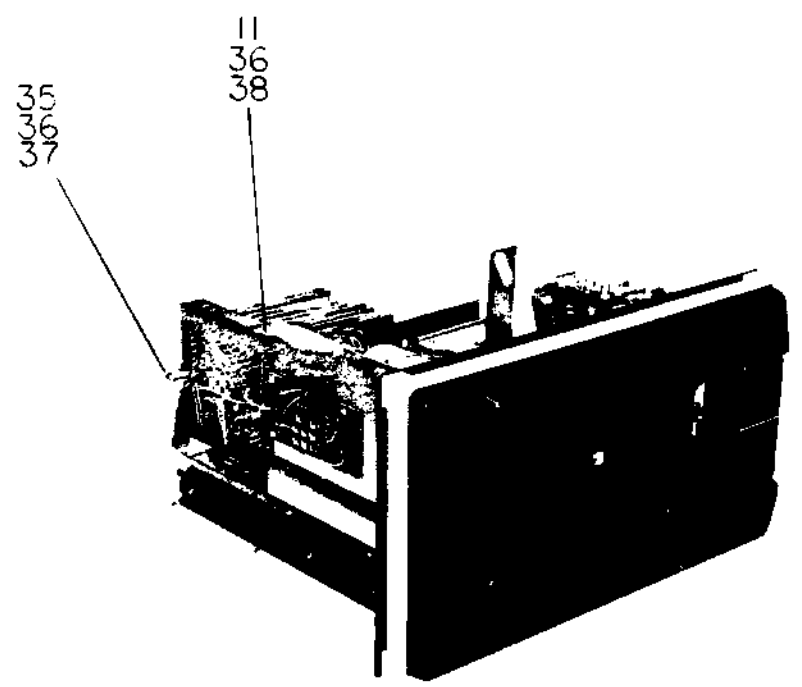
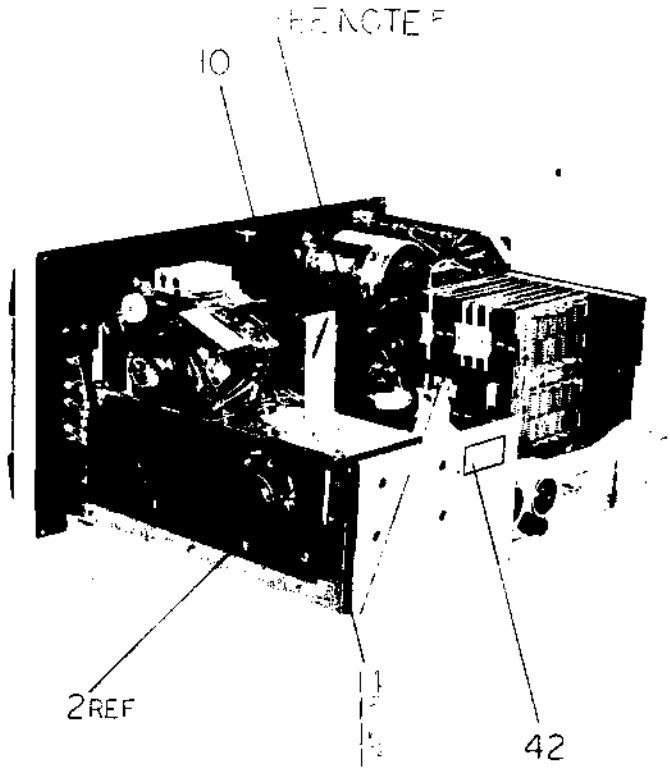
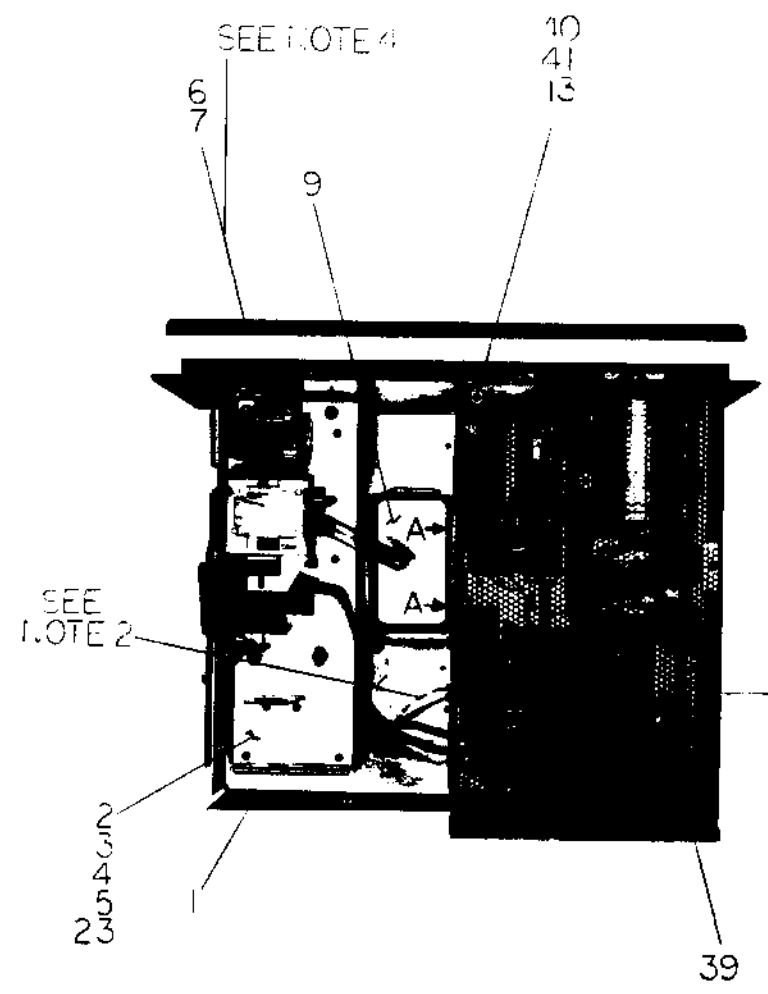
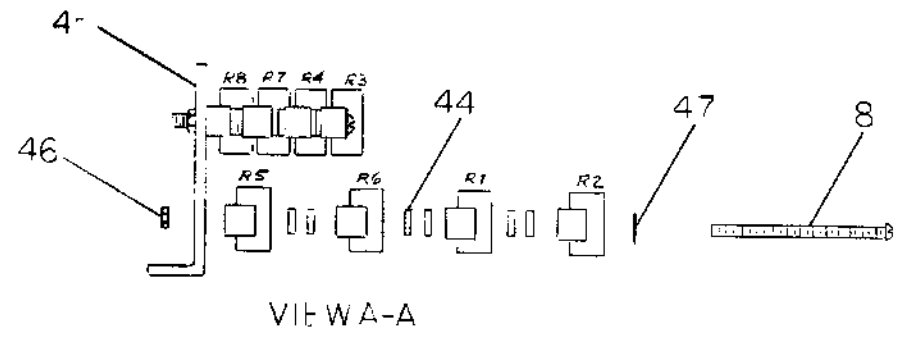
SHEET 7 OF 7

CONTINUATION SHEET																																									
TITLE PC04 Engineering Specification - Test Procedure for reader																																									
<p>1. Do not apply power until the following checks are made.</p> <ol style="list-style-type: none"> Logic block empty. A01A, A02A, A01B, A02B, B01A, and B02A are bare (no wiring or bussing). B01B and D02B should be bussed together without any wires on them except for the PC04C configuration when a white/green wire will be on B01B. Remove reader lamp. Check caps for proper polarity in wiring. Put ohmmeter on X100 scale and check regulator board tabs 1 thru 5 and 7 for lack of short to ground. Tabs 6 and 8 should indicate a short to ground. Check fuses for proper rating. Also, should be slo/blo. Check for continuity between reader lamp ground slot and chassis ground. Check the following wires for proper connection. <table border="1"> <thead> <tr> <th>Color</th> <th>Location</th> <th>Color</th> <th>Location</th> </tr> </thead> <tbody> <tr> <td>+black (str)</td> <td>B06C</td> <td>*wh/blue</td> <td>A07B</td> </tr> <tr> <td>#wh/black (str)</td> <td>B07C</td> <td>*wh/green</td> <td>B01B</td> </tr> <tr> <td>#brown (str)</td> <td>A02B A01B</td> <td>#brown (solid)</td> <td>B03R, S</td> </tr> <tr> <td>#yellow (str)</td> <td>A01V</td> <td>#orange (solid)</td> <td>B04R, S</td> </tr> <tr> <td>#wh/yellow (str)</td> <td>A08F</td> <td>#yellow (solid)</td> <td>B05R, S</td> </tr> <tr> <td>+white (str)</td> <td>B01U</td> <td>#violet (solid)</td> <td>B06R, S</td> </tr> <tr> <td>grey/red (str)</td> <td>A08A</td> <td>+punch configurations</td> <td></td> </tr> <tr> <td>grey/yellow (str)</td> <td>A08B</td> <td>*only on PC04C configuration</td> <td></td> </tr> <tr> <td>blue (str)</td> <td>B06V</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> <ol style="list-style-type: none"> +5 volts on A08A and B08A (+5 volts $\pm .25$ volts). 		Color	Location	Color	Location	+black (str)	B06C	*wh/blue	A07B	#wh/black (str)	B07C	*wh/green	B01B	#brown (str)	A02B A01B	#brown (solid)	B03R, S	#yellow (str)	A01V	#orange (solid)	B04R, S	#wh/yellow (str)	A08F	#yellow (solid)	B05R, S	+white (str)	B01U	#violet (solid)	B06R, S	grey/red (str)	A08A	+punch configurations		grey/yellow (str)	A08B	*only on PC04C configuration		blue (str)	B06V	#reader configurations	
Color	Location	Color	Location																																						
+black (str)	B06C	*wh/blue	A07B																																						
#wh/black (str)	B07C	*wh/green	B01B																																						
#brown (str)	A02B A01B	#brown (solid)	B03R, S																																						
#yellow (str)	A01V	#orange (solid)	B04R, S																																						
#wh/yellow (str)	A08F	#yellow (solid)	B05R, S																																						
+white (str)	B01U	#violet (solid)	B06R, S																																						
grey/red (str)	A08A	+punch configurations																																							
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SIZE	CODE	NUMBER	REV																																						
A	SP	PC04-D-4	A																																						

DEC FORM NO
DRA 108A

SHEET 6 OF 7

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REV.	
CHK	
CHANGE NO.	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ±.005 ±.004 ±.030 FINISH SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL +-----+		FINISH +-----+	
DRN. DATE CHK'D. DATE ENGR. DATE PROJ. ENG. DATE PRD. DATE		digital EQUIPMENT CORPORATION BANGOR, MASSACHUSETTS TITLE PC05 READER AND PUNCH	
NEXT HIGHER ASSY A-MI-PL-0-0		SIZE CODE DUA	NUMBER PC05-0-0
SCALE 1:1		SHEET 2 OF 3	REV. R

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TRIAC DRIVER WIRE LIST

JUMPER CONNECTIONS			
WIRE	COLOR	CONNECTION	REMARKS
HARN WIRE #9	RED	T1	SEE NOTE 2
PUNCH MOT 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	TS4	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	
WHT/BLK	2	RDR SW2 TAB 2	SEE NOTE 1 SHEET 1
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	RS	

HARNESS CONNECTIONS			
COLOR	WIRE NO.	LOCATION	REMARKS
BLK	27	GND LUG	LOGIC GND
GY/YEL	29	A12B2	
GRN	31	A05V2	
BLK	28	GND LUG	LOGIC GND
GY/RED	30	A12A2	
GRN	32	A10 V2	

JUMPER CONNECTIONS

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

JUMPER CONNECTIONS

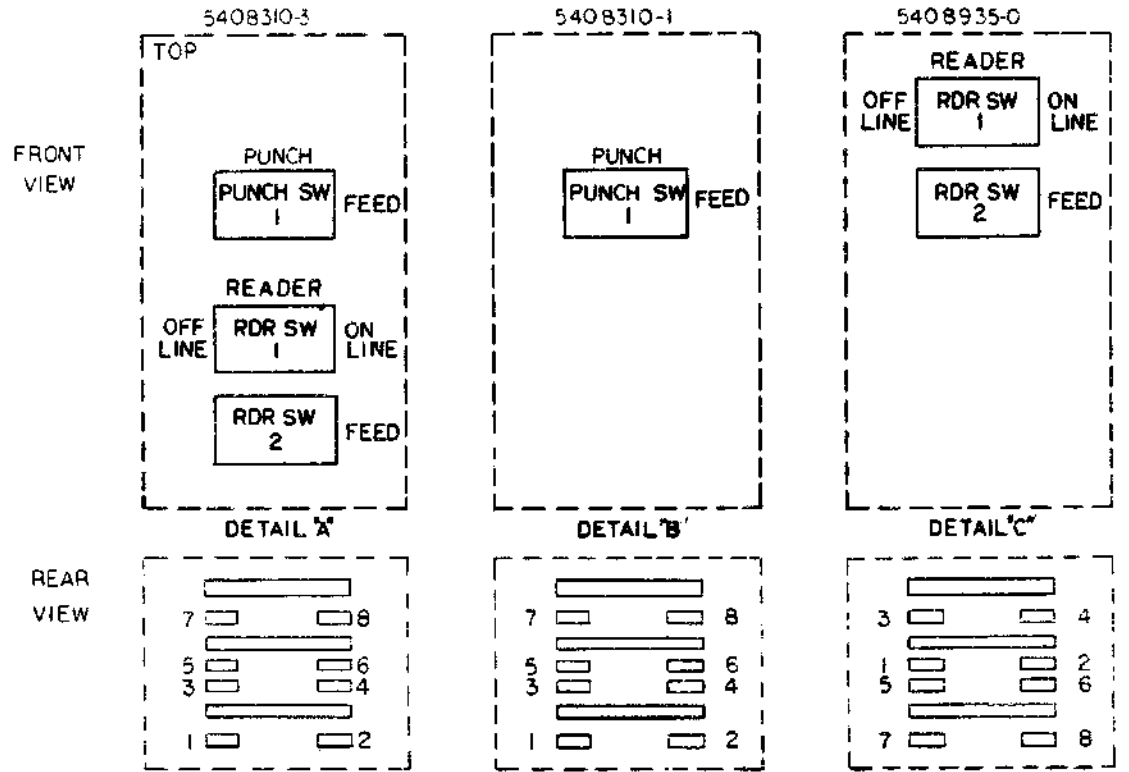
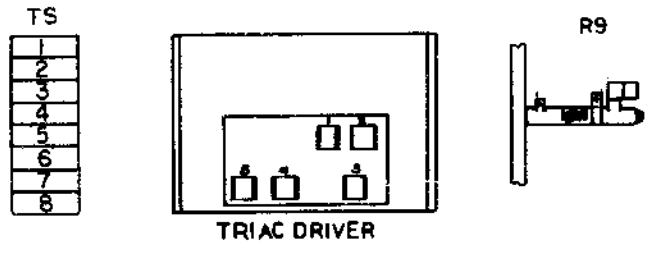
WIRE	CONNECTIONS			
ITEM NO.	COLOR	TYPE ITEM	FROM *	TO
27	WHT/VIO	NONE	R1 & R2	TS-1
28	WHT/YEL		R3 & R4	TS-2
29	WHT/ORN		R5 & R6	TS-3
30	WHT/BRN		R7 & R8	TS-4
31	VIO		R1	B08R2
31	VIO		R2	B08S2
32	YEL		R3	B07R2
32	YEL		R4	B07S2
33	ORN		R5	A10R2
33	ORN		R6	A10S2
34	BRN		R7	A09R2
34	BRN	NONE	R8	A09S2

*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	



REV.	
CHG.	

<p>PC05</p> <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES</p> <p>TOLERANCES</p> <p>DECIMAL FRACTIONS ANGLES</p> <p>± .005 ± .001 ± .005</p> <p>FINE QUALITY</p> <p>REMOVE DIMENSIONS AND HATCH FROM COPIES</p>	<p>DATE</p> <p>BY</p> <p>CHKD</p> <p>DATE</p> <p>BY</p> <p>DATE</p> <p>BY</p>	<p>DESCRIPTION</p> <p>PARTS LIST</p> <p>digital EQUIPMENT CORPORATION</p> <p>MAYFIELD, MASSACHUSETTS</p> <p>TITLE</p> <p>PC05</p> <p>READER AND PUNCH</p> <p>SCALE NONE</p> <p>SHEET 3 OF 3</p>	<p>PART NO.</p> <p>ITEM NO.</p> <p>NUMBER</p> <p>REV</p> <p>DUA PC05-0-0</p> <p>REV R</p>
---	---	---	---

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION				
PARTS LIST			PC85-C	PC85-CA	PC85-P	PC85-PA	PC85-R
MADE BY P. MARCOTTE	CHECKED <i>P. Marcotte</i>	SECTION					
DATE 6/19/69	DATE 6/24/69	ISSUED SECT.					
ENG <i>P. Marcotte</i>	PROD <i>P. Marcotte</i>	ISSUED SECT.					
DATE 7/1/69	DATE 7/2/69	ISSUED SECT.					
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	PC85-C	PC85-CA	PC85-P	PC85-PA	PC85-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			
2	D-AD-7006248-2-0	PUNCH ASSY (50 CY)	1	1			
3	9006021-1	SCR, PHL PAN HD 6-32 x 5/16 LG SST	6	6	6	6	4
4	9006560	NUT, KEPS 6-32	2	2	2	2	
5	9006070-1	SCR PHL PAN HD 10-32 x 5/16 LG SST	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 PC85	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	15	15	9	9	13
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	2	2			
16	9006801	SPACER 3/8 AF x 3/8 LG #6 HOLE	2	2			
17	C-AD-7006253-0-0	BUS BAR PC85					
18	C-AD-5408310-1-0	SWITCH ASSY			1	1	
18	C-AD-5408935-0-0	SWITCH ASSY					1
TITLE PC85 READER, PUNCH, DRIVER		ASSY NO. D-UA-PC85-β-β	SIZE CODE A PL	NUMBER PC85-β-β	REV. R	ECO NO. PC85-β-β	
SHEET 1 OF 3		DIST. G					

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION				
PARTS LIST			PC85-C	PC85-CA	PC85-P	PC85-PA	PC85-R
MADE BY P. MARCOTTE	CHECKED <i>P. Marcotte</i>	SECTION					
DATE 6/19/69	DATE 6/24/69	ISSUED SECT.					
ENG <i>P. Marcotte</i>	PROD <i>P. Marcotte</i>	ISSUED SECT.					
DATE 7/1/69	DATE 7/2/69	ISSUED SECT.					
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	PC85-C	PC85-CA	PC85-P	PC85-PA	PC85-R
40	9006024-1	SCR, PHL PAN HD 6-32 x 1/2 LG SST	6	6	2	2	6
41	9006653	WASHER, FLAT #6 SST	5	5	5	5	5
42	9008141	DEC NAME TAG	1	1	1	1	1
43	9107252-09	WHITE SINKABLE TUBING				A/RA/R	
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
47	9006635	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	1			
52	C-IA-7407134-5-0	BEZEL SWITCH			1	1	
53	9006558	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
TITLE PC85 READER, PUNCH, DRIVER		ASSY NO. D-UA-PC85-β-β	SIZE CODE A PL	NUMBER PC85-β-β	REV. R	ECO NO. PC85-β-β	
SHEET 3 OF 3		DIST. G					

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION				
PARTS LIST			PC85-C	PC85-CA	PC85-P	PC85-PA	PC85-R
MADE BY P. MARCOTTE	CHECKED <i>P. Marcotte</i>	SECTION					
DATE 6/19/69	DATE 6/24/69	ISSUED SECT.					
ENG <i>P. Marcotte</i>	PROD <i>P. Marcotte</i>	ISSUED SECT.					
DATE 7/1/69	DATE 7/2/69	ISSUED SECT.					
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	PC85-C	PC85-CA	PC85-P	PC85-PA	PC85-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	9006635	WASHER, INT TOOTH #10	2	2	2	2	
24	1209896	RES, 25 OHM 40W ± 5%	8	8			8
25	9107360-99	18 AWG STRD TEFLON WHT	A/RA/R	A/RA/R	A/R	A/R	
26	9007917	SOLDERLESS CONN	6	6	6	6	4
27	9107400-97	22 AWG STRD TEFLON TRACER WHT/VIO	A/RA/R			A/R	
28	9107400-94	22 AWG STRD TEFLON TRACER WHT/YEL	A/RA/R			A/R	
29	9107400-93	22 AWG STRD TEFLON TRACER WHT/ORN	A/RA/R			A/R	
30	9107400-91	22 AWG STRD TEFLON TRACER WHT/BRN	A/RA/R			A/R	
31	9107470-77	24 AWG SOLID KYNAR VIO	A/RA/R			A/R	
32	9107470-44	24 AWG SOLID KYNAR YEL	A/RA/R			A/R	
33	9107470-33	24 AWG SOLID KYNAR ORN	A/RA/R			A/R	
34	9107470-11	24 AWG SOLID KYNAR BRN	A/RA/R			A/R	
35	9006043-1	SCR, PHL PAN HD 8-32 x 1" LG SST	1	1	1	1	1
36	9006634	WASHER INT TOOTH #8	2	2	2	2	2
37	9006823	SPACER 3/8 AF x 3/4 LG	1	1	1	1	1
38	9006040-1	SCR, PHL PAN HD 8-32 x 5/8 LG SST	1	1	1	1	1
39	E-IA-7407438-0-0	POWER SUPPLY COVER	1	1	1	1	1
TITLE PC85 READER, PUNCH, DRIVER		ASSY NO. D-UA-PC85-β-β	SIZE CODE A PL	NUMBER PC85-β-β	REV. R	ECO NO. PC85-β-β	
SHEET 2 OF 3		DIST. G					

DEC FORM NO. ORA 110

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- NOTES:**
1. DOTTED LINES INDICATE POSSIBLE CONNECTIONS BETWEEN POWER SUPPLY, READER PUNCH AND TRIAC DRIVER. SEE LEGEND.
 2. THE UNCIRCLED NUMBERS 1 THRU 17 REFER TO CONNECTIONS ON REGULATOR BOARD.
 3. THIS PHOTO-TRANSISTOR USED TO DETECT PUNCH OUT OF TAPE.
 4. CIRCLED NUMBERS 1 THRU 53 ARE WIRE NUMBERS. SEE TABLE.
 5. WIRE #15 AND #38 ARE BUSSED TOGETHER ON PC05-C, PC05-P, PC05-R MODELS ONLY. ON R MODEL THESE WIRES WILL BE CONNECTED AS USUAL TO THEIR APPROPRIATE TABS.
 6. WHEN M710 CKT REV #4 HIGHER IS USED, DELETE K303 MODULE.

WIRE TABLE

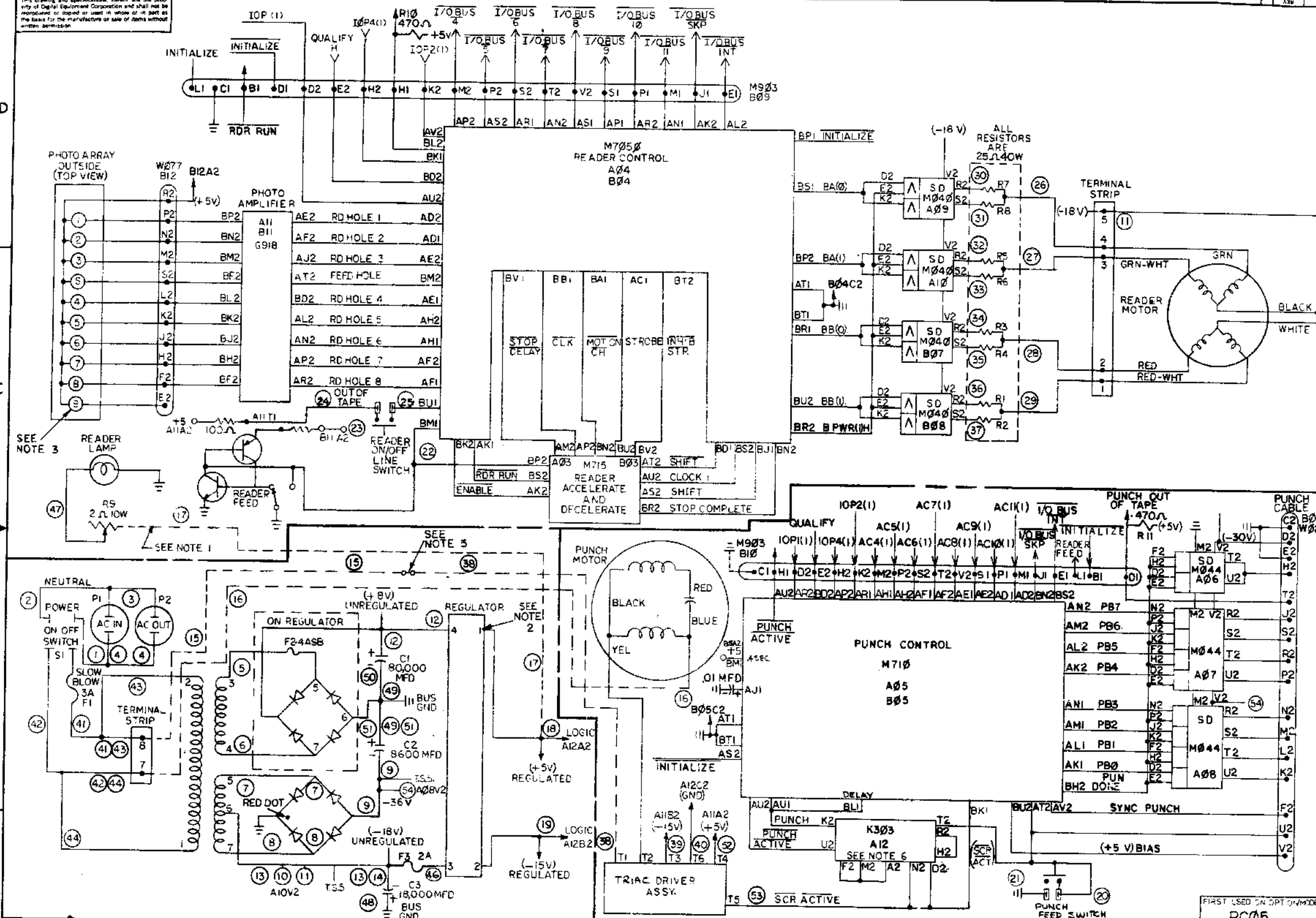
WIRE NO.	COLOR	WIRE NO.	COLOR
1	RED	24	WHITE-YELLOW
2	WHITE	25	BROWN
3	WHITE	26	WHITE-BROWN
4	RED	27	WHITE-ORANGE
5	ORANGE	28	WHITE-YELLOW
6	GRAY-BLUE	29	WHITE-VIOLET
7	GRAY-WHITE	30	BROWN
8	YELLOW	31	BROWN
9	BLUE	32	ORANGE
10	GREEN	33	ORANGE
11	GREEN	34	YELLOW
12	GRAY-VIOLET	35	YELLOW
13	GREEN	36	VIOLET
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		
23	WHITE-BLACK	46	GREEN
48 THRU 51	BLACK	47	GRAY-PED
52	GREEN	53	RED
54	BLUE		

LEGEND

CONNECTIONS	PC05-C PC05-CA	PC05-P PC05-PA	PC05-R PC05-R
PWR SUP TO READER	+5 TO READER LAMP POT -18V T.S.S.		SAME AS PC05-C PC05-CA
PWR SUP TO PUNCH	-30V TO A10V2 ON LOGIC 115V(HOT) TO TRIAC DRIVER 115V(NEUTRAL) TO PUNCH MOTOR	SAME AS PC05-C PC05-CA	
TRIAC DRVR TO PUNCH	115V HOT (OUT) TO PUNCH MOTOR	SAME AS PC05-C PC05-CA	
PWR SUP TO TRIAC DRIVER	A11B2 TO -15V INPUT A12C2 TO GND INPUT A11A2 TO +5V INPUT	SAME AS PC05-C PC05-CA	

PARTS LIST

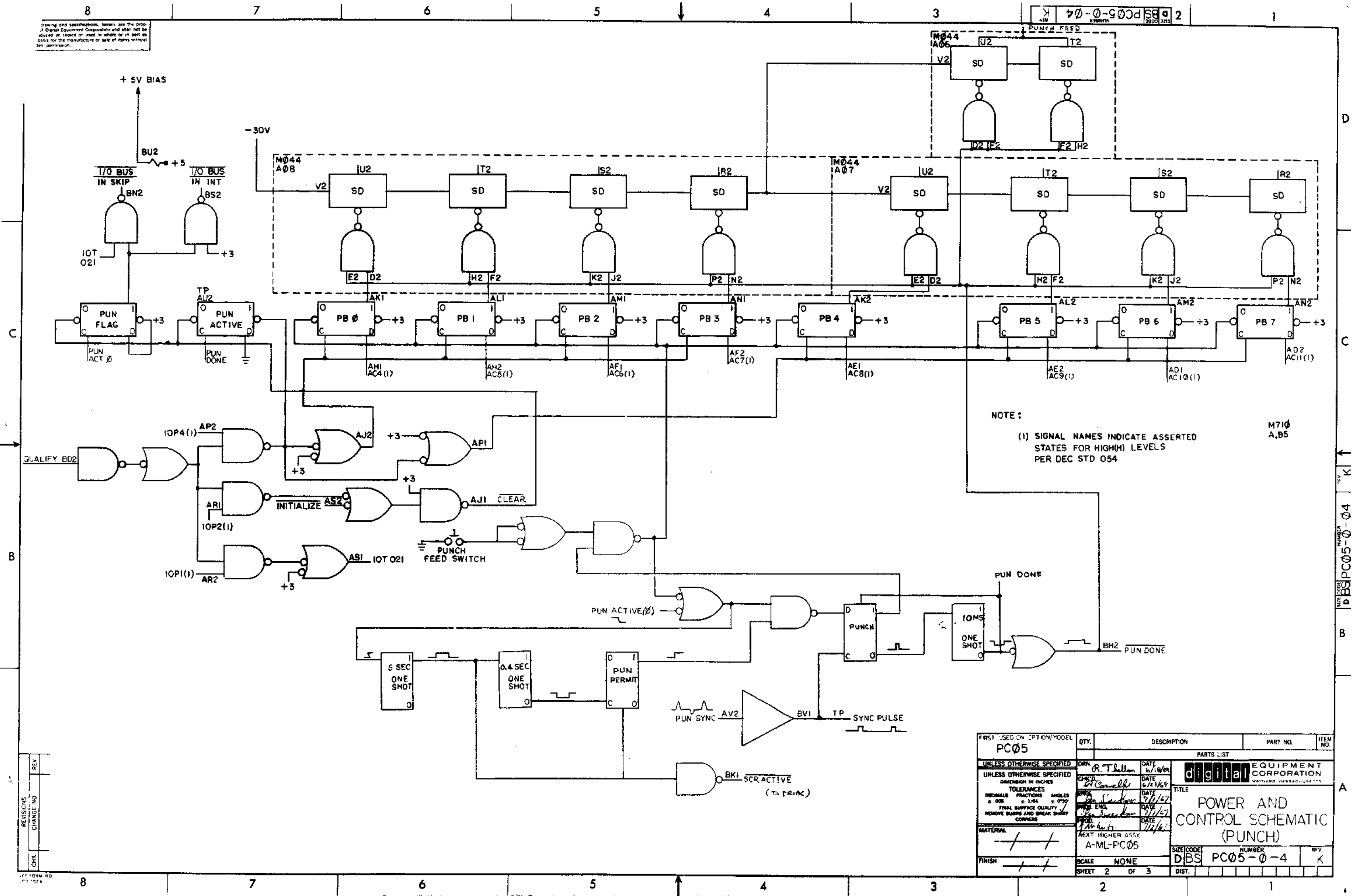
QTY.	DESCRIPTION	PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED		
	UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		
	TOLERANCES		
	DECIMALS FRACTIONS ANGLES		
	± .005 ± 1/64 ± 0°30'		
	FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		
	MATERIAL		
	FINISH		



REVISIONS

REV.	CHANGE NO.	BY	DATE
A	PC05-00003	A	
B	PC05-00005	B	
C	PC05-00016	C	
D	PC05-00023	D	
E	PC04-00025	E	
F	PC05-00021	F	
G	PC05-00022	G	
H	PC05-00022	H	
I	PC05-00024	I	
J	PC05-00024	J	
K	PC05-00026	K	
L	PC05-00026	L	
M	PC05-00026	M	
N	PC05-00026	N	
O	PC05-00026	O	
P	PC05-00026	P	
Q	PC05-00026	Q	
R	PC05-00026	R	
S	PC05-00026	S	
T	PC05-00026	T	
U	PC05-00026	U	
V	PC05-00026	V	
W	PC05-00026	W	
X	PC05-00026	X	
Y	PC05-00026	Y	
Z	PC05-00026	Z	

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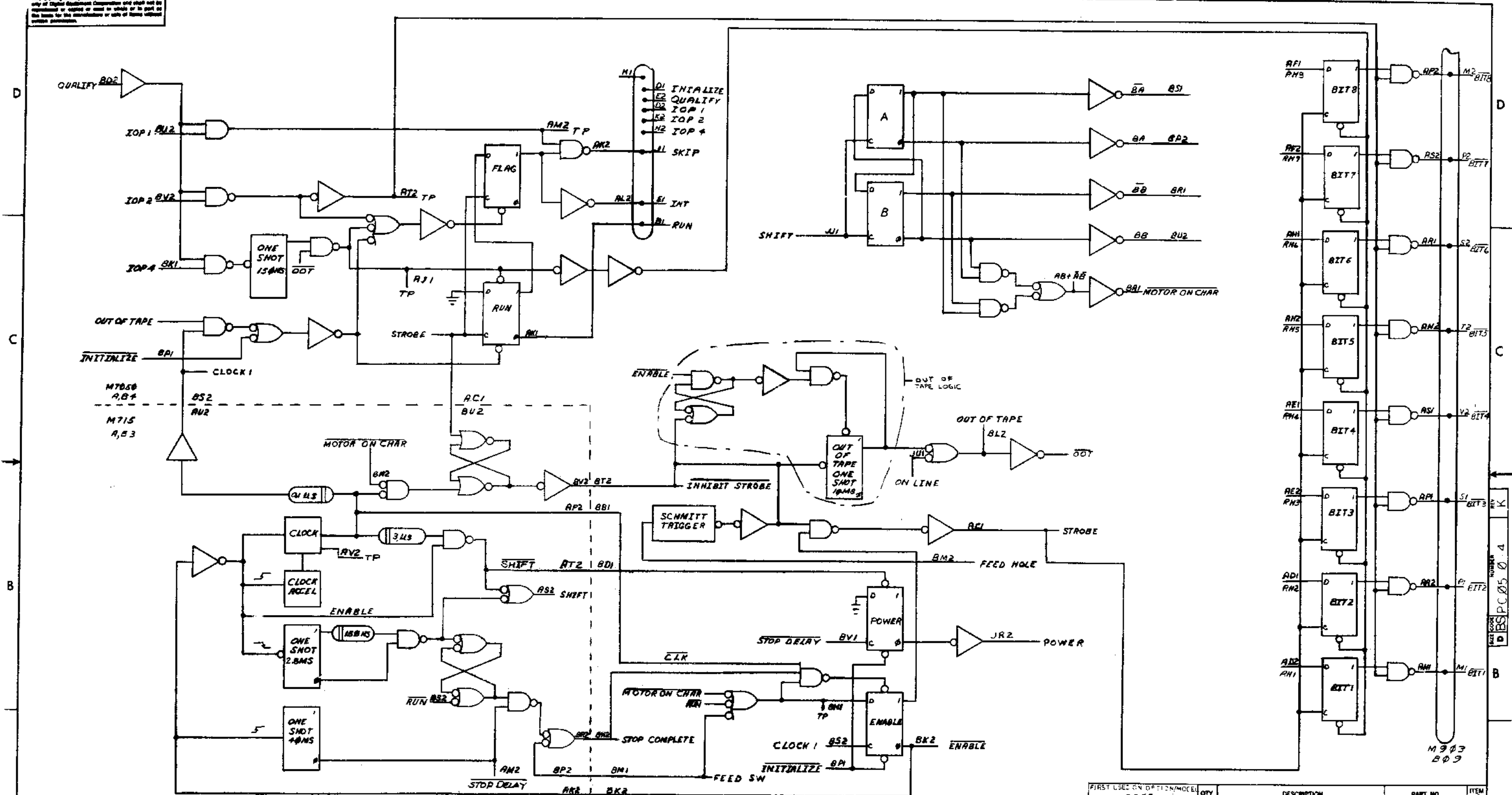
NOTE:
(1) SIGNAL NAMES INDICATE ASSERTED STATES FOR HIGH(M) LEVELS PER DEC STD 054

M710
A,B5

PC05	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. R.T. Sullivan	DATE 6/18/69	digital EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED	CHKD. G. Conwell	DATE 6/23/69	MAYFIELD MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	DESIGN. G. Conwell	DATE 7/1/67	TITLE	
ORIGINALS FRACTIONS ANGLES	DRN. ENG. G. Conwell	DATE 7/1/67	POWER AND CONTROL SCHEMATIC (PUNCH)	
± 0.05 ± 0.04 ± 0°00'	CHKD. ENG. G. Conwell	DATE 7/1/67	NEXT HIGHER ASSY.	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	PREP. G. Conwell	DATE 7/1/67	A-ML-PC05	
MATERIAL	SCALE NONE			
FINISH	SHEET 2 OF 3			
SIZE CODE D/BS		NUMBER PC05-0-4		REV. K
DIST.				

REV.	NO.

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FIRST USE OR OPTION/DATE	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DATE	 digital EQUIPMENT CORPORATION MATINEAU MASSACHUSETTS GOVERNOR POWER SCHEMATIC (READER)		
UNLESS OTHERWISE SPECIFIED	DATE			
TOLERANCES	DATE			
DECIMALS FRACTIONS ANGLES	DATE			
± .005 ± .004 ± .002	DATE	MATERIAL: A-ML-PC05-7 FINISH: NONE SCALE: NONE SHEET: 3 OF 3		
MATERIAL: A-ML-PC05-7		DATE	REV	
FINISH: NONE		DATE	K	
SHEET: 3 OF 3		DATE		

REVISIONS
 CHANGE NO. REV

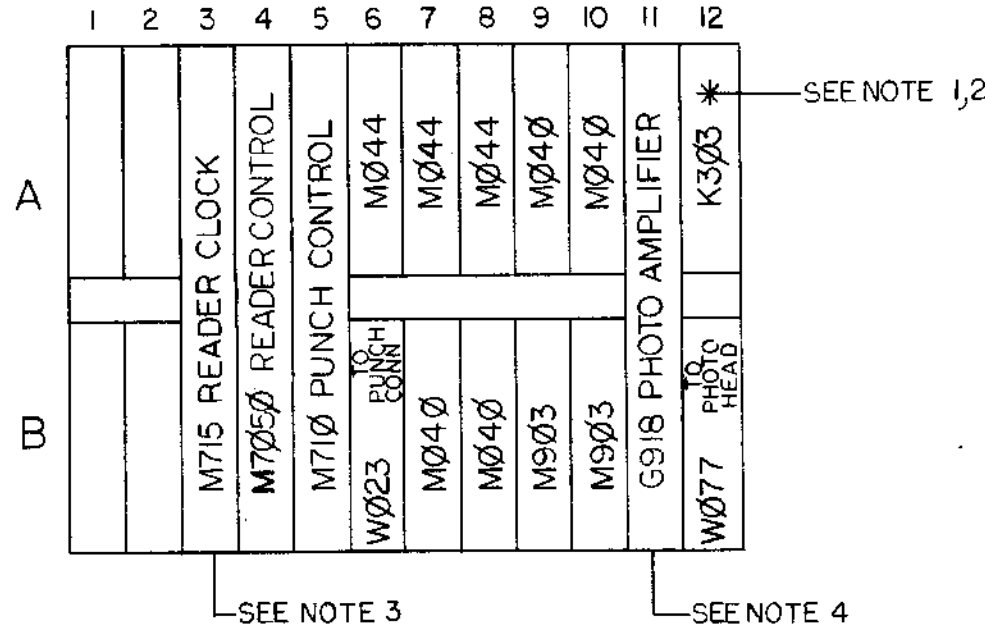
NO FORM 100A

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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. (E ETCH)
- 4 G918 MUST BE OF REVISION (B) CIRCUIT OR HIGHER. (D ETCH)



REV.	CHANGE NO.	CHK
A	PC05-00001	
B	PC05-00021	

G. BECKNER
 9-1-69
 LEIS
 3/24/71

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC05				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES		PARTS LIST		
DECIMALS ± .005	FRACTIONS ± 1/64	ANGLES ± 0°30'	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES		TITLE		
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		MODULE UTILIZATION LIST PC05		
MATERIAL		NEXT HIGHER ASSY.		
FINISH		SCALE		
		SHEET 1 OF 1		
		SIZE CODE		NUMBER
		CMU		PC05-0-3
		DST.		REV. B

REV. B
NUMBER
PC05-0-3
SIZE CODE
CMU

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

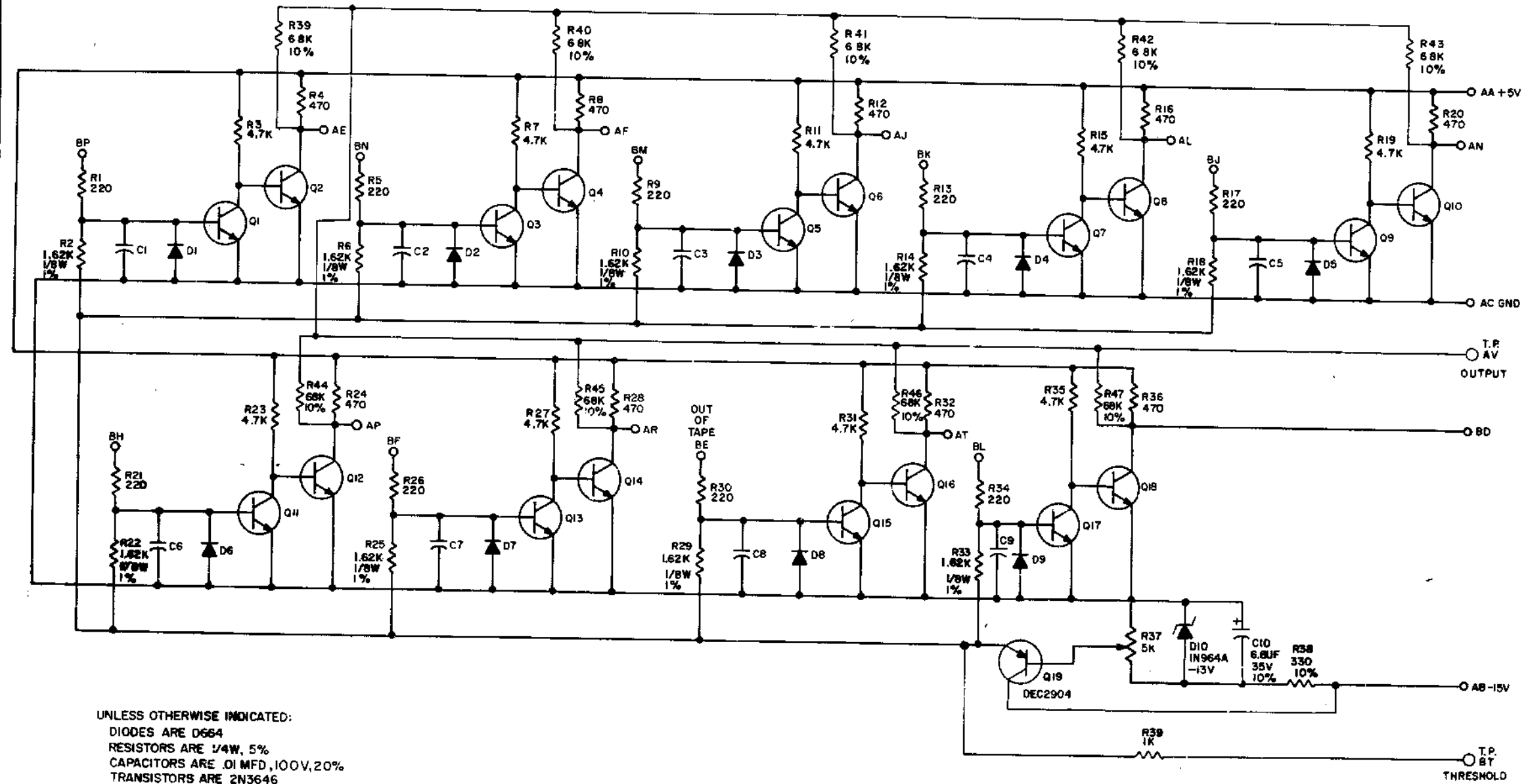
MADE BY P. MARCOTTE	CHECKED <i>R. Carrell</i>	SECTION
DATE 6/18/69	DATE 6/20/69	1
ENG <i>J. Decker</i>	PROD	ISSUED SECT.
DATE 7/1/69	DATE 7/2	1

QUANTITY / VARIATION

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION											
			PC05-C	PC05-CA	PC05-F	PC05-FA	PC05-R							
1	G918	PHOTO AMPLIFIER	1	1			1							
2	C-AD-5408231-0-0	TIMER, (M303 WITH M374, M376 & M378)	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	FUNCY 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	ASSY NO.	SIZE CODE	NUMBER	REV.	ECO NO.
MODULE UTILIZATION	C-MU-PC05-0-3	A PL	PC05-0-3	B	P05-000021
	SHEET 1 OF 1	DIS			

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION



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

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

REV.	NO.	DATE
1	00001	
2	00002	
3	00003	

DRN. R. BUTLER DATE 4/1/69
 CHK'D. C. Yanga DATE 4/1/69
 ENR. R. Abel DATE 6/1/69
 PROD. DATE

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

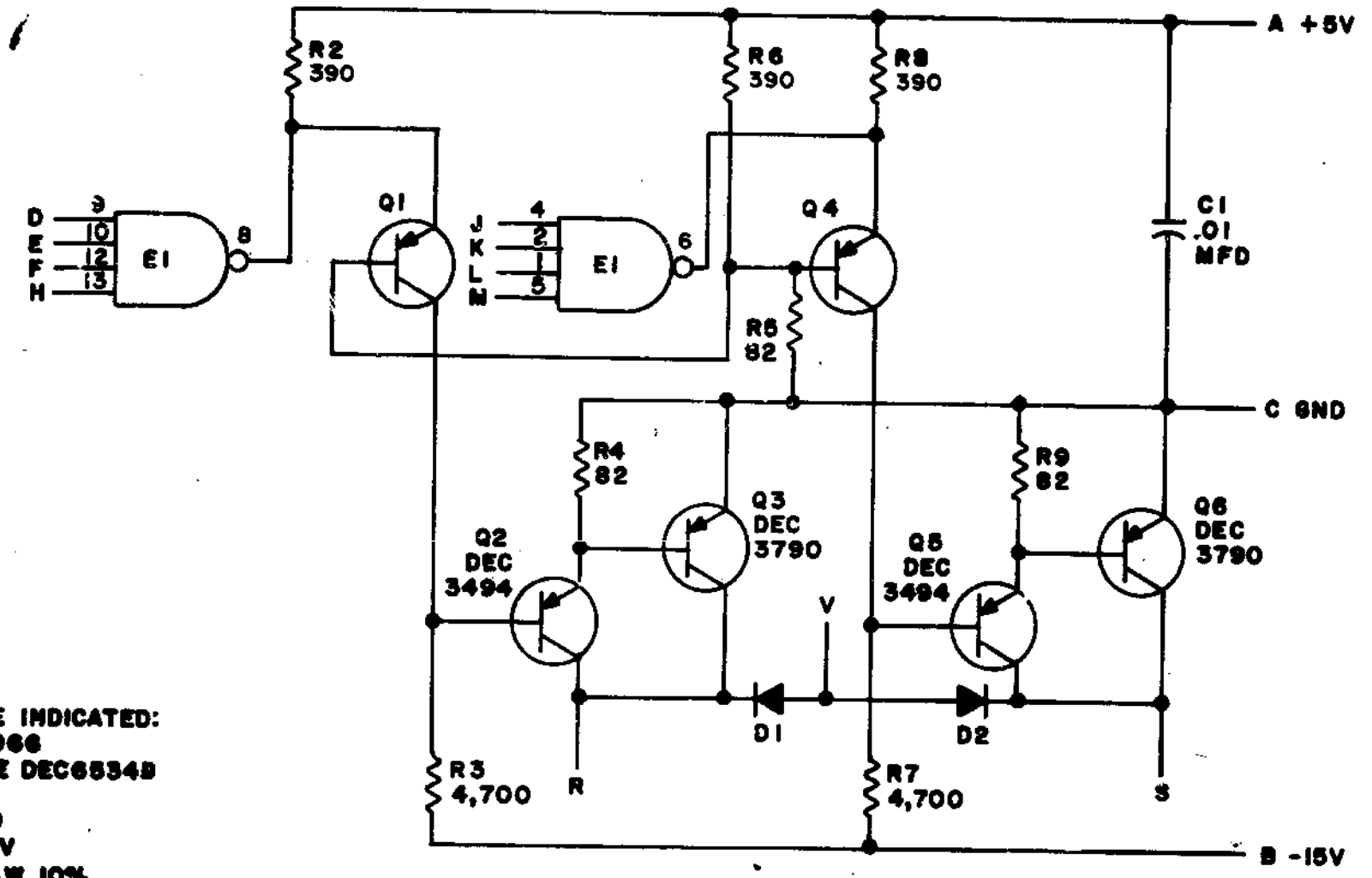
DIGITAL EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

DEC FORM NO. 102

DIST. 324.434 +0.3

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UNLESS OTHERWISE INDICATED:
 DIODES ARE MR2066
 TRANSISTORS ARE DEC6534B
 EI IS DEC7480N
 PIN 7 ON IC = GND
 PIN 14 ON IC = +5V
 RESISTORS ARE 1/4W, 10%

PARTS LIST A-PL-M040-0-0



REV. NO.	CHK	CHG	NO.	REV.
00001				E
00002				E

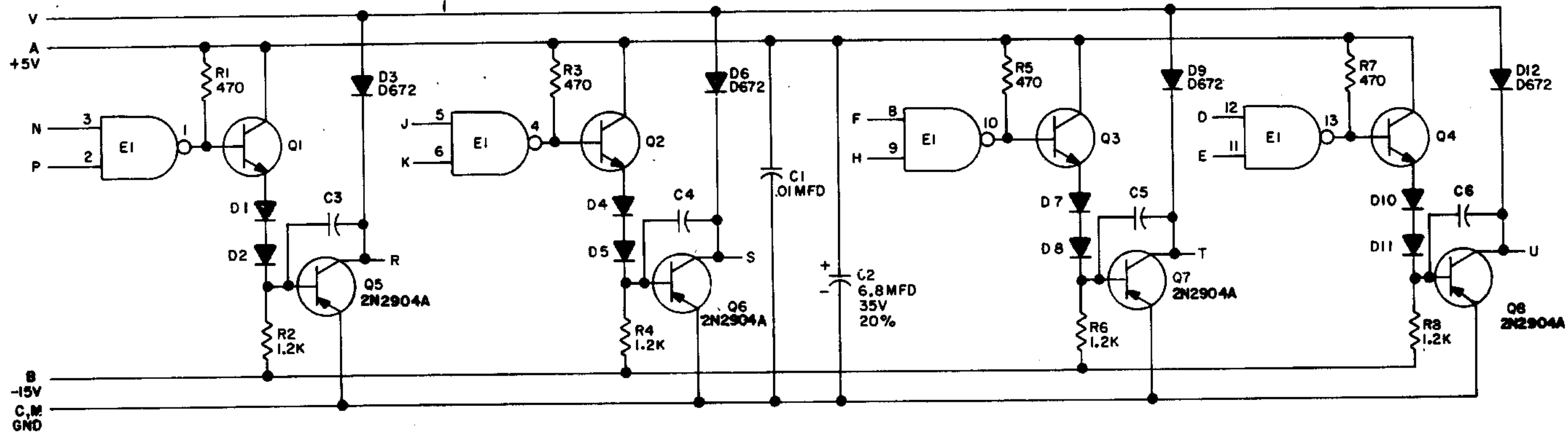
DRN. <i>M. Keller</i>	DATE 9-18-67
CHK'D <i>R. Brown</i>	DATE 9/22/67
APP'D <i>[Signature]</i>	DATE 9/19/67
PROC. 4	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3494	SAME		
DEC3790	2N3790		
DEC6534B	MP6534		
D862	1N846		
MR2066	1N4003		

EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 10%
 DIODES ARE D664
 EI IS DEC7401N
 TRANSISTORS ARE DEC3009P
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 CAPACITORS ARE 100pf, 100V, 5%

REV	CHG	NO.	REV.
1		0001	C

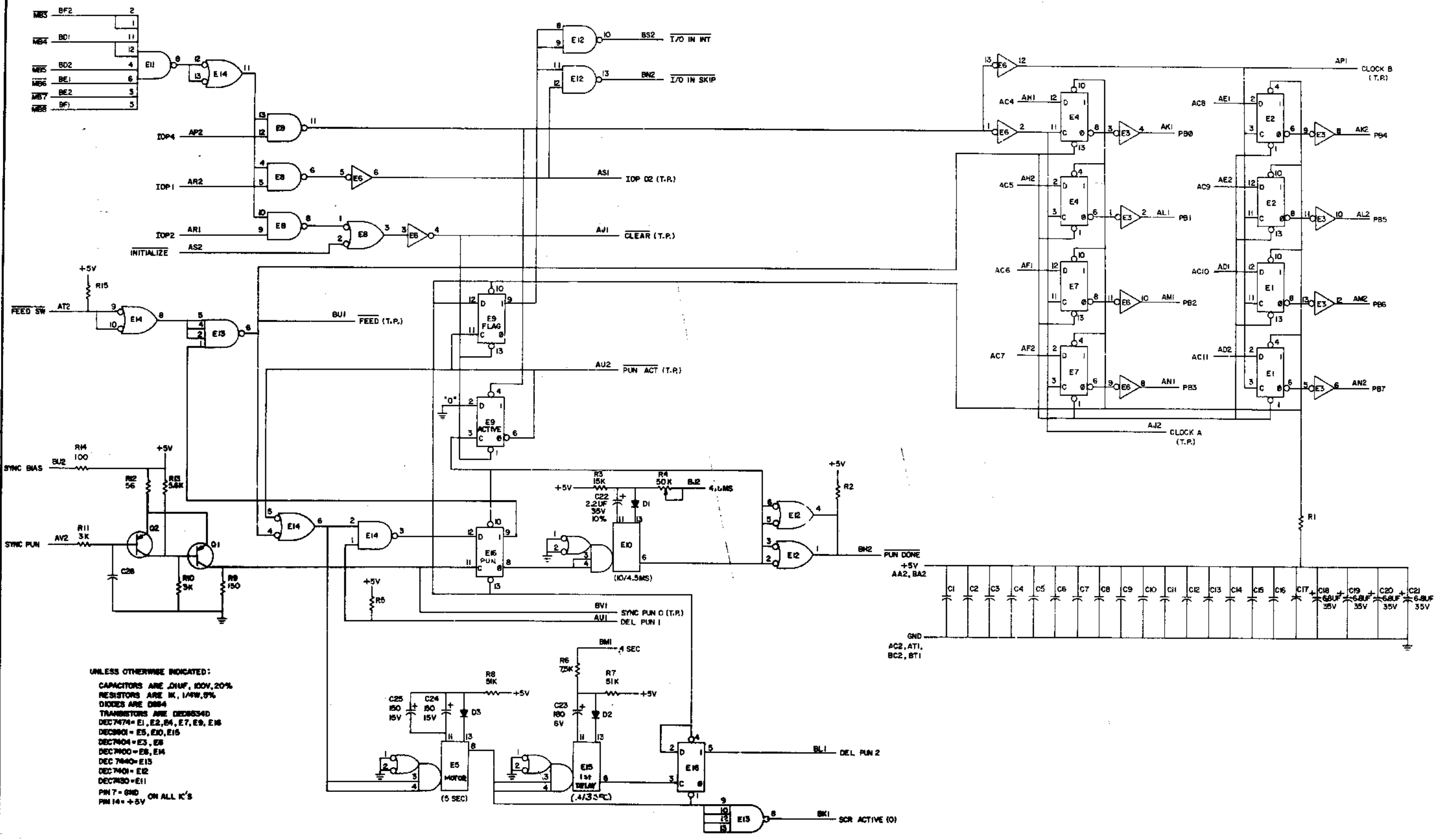
DRN. <i>Butler</i>	DATE <i>6/23/69</i>
CHKD. <i>C. R. ...</i>	DATE <i>6/23/69</i>
ENG. <i>R. ...</i>	DATE <i>6/23/69</i>
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	1N3606		
2N2904A	2N2904		
DEC3009B	2N3009		

EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

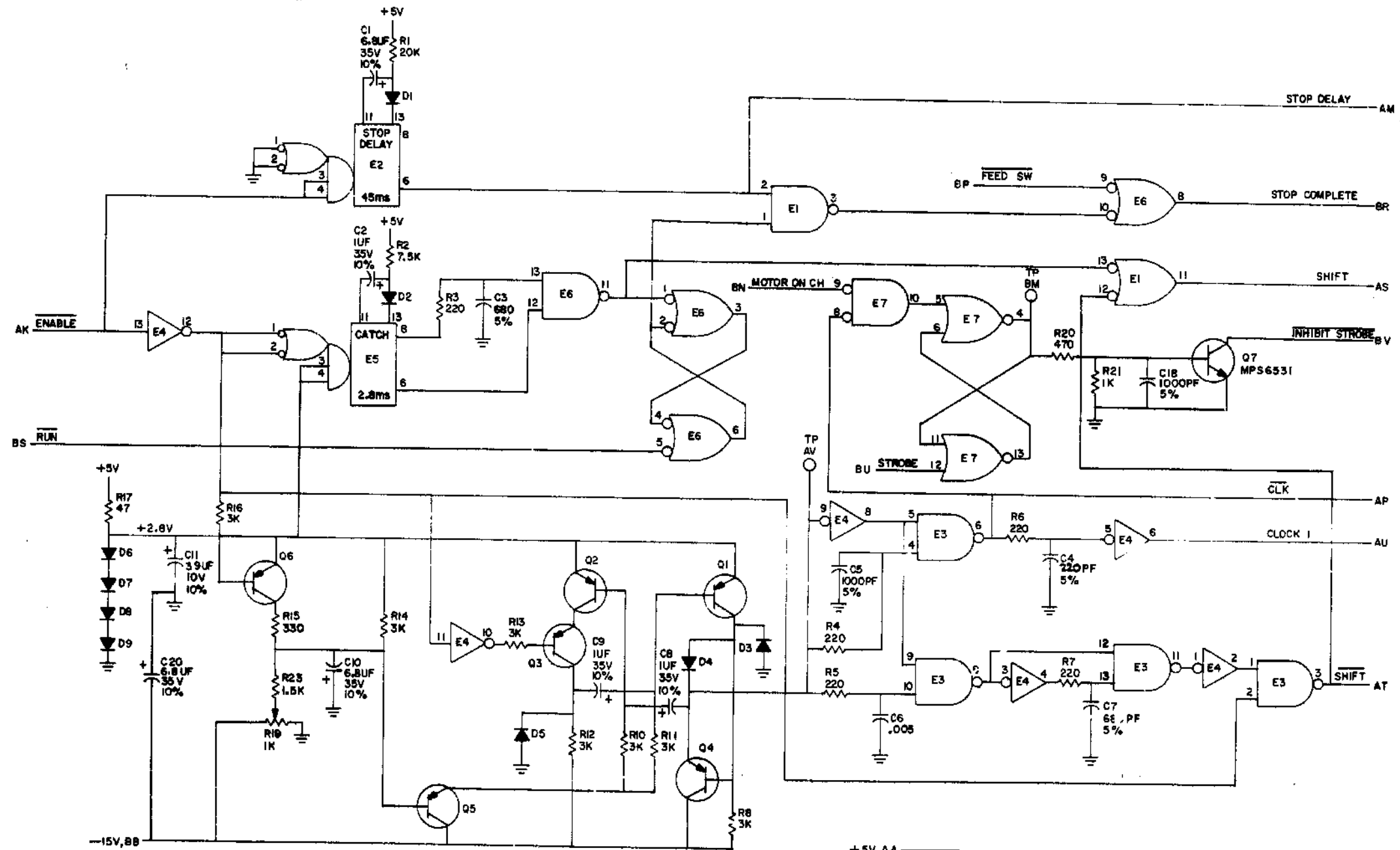
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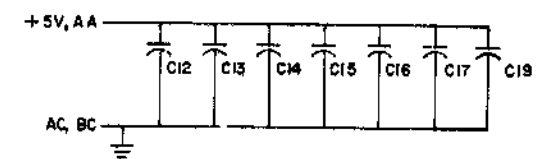
UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01µF, 100V, 20%
 RESISTORS ARE 1K, 1/4W, 5%
 DIODES ARE 1N914
 TRANSISTORS ARE 2N3054
 DEC7474 = E1, E2, E4, E7, E9, E16
 DEC7401 = E3, E10, E15
 DEC7404 = E3, E8
 DEC7400 = E5, E14
 DEC7440 = E13
 DEC7401 = E12
 DEC7430 = E11
 PIN 7 = GND ON ALL IC'S
 PIN 14 = +5V

TRANSISTOR & DIODE CONVERSION CHART				TITLE	
DEC	EA	DEC	EA	PUNCH CONTROL M710	
7400	7400	7400	7400	EQUIPMENT	REV. D CS
7401	7401	7401	7401	CORPORATION	NUMBER M710-0-1
7402	7402	7402	7402	PRINTED CIRCUIT REV.	REV. K

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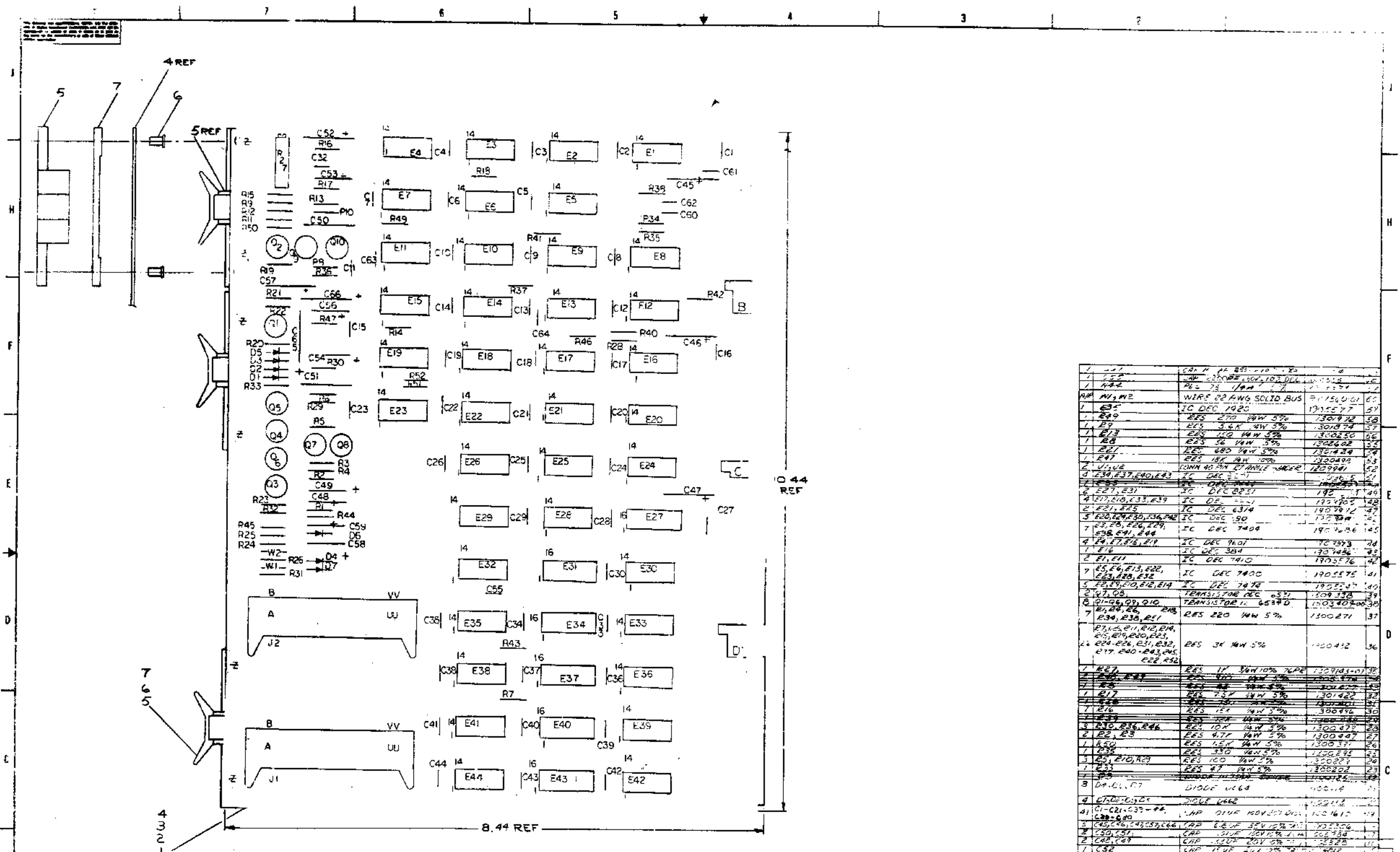
UNLESS OTHERWISE INDICATED:
 TRANSISTORS = DEC6534D
 DIODES = D664
 RESISTORS = 1/4W, 5%
 CAPACITORS = .01UF, 100V, 20%
 E1, E3, E6 = DEC7400
 E4 = DEC7404
 E2, E5 = DEC9601
 PIN 7 = GND
 PIN 14 = +5V ON ALL IC'S
 E7 = DEC7402



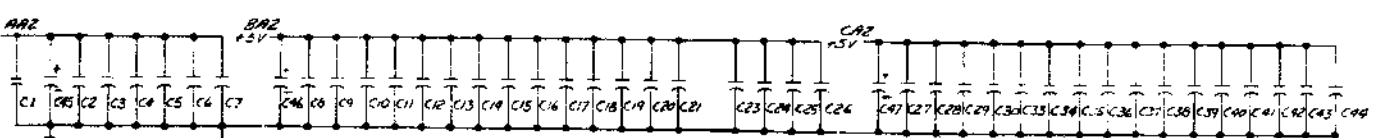
REV. L
 NUMBER M715-0-1
 SIZE CODE C CS

REVISIONS		DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART				TITLE	
CHK	CHG	NO.	REV.	DEC	EIA	DEC	EIA	SIZE	CODE
AY	00003	8		DEC6534D	MP6534	INT68	SAME	C	CS
	00006	8		D664	IN3606				
	00007	8		DEC6531	MP6531				
	00008	8							
	00009	8							
	00010	8							
	00011	8							
	00012	8							
	00013	8							
	00014	8							
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	00098	8							
	00099	8							
	00100	8							

715-224, 435 2 4 PINK



ITEM NO	QTY	UNIT	DESCRIPTION	DATE	BY
1	1	B	...		
2	1	B	...		
3	1	B	...		
4	1	B	...		
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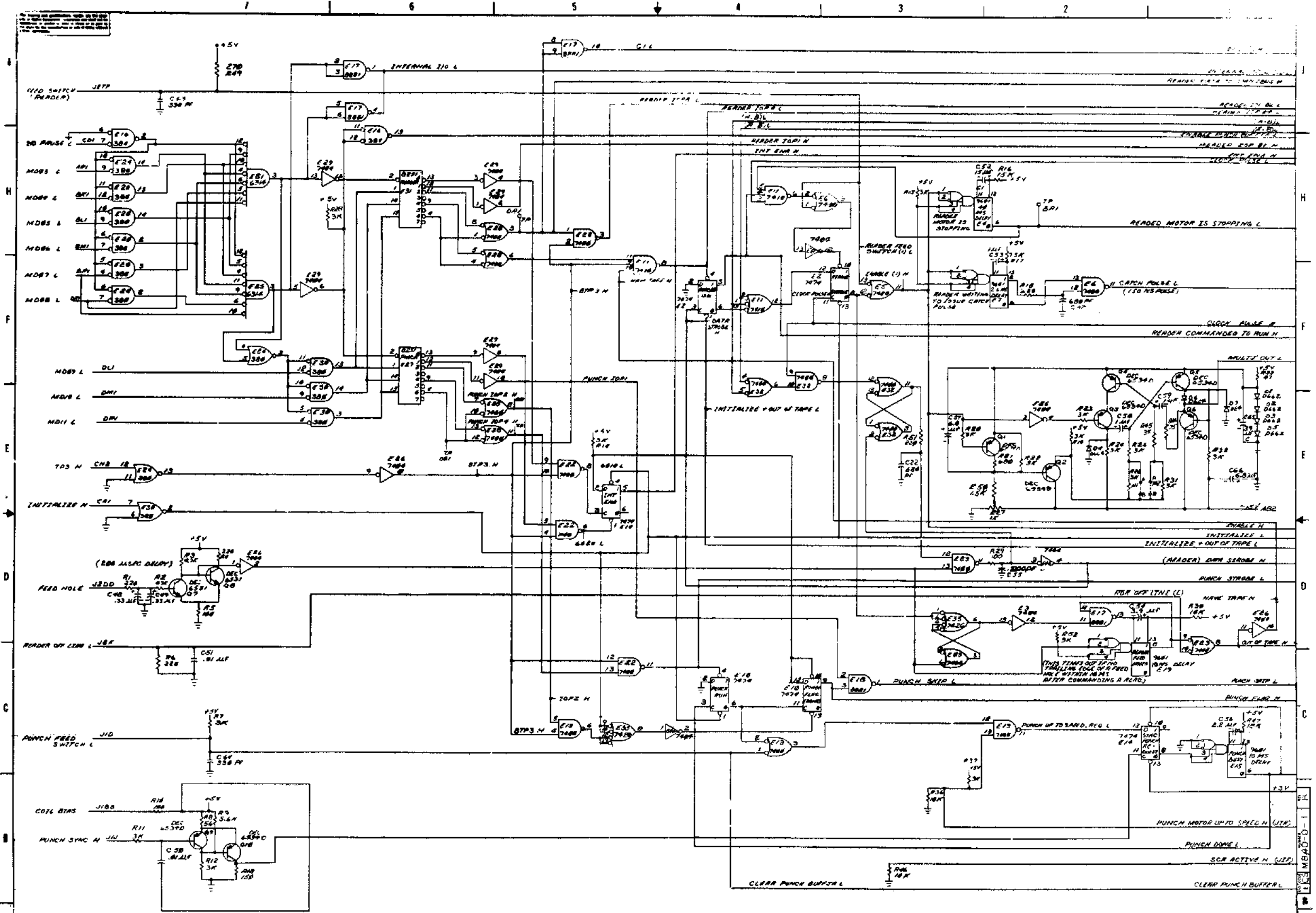
U1 PINS A,B,C,D,E,H,K,L,M,N,P,S,U,V,Y
AA,CC,EE,HH,KK,MM,NN,PP
RR,SS,TT,UU,VV

U2 PINS A,B,C,D,E,H,K,L,M,N,P,S,U,V,Y
AA,CC,EE,HH,KK,MM,NN,PP,SS,UU,VV

ITEM NO	QTY	UNIT	DESCRIPTION	DATE	BY
1	1	B	...		
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3	1	B	...		
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49	1	B	...		

ITEM NO	QTY	UNIT	DESCRIPTION	DATE	BY
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ITEM NO	QTY	UNIT	DESCRIPTION	DATE	BY
1	1	B	...		
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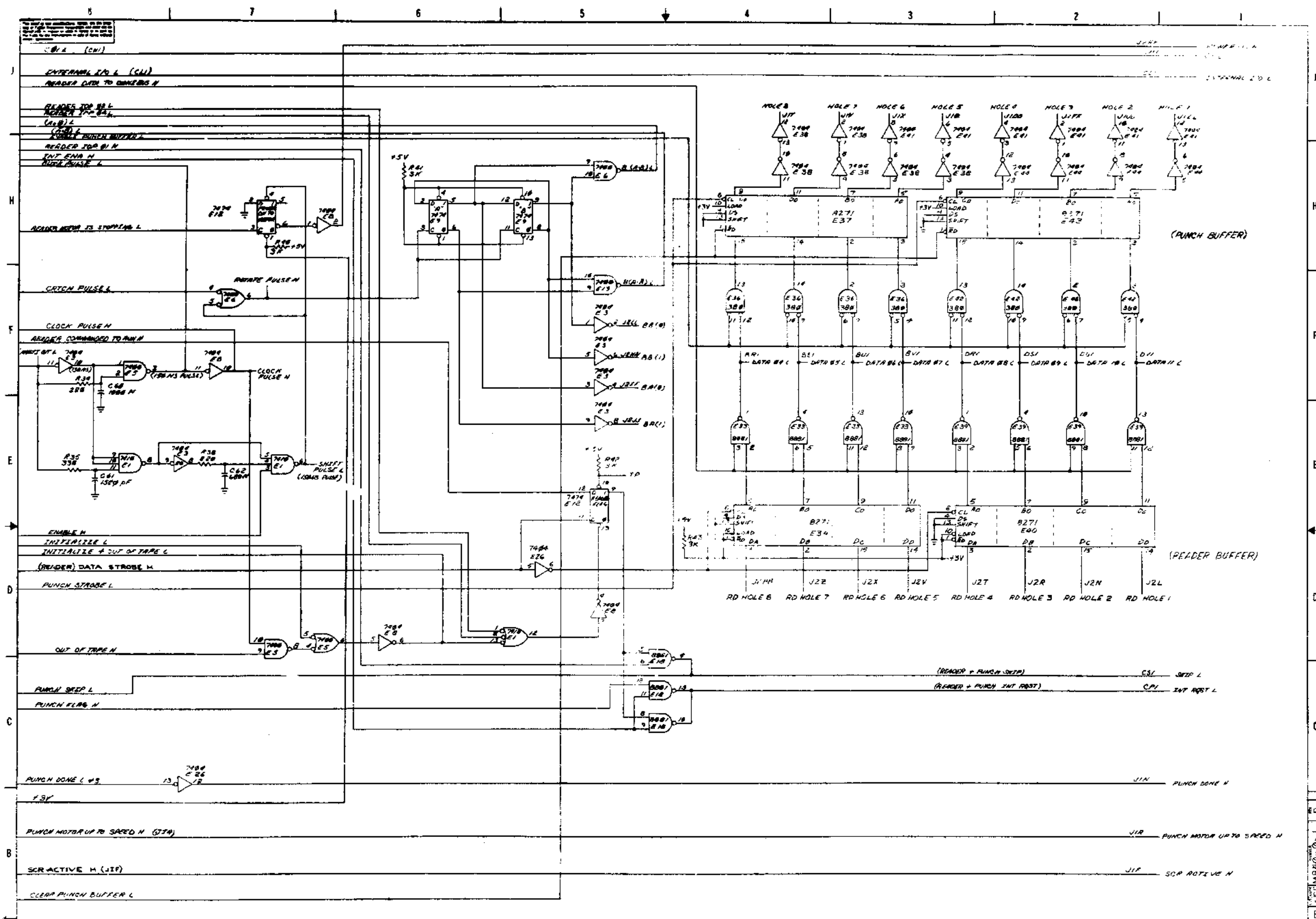


QTY	DESCRIPTION	PART NO.	REV.
1	7400	7400	1
1	7410	7410	1
1	7412	7412	1
1	7420	7420	1
1	7418	7418	1
1	7401	7401	1
1	7402	7402	1
1	7403	7403	1
1	7404	7404	1
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1	7406	7406	1
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1	7408	7408	1
1	7409	7409	1
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1	7496	7496	1
1	7497	7497	1
1	7498	7498	1
1	7499	7499	1
1	7500	7500	1

UNLESS OTHERWISE SPECIFIED
 ALL DIMENSIONS ARE IN INCHES
 TOLERANCES ARE AS SHOWN
 DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
 ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
 ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED

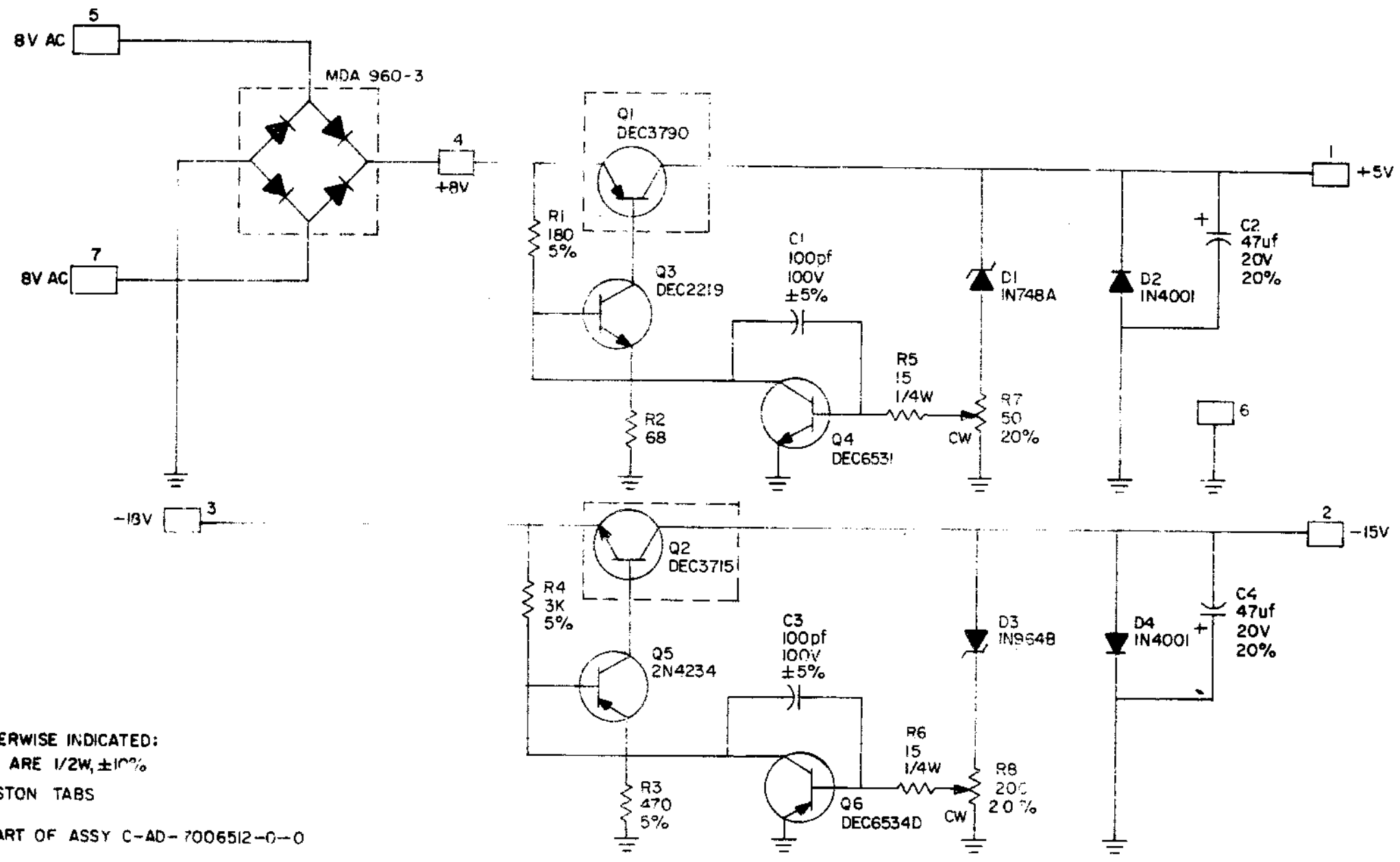
DATE: 11/15/64
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]

READER/PUNCH CONTROL
 EKS MB40-D-1



QTY	DESCRIPTION	UNIT NO	REV
1	READER/PUNCH CONTROL		1
1	7404		
1	7408		
1	7410		
1	7411		
1	7412		
1	7413		
1	7414		
1	7420		
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1	7500		

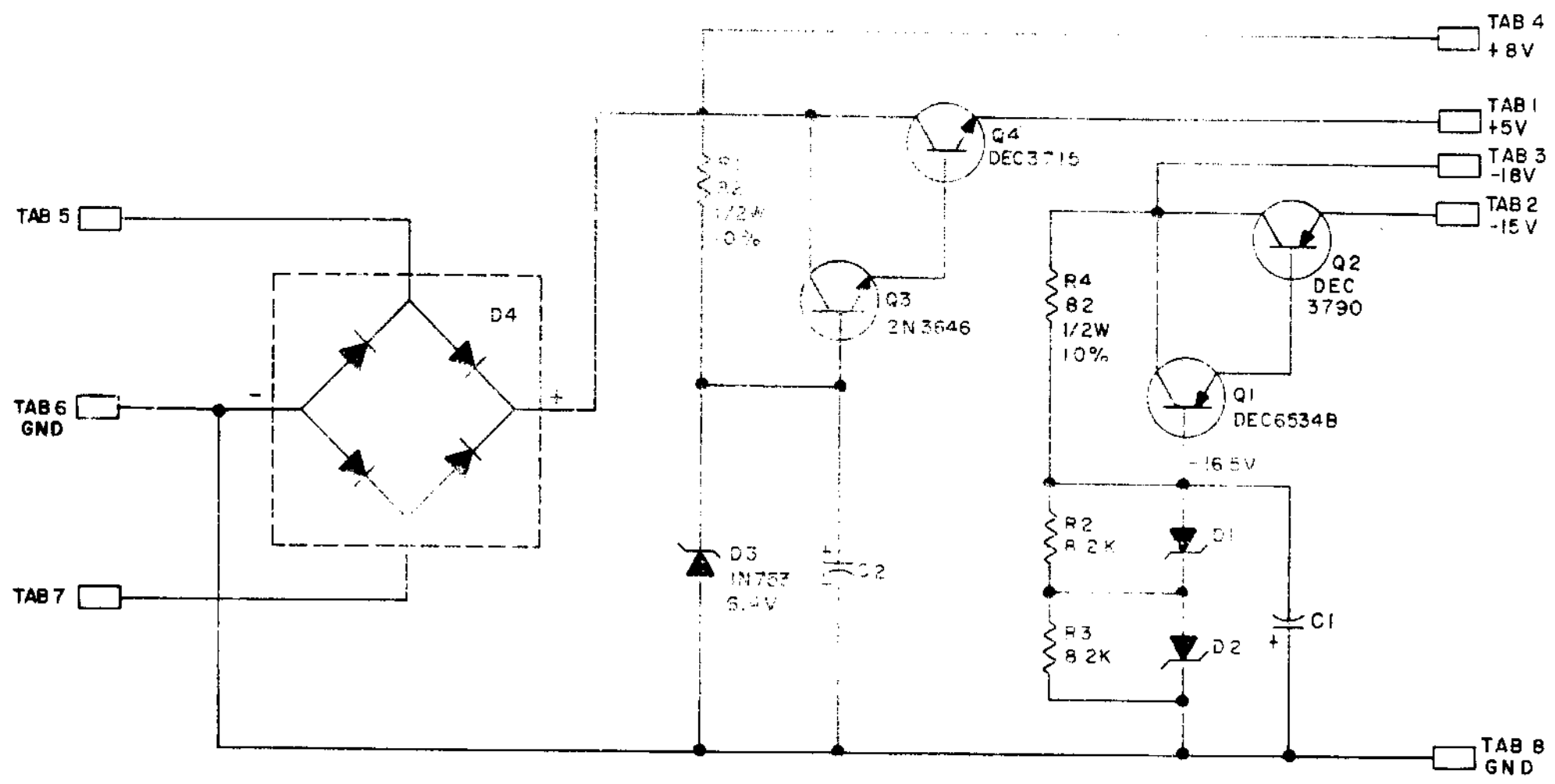
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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/2W, ±10%
 □ = FASTON TABS
 □ = PART OF ASSY C-AD-7006512-0-0

REVISIONS CHK CHG NO REV	DRN NANLY MOORE	DATE 7/8/70	TRANSISTOR & DIODE CONVERSION CHART					TITLE PCO REGULATOR 5408918			
	CHK'D <i>[Signature]</i>	DATE 8/1/70	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER 5408918-0-1	REV A
	ENG <i>[Signature]</i>	DATE 10/12/70	DEC3790-2	2N3790	DEC6531	MPS6531					
	PROD	DATE	DEC2219	2N2219	IN748A	SAME					
			DEC3715	2N3715	IN964B	SAME					
			2N4234	2N4234	IN4001	SAME					
			DEC6534D	MPS6534							

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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 1/4W 5%
 TABS ARE AMP 41290

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

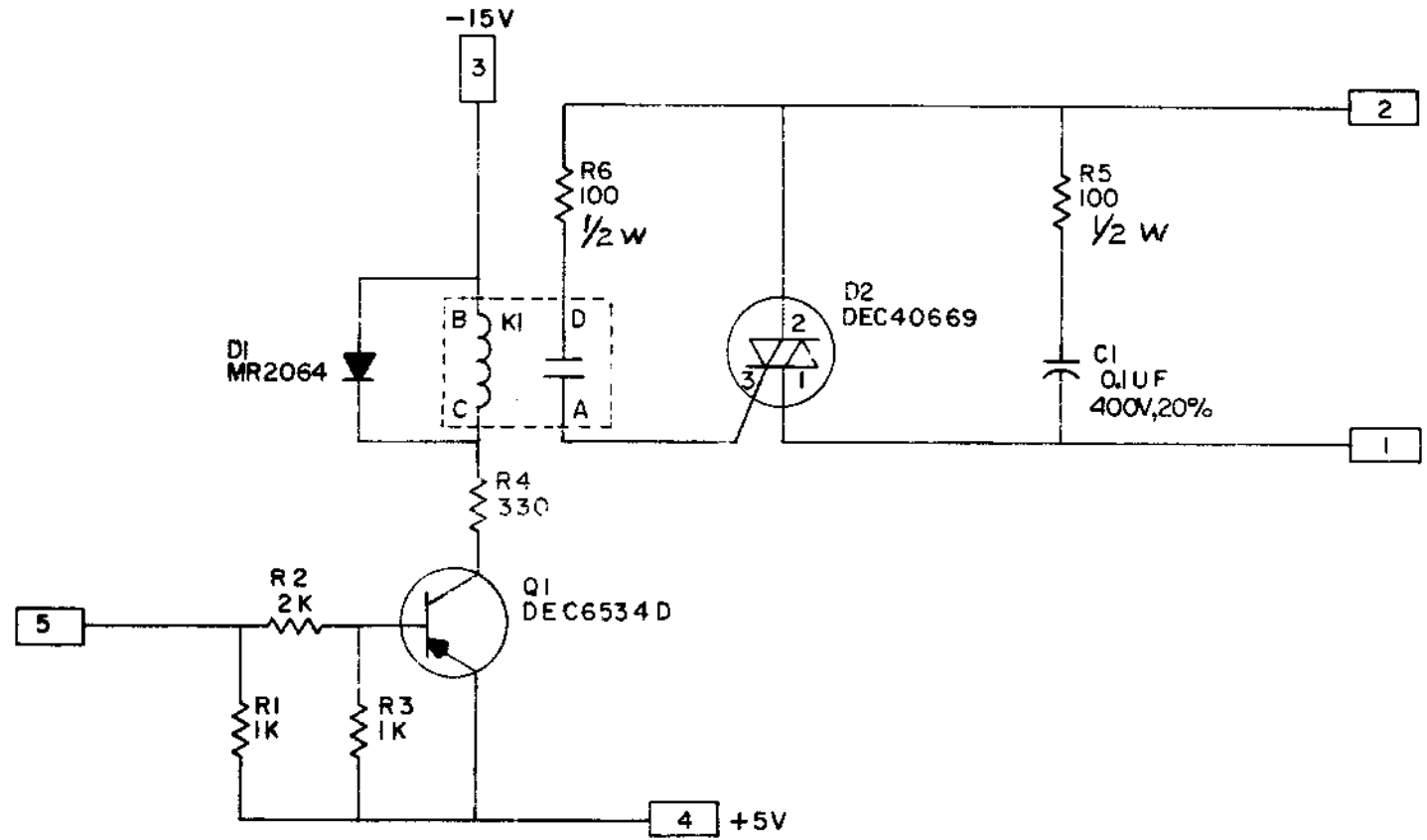
DRN <i>R. F. King</i>	DATE 3-3-69
CHK'D <i>M. M. Marshall</i>	DATE 4/1/69
ENG <i>Tom B.</i>	DATE 2-11-69
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
IN753	SAME	2N3646	2N3009
IN756A	SAME		
DEC3790	2N3790		
DEC6534B	MPS 6534		
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

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION



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

REVISIONS	CHK	CHG	NO.	REV	B

DRN	M. HALLER	DATE	6-20-69
CHK'D	T.A. NALETTE	DATE	6-24-69
ENG.	G. BECKNER	DATE	11-19-69
PROD		DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
		DEC6534D	MPS6534

digital
 EQUIPMENT CORPORATION
 MAYNARD MASSACHUSETTS

TITLE				TRIAC SW ASSY (PC05)			
SIZE	CODE	NUMBER		REV			
B	CS	5408384-0-1		B			
PRINTED CIRCUIT REV				B			