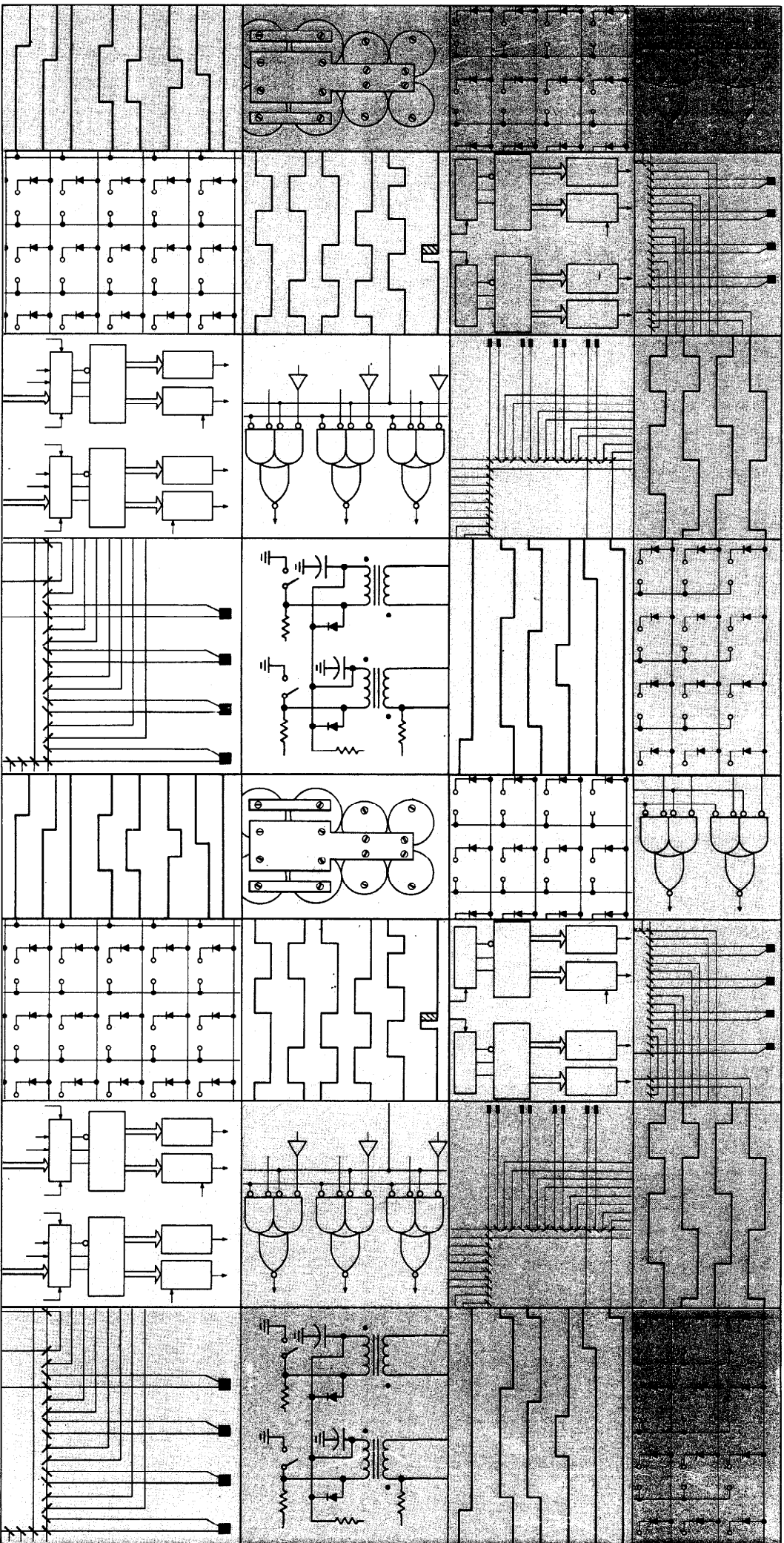


pdp8/e
pdp8/f & pdp8/m



digital

**TD8-E
DECtape control
engineering drawings**

digital equipment corporation · maynard, massachusetts

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DEC	PDP
FLIP CHIP	FOCAL
DIGITAL	COMPUTER LAB

MASTER DRAWING LIST

MAINTENANCE MANUALS		UNIT VARIATIONS																		
		TDS-E	TDS-EH	TDS-EJ	TDS-EM	TDS-ER														
NO.	TITLE																			
	TDS-E DECTAPE CONTROL	X	X	X	X	X														

USED ON OPTIONS									
PDP8/E									

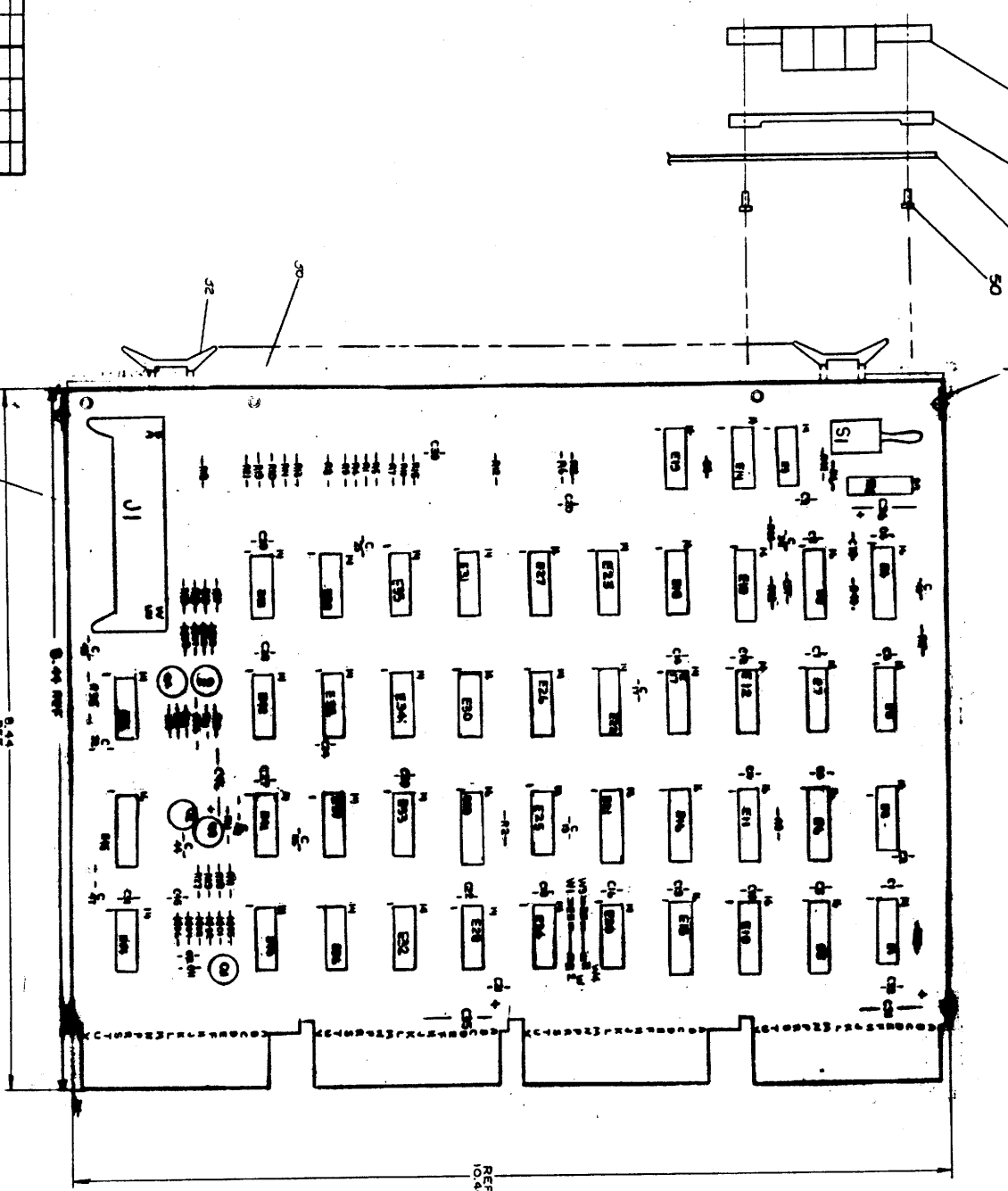
REVISIONS	APP'D.	CHG. NO.	DATE	REV.	DRN.	DATE	<div style="display: flex; align-items: center;"> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS </div>				
		<i>[Signature]</i>	00001 00002	12-71 4-72	A B	K. RUSS					81871	TITLE DECTAPE CONTROL
						CHK'D.	DATE	SIZE CODE NUMBER REV. A ML TDS-E B			
						ENG.	DATE					FIRST USED ON PDP8/E
						PROJ. ENGR.	DATE	SCALE # SHEET 1 OF 2			
					PROD.	DATE	DIST.				

DRA 131
Dec 16-(325)-1048-N471

PRINT SET					DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE	OPTION NO.	
TDS-E										
X					E-CS-M868-0-1	REF	3	SIMPLE DECTAPE CONTROL		
X					D-TD-TDS-E-4		4	TDS-E TIMING DIAGRAM		
X					D-IA-7008447-0-0	A	2	TDS-E CONTROL CABLE		
X					A-PL-TDS-E-0	A	1	TDS-E PARTS LIST		
X					D-AR-TDS-E-2	A	1	TDS-E CONFIGURATION		
X					D-IC-TDS-E-3	B	2	POWER WIRING		
C					A-ML-TU56-0		2	DECTAPE TU56		
C					A-ML-H716-0		2	H716 POWER SUPPLY		
-					A-SP-TDS-E-5		9	ENGINEERING SPECIFICATION		
-					A-SP-TDS-E-6	B	3	TDS-E ACCEPTANCE PROCEDURE		
-					A-SP-TDS-E-7		7	CHECKOUT PROCEDURE		
X					D-CS-M960-0-1	REF	1	COMMAND CABLE CONN		
X					D-CS-M961-0-1	REF	1	DATA CABLE CONN		
X					A-AL-TDS-E-8		1	ACCESSORY LIST		
TITLE					DECTAPE CONTROL			SHEET 2 OF 2		SIZE CODE NUMBER REV. A ML TDS-E B

DRA 132
DEC 16 (325) 1048 1 N471

NO. 101 (REV. 1-65)
 1. ALL DIMENSIONS ARE IN INCHES
 2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
 3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED
 4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
 5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED



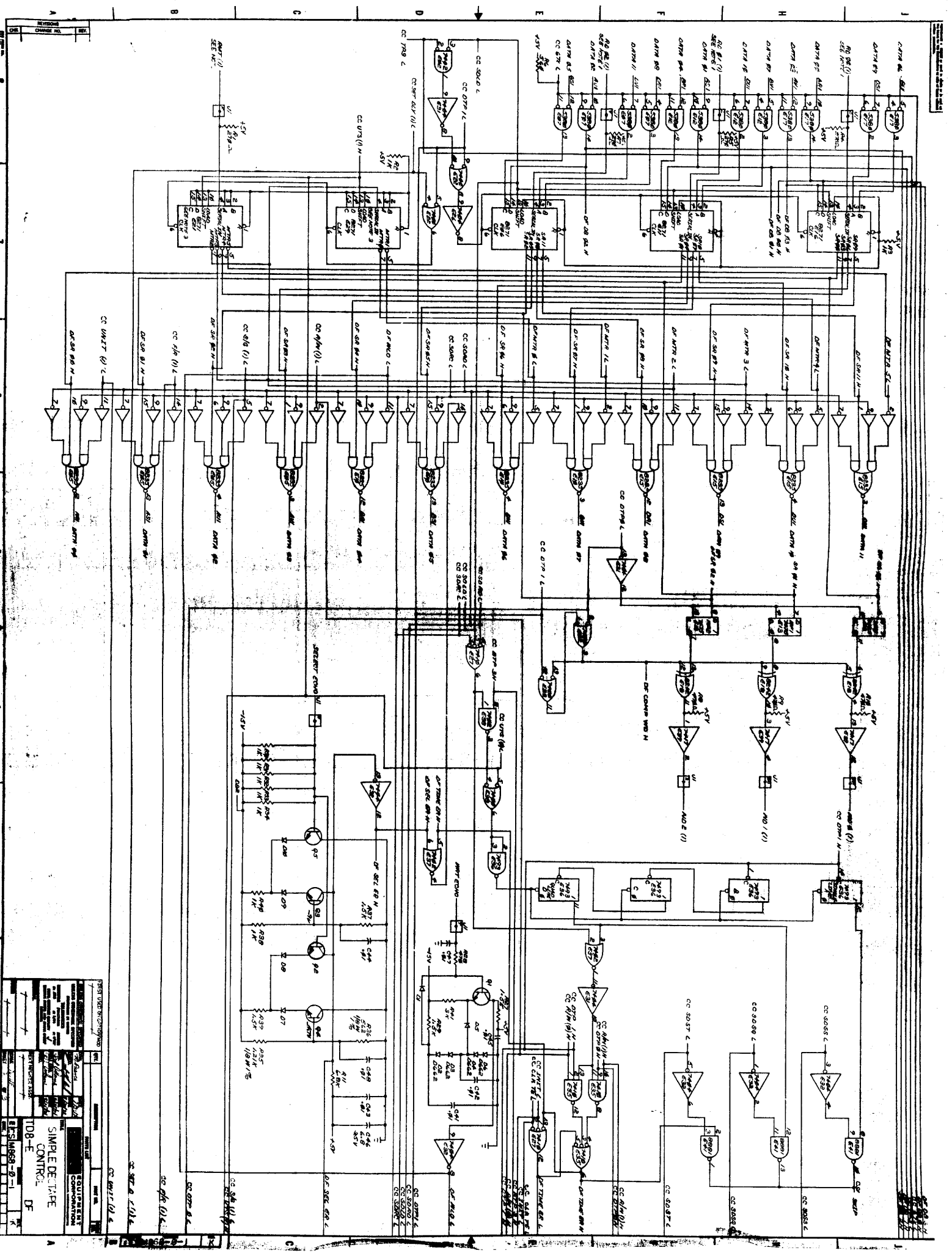
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IC DEC 8235	0	16
IC DEC 8236	1	16
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IC DEC 8261	1	16
IC DEC 8262	1	16
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IC DEC 8265	1	16
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IC DEC 8267	1	16
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IC DEC 8282	1	16
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IC DEC 8284	1	16
IC DEC 8285	1	16
IC DEC 8286	1	16
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IC DEC 8289	1	16
IC DEC 8290	1	16
IC DEC 8291	1	16
IC DEC 8292	1	16
IC DEC 8293	1	16
IC DEC 8294	1	16
IC DEC 8295	1	16
IC DEC 8296	1	16
IC DEC 8297	1	16
IC DEC 8298	1	16
IC DEC 8299	1	16
IC DEC 8300	1	16

NO.	REF.	DESCRIPTION	QTY.	UNIT	DATE
1	1	WIRE #22 AWG 5000 BUS	907260-0	34	
2	1	SPACER (CABLE CLAMP)	1021074	53	
3	1	HANDLE FLIP CHIP WAGENIA	900833106	52	
4	1	SPLIT LUGS M-1033	9006755	51	
5	1	EVELT 68-411 STIMBON	9006750	50	
6	1	IC DEC 7412	910436	49	
7	1	IC DEC 8235	1909337	48	
8	1	IC DEC 74104	1909291	47	
9	1	IC DEC 7417	1909229	46	
10	1	IC DEC 8242	1909712	45	
11	1	IC DEC 8247	1909703	44	
12	1	IC DEC 8248	1909703	43	
13	1	IC DEC 8249	1909703	42	
14	1	IC DEC 7404	1909686	41	
15	1	IC DEC 8271	1909615	40	
16	1	IC DEC 8251	1909594	39	
17	1	IC DEC 5384 SERVO S	1903394	38	
18	1	IC DEC 5384 SERVO S	1903392	37	
19	1	IC DEC 7493	1909050	36	
20	1	IC DEC 7475	1909004	35	
21	1	IC DEC 7402	1909290	34	
22	1	IC DEC 7401	1909290	33	
23	1	IC DEC 7430	1909218	32	
24	1	IC DEC 7410	1909218	31	
25	1	IC DEC 7400	1909218	30	
26	1	IC DEC 7474	1725547	29	
27	1	TRANSISTOR DEC 6531	1509336	28	
28	1	RES 47K 1/4W 5%	1300447	27	
29	1	RES 20K 1/4W 5%	1309413	26	
30	1	RES 10K 1/4W 5%	1304403	25	
31	1	RES 5K 1/4W 5%	1304403	24	
32	1	RES 1.5K 1/4W 5%	1300432	23	
33	1	RES 3K 1/4W 5%	1300391	22	
34	1	RES 1K 1/4W 5%	1300346	21	
35	1	RES 470 1/4W 5%	1300316	20	
36	1	RES 220 1/4W 5%	1300271	19	
37	1	RES 10K 1/2W 1% ME	1302871	18	
38	1	RES 10K 1/2W 1% ME	1304839	17	
39	1	RES 51K 1/4W 5%	1301812	16	
40	1	RES 270 1/4W 5%	1301812	15	
41	1	RES 560 1/4W 5%	1301812	14	
42	1	RES 680 1/4W 5%	1301423	13	
43	1	RES 10K 1/4W 5%	1300479	12	
44	1	RES 3K 1/4W 5%	1300432	11	
45	1	RES 1.5K 1/4W 5%	1300391	10	
46	1	RES 470 1/4W 5%	1300316	9	
47	1	RES 220 1/4W 5%	1300271	8	
48	1	RES 10K 1/2W 1% ME	1210729	7	
49	1	RES 10K 1/2W 1% ME	1207941	6	
50	1	SWITCH T8001	1100114	5	
51	1	HEADERS, RIGHT ANG 40 PIN	1100114	4	
52	1	DIODE D664	1100114	3	
53	1	DIODE D664	1100114	2	
54	1	CAP 6.8UF 35V 50% TANT	1000062	1	
55	1	CAP 6.8UF 35V 10% TANT	1003394	1	
56	1	CAP 2700 PF 100V 5% DM	1001837	1	
57	1	CAP 100UF 50V 5% DM	1001837	1	
58	1	CAP 100UF 50V 5% DM	1001837	1	
59	1	CAP 27 PF 100V 5% DM	1001739	1	
60	1	ETCHED CIRCUIT BOARD	5007989	4	
61	1	MODULE ECO HISTORY	19M-1046-24-3	1	
62	1	ASSY WIRING KOLE LAYOUT	19M-1046-24-3	1	
63	1	X-Y COORDINATE WOLE LAYOUT	19M-1046-24-3	1	

SIMPLE DECIMAL CONTROL

DATE: 10-1-68

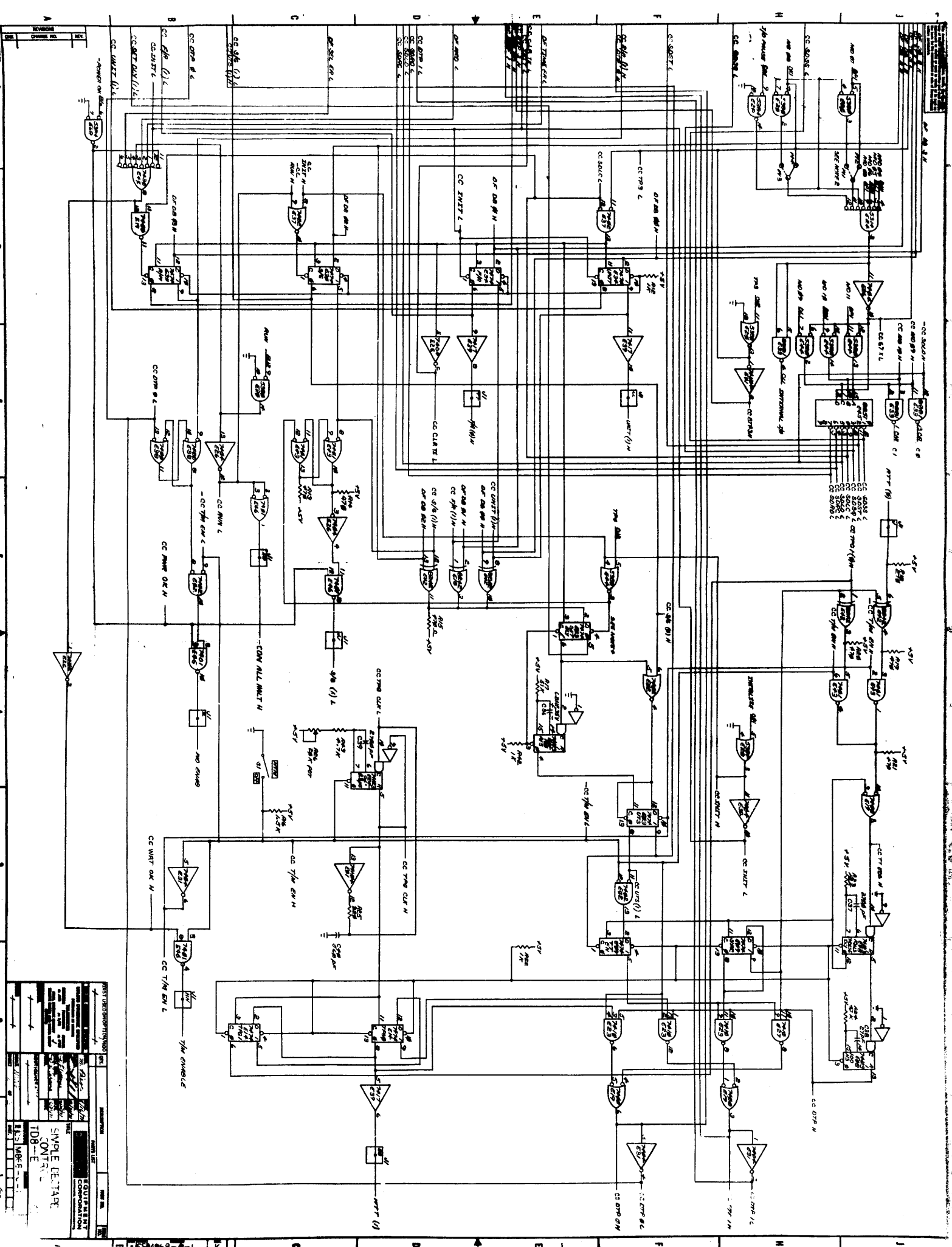
REV: 0-1



REVISION	
NO.	DESCRIPTION
1	ISSUED FOR CONSTRUCTION
2	REVISION
3	REVISION

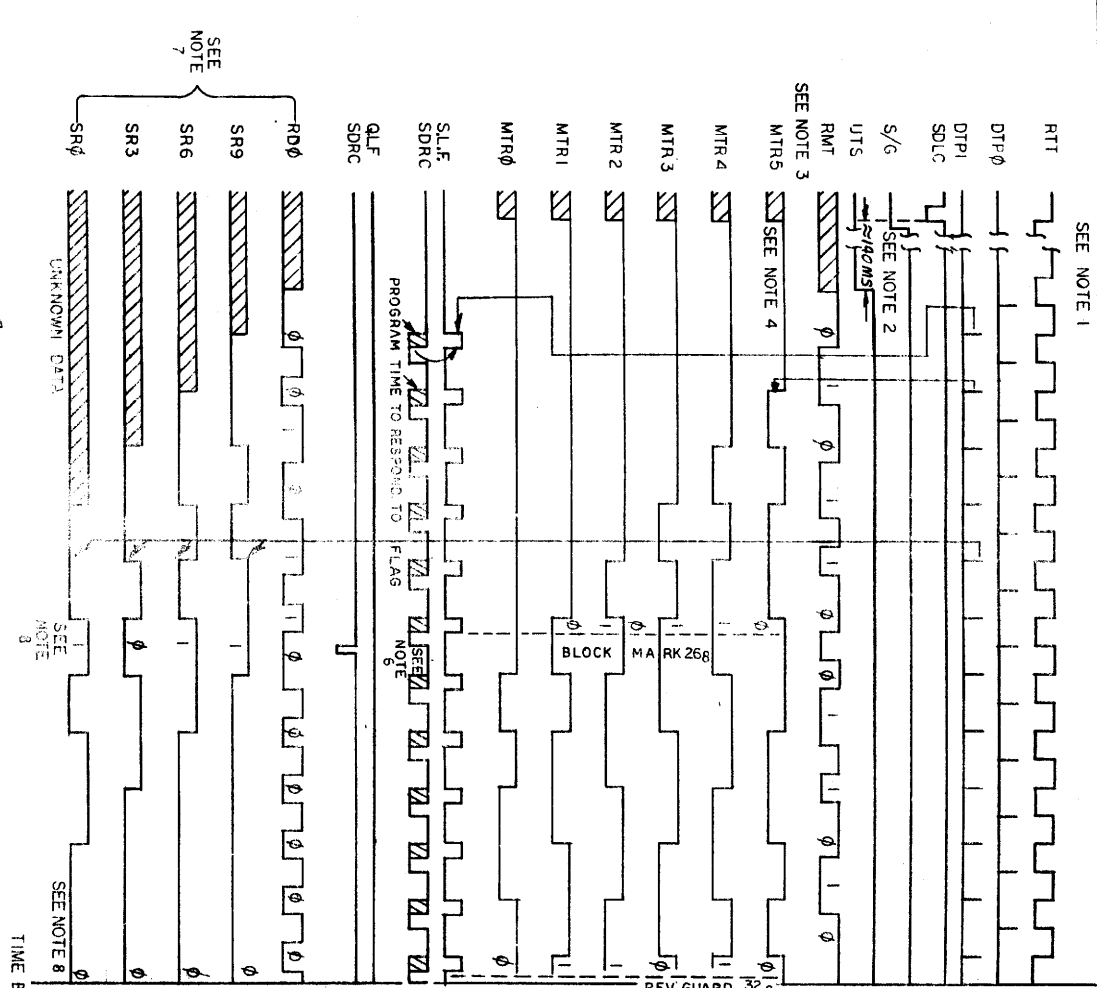
TITLE	
EQUIPMENT	
SIMPLE DECADE	
CONTROL	
TDB-E	
DF	

NO.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	10/1/54
2	REVISION	10/1/54
3	REVISION	10/1/54



FIRST USED ON: 08/11/60 DESIGNED BY: [Signature] CHECKED BY: [Signature] DRAWN BY: [Signature] TITLE: SIMPLE DELTAP CONF ID: 108-E REV: 1	PART NO. QUANTITY UNIT COMMENTS
---	--

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NO READ MARK TRACK AND DATA

TIME BREAK

REV	CHANGE NO.	REVISIONS
51		51/180.00
408		180/102
306		153
396.8		235
51		1070
1073		235
1073		1073
1073		1073

NOTES:
 1 THIS TIMING DIAGRAM DOES NOT INDICATE THE ONLY OR CORRECT WAY TO PROGRAM THE TDS-E FOR READ OPERATIONS. ITS PRIMARY FUNCTION IS TO SHOW WHAT HAPPENS IN THE LOGIC BETWEEN VARIOUS PROGRAMMED INSTRUMENTS.

2 THE GO SIGNAL IS SWITCH ON BY THE COMPUTER THE TDS-E TO ALLOW SETTLING OF THE UNIT SELECT LINES THE UNIT DIRECTION AND READ COMMANDS ARE SET BY THIS SDLC.

3 THE INPUTS TO AND OUTPUTS FROM THE MARK TRACK REG. ARE REDEFINIED. 1 IS A LOW LEVEL 4 ANY TIME THE UTS DELAY IS STARTED, THE MTR IS SET TO RL B'S (HIGH OUTPUT)

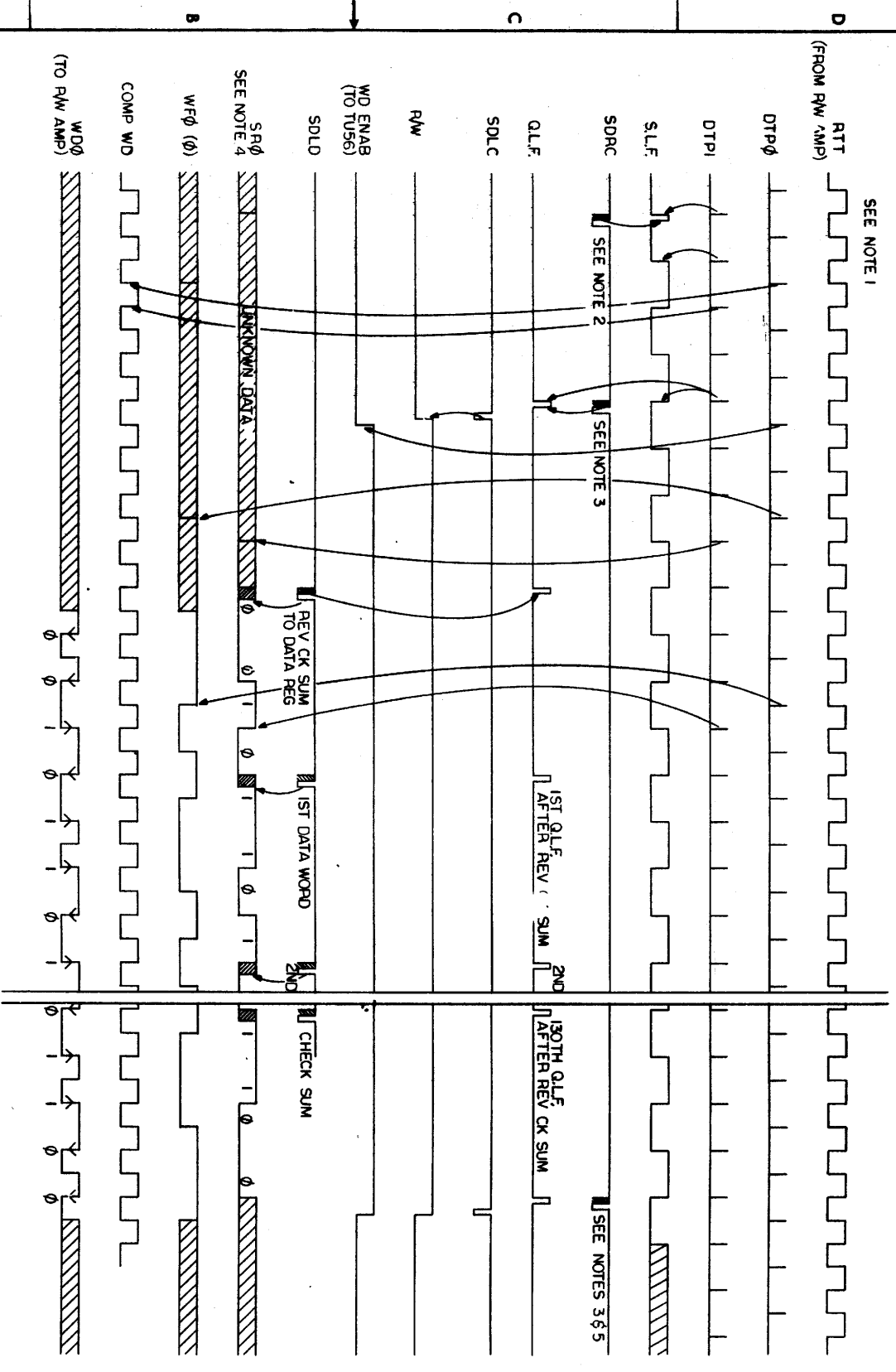
5 ONCE THE CORRECT BLOCK AND ITS BEN GUIDED CODES HAVE BEEN FOUND, THE SINGLE LINE FLGAS ARE INVADED. THE MARK IS NOT LOOKED AT AGAIN UNTIL ANOTHER SEARCH IS STARTED.

6 AT THIS POINT THE COMPLETE MARK TRACK CODE IS IN THE RL. IF IT IS A BLOCK MARK THEN A SDEL IS ISSUED TO REFD. THE BLOCK NUMBER SO THE PROGRAM CAN TEST TO SEE IF ITS THE ONE WANTED.

7 THE OTHER TWO PARALLEL READ LINES WERE IDENTICALLY TO RD Ø, SEP. Ø, 3, Ø. THE FIRST TWO BITS BEING UNDER THE BLOCK MARK ARE LOST AS THE BLOCK NO. IS ONLY UNDER THE FIRST FOUR BITS OF THE BLOCK MARK. THE BEN GUIDED MARKS (Ø) DATA (IN THE FWD DIRECTION).

FIRST USED OPTION MODEL		TD8-E
QTY	DESCRIPTION	PART NO.
PARTS LIST		
DATE	BY	REV.
10/6		
TITLE		
TIMING DIAGRAM		
SIZE CODE	NUMBER	REV.
DTD	TD8-E-4	
SCALE		
SHEET	OF 4	

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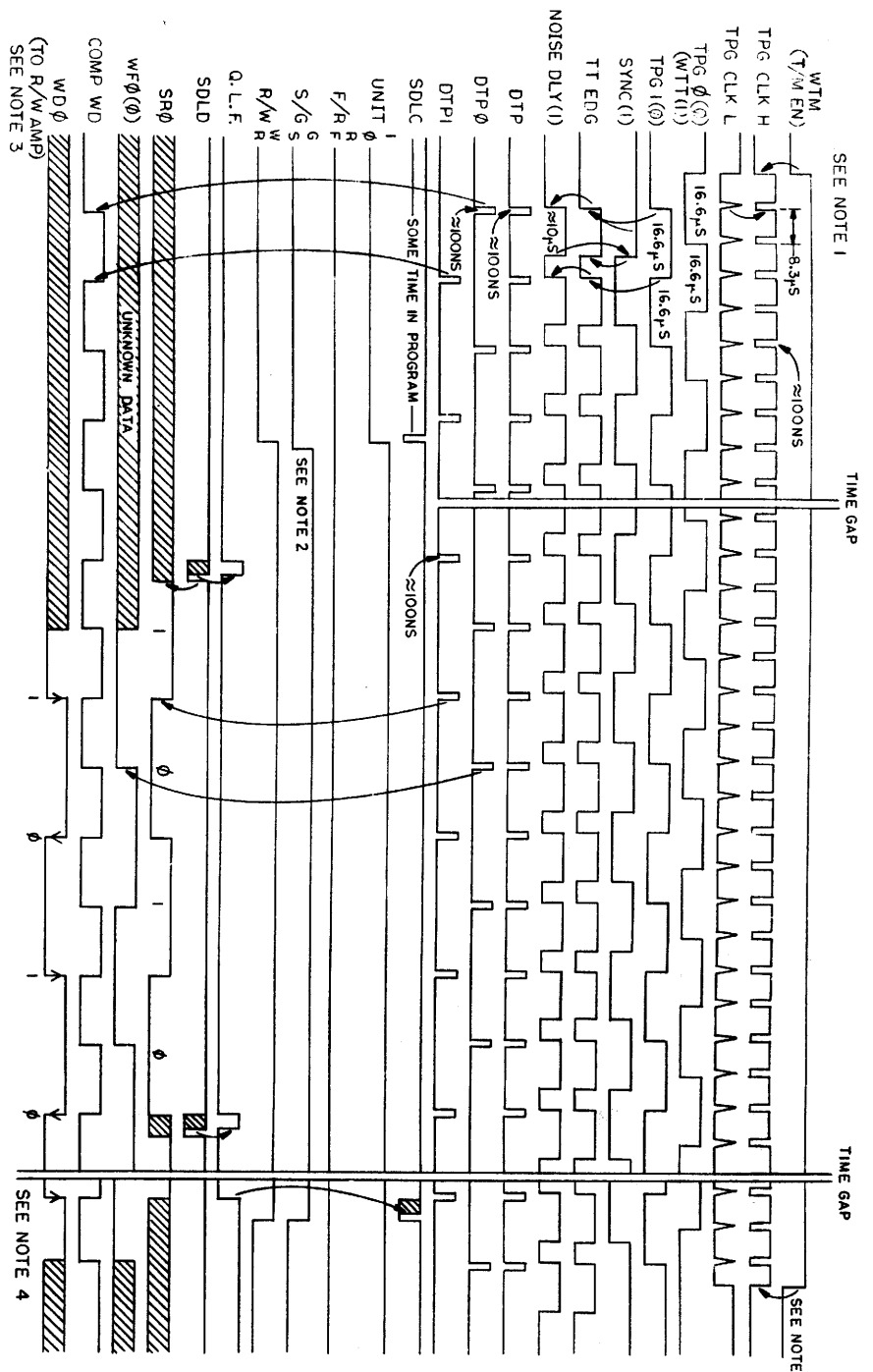


WRITE DATA TIMING

- NOTES:
1. THIS TIMING DIAGRAM DOES NOT INDICATE THE ONLY WAY OR A CORRECT WAY TO PROGRAM THE TD8-E FOR READ OR WRITE OPERATIONS. ITS PRIMARY FUNCTION IS TO SHOW ANY HAZARDOUS LOGIC BETWEEN VARIOUS PROGRAMMED INSTRUCTIONS. IT INDICATES COMPUTER RESERVE TIME.
 2. AT THIS POINT THE COMMAND REG IS SET FOR THE CORRECT UNIT, FWD DIR, GO, READ. THE CORRECT BACK AND AMBS BEING FOUND AND AT THIS SLE, THE NEW GROUND CODE IS IN THE RT REG.
 3. THIS SDRC LOADS THE STATUS OF THE COM REG, INTO THE R/C. SO THE WRITE BIT CAN BE PUT IN OR REMOVED WITHOUT CHANGING ANY OTHER COM REG. CONDITION. THIS ALSO CLEARS THE QLF AS THE SOLC DOES NOT.
 4. THE OTHER 2 PARALLEL WRITE BITS WORK IDENTICAL TO SR0, WR0, AND WOP.
 5. AT THIS POINT IF ANY COM REG. FUNCTION OTHER THAN FWD CHARGED, THEN UNIT GO. UNIT STOP UNTIL WTS. BELAY TIMES AND WTS. IS SET.

FIRST USED IN OPTION MODEL		QTY.	DESCRIPTION	PART NO.	REV.
TU8-E					
UNLESS OTHERWISE SPECIFIED					
DIMENSIONS ARE IN INCHES					
TOLERANCES					
DECIMALS	ANGLES	DATE			
.XX - .00	± 0° 30'	DATE	1/16/71	EQUIPMENT COMPENSATION	
.XX - .01	± 0° 30'	DATE	1/16/71	TITLE	
.XX - .02	± 0° 30'	DATE	1/16/71	TIMING DIAGRAM	
.XX - .03	± 0° 30'	DATE	1/16/71	DRAWING NUMBER	
.XX - .04	± 0° 30'	DATE	1/16/71	DTD TD8-E-4	
.XX - .05	± 0° 30'	DATE	1/16/71	SCALE NONE	
.XX - .06	± 0° 30'	DATE	1/16/71	SHEET 2 OF 4	
.XX - .07	± 0° 30'	DATE	1/16/71	NEXT HIGHER ASSY.	
.XX - .08	± 0° 30'	DATE	1/16/71	A-ML-TD8-E	
.XX - .09	± 0° 30'	DATE	1/16/71	FINISH	
.XX - .10	± 0° 30'	DATE	1/16/71	DRAWING NUMBER	
.XX - .11	± 0° 30'	DATE	1/16/71	DTD TD8-E-4	
.XX - .12	± 0° 30'	DATE	1/16/71	SHEET 2 OF 4	
.XX - .13	± 0° 30'	DATE	1/16/71	NEXT HIGHER ASSY.	
.XX - .14	± 0° 30'	DATE	1/16/71	A-ML-TD8-E	
.XX - .15	± 0° 30'	DATE	1/16/71	FINISH	
.XX - .16	± 0° 30'	DATE	1/16/71	DRAWING NUMBER	
.XX - .17	± 0° 30'	DATE	1/16/71	DTD TD8-E-4	
.XX - .18	± 0° 30'	DATE	1/16/71	SHEET 2 OF 4	
.XX - .19	± 0° 30'	DATE	1/16/71	NEXT HIGHER ASSY.	
.XX - .20	± 0° 30'	DATE	1/16/71	A-ML-TD8-E	
.XX - .21	± 0° 30'	DATE	1/16/71	FINISH	
.XX - .22	± 0° 30'	DATE	1/16/71	DRAWING NUMBER	
.XX - .23	± 0° 30'	DATE	1/16/71	DTD TD8-E-4	
.XX - .24	± 0° 30'	DATE	1/16/71	SHEET 2 OF 4	
.XX - .25	± 0° 30'	DATE	1/16/71	NEXT HIGHER ASSY.	
.XX - .26	± 0° 30'	DATE	1/16/71	A-ML-TD8-E	
.XX - .27	± 0° 30'	DATE	1/16/71	FINISH	
.XX - .28	± 0° 30'	DATE	1/16/71	DRAWING NUMBER	
.XX - .29	± 0° 30'	DATE	1/16/71	DTD TD8-E-4	
.XX - .30	± 0° 30'	DATE	1/16/71	SHEET 2 OF 4	
.XX - .31	± 0° 30'	DATE	1/16/71	NEXT HIGHER ASSY.	
.XX - .32	± 0° 30'	DATE	1/16/71	A-ML-TD8-E	
.XX - .33	± 0° 30'	DATE	1/16/71	FINISH	
.XX - .34	± 0° 30'	DATE	1/16/71	DRAWING NUMBER	
.XX - .35	± 0° 30'	DATE	1/16/71	DTD TD8-E-4	
.XX - .36	± 0° 30'	DATE	1/16/71	SHEET 2 OF 4	
.XX - .37	± 0° 30'	DATE	1/16/71	NEXT HIGHER ASSY.	
.XX - .38	± 0° 30'	DATE	1/16/71	A-ML-TD8-E	
.XX - .39	± 0° 30'	DATE	1/16/71	FINISH	
.XX - .40	± 0° 30'	DATE	1/16/71	DRAWING NUMBER	
.XX - .41	± 0° 30'	DATE	1/16/71	DTD TD8-E-4	
.XX - .42	± 0° 30'	DATE	1/16/71	SHEET 2 OF 4	
.XX - .43	± 0° 30'	DATE	1/16/71	NEXT HIGHER ASSY.	
.XX - .44	± 0° 30'	DATE	1/16/71	A-ML-TD8-E	
.XX - .45	± 0° 30'	DATE	1/16/71	FINISH	
.XX - .46	± 0° 30'	DATE	1/16/71	DRAWING NUMBER	
.XX - .47	± 0° 30'	DATE	1/16/71	DTD TD8-E-4	
.XX - .48	± 0° 30'	DATE	1/16/71	SHEET 2 OF 4	
.XX - .49	± 0° 30'	DATE	1/16/71	NEXT HIGHER ASSY.	
.XX - .50	± 0° 30'	DATE	1/16/71	A-ML-TD8-E	

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TIMING DIAGRAM FOR WRITING MARK TIME TRACKS (FORMATTING)

- NOTES:
1. THIS TIMING DIAGRAM DOES NOT INDICATE THE ONLY WAY OR A CORRECT WAY TO PROGRAM THE TP6-E FOR FORMATTING. ITS PRIMARY FUNCTION IS TO SHOW HOW TIME PULSES ARE GENERATED TO WRITE THE TIME & MARK TRACKS.
 2. THE GO SIGNAL IS SWITCHED ON BY COMPUTER TP4 TO ALLOW SETTLING OF THE UNIT SELECT LINES. DURING FORMATTING THE MARK TRACK IS WRITTEN FROM THE BIT 2 LOGIC.
 3. AT THIS TIME THE LAST OF THE END ZONE CODES HAVE BEEN WRITTEN, THE PROGRAM STOPS THE TAPE AND THE WTM SWITCH IS SET TO OFF.

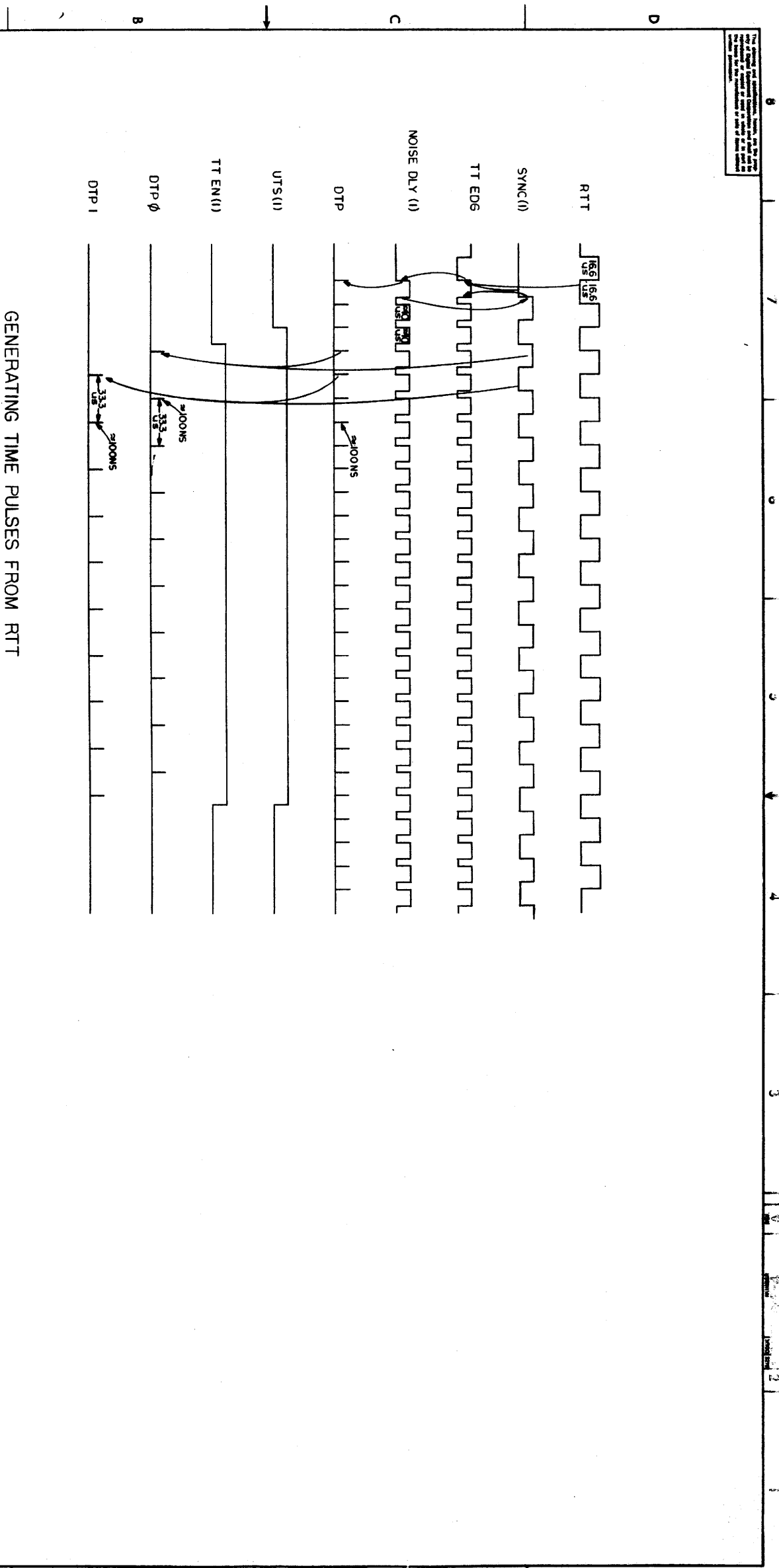
REV	CHANGE NO.	REVISIONS

8 7 6 5 4 3 2 1

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITER
TD8-E					
UNLESS OTHERWISE SPECIFIED					
DIMENSIONS IN INCHES					
DECIMALS					
ANGLES					
RELATIVE SURFACE AND HOLE SQUARE CORNERS SURFACE QUALITY					
MATERIAL					
FINISH					
DATE		DATE	TITLE		
DRAWN BY		DATE	TD8-E		
CHECKED BY		DATE	TIMING DIAGRAM		
NEXT NUMBER LIST		SCALE	NUMBER		
D1D		NONE	TD8-E-4		
SHEET 3 OF 4		REV.			

TD8-E-4

This drawing and specifications, however, are for the purpose of manufacturing or construction of a part or assembly of a part and are not intended to be used for any other purpose.

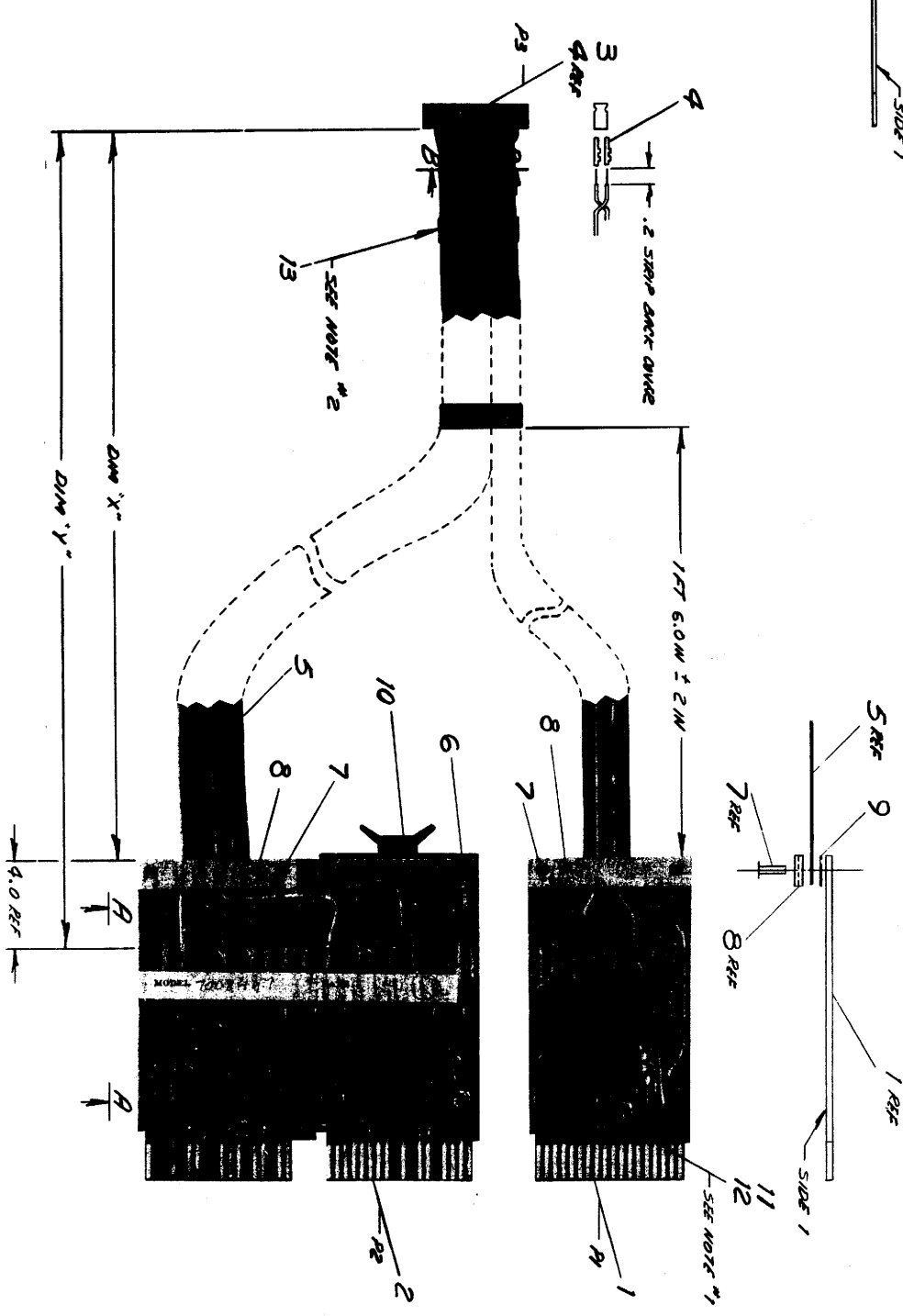
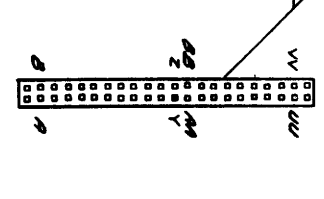
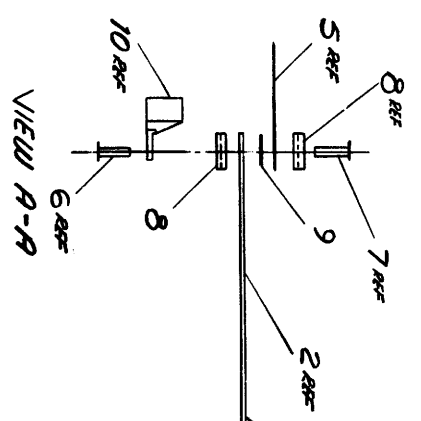


GENERATING TIME PULSES FROM RTT

REVISIONS	
CHK	REV

FIRST USED ON: QTY: MODEL: QTY: DESCRIPTION: PART NO. ITEM NO.	
TD8-E	
LIMITS OTHERWISE SPECIFIED	
DIMENSIONS IN INCHES	
TOLERANCES	
DECIMALS	ANGLES
.XX - .XX	± 0° 30'
.X - .X	± 1°
REMOVE BURRS AND BREAK SHARP EDGES	
COMMENCE FINISHES QUALITY	
MATERIAL	
NEXT HIGHER ASBY:	
FINISH	A-MIL-TD8-E
SCALE	NONE
SHEET	4 OF 4
PARTS LIST	
PART NO. QTY. DESCRIPTION	
1 TD8-E	
TITLE	
TD8-E	
TIMING DIAGRAM	
EQUIPMENT CORPORATION	
DRAWN: DATE: 1/18/57	
CHECKED: DATE: 1/18/57	
DESIGNED: DATE: 1/18/57	
APPROVED: DATE: 1/18/57	
DATE: 1/18/57	
DRAWN BY: [Signature]	
CHECKED BY: [Signature]	
DESIGNED BY: [Signature]	
APPROVED BY: [Signature]	
DATE: 1/18/57	

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LEGEND

NUMBER	VARIATION	DIM "X"	DIM "Y" APPROX
1008447-10	1.0 FT 1.2 IN	1.0 FT 1.2 IN	1.0 FT 1.2 IN
1008447-15	1.5 FT 1.3 IN	1.5 FT 1.3 IN	1.5 FT 1.3 IN

NOTES:

1. DIMENSIONS SHOW ARE FOR UNITS B AND I (708-F DEVICE CODE 67X) FOR OTHER UNIT SELECTION AND 708-F DEVICE CODES CHANGE DIMENSIONS AS FOLLOWS:
 DEVICE CODE SR DIMENSIONS
 677 X B # 1
 676 X C # 3
 625 X 4 # 5
 674 X 6 # 7
2. TAPE BOTH CABLES (ITEM #5) TOGETHER APPROXIMATELY EVERY 8 INCHES, USING BRACK RECESSION TAPE (ITEM #13).

PARTS LIST

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	CABLE ASSEMBLY	708-C	1
1	CABLE CONNECTOR	708-D	2
1	CABLE CONNECTOR	708-E	3
1	CABLE CONNECTOR	708-F	4
1	CABLE CONNECTOR	708-G	5
1	CABLE CONNECTOR	708-H	6
1	CABLE CONNECTOR	708-I	7
1	CABLE CONNECTOR	708-J	8
1	CABLE CONNECTOR	708-K	9
1	CABLE CONNECTOR	708-L	10
1	CABLE CONNECTOR	708-M	11
1	CABLE CONNECTOR	708-N	12
1	CABLE CONNECTOR	708-O	13

REVISIONS

CHK	CHANGE NO.	REV.
	TC8E-50001	A
	11/13/72	

ADAMS
 11/13/72

UNLESS OTHERWISE SPECIFIED
 DIMENSION IN INCHES
 TOLERANCES

DECIMALS	ANGLES
XXX.XXX	1/8°
X.X	1/4°
X.XX	1/2°
X.XXX	3/4°
X.XXXX	1°

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE FINISH

MATERIAL
 SEE PARTS LIST

FINISH

SCALE	SHEET	OF	TOTAL SHEETS
1/1	1	2	

SIZE CODE
 DIA 7008447-0-0

REVISIONS
 A

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WIRE TABLE

ITEM NO.	DESCRIPTION	FORM	MTH	CONSTRUCTION	QTY	REMARKS
5	BLK 19-198 SWGL SWAGE	R2-1		R3-M		
	28W	R1-1 GND		R3-M		
	28V	R1-2/2/2/1		R3-T		
	28W	R2-2 GND		R3-55		
	28Z	R1-5/8 2/1		R3-J		
	28W	R1-9 GND		R3-H		
	28U	R1-2W ALL WMT		R3-R		
	28V	R1-8 GND		R3-P		
	28Y	R1-3W/7/1/1		R3-L		
	28MT	R2-5 GND		R3-K		
	28K	R1-3E/2/1		R3-M		
	28V	R1-8 GND		R3-M		
	28D	R1-4W/7/1/1		R3-T		
	28W	R1-7 GND		R3-5		
	28C	R2-1 GND		R3-10		
	28V	R2-1/7T		R3-B		
	28D	R2-2 GND		R3-E		
	28W	R2-10/6		R3-F		
	28Z	R2-5 GND		R3-N		
	28W	R2-1/7T		R3-U		
	28U	R2-9 GND		R3-E		
	28V	R2-5 GND		R3-X		
	28Y	R2-6 GND		R3-F		
	28MT	R2-10/6		R3-W		
	28K	R2-8 GND		R3-X		
	28V	R2-10/6		R3-O		
	28W	R2-10/6		R3-Y		
	28Z	R2-8 GND		R3-Z		
	28W	R2-10/6		R3-K		
	28U	R2-9 GND		R3-L		
	28V	R2-10/6		R3-G		
	28Y	R2-10/6		R3-D		
	28MT	R2-10/6		R3-U		
5	28	28	SQUARE	R3-V		41 GND

UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN INCHES.	
TOLERANCES	
DECIMALS	ANGLES
.XX - .00	± 0° 30'
.X - .1	
REMOVE BURNS AND BREAK SHAIP	
CORNER SURFACE QUALITY	
MATERIAL	NEXT HIGHER ASST.
FINISH	

FIRST USED ON OPTIMUM MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
708-8				

DATE	DATE	DATE
8-8-71	8-22-71	8-22-71
BY	BY	BY
J. J. Sullivan	J. J. Sullivan	J. J. Sullivan
CHECKED	CHECKED	CHECKED
TITLE	SIZE CODE	NUMBER
CABLE	DIA	7008447-0-0
COMMAND # DATA	SCALE	2 OF 2

REVISIONS	
REV.	CHANGE NO.

DWG NO.	8
REV.	A

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY K. RUSS	CHECKED <i>[Signature]</i>	SECTION 1
DATE 8-19-71	DATE 8-25-71	ISSUED SECT 1
ENG <i>[Signature]</i>	PROD R.K. <i>[Signature]</i>	
DATE 8/26/71	DATE 7-30-71	

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	TDS-E	TDS-EH	TDS-EJ	TDS-EM	TDS-ER	QUANTITY / VARIATION	
1	E-CS-M868-0-1	SIMPLE DECTAPE CONTROL	1	1	1	1	1		
2	D-IA-7008447-0-0	DECTAPE CONTROL CABLE	1	1	1	1	1		
3	D-UA-TU56-M-Ø	TAPE TRANSPORT TU56-M	-	-	-	1	-		
3	D-UA-TU56-MH-Ø	TAPE TRANSPORT TU56-MH	-	1	-	-	-		
3	D-UA-TU56-MJ-Ø	TAPE TRANSPORT TU56-MJ	-	-	1	-	-		
3	D-UA-TU56-MR-Ø	TAPE TRANSPORT TU56-MR	-	-	-	-	1		
4	D-UA-H716-B-Ø	H716-B POWER SUPPLY	-	*	-	*	-		
4	D-UA-H716-D-Ø	H716-D POWER SUPPLY	-	*	-	*	-		
5	E-AD-7008487-0-0	SUPER COVER	-	-	1	-	1		

* NOTE: IF SYSTEM IS 110V USE 1 POWER SUPPLY H716-B (ITEM #4)
IF SYSTEM IS 220V USE 1 H716-D POWER SUPPLY (ITEM #4)

TITLE	TD8-E DECTAPE CONTROL	ASSY NO.	NONE	SIZE CODE	A PL	NUMBER	TD8-E-Ø	REV.	A	ECO NO.	TD8E-00001
		SHEET	1	OF	1	DIST					

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NOTES
 1 H722 IS USED IN 230V AC SYSTEM TO PRODUCE 115V FOR CABINET.

BLANK LOGO 7407936-9	LOGO 7407936-6
TU56M	H950-Q PANEL COVER 10.5"
TU56M	TU56M
TU56M	H950-Q PANEL COVER 10.5"
H950-Q PANEL COVER 10.5"	PDP9E (TD8-E's)
H950-Q PANEL COVER 10.5"	H950-Q PANEL COVER 10.5"
H950-Q PANEL COVER 10.5"	H950-Q PANEL COVER 10.5"

FAN H952-C
2 PER CAB

CABINET H960-B

AC CHANNEL 854(B) POWER CONTROL H716B(D) POWER SUPPLY H716B(D)	AC CHANNEL 854(B) POWER CONTROL H716B(D) POWER SUPPLY H716B(D) POWER SUPPLY H716B(D)
---	---

END PANEL
H952-A

SEE NOTE 1

LOGO 7407936-6	TU56M
TU56M	H950-Q PANEL COVER 10.5"
TU56M	PDP9E (TD8-E)
H950-Q PANEL COVER 10.5"	H950-Q PANEL COVER 10.5"
H950-Q PANEL COVER 10.5"	H950-Q PANEL COVER 10.5"

FRONT VIEW
WITH 1 OR 2 TU56'S

AC CHANNEL 854(B) POWER CONTROL H716B(D) POWER SUPPLY H716B(D) POWER SUPPLY	H722 TRANSFORMER
---	---------------------

SEE NOTE 1

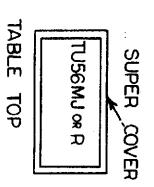
REAR VIEW
H950-C

REAR DOOR R.H.

REAR VIEW
H950-B

REAR DOOR L.H.
H950-B

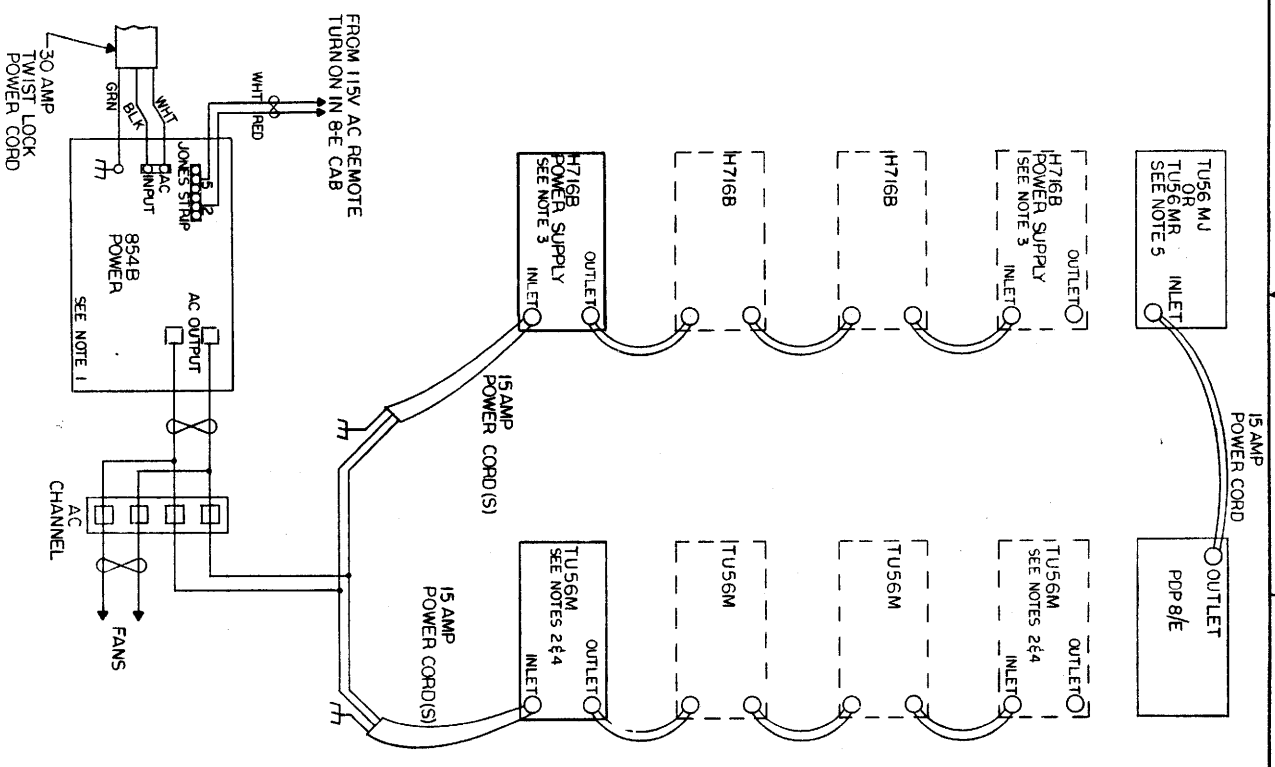
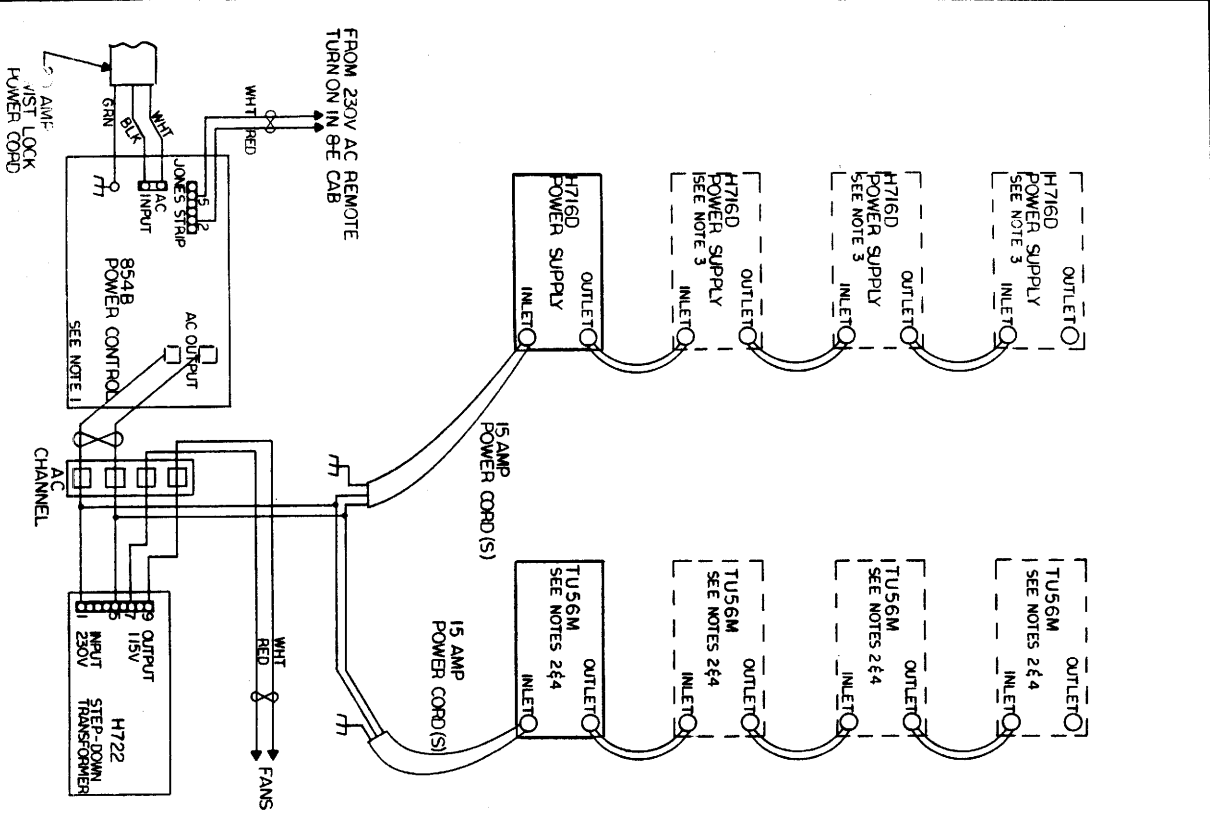
REAR DOOR R.H.
H950-C



REVISIONS		
CHK	CHANGE NO.	REV.
CH	TD8-E-00001	A
M. Quinn 1-6-72		
D. ADAMS		
P. Adams 1/13/72		

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
TD8-E					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
DECIMALS	ANGLES				
.XX" - .99"	± .005"				
1" - 1.99"	± .005"				
REMOVE BURRS AND BREAK SHARP EDGES TO PREVENT INJURY TO OPERATOR					
MATERIAL					
NEXT HIGHER ASST.					
A-1-M, TD8-E					
SCALE NONE					
SHEET 1 OF 1					
DATE		DATE	DATE	DATE	DATE
1/13/72		1/13/72	1/13/72	1/13/72	1/13/72
BY		BY	BY	BY	BY
P. Adams		P. Adams	P. Adams	P. Adams	P. Adams
CHECKED		CHECKED	CHECKED	CHECKED	CHECKED
D. Adams		D. Adams	D. Adams	D. Adams	D. Adams
DRAWN		DRAWN	DRAWN	DRAWN	DRAWN
P. Adams		P. Adams	P. Adams	P. Adams	P. Adams
TITLE		TITLE			
TD8-E		TD8-E			
CONFIGURATION		CONFIGURATION			
NUMBER		NUMBER			
DAR TD8-E-2		DAR TD8-E-2			
REV.		REV.			
A		A			

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- NOTES:
1. IF THE H716 AND TUS6 ARE MOUNTED IN THE 8-E CAB, THEN USE THE EXISTING 854 POWER CONTROL.
 2. UP TO 4 TD8 E'S AND TUS6M'S CAN BE CONNECTED TO ONE 8-E.
 3. FOR EACH TUS6M THERE WILL BE A H716 TO SUPPLY ITS DC POWER. (EXCEPT AS NOTED IN STEP 5)
 4. FOR THE FOLLOWING AC VOLTAGES MAKE THE CORRESPONDING JUMPER CONNECTIONS ON THE TUS6 TRANSFORMER.
 - 117V JUMPER 1-3, 2-4
 - 230V JUMPER 2-3
 5. FOR SMALL DESK TOP SYSTEMS THE POWER CONTROL AND POWER SUPPLY WILL NOT BE USED. THE TUS6 WILL GET +5V AND -15V FROM THE PDP-8E OMNIBUS. USE AWG #14 TWISTED PAIRS BETWEEN THE 8E AND TUS6.
 6. DC WIRING IS THE SAME FOR BOTH H716B AND H716D
 7. PLUG CABLE INTO EITHER OF ITS INDICATED LOCATIONS. THE OTHER LOCATION WILL NOT BE USED, AS THE TUS6'S ARE NOT SERIALLY CABLED TOGETHER. (BC02X-3)
 8. ALL DC POWER WIRES TO BE #14 AWG STRD TEFLON.
 9. M868 PLUGS INTO TUS6 AS SHOWN AT LEFT.

REV	CHANGE NO.	REV
A	TD8E-00001	A
B	TD8E-00002	B

ADAMS
11/3/72
ADAMS
4/2/72

REV	DESCRIPTION	DATE	BY
1	POWER WIRING	11/3/72	ADAMS
2	SCALE NONE		
3	SIZE CODE		
4	NUMBER		
5	REV		

TD8-E

117V JUMPER 1-3, 2-4

230V JUMPER 2-3

FOR SMALL DESK TOP SYSTEMS THE POWER CONTROL AND POWER SUPPLY WILL NOT BE USED. THE TUS6 WILL GET +5V AND -15V FROM THE PDP-8E OMNIBUS. USE AWG #14 TWISTED PAIRS BETWEEN THE 8E AND TUS6.

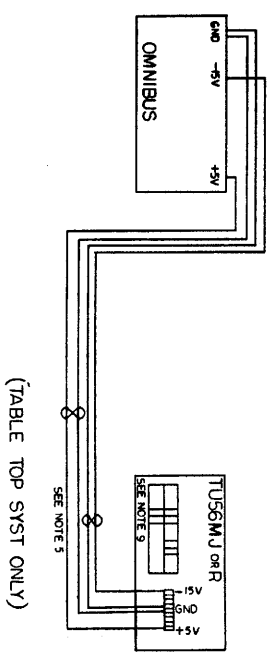
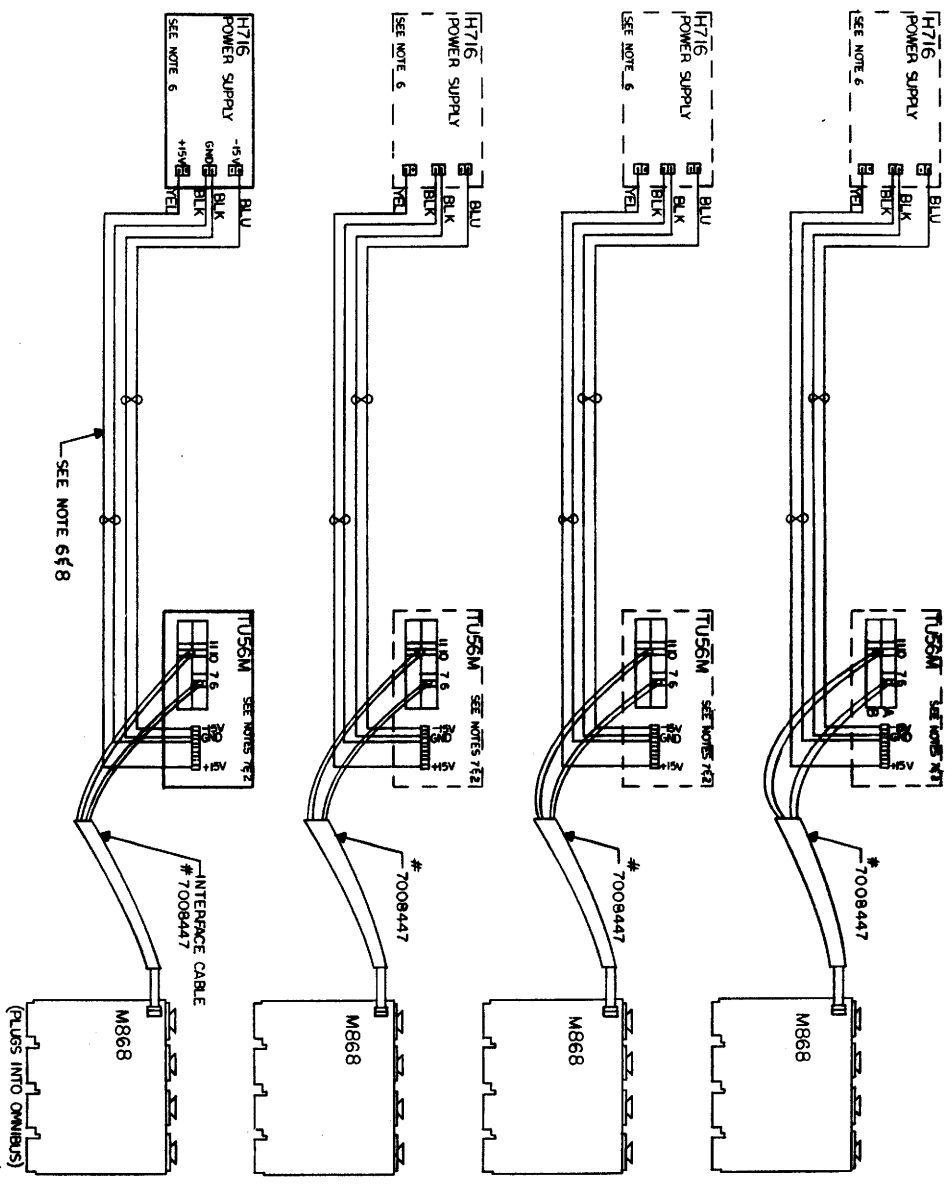
DC WIRING IS THE SAME FOR BOTH H716B AND H716D

PLUG CABLE INTO EITHER OF ITS INDICATED LOCATIONS. THE OTHER LOCATION WILL NOT BE USED, AS THE TUS6'S ARE NOT SERIALLY CABLED TOGETHER. (BC02X-3)

ALL DC POWER WIRES TO BE #14 AWG STRD TEFLON.

M868 PLUGS INTO TUS6 AS SHOWN AT LEFT.

This drawing and specifications, when used in conjunction with the drawings of the equipment, shall be used as the basis for the construction of the equipment.



REVISIONS	
CHK	CHANGE NO.

FIRST USED ON OPTION/MODEL		QTY	DESCRIPTION	PART NO.	REV
TD8-E					
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES					
FINISH	ANGLE	DRAWN	DATE	PART LIST	
MATERIAL					
NEXT HIGHER ASST.					
SCALE NONE					
SHEET 2 OF 2					
FINISH		DISTR.		NUMBER	REV
				DIC TD8-E-3	B

POWER WIRING

MASTER DRAWING LIST

MAINTENANCE MANUALS		UNIT VARIATIONS																		
		TU56	TU56C	TU56-H	TU56-BC	TU56-M	TU56-MC	TU56-MD	TU56-ME	TU56-MF	TU56-MG	TU56-MH	TU56-MI	TU56-MJ	TU56-MK					
NO.	TITLE																			
DEC-00-HRTB-D	TU56	X	X	X	X	X	X	X	X	X	X	X	X	X						

USED ON OPTIONS																				

REVISIONS	APP'D	H. D.				
	CHK'D	D. HEALY				
	ENG.	VAILLANT				
	PROD.	TOMPKINS				
	FIRST USED ON	TU56				
	SCALE	NONE				
DRN. K. GULICK DATE 7/69		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				
CHK'D. D. HEALY DATE 8/69						
ENG. VAILLANT DATE 8/69						
PROD. TOMPKINS DATE 8/69						
FIRST USED ON TU56						
SCALE NONE						
SHEET 1 OF 2		TITLE TU56 DECTAPE				
REV.	CHG. NO.		DATE	APP'D	NO.	DATE	REV.
AF	TU56-67	5/72	H. D.	67	5/72	AF
AH	TU56-68	5/72	H. D.	68	5/72	AH
AJ	TU56-70	5/72	H. D.	70	5/72	AJ
AK	TU56-71	5/72	H. D.	71	5/72	AK
AL	TU56-72	7/72	H. D.	72	7/72	AL
AM	TU56-76	3/73	H. D.	76	3/73	AM
AN	TU56-77	4/73	H. D.	77	4/73	AN
AP	TU56-78	6/73	H. D.	78	6/73	AP

DRA 131

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PRINT SET				DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE	OPTION NO.
X				E-UA-TU56-0-0	N	2	TU56 ASSEMBLY	
X				A-PL-TU56-0-0	N	3	TU56 ASSEMBLY (PARTS LIST)	
X				D-DI-TU56-0-1	P	1	DRAWING INDEX LIST TU56	
X				K-WL-TU56-0-2	D	1	TU56 DEC TAPE	
X				D-MU-TU56-0-MU	H	1	MODULE UTILIZATION TU56	
X				A-PL-TU56-0-MU	H	1	MODULE UTILIZATION TU56 (PARTS LIST)	
X				D-BS-TU56-0-TLD	L	2	TRANSPORT LOGIC DIAGRAM	
X				D-AD-7006321-0-0	E	1	WIRED ASSY TU56	
X				A-PL-7006321-0	E	1	WIRED ASSY TU56 (PARTS LIST)	
X				A-AL-TU56-0-5	F	1	ACCESSORY LIST	
				A-SP-TU56-0-3	A	5	TU56 SKEW CHECK & HEAD SHIMMING PROC.	
				A-SP-TU56-0-4		6	TU56 CHECKOUT PROCEDURE	
				A-SP-TU56-0-6		3	ACCEPTANCE PROCEDURE	
X				B-CS-G859-0-1	#	1	CLOCK REGULATOR	
X				B-CS-G851-0-1	#	1	RELAY	
X				B-CS-G888-0-1	#	1	MANCHESTER READER/WRITER	
X				B-CS-M302-0-1	#	1	ONE SHOT DELAY	
X				B-CS-G847-0-1	#	1	DUAL MOTOR VOLTAGE CONTROL	
X				B-CS-G848-0-1	#	1	MOTOR DRIVER	
X				D-AD-5408500-0-0	#	1	SWITCH CONTROL PANEL (TU56)	
X				A-PL-5408500-0-0	#	1	SWITCH CONTROL PANEL (PARTS LIST)	
X				E-AD-7006320-0-0	#	2	PANEL FRONT ASSY	
X				A-PL-7006320-0-0	#	2	PANEL FRONT ASSY (PARTS LIST)	

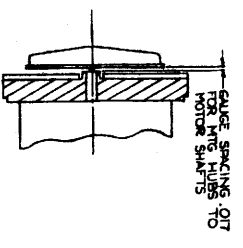
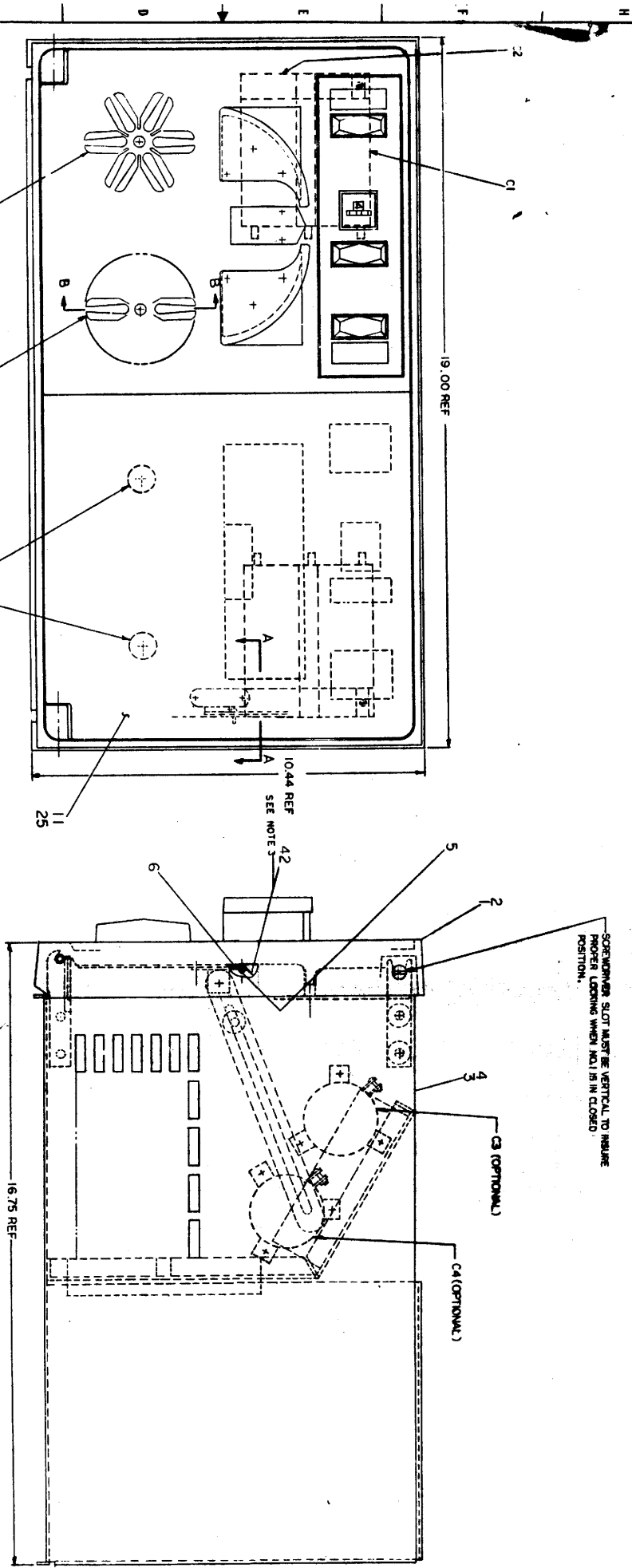
DRA 132

Dec 16-(325)-1048-1-N471

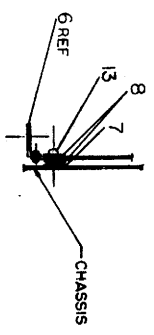
NUMBER	VARIATION
TUS6-H	AS SHOWN (1/2 UNIT)
TUS6	DOUBLE UNIT
TUS6-C	DOUBLE UNIT
TUS6-NC	AS SHOWN (1/2 UNIT)
TUS6-N	DOUBLE UNIT
TUS6-M	AS SHOWN (1/2 UNIT)
TUS6-MU	AS SHOWN (1/2 UNIT)
TUS6-MR	DOUBLE UNIT

- NOTES:
- FOR DRAWING INDEX LIST REFER TO DRAWING D-01-TUS6-0-1
 - ITEMS 36 & 37 ARE TO BE USED FOR THE OF UNIT ASSY IN HISSO CABINET. ITEM 38 TO BE USED FOR MTR. IN TUBULAR STYLE CAB.
 - GROUND WIRE WILL BE PRESSED WITH WIRES TO MOTOR *4, AND RUN FROM LOGIC BAR TO ITEM 42.

SCREWDRIVER SLOT MUST BE VERTICAL TO INSURE PROPER LOCKING WHEN NOT IN CLOSED POSITION.



SECTION B-B



SECTION A-A
2 PLACES

REV	DATE	BY	CHKD	DESCRIPTION
1	11-15-77			ISSUED FOR PRODUCTION
2	11-15-77			REVISION
3	11-15-77			REVISION
4	11-15-77			REVISION
5	11-15-77			REVISION
6	11-15-77			REVISION
7	11-15-77			REVISION
8	11-15-77			REVISION
9	11-15-77			REVISION
10	11-15-77			REVISION
11	11-15-77			REVISION
12	11-15-77			REVISION
13	11-15-77			REVISION
14	11-15-77			REVISION
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47	11-15-77			REVISION
48	11-15-77			REVISION
49	11-15-77			REVISION
50	11-15-77			REVISION

TU56 ASSEMBLY

CONTINUED

DATE: 11-15-77

BY: [Signature]

CHKD: [Signature]

REV: 1

DATE: 11-15-77

BY: [Signature]

CHKD: [Signature]

REV: 2

DATE: 11-15-77

BY: [Signature]

CHKD: [Signature]

REV: 3

DATE: 11-15-77

BY: [Signature]

CHKD: [Signature]

REV: 4

DATE: 11-15-77

BY: [Signature]

CHKD: [Signature]

REV: 5

DATE: 11-15-77

BY: [Signature]

CHKD: [Signature]

REV: 6

DATE: 11-15-77

BY: [Signature]

CHKD: [Signature]

REV: 7

DATE: 11-15-77

BY: [Signature]

CHKD: [Signature]

REV: 8

DATE: 11-15-77

BY: [Signature]

CHKD: [Signature]

REV: 9

DATE: 11-15-77

BY: [Signature]

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REV: 10

DATE: 11-15-77

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REV: 11

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DATE: 11-15-77

BY: [Signature]

CHKD: [Signature]

REV: 46

DATE: 11-15-77

BY: [Signature]

CHKD: [Signature]

REV: 47

DATE: 11-15-77

BY: [Signature]

CHKD: [Signature]

REV: 48

DATE: 11-15-77

BY: [Signature]

CHKD: [Signature]

REV: 49

DATE: 11-15-77

BY: [Signature]

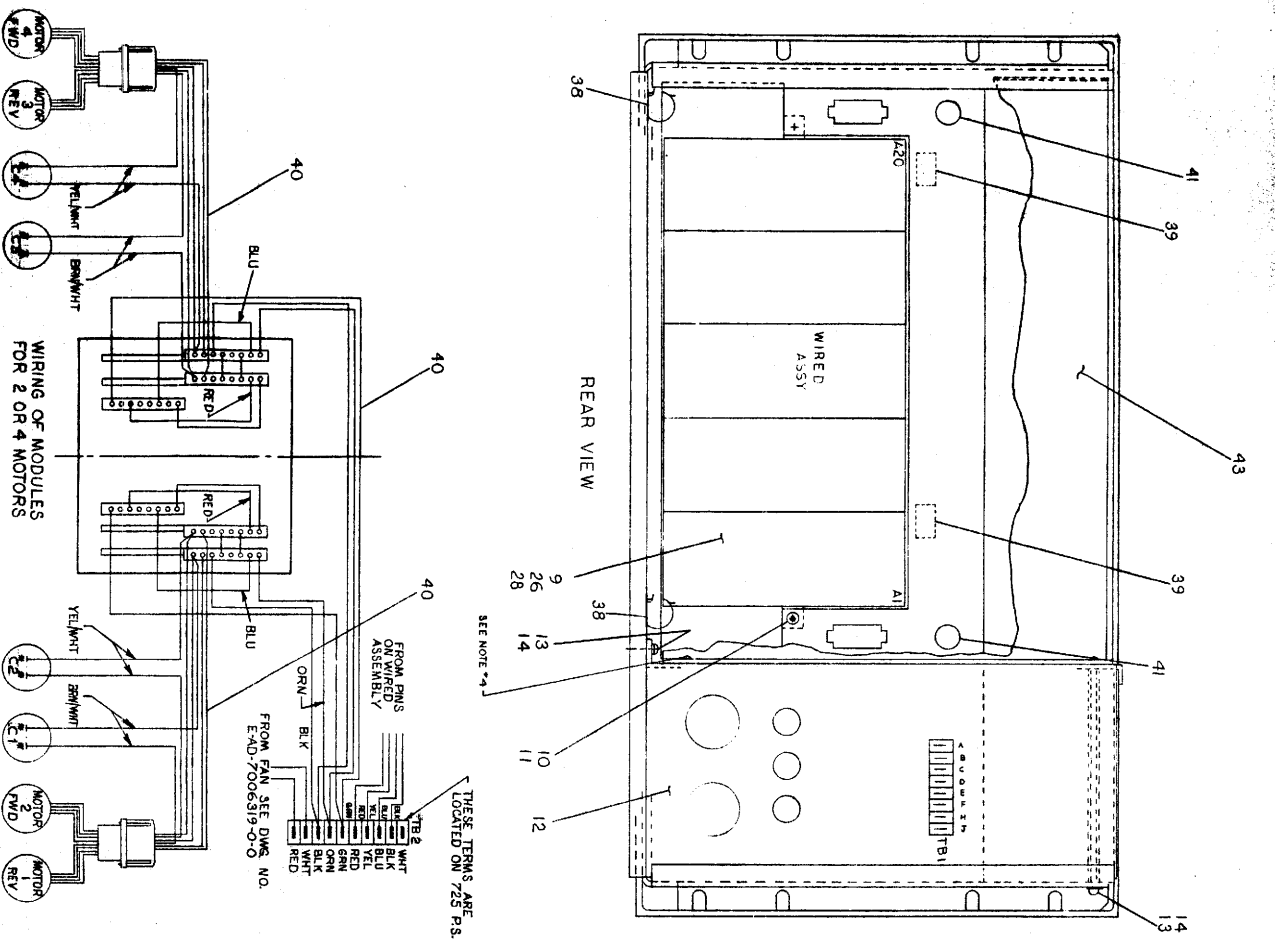
CHKD: [Signature]

REV: 50

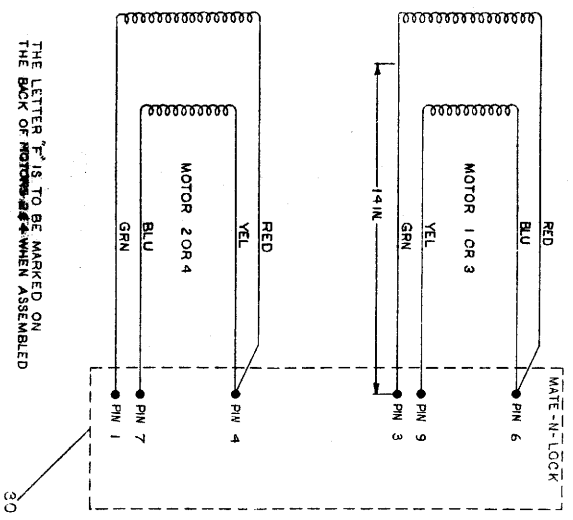
DATE: 11-15-77

BY: [Signature]

CHKD: [Signature]



MOTOR WIRING DIAGRAM



*MOTORS SUPPLIED WITH WIRES PART NO. 33 TO BE CRIMPED ON WIRE AND INSERTED INTO PART NO. 30 AT ASSEMBLY.
 2. *ASTERISK INDICATES WIRES TO BE SOLDERED IN PLACE AT POINT INDICATED WITH NO. 2 AND NOT SHOWN USE WHERE RED 4 BRACKET WHEN BRACKET IS SHOWN AFTER SHIPMENT. REPLACE SCREWS.

<p>U.S. GOVERNMENT PRINTING OFFICE: 1963 O 549</p> <p>WALLACE ELECTRIC COMPANY WALL LANE WASHINGTON, D.C.</p> <p>TU56 ASSEMBLY</p>	<p>DATE: 1963</p> <p>BY: [Signature]</p> <p>APPROVED: [Signature]</p>
--	---

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY KEN GUILICK
DATE 9/6/69
CHKD C. VALLIANT
DATE 9/26/69
ISSUED SECT. 1

CHECKED D. HEALEY
DATE 9/19/69
PROB E. R. TOMPKINS
DATE 8/26/69
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	TU56-H	TU56	TU56-M	TU56-MR	TU56-HC	TU56-C	TU56-MD	TU56-MC	TU56-MH	TU56-MJ
1	E-AD-7006320-1-0	PLATE FRONT ASSEMBLY	1	1	1	1	1	1	1	1	1	1
2	E-AD-7006320-2-0	PLATE FRONT ASSEMBLY	1	1	1	1	1	1	1	1	1	1
3	E-AD-7006319-1-0	CHASSIS ASSEMBLY	1	1	1	1	1	1	1	1	1	1
4	E-AD-7006319-2-0	CHASSIS ASSEMBLY	1	1	1	1	1	1	1	1	1	1
5	9006078-1	PCB PWR 10-32 X 3/8 ING SST	4	4	4	4	4	4	4	4	4	4
6	1209600	LID SUPPORT #43067 CHAMIZAR & FANCOVAR	2	2	2	2	2	2	2	2	2	2
7	9008135	WAFER CURVED #0250-0075 ASSOC SER	2	2	2	2	2	2	2	2	2	2
8	9008146	WAFER FLAT .630 D.X. 231. D.X. 048 THK SST	4	4	4	4	4	4	4	4	4	4
9	D-AD-7006321-0-0	WAFER ASSY TU56	1	1	1	1	1	1	1	1	1	1
10	9006075-1	SCR PHL HD PWR #10-32 X 3/4 LG SST	2	2	2	2	2	2	2	2	2	2
11	9006565	NOT KEYS #10-32	6	6	6	6	6	6	6	6	6	6
12	D-UB-725-0-0	POWER SUPPLY 725 +	1	1	1	1	1	1	1	1	1	1
13	9006021-1	SCR PHL HD PWR 6-32 X 5/16 LG SST	5	5	5	5	5	5	5	5	5	5
14	9007651	WAFER EXT TOUCH #6 HOHM	3	3	3	3	3	3	3	3	3	3
15	9007917	CONN SOLIDWIRE #50902 APTWISS	12	64	64	64	32	32	32	32	32	32
16	9007193	CONN SOLIDWIRE #3000541B	3	6	6	6	3	3	3	3	3	3
17	9007193	CONN SOLIDWIRE #3000541B	3	6	6	6	3	3	3	3	3	3
18	9007193	CONN SOLIDWIRE #3000541B	3	6	6	6	3	3	3	3	3	3
19	9007193	CONN SOLIDWIRE #3000541B	3	6	6	6	3	3	3	3	3	3
20	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
21	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
22	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
23	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
24	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
25	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
26	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
27	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
28	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
29	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
30	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
31	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
32	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
33	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
34	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
35	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
36	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
37	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
38	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
39	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
40	9107940-00	WAFER #12 ANG STD THRU/DR THK (D&E)	1	1	1	1	1	1	1	1	1	1
41	9007016	CONN SOLIDWIRE #50902 APTWISS	2	2	2	2	2	2	2	2	2	2
42	9000150	LOG #10 COVER, TIN PLATED	1	1	1	1	1	1	1	1	1	1
43	E-AD-7408211-0-0	SHIPPING BRACKET	1	1	1	1	1	1	1	1	1	1
44	1209331	DECTAPE TAKE-UP REEL	1	2	2	2	1	2	1	2	1	1

DEC FORM NO.16-1031
9/69

DEC FORM NO.16-1031
9/69

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY KEN GUILICK
DATE 9/6/69
CHKD C. VALLIANT
DATE 9/26/69
ISSUED SECT. 1

CHECKED D. HEALEY
DATE 9/19/69
PROB E. R. TOMPKINS
DATE 8/26/69
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	TU56-H	TU56	TU56-M	TU56-MR	TU56-HC	TU56-C	TU56-MD	TU56-MC	TU56-MH	TU56-MJ
43	E-AD-7408211-0-0	SHIPPING BRACKET	1	1	1	1	1	1	1	1	1	1
44	1209331	DECTAPE TAKE-UP REEL	1	2	2	2	1	2	1	2	1	1

DEC FORM NO.16-1031
9/69

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY KEN GUILICK
DATE 9/7/71
CHKD C. VALLIANT
DATE 9/26/69
ISSUED SECT. 1

CHECKED D. HEALEY
DATE 9/19/71
PROB E. R. TOMPKINS
DATE 8/26/69
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	TU56-H	TU56	TU56-M	TU56-MR	TU56-HC	TU56-C	TU56-MD	TU56-MC	TU56-MH	TU56-MJ
25	D-1A-7407534-0-0	COVER PLATE - 5ALP	1	1	1	1	1	1	1	1	1	1
26	C-1A-7405152-1-0	INTRO CABLE	1	1	1	1	1	1	1	1	1	1
27	9006078-1	PCB PWR 10-32 X 3/8 ING SST	4	4	4	4	4	4	4	4	4	4
28	D-1A-80728-3-0	CHASSIS EXTENSION #898	1	1	1	1	1	1	1	1	1	1
29	9006075-1	SCR PHL HD PWR #10-32 X 3/4 LG SST	2	2	2	2	2	2	2	2	2	2
30	1309351-09	WAFER H-LOCK SOCKET MOUNTING (9 PWR)	1	2	2	2	1	2	1	2	1	1
31	9006075-1	SCR PHL HD PWR #10-32 X 3/4 LG SST	2	2	2	2	2	2	2	2	2	2
32	D-1A-7006413-0-0	OPTICAL CABLE TU56	1	1	1	1	1	1	1	1	1	1
33	1309378	PIN, CONDUCTIVE	8	16	16	8	16	8	16	8	8	8
34	C-1A-7408907-0-0	BRACKET, RT, ANGUL SUPPORT	2	2	2	2	2	2	2	2	2	2
35	D-1A-7408909-0-0	BRACKET, RT, BRACKET	1	1	1	1	1	1	1	1	1	1
36	C-AD-7408322-0-0	BRACKET BLOCK	2	2	2	2	2	2	2	2	2	2
37	C-AD-7408321-0-0	MOUNTING BRACKET	1	1	1	1	1	1	1	1	1	1
38	9006340-0	WAFER PWR HARNESS CLASP (DK 4-375P)	2	2	2	2	2	2	2	2	2	2
39	9006341-0	WAFER PWR HARNESS CLASP (DK -188P)	2	2	2	2	2	2	2	2	2	2
40	9006981-0-0	WAFER PWR HARNESS CLASP (DK -188P)	1	1	1	1	1	1	1	1	1	1
41	9007016	CONN SOLIDWIRE #50902 APTWISS	2	2	2	2	2	2	2	2	2	2
42	9000150	LOG #10 COVER, TIN PLATED	1	1	1	1	1	1	1	1	1	1
43	E-AD-7006407-2-0	TABLE TOP COVER ASSY (TTCOV KIT)	1	1	1	1	1	1	1	1	1	1

DEC FORM NO.16-1031
9/69

DEC FORM NO.16-1031
9/69

DRWG NO
K-WL-TU56-0-2

REV LTR

D

REV LTR	EGO NO	DATE	ENG
A	TU56-00005	12-8-69	E.K.
B	TU56-00009	1-30-70	E.K.
C	TU56-00021	4-13-70	E.K.
D	TU56-00026	5-21-70	E.K.

REVISIONS

FIRST USED ON OPTION/MODEL
TU56

DRAWN
GULLICK
DATE
7-8-69

CHECKED
A. Rubin
DATE
8-20-69

ENG
E. Kuffner
DATE
8/25/69

PROJ ENG
E. Kuffner
DATE
8/25/69

PROD
E. Kuffner
DATE
8/25/69

SCALE NONE

SHEET 1 OF 1



EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TU56

TITLE

TU56
DEC TAPE

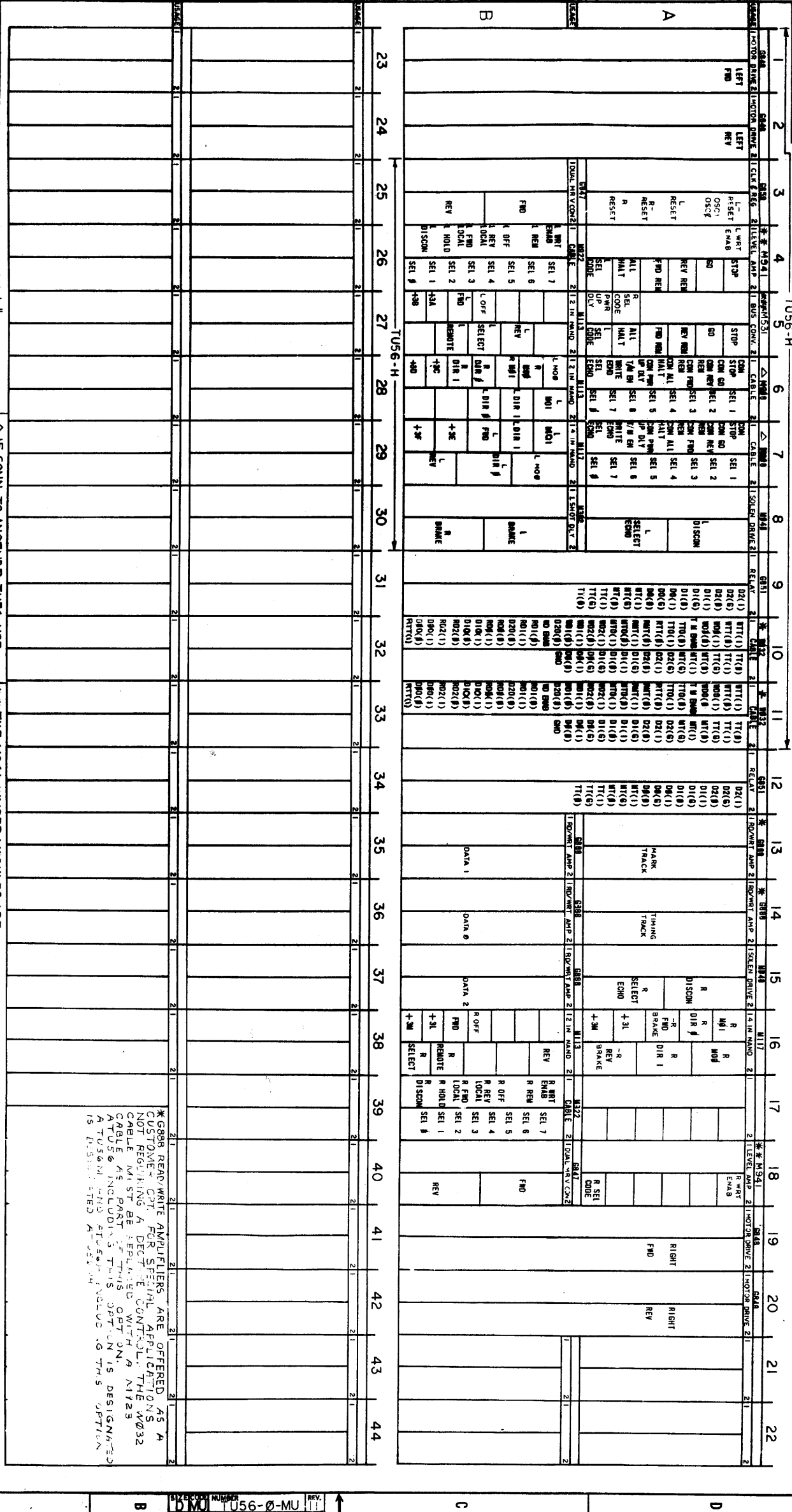
FOR TAPE # FILE *

SIZE CODE DWG. NO.
K WL TU56-0-2

REV LTR

D

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REV. NO.	CHANGE NO.	DESCRIPTION
1	TU56-00008	A
2	TU56-00026	P
3	TU56-0002E	C
4	TU56-00044	D
5	TU56-00054	E
6	TU56-00067	F
7	TU56-00072	H

IF CONN. TO ANOTHER TU56, USE CABLE #DUA-BC02X-3-0, IF CONN. TO TU55 USE CABLE #D-1A-7006223-0-0

THE M941 JUMPER MODULES ARE REPLACED WITH WS13 LEVEL AMPLIFIER MODULES WHEN THE TU56 IS CONNECTED TO A RELAY DRIVER TYPE CONTROL.

M942 JUMPER CARD REPLACES M941 WHEN TU56 IS USED WITH POSITIVE OUTPUT LOGIC CONTROL.

IF TU56 IS RECD USE ALL MODULES & CABLES SHOWN WITH THE EXCEPTION OF NOTES LISTED ABOVE. IF TU56-H IS RECD ONLY MODULES & CABLES IND. BY ARROWS ARE USED

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED

UNITED STATES GOVERNMENT

DATE: 10/1/72

BY: [Signature]

TITLE: MODULE UTILIZATION

NUMBER: TU56-0-MU

REV: 11

1

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY R. RYHER	CHECKED D. HEALY	SECTION
DATE 7/23/69	DATE 8/6/69	1
ENG E. [Signature]	PROD [Signature]	ISSUED SECT.
DATE 8/26/69	DATE 8/26/69	1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION													
			TU56- ϕ -MU	TU56-H-MU	TU56-M-MU	TU56-MH-MU	TU56-MR-MU	TU56-MJ-MU	TU56-C-MU	TU56-HC-MU	TU56-MC-MU	TU56-MD-MU				
G859		CLOCK REGULATOR G859	1	1	1	1	1	1	1	1	1	1	1	1		
W513		LEVEL AMPLIFIER W513 *	2	1	2	1	2	1	0	0	0	0	0	0		
M307		BUS CONVERTER M307	2	2												
M531		NEGATIVE INPUT CONVERTER	1	1	1	1	1	1	1	1	0	0	0	0		
M040		SOLENOID DRIVER M040	2	1	2	1	2	1	2	1	2	1	2	1		
G851		RELAY G851	2	1	2	1	2	1	2	1	2	1	2	1		
G888		MANCHESTER READER WRITER G888	0	0	5	5	5	5	5	5	0	0	5	5		
M117		6-4 INPUT NAND GATES M117	2	1	2	1	2	1	2	1	2	1	2	1		
M113		10-2 INPUT NAND GATES M113	3	2	3	2	3	2	3	2	3	2	3	2		
M302		DUAL DELAY MULTIVIBRATOR M302	1	1	1	1	1	1	1	1	1	1	1	1		
G848		MOTOR DRIVE	4	2	4	2	4	2	4	2	4	2	4	2		
G847		DUAL MOTOR CON	2	1	2	1	2	1	2	1	2	1	2	1		
M941		JUMPER/EXTENDER	2	1	2	1	2	1	2	1	2	1	2	1		
G742		+ LOGIC JUMPER	1	1	1	1	1	1	1	1	1	1	1	1		

* NOTE: SEE

D-MU-TU56- ϕ -MU

MODULE UTILIZATION LIST

TITLE	ASSY NO.	SIZE CODE	NUMBER	REV.	ECO NO.
MODULE UTILIZATION LIST	D-MU-TU56- ϕ -MU	A PL	TU56- ϕ -MU	H	TU56-00072
DEC FORM NO. DRA 110	SHEET 1 OF 1	DIST.			

1. * G888 READY/WRITE AMPLIFIERS ARE OFFERED AS A CUSTOMER OPTION FOR SPECIAL APPLICATIONS. THESE AMPLIFIERS ARE NOT REQUIRED FOR THE TUS6. CABLE MUST BE REPLACED WITH CABLES NOT REQUIRING A DEGRADE CONTROL. THE W32 CABLE MUST BE REPLACED WITH CABLES NOT REQUIRING A DEGRADE CONTROL. THE W32 CABLE MUST BE REPLACED WITH CABLES NOT REQUIRING A DEGRADE CONTROL. THE W32 CABLE MUST BE REPLACED WITH CABLES NOT REQUIRING A DEGRADE CONTROL.

2. * W313 LEVEL AMPLIFIERS ARE REQUIRED WHEN THE TUS6 IS REPLACED BY W314. RELAY DRIVER TYPE CONTROL THE W313 MODULES ARE REPLACED BY W314. JUMPER MODULES WHEN THE TUS6 IS CONNECTED TO ANY OTHER DEGRADE CONTROL.

3. ** G742 JUMPER CARD REPLACES W331 WHEN TUS6 IS USED WITH POS. OUTPUT LOGIC CONT.

4. TEST NAME

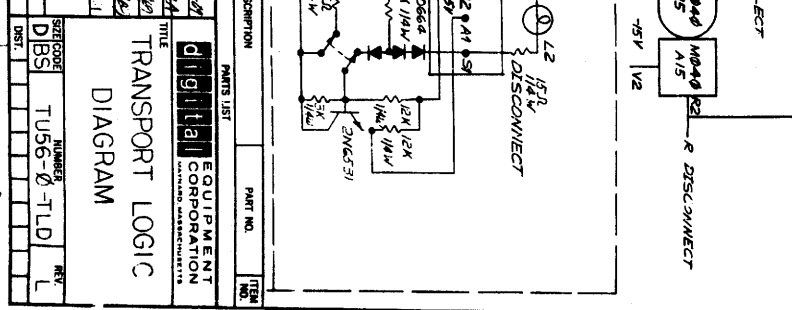
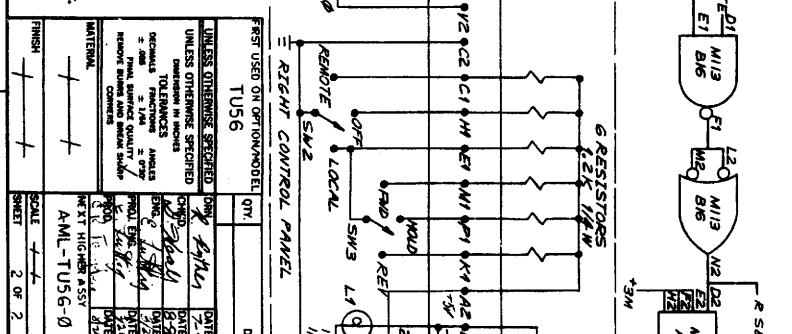
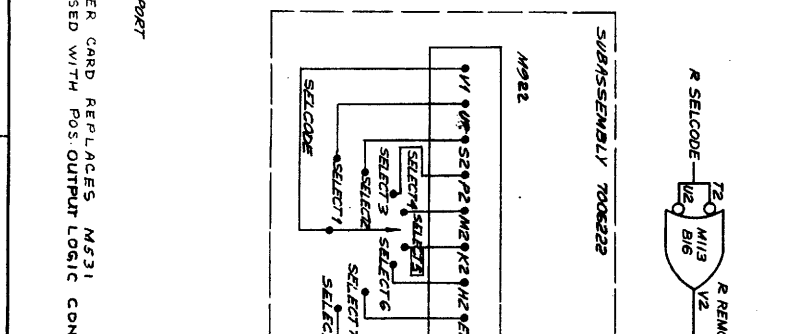
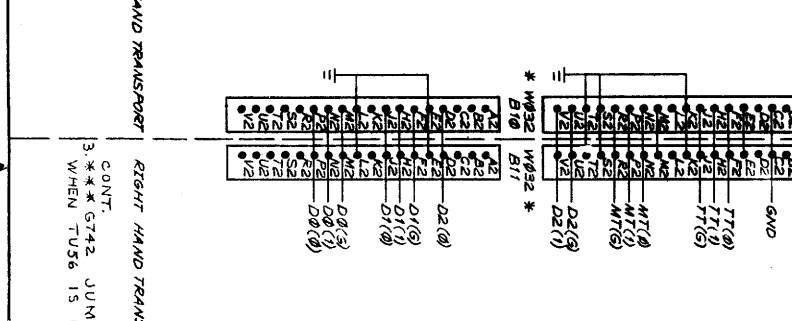
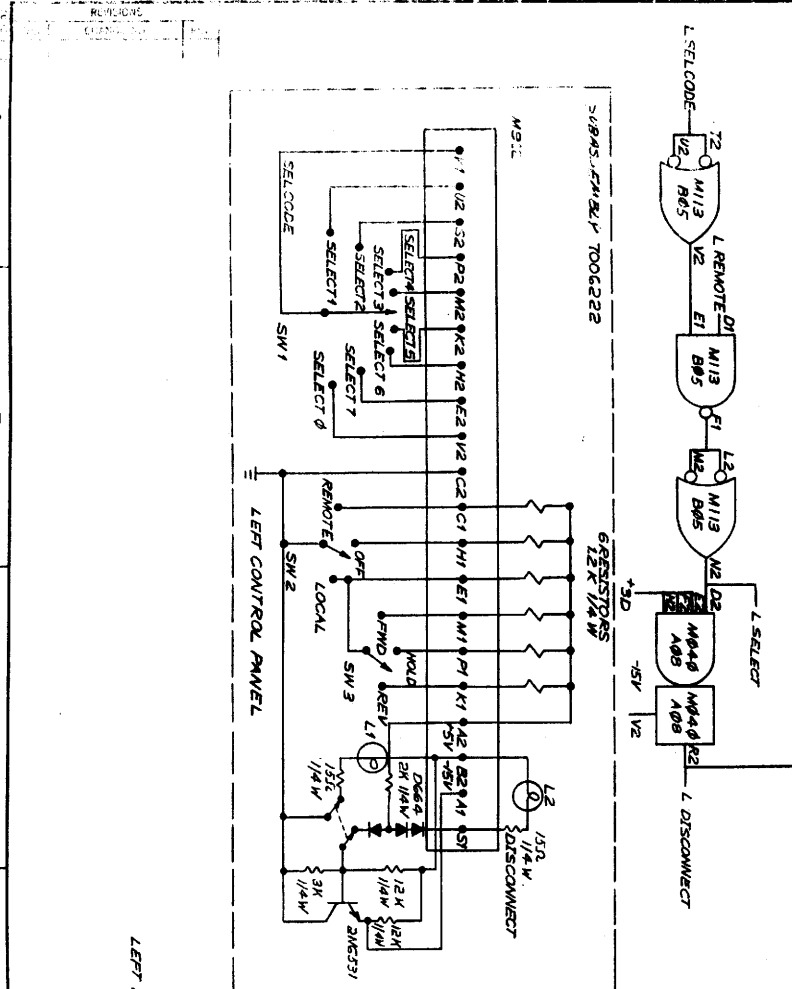
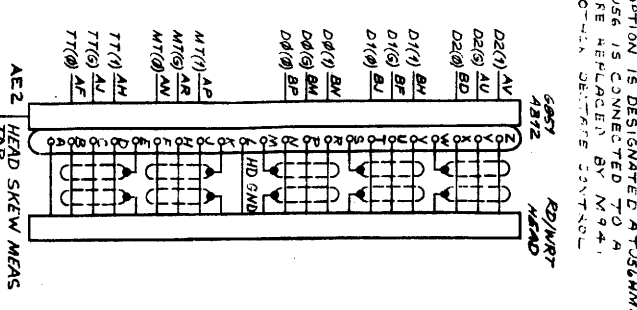
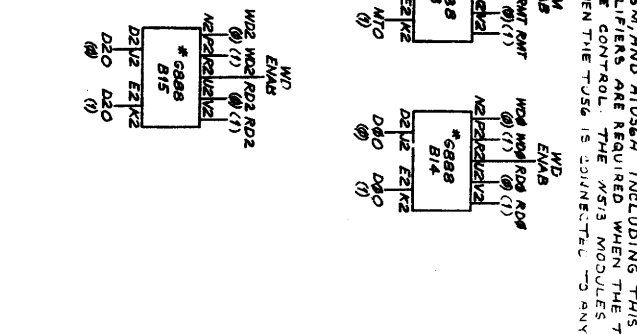
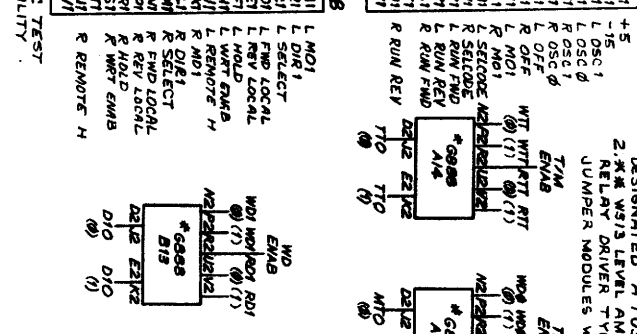
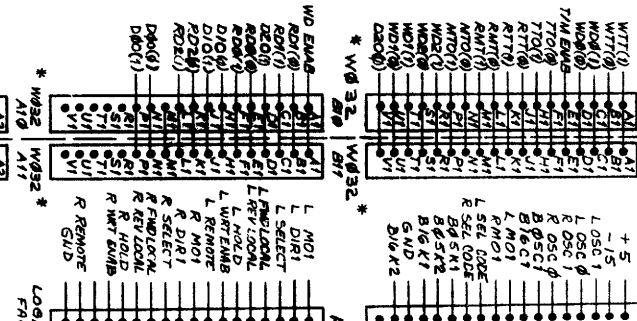
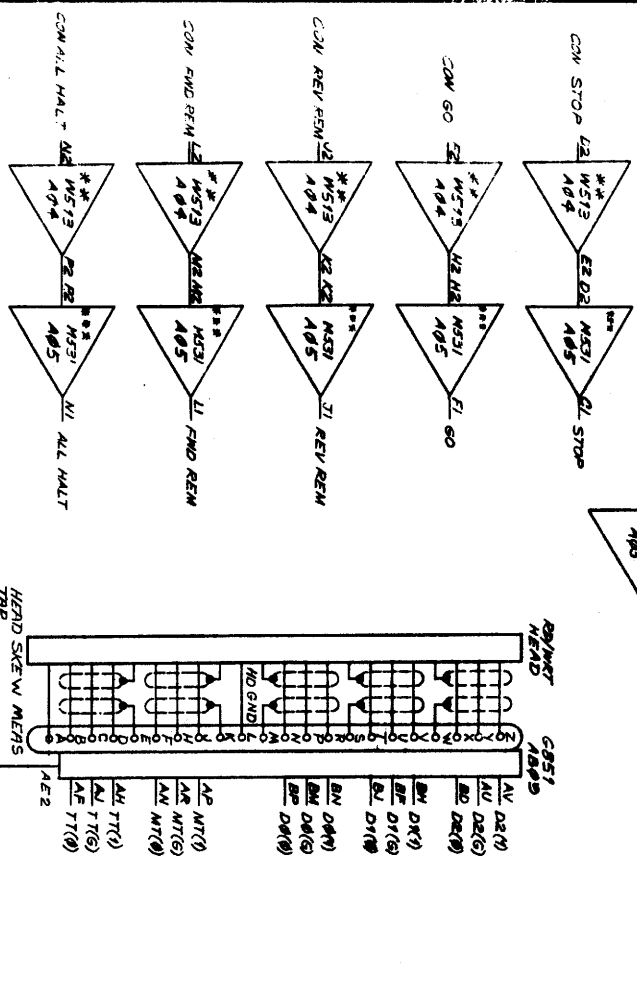
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6. * W332 W332 *
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7. * W332 W332 *
 W332 W332 *

8. * W332 W332 *
 W332 W332 *

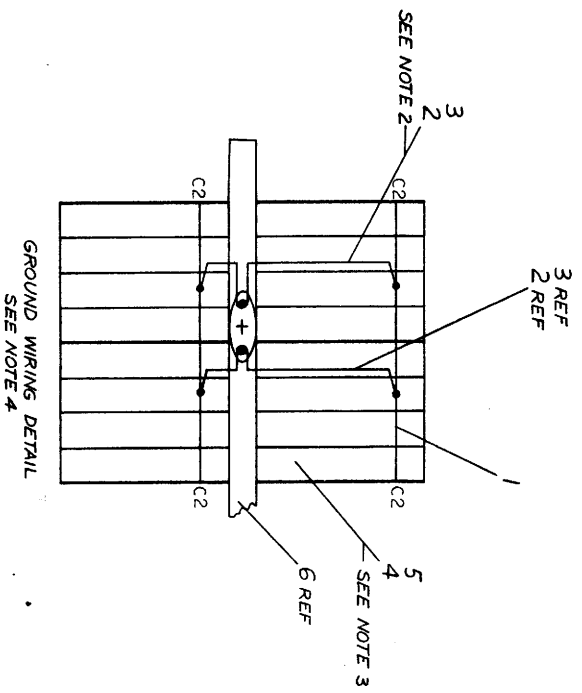
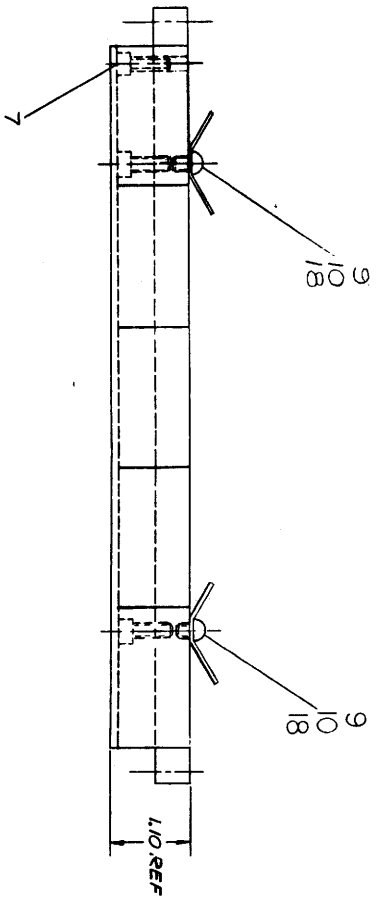
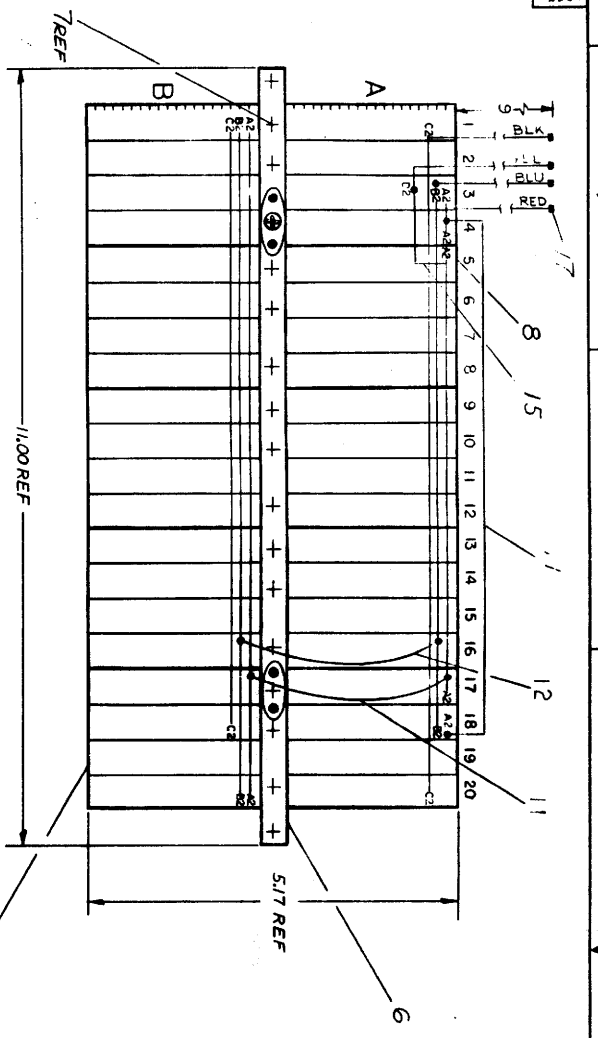
9. * W332 W332 *
 W332 W332 *



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ITEM NO.	COMP	POL	FROM	TO	POL
1/3	RESISTOR	X	AS 52	AS 51	X
1/3	RESISTOR	-	AS 52	AS 51	-
1/4	CAPACITOR	-	AS 51	AS 51	-
1/4	CAPACITOR	-	AS 51	AS 52	-

- NOTES:
1. CONNECTIONS ON ITEMS #1 & #2 TO BE SOLDERED AND LOCATED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCK
 2. CONN BLOCK TO BE GROUNDED
 3. TO GND LUG AS SHOWN
 4. USE YELLOW WIRE (ITEM #3) FOR MACHINE WRAPPED & BLUE WIRE (ITEM #4) FOR HAND WRAPPED WIRING
 5. JUMPER GROUND BUSSING AS SHOWN / PLACE



CHK	CHANGE NO	REV
	TU56-00005	A
	TU56-00013	B
	TU56-00017	C
	TU56-00055	D
	TU56-00062	E

TOLERANCES
DECIMALS
XXX = ± .005
XX = ± .02
X = ± .1

WIRING DETAIL

QUANTITY: 1

DESCRIPTION: WIRING DETAIL

PART NO: TU56

DATE: 8/1/58

BY: [Signature]

SCALE: 1/1

SHEET: 1 OF 1

REVISIONS:

NO	DATE	DESCRIPTION
1	8/1/58	WIRING DETAIL

**DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS**

PARTS LIST

MADE BY KEN GULICK
 DATE 6/19/69
 ENG *E. J. [unclear]*
 DATE 5/26/69

CHECKED D. HEALY
 DATE 7/23/69
 PROD C. D. [unclear]
 DATE 8/11/69

SECTION 1
 ISSUED SECT. 1

QUANTITY / VARIATION

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	SECTION	ISSUED SECT.	QTY	VAR
1	1205541	BUS STRIP				
2	9107560-01	22 AWG BUS WIRE				
3	9117265-09	#22 TUBING, TEFLON, WHITE				
4	9105740-44	30 AWG SOLID TEF INS, WIRE, YELLOW				
5	9105740-66	30 AWG SOLID TEF INS, WIRE, BLUE				
6	6-1A-7407393-0-0	MTG BAR (5 BLOCKS) TU56				
7	9006120	SCR. PHL. HD SELF-TAPPING 8-32 x 5/8				
8	1205348	288 PIN CONN BLOCK				
9	9006775	TERMINAL #2116-08-00 SHAKEPROOF				
10	9008143	SCR. PHL. HD SELF-TAPPING 8-32 x 1/2				
11	9107350-22	22 AWG STRD TEF INS WIRE, RED				
12	9107530-66	22 AWG STRD TEF INS WIRE, BLU				
13	7408016	RESISTOR 100 OHMS 1/4 W 5% CGW/TERMT PTS				
14	7408015	CAPACITOR 22 MED 35V S. TANT W/TERMT PTS				
REF	K-WI-TU56-0-2	WIRE LIST				
15	9107350-44	22 AWG STRD TEF INS WIRE, YEL				
16	9107350-00	22 AWG STRD TEF INS WIRE, BLK				
17	9007917	CONN. SOLDERLESS #50302 ANGLES				
18	9006634	WASHER INT #8				

TITLE: WIRED ASSY TU56

ASSY NO.: D-AD-7006321-0-0

SIZE CODE: A PL

SHEET 1 OF 1

DIST.

NUMBER: 7006321-0-0

REV: E

ECO NO.: TU56-000062

DIGITAL EQUIPMENT CORPORATION

RAYNARD, MASSACHUSETTS

ACCESSORY LIST

MADE BY J. Ingledue
 DATE 5/31/72
 ENG W. L. J.
 DATE 7/17/72

CHECKED 7/17/72
 DATE 7/17/72
 PROD DATE
 ISSUED SECT.

LEGEND
 DN DOCUMENT CHANGE
 DN DOCUMENT NOTICE
 PA PAPER TAPE ASCII
 PB PAPER TAPE BINARY
 PM PAPER TAPE READ-IN-MODE

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY / VARIATION	KIT CHECK	INSTALLATION CHECK
1	BC02X-03	Select Cable	1 1		
2	74-8321	Mounting Bracket. (H950 Cabinet)	1 1		
3	74-8322	Spacer Block (H950 Cabinet)	2 2		
4	TU56-0	Complete Print Set (see A-HL-TU56-0)	1 1		
5	DRC-00-SECT-D	Maintenance Manual	1 1		
6	12-9331	Take Up Reel	2 1		
7	TUC-01	Head Cleaning Kit	1 1		
8	74-5152-1	Head Cable	1 1		
9	GT42	Jump Module (Remove M531 and replace with GT42 for PDP-11 add-ons and OEM's)	1 1		
10	74-5996	Certified DECTape 12 Bit Format	2 1*		
11	74-5996-1	Certified DECTape 18 Bit Format	2 1*		
12	NOTE: Items 12 thru 14 are for Rack Mountable Field Add-on shipments only.	14 are for Rack Mountable Field Add-on shipments only.	1 1		
13	91-7673-06	AC Line Cord 6'	1 1		
13	90-8851	Mounting Hardware Bag	1 1		
14	91-7710 and 90-8849	Hook Up Wire	1 1		
*NOTE: Supply Item 10 for PDP-5, 8 Family, and 12; Item 11 for PDP-1, 4, 6, 7, 9, 10, 11, and 15.					
NOTE: When unit is to be connected to a TU55 or a relay driver control, refer to DECTape notes. When unit is to be installed on a tubular style cabinet, refer to DECTape notes.					
15	DRC-TU56-1PB-1	ILLUSTRATED PARTS BREAKDOWN	1 1		

TITLE DECTape DRIVE UNIT ACCESSORY SHIPPING KIT

ASSY. NO. SHEET 1 OF 1

SIZE CODE A A L

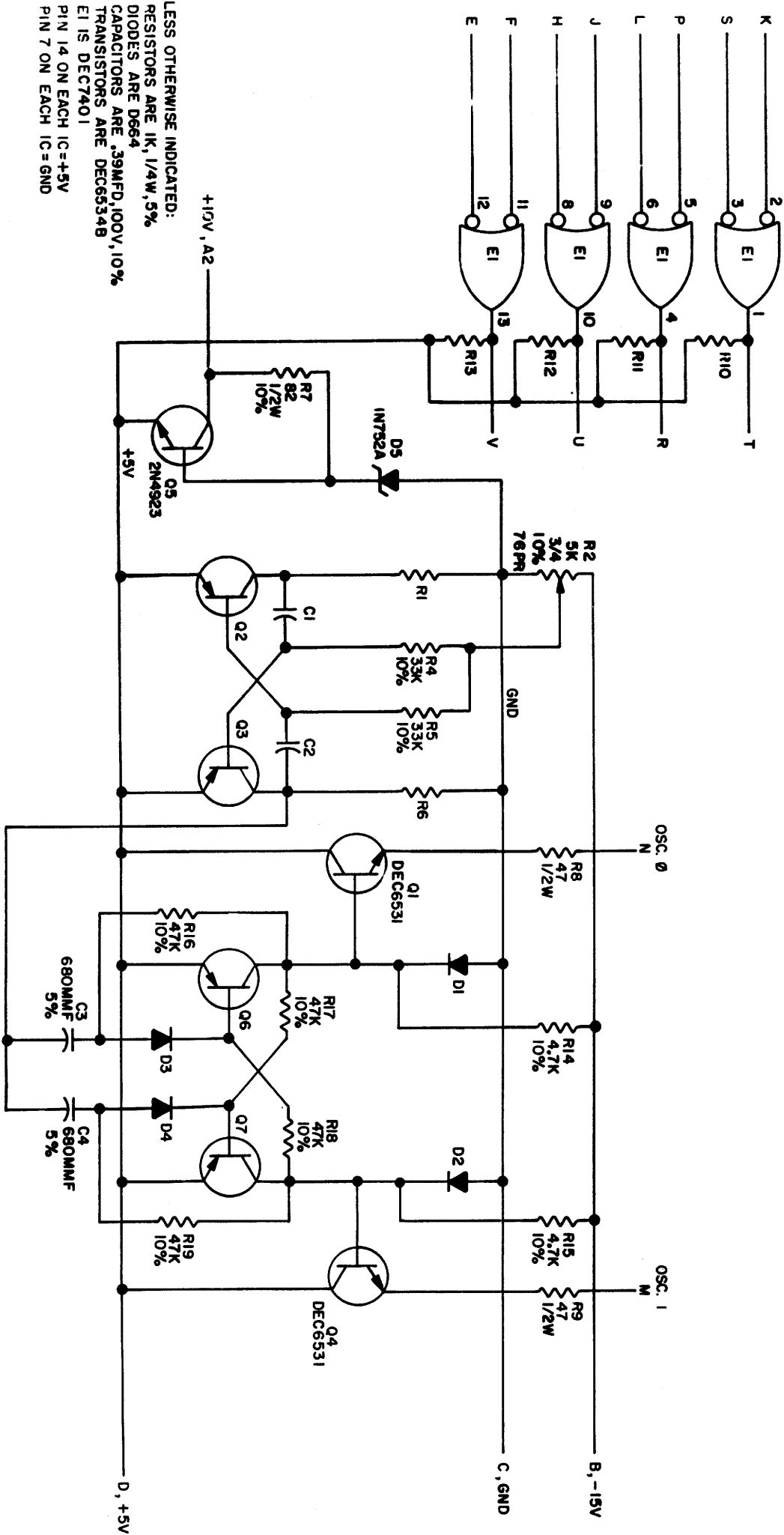
NUMBERS TU56-0-5

REV. E

ECO 00 TU56-000072

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

REV. C
NUMBER 1-0-65589
SIZE CODE CS B



UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1K, 1/4W, 5%
DIODES ARE D664
CAPACITORS ARE .39MFD, 100V, 10%
TRANSISTORS ARE DEC6534B
E1 IS DEC7401
PIN 14 ON EACH IC = +5V
PIN 7 ON EACH IC = GND

REVISIONS		
CHK	CHG NO	REV
✓	00001	A
✓	00002	B
✓	00003	C

DRN	DATE	CHK'D	DATE
0072892	11/8/69		
	1/17/69		
	10/1/69		

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	1N3606		
DEC6534B	MP36534B		
DEC6531	MP36531		
2N4923	SAME		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE			
SIZE	CODE	NUMBER	REV
B	CS	6859-0-1	C

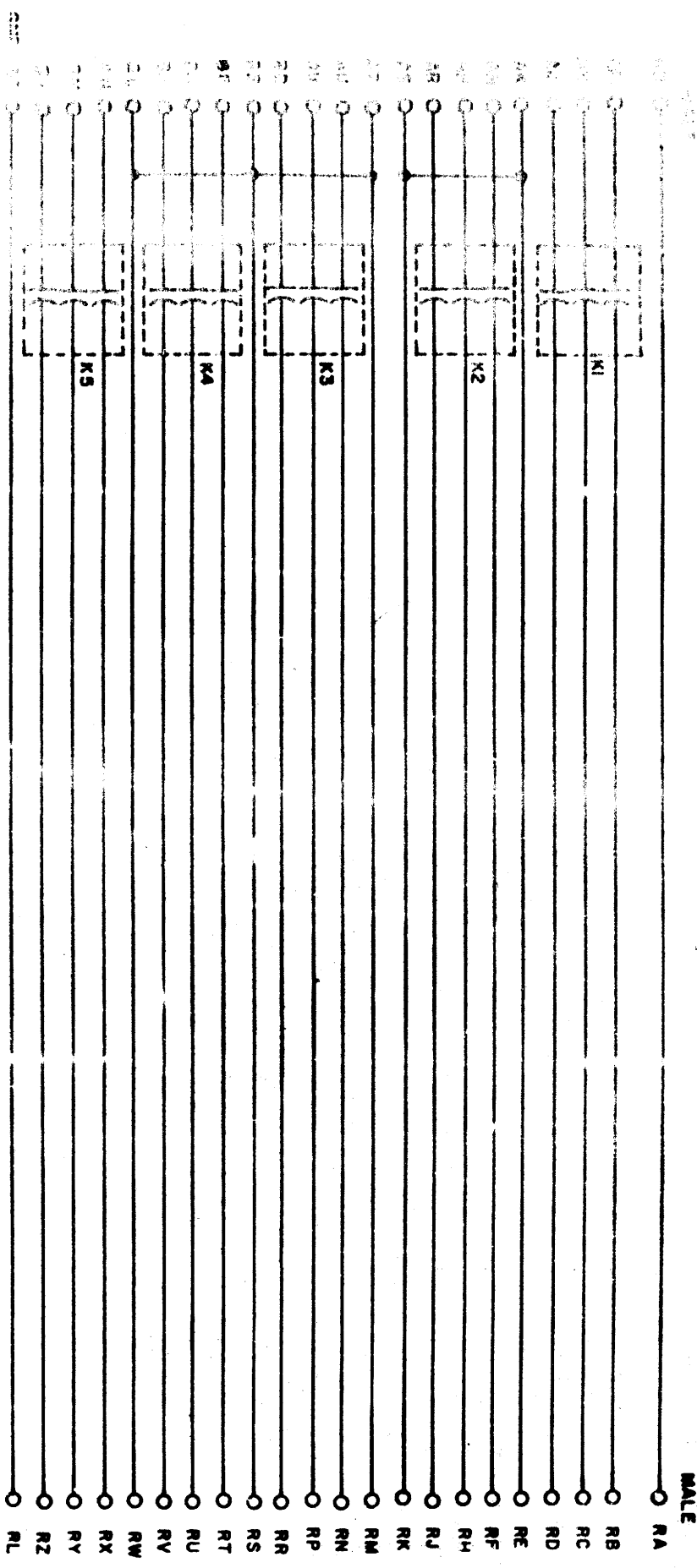
PRINTED CIRCUIT REV. A

FORM NO. 105

4 - P10X

Dist. 3-11-73 41433

THIS SCHEMATIC IS DRAWN ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE INDICATED IN BOLD AND SHOULD BE TREATED ACCORDINGLY. COMPONENTS ARE BY ORIGINAL EQUIPMENT COMPONENTS.



AMPHENOL
133-022-03

REVISIONS		
REV	NO	DATE
1	1	1-25-48
2	1	1-25-48
3	1	1-25-48

DATE	BY
1-25-48	N.W. PORTER
1-25-48	CHRD
1-25-48	R. PERINMAN
1-25-48	ENG.
1-25-48	D. WARDMAN
DATE	PROD.

TRANSITION & WIRE CONNECTION TEST			
DEC	EA	DEC	EA

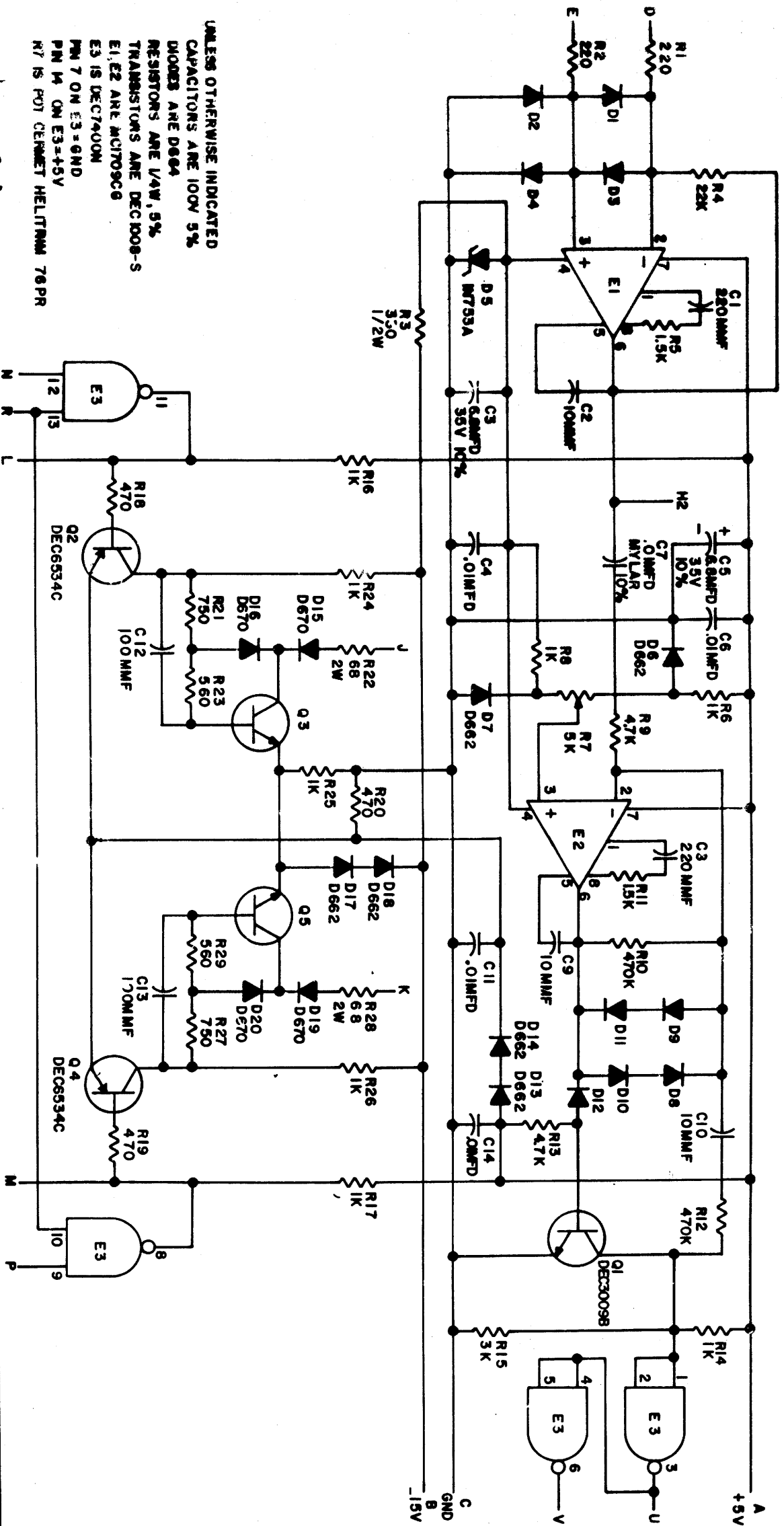
EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

TITLE
RELAY 6851

SIZE CODE
B CS 685-Q-1

PRINTED CIRCUIT REV. 18

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN SERVICE AND SHOULD BE TREATED AS SUCH. COPYRIGHT 1968 BY DIGITAL EQUIPMENT CORPORATION.



UNLESS OTHERWISE INDICATED
CAPACITORS ARE 100V 5%
DIODES ARE D664
RESISTORS ARE 1/4W, 5%
TRANSISTORS ARE DEC100-S
E1, E2 ARE MCT09C6
E3 IS DEC7400N
PIN 7 ON E3 = GND
PIN 14 ON E3 = +5V
N7 IS POT CERMET HELITRIM 78PR

REVISIONS		
CHK	CHK NO	REV
	00001	A
	00002	B
	00003	C

H. DRAB
Date: 11-11-72
Date: 11-11-72
Date: 11-11-72

DRN.	DATE	DATE
DRN. 1	11/11/72	11/11/72
DRN. 2	11/11/72	11/11/72
DRN. 3	11/11/72	11/11/72

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	1N645	DEC100-S	MCT09C6
D662	1N645	DEC100-S	MCT09C6
D670	SAW	DEC100-S	MCT09C6
DEC100-S	2N 3002	DEC100-S	MCT09C6

digital

EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

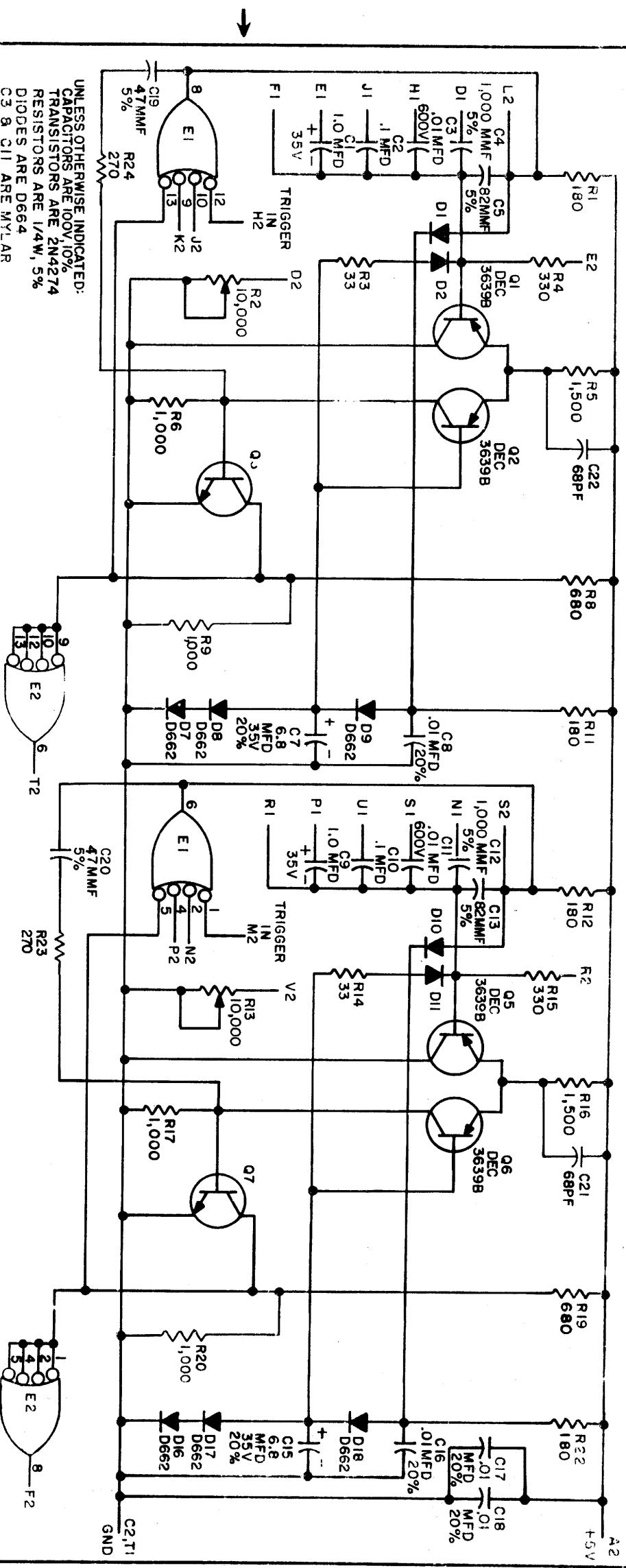
TITLE: MANCHESTER READER/WRIter 6888

SIZE: B
CODE: CS
NUMBER: 6888-0-1
REV: B

PRINTED CIRCUIT REV. A

DIST. 320,034, UFR 3

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UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE 100V, 10%
 TRANSISTORS ARE 2N4274
 RESISTORS ARE 1/4W, 5%
 DIODES ARE D664
 C3 & C11 ARE MYLAR
 E1 IS DEC74H40N
 PIN 14 ONICS = +5V
 R2 & R13 ARE HELLITRIM POT #79PR
 10MFD CAPACITORS ARE TANTALUM
 E2 IS DECA13N

PARTS LIST A-PL-M302-0-0

REVISIONS			TRANSISTOR & DIODE CONVERSION CHART			TITLE		
CHK	CHG NO.	REV.	DRN	DATE	DEC	EIA	DEC	EIA
	8507	B	Mr. Miller	6-5-67	2N4274	SAME	DEC3639B	IN645
	6719	C		7/1/67	2N3639	IN645	IN3606	D664
	6881	D		6/21/67	D662			
	7077	E						
	00001	F						
	00002	G						
	00003	H						
	00004	I						

SIZE	CODE	NUMBER	REV
B	CS	M302-0-1	L

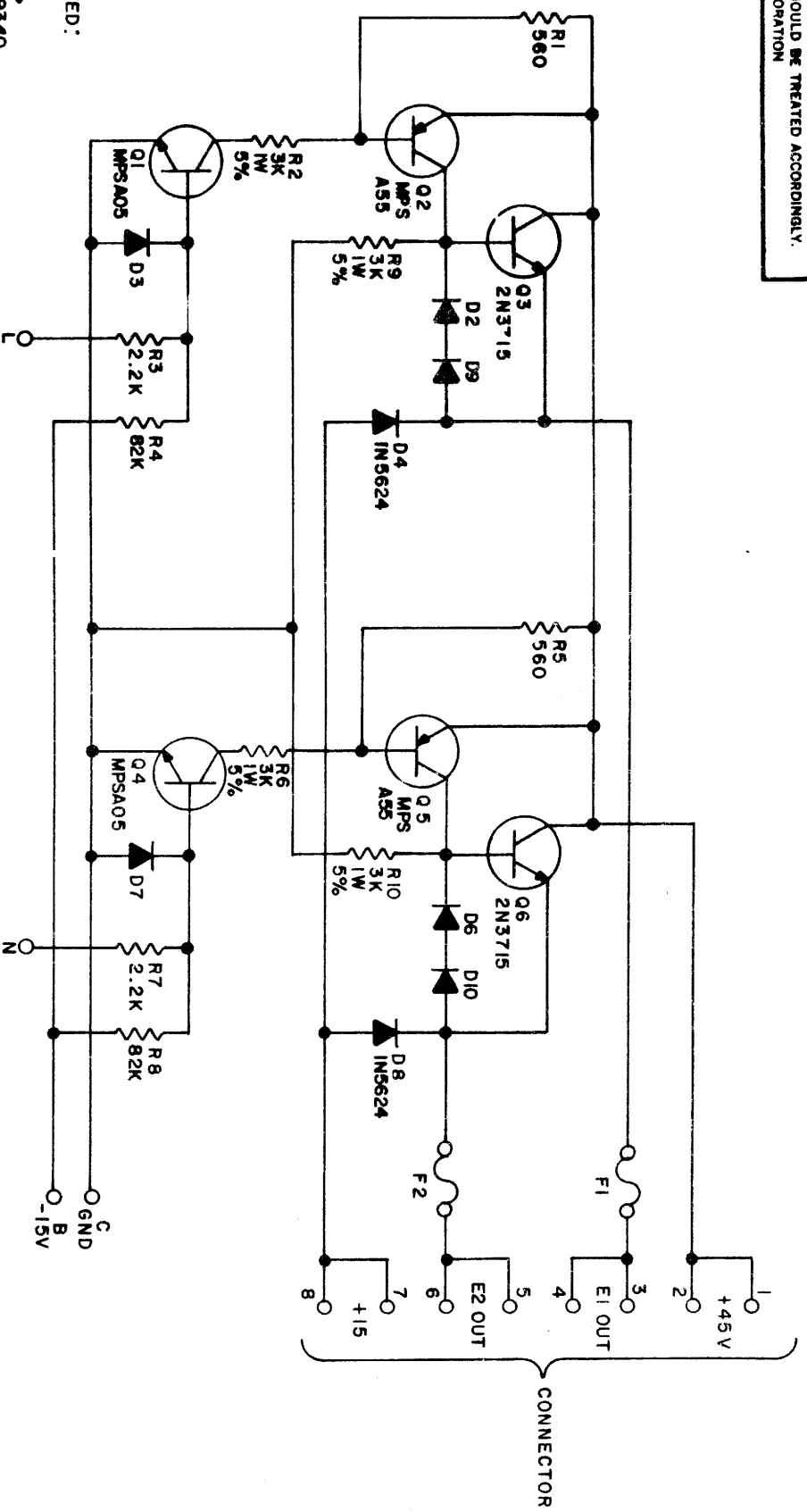
PRINTED CIRCUIT REV.	DIST	324	434	435	4
L					

DEC FORM NO. DRB 102

1-0-COLEM1 20 8
 NUMBER CODE 3715

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

REV D
 1-0-4889 CS B
 REVISION SIZE



UNLESS OTHERWISE INDICATED:
 DIODES ARE D672
 RESISTORS ARE 1/4W, 10%
 CONNECTOR IS DEC #1209340.
 CONNECTOR PINS ARE DEC #1209456
 F1, F2 ARE 5 AMP
 NOTE: Q1, Q2, Q4, Q5 HAVE VARIED PACKAGES
 DEPENDING ON SOURCE.
 SEE DIAGRAM:

MOTOROLA: MPSA05
 MPSA55
 GE: GPSA05
 GPSA55

BOTTOM VIEW

CHK	CHG NO.	REV
2	00002	A
	00003	
1	00004	B
2	00005	C
1	00006	C
NANCY MOORE		
MORGAUSTERN		
H. J. DODD		
H. J. DODD		
H. J. DODD		

DATE	DATE	DATE
9/16/69	9/16/69	9/16/69
2-17-70		

DATE	DATE	DATE
9/16/69	9/16/69	9/16/69
2-17-70		

DATE	DATE	DATE
9/16/69	9/16/69	9/16/69
2-17-70		

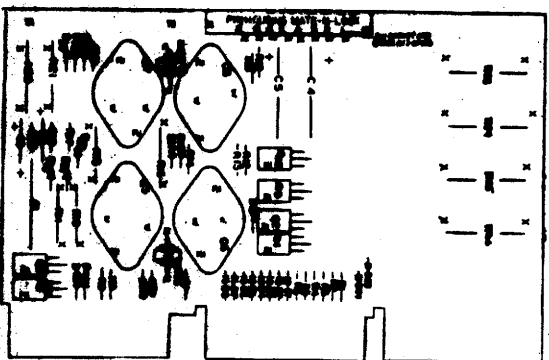
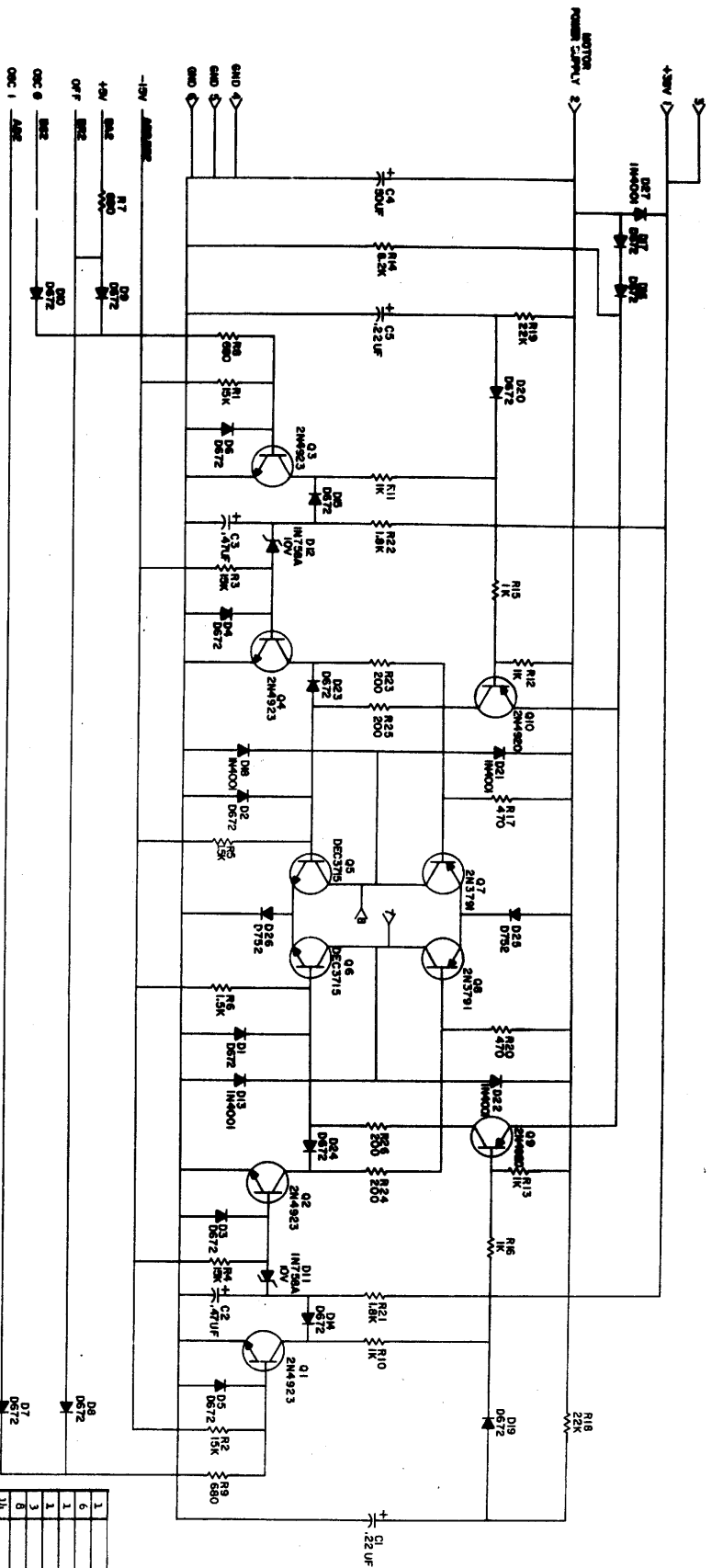
DATE	DATE	DATE
9/16/69	9/16/69	9/16/69
2-17-70		

TITLE
 DUAL MOTOR VOLTAGE
 CONTROL 6847

SIZE	CODE	NUMBER	REV
B	CS	6847-0-1	D

DEC FORM NO. DMS 102

5 PINK DIST. 324, 434, 435

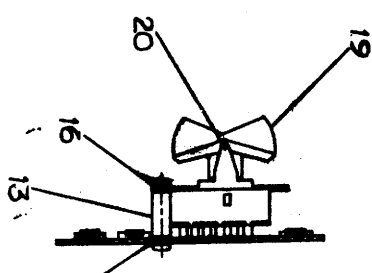
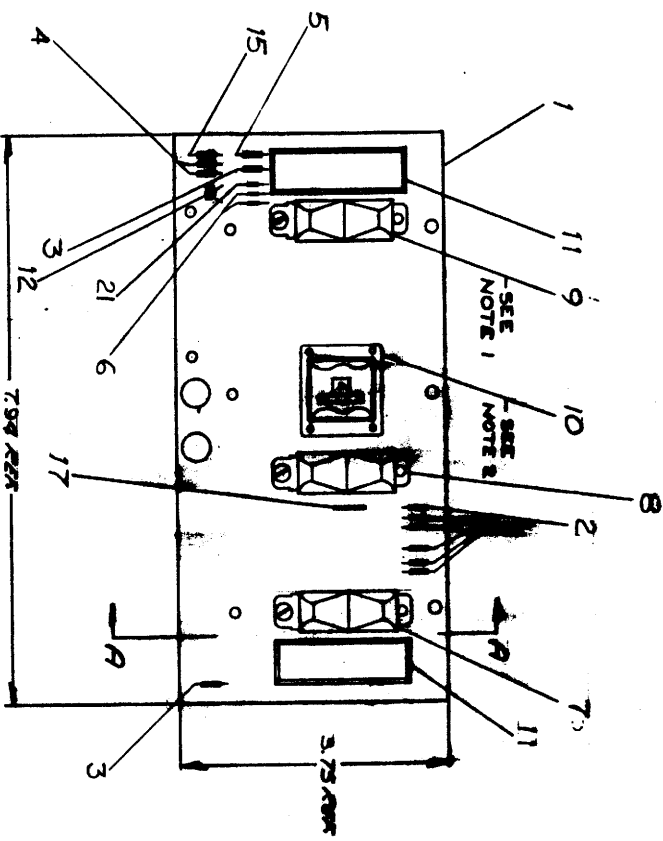


NO.	QTY.	DESCRIPTION	PARTS LIST	UNIT
1	1	PIESEN SPACER 4 x 4 x #6	9007615	35
2	1	1-40 HERMETIC	9000556	36
3	1	NYLON HEXNUT #4	9007992	37
4	1	NYLON SCREW 1-40 x 1/2	9000402-4	38
5	1	HANDLE EXTERIOR	9006732	39
6	1	1-40 HEXNUT	9000557	40
7	1	1-40 x 5/16 TORX	9006010-4	41
8	1	HANDLE, FULL CHIP - GREEN	9008377-01	42
9	1	TRANSISTOR 2N4920	1509605	43
10	1	TRANSISTOR 2N4923	1509604	44
11	1	TRANSISTOR 2N3781	1509581	45
12	1	TRANSISTOR 2N3781	1503068	46
13	1	RES, 22K 1/2W 5%	1300668	47
14	1	RES, 200 1/2W 5%	1300639	48
15	1	RES, 15K 1/2W 5%	1300436	49
16	1	RES, 6.2K 1/2W 5%	1300175	50
17	1	RES, 1.0K 2W 10%	1300067	51
18	1	RES, 1.5K 1/2W 5%	1300951	52
19	1	RES, 1K 1/2W 5%	1300966	53
20	1	RES, 1K 1/2W 5%	1300165	54
21	1	RES, 660 1/2W 5%	1300124	55
22	1	RES, 470 1/2W 5%	1300116	56
23	1	PIV, 500V	1200436	57
24	1	PIV, 500V	1200436	58
25	1	PIV, 500V	1200436	59
26	1	PIV, 500V	1200436	60
27	1	PIV, 500V	1200436	61
28	1	PIV, 500V	1200436	62
29	1	PIV, 500V	1200436	63
30	1	PIV, 500V	1200436	64
31	1	PIV, 500V	1200436	65
32	1	PIV, 500V	1200436	66
33	1	PIV, 500V	1200436	67
34	1	PIV, 500V	1200436	68
35	1	PIV, 500V	1200436	69
36	1	PIV, 500V	1200436	70
37	1	PIV, 500V	1200436	71
38	1	PIV, 500V	1200436	72
39	1	PIV, 500V	1200436	73
40	1	PIV, 500V	1200436	74
41	1	PIV, 500V	1200436	75
42	1	PIV, 500V	1200436	76
43	1	PIV, 500V	1200436	77
44	1	PIV, 500V	1200436	78
45	1	PIV, 500V	1200436	79
46	1	PIV, 500V	1200436	80
47	1	PIV, 500V	1200436	81
48	1	PIV, 500V	1200436	82
49	1	PIV, 500V	1200436	83
50	1	PIV, 500V	1200436	84
51	1	PIV, 500V	1200436	85
52	1	PIV, 500V	1200436	86
53	1	PIV, 500V	1200436	87
54	1	PIV, 500V	1200436	88
55	1	PIV, 500V	1200436	89
56	1	PIV, 500V	1200436	90
57	1	PIV, 500V	1200436	91
58	1	PIV, 500V	1200436	92
59	1	PIV, 500V	1200436	93
60	1	PIV, 500V	1200436	94
61	1	PIV, 500V	1200436	95
62	1	PIV, 500V	1200436	96
63	1	PIV, 500V	1200436	97
64	1	PIV, 500V	1200436	98
65	1	PIV, 500V	1200436	99
66	1	PIV, 500V	1200436	100

APPROVED: _____ DATE: _____
 AUTHORITY: _____
 DRAWING NO. _____
 REVISION: _____
 MOTOR CONTROL

This drawing and specifications shall be the property of the Government and shall be used only for the purposes specified. It is to be returned to the Government when no longer needed.

REVISIONS		
CHK	CHANGE NO.	REV.
	FU56-00020	B
	4-3-70	
	LUITIG	
	15408500-00002	C
	11-20-70	
	LUITIG	
	15408500-00003	D
	9/24/73	
	H. DRAB	
	1/25/73	



SECTION A-A

NOTES:
 1. HAND DEGREASE ONLY-DO NOT DEGREASE AS IT WILL CAUSE MALFUNCTION IN SWITCHES
 2. IN SOLDERING OPERATIONS DO NOT ALLOW FLUX OR CLEANING AGENT TO ENTER SWITCH

FIRST USE OF OPTION/MODEL
 1556
ZOZ BRANGES
 ZACHAROWSKI
 414 E. 10th
 N.E.I.

DO NOT SCALE DRAWING
 ALL DIMENSIONS SPECIFIED
 UNLESS OTHERWISE SPECIFIED
 DIMENSIONS IN PARENTESIS ARE
 DIMENSIONS OF ORIGINAL
 DRAWING
 DIMENSIONS OF THIS DRAWING
 ARE IN PARENTESIS
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 ARE IN PARENTESIS

QTY.	DESCRIPTION	PART NO.	REV.
1	SWITCH CONTROL PANEL (TU56)	DAD15408500-0-0	D

PARTS LIST

MADE BY <i>Paul J. Jurek</i>		CHECKED <i>D. Wall</i>		SECTION	
DATE <i>Oct 28, 1969</i>		DATE <i>1-30-70</i>		PC LAYOUT	
ENG <i>E. Lutting</i>		PROD <i>P. Johnson</i>		ISSUED SECT.	
DATE <i>3-18-70</i>		DATE <i>3/25/70</i>			

ITEM NO.	DWG NO./PART NO. CL BASIC VAR.	DESCRIPTION	UNIT COST	UNIT QUANTITY	QUANTITY ISSUED
REV	C-CS-5408500-0-1	CIRCUIT SCHEMATIC			
REV	N-CS-5408500-0-4	X-Y COORDINATE HOLE LOCATION			
REV	D-AH-5408500-0-5	ASSY/DRILLING HOLE LAYOUT			
1	5008499	ETCHED CKT. BD. TU56		1	
2	1300386	RES. 1.2K, 1/4W, 10% C.C.		6	
3	1301421	RES. 15 ^Ω , 1/4W, 10%		2	
4	1300490	RES. 12K, 1/4W, 10%		2	
5	1302388	RES. 2K, 1/4W, 5%		1	
6	1100114	DIODE D664		2	
7	1209614	SWITCH 3 POS. RS-38-FB PC		1	
8	1209613	SWITCH 3 POS. RS-39-FB PC		1	
9	1209612	SWITCH MINI RS-33-FB PC		1	
10	1209617	SWITCH 8 POS THUMBWHEEL SWITCH		1	
11	1209637	LIGHT		2	
12	1509338	TRANSISTOR, MPS 6531		1	
13	9008833	SPACER. 3/16 AF x 5/8 LG #4-40 AL		3	
14	9006880	SCREW, 6-32 x 1/4		6	
15	1300432	RES. 3K, 1/4W, 5%		1	
16	9006009-4	SCR SLOTTED HD #4-40 x 1/4 LG SST		6	
17	9107560-01	#22 AWG BUS WIRE		1	

TITLE TU56 CONTROL BOARD		ASSY NO. D-AD-5408500-0-0	SIZE CODE A PL	NUMBER 5408500-0-0	REV. D	ECO NO. 90083
SHEET 1 OF 2		DIST. <i>324 137 145</i>		5 PINK X		

DEC FORM NO. 16-1027
DRA 123

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

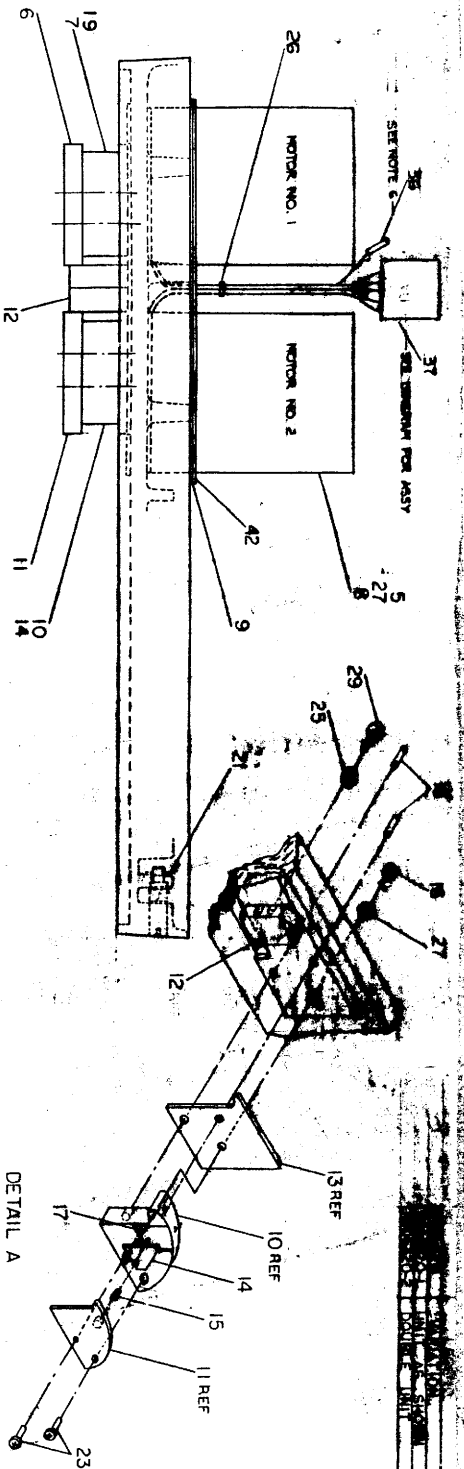
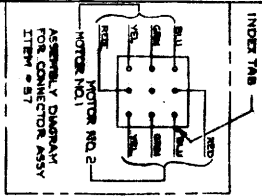
PARTS LIST

MADE BY <i>Paul J. Jurek</i>		CHECKED <i>D. Wall</i>		SECTION	
DATE <i>Oct. 28, 1969</i>		DATE <i>1-30-70</i>			
ENG <i>E. Lutting</i>		PROD <i>P. Johnson</i>		ISSUED SECT.	
DATE <i>3-18-70</i>		DATE <i>3/25/70</i>			

ITEM NO.	DWG NO./PART NO. CL BASIC VAR.	DESCRIPTION	UNIT COST	UNIT QUANTITY	QUANTITY ISSUED
18	9006632	WASHER INT TOOTH #4		3	
19	1209711-01	BUTTON, ROCKER		3	
20	9008842	DOWEL PIN		3	
21	1100121	DIODE, IN748 3.9V 10% 40mw		1	

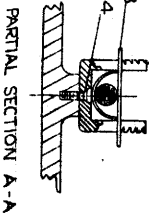
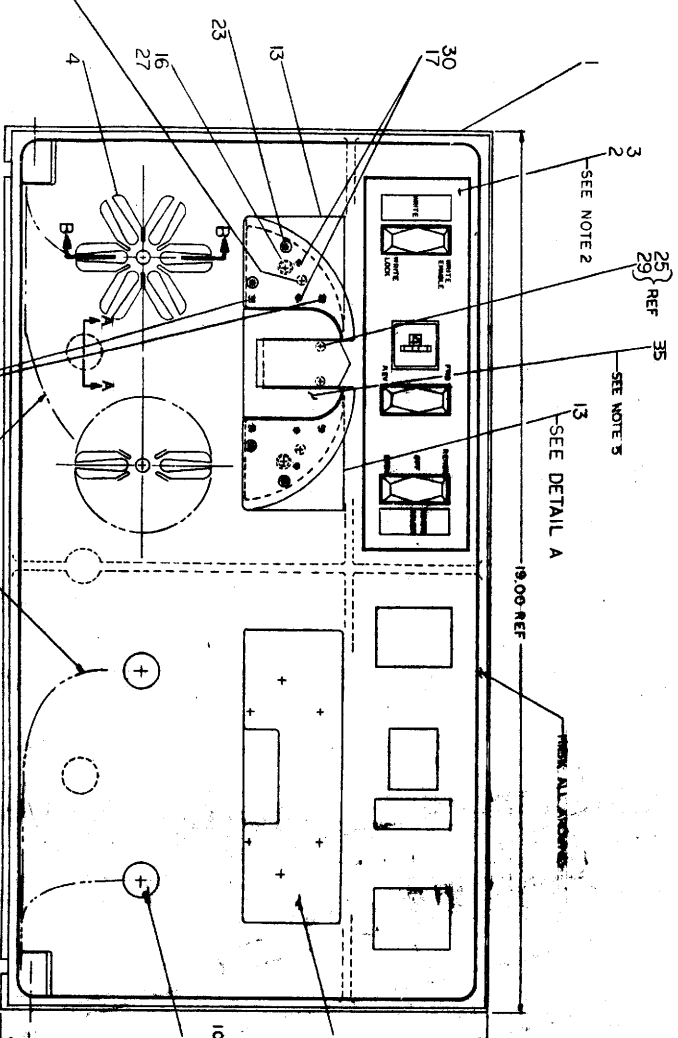
TITLE SWITCH CONTROL PANEL (TU56)		ASSY NO. D-AD-5408500-0-0	SIZE CODE A PL	NUMBER 5408500-0-0	REV. D	ECO NO. 90083
SHEET 2 OF 2		DIST.		5 X		

DEC FORM NO. 16-1027
DRA 123

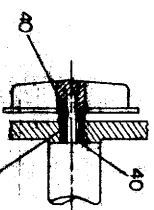


DETAIL A

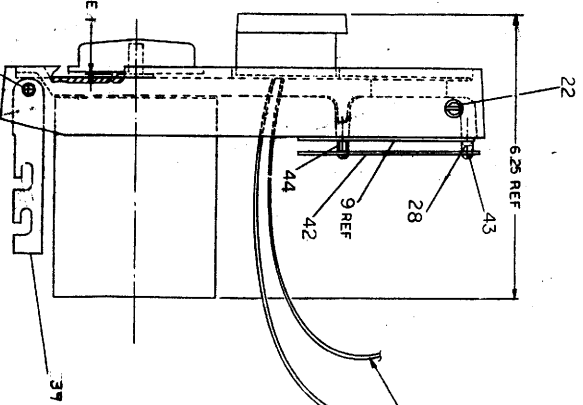
- NOTES**
1. POSITION OF ITEM NO. 4 (HUB) MUST BE OUT FROM BOSS ON CASTING. MEASURE WITH GAUGE PART NO. 39.
 2. ASSEMBLE ITEM NO. 2 (OVERLAY) USING ITEM NO. 3 (ADHESIVE).
 3. COAT BOTH SURFACES REAR SURFACE OF OVERLAY & FRONT SURFACE OF PANEL (MG) & ALLOW A MIN. OF ONE (1) MINUTE DRY TIME BEFORE ASSEMBLY.
 4. MASK SURFACES AS INDICATED BEFORE APPLYING ADHESIVE TO MTC. PANEL.
 5. ASSEMBLE ITEM 35 TO FRONT PANEL USING ITEM 2 (ADHESIVE).
 6. CRIMP ITEM 56 TO MOTOR LEADS AS SHOWN. INSERT PINS INTO ITEM 37 (WIRE) ONLY. ENTER SIDE WITH SQUARE TIP.
 7. DO NOT ASSEMBLE ITEM 20 TO FRONT PANEL UNTIL ITEM 39 IS IN PLACE SO THAT ITEM 20 WILL GO THRU ITEM 39 AT ASSEMBLY.



PARTIAL SECTION A-A



SECTION B-B



DATE	1958
REVISION	
BY	
CHECKED	
APPROVED	
EQUIPMENT	
PANEL FRONT	
ASSEMBLY	
EQUIPMENT	

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST				QUANTITY/VARIATION																				
MADE BY KEN GULICK		CHECKED D. HEALY		SECTION																				
DATE 6/5/69		DATE 7/23/69		1																				
ENG <i>Chalchalt</i>		PROD C. R. Thompson		ISSUED SECT.																				
DATE 8-22-69		DATE 8/22/69		1																				
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION				7006320-1	7006320-2																	
1	E-MD-7407395-0-0	PANEL MFG (TU56)				1	1																	
2	D-IA-7410958-0-0	PANEL OVERLAY				1	1																	
3	900791	ADHESIVE STRENGTHENING SPRAY #77				A	PA/R																	
4	9008133	NUA ASSY (L.H. TORQUE)				2	4																	
5	9006341	SCR SOC HD CAP 10 24 X 1/2 BLK PASS.				8	16																	
6	C-MD-7407282-2-0	COVER PLATE (L.H.)				1	2																	
7	C-MD-7407283-2-0	TAPE GUIDE (L.H.)				1	2																	
8	1209602	MOTOR, TORQUE				2	4																	
9	D-IA-7006222-0-0	SWITCH CONTROL PANEL ASS'Y				1	2																	
10	C-MD-7407283-1-0	TAPE GUIDE (R.H.)				1	2																	
11	C-MD-7407282-1-0	COVER PLATE (R.H.)				1	2																	
12	1209691	HEAD ASSY				1	2																	
13	C-MD-7405136-0-0	REAR CHECK TAPE GUIDE				2	4																	
14	B-MD-7405114-1-0	WEAR PLATE (R.H.)				1	2																	
15	9007104	SPR #649-119N INST SPEC. CO.				2	4																	
16	9006345	SCR SOC HD CAP #10-32 X 3/8 SST				2	4																	
17	9008133	DOWEL PIN 3/32 DIA X 7/16 LG				4	8																	
18	9008131	DOWEL PIN 1/8 DIA X 7/8 LG				4	8																	
19	B-MD-7405114-2-0	WEAR PLATE (L.H.)				1	2																	
20	9008130	DOWEL PIN 1/4 DIA X 1 1/4				2	2																	
21	90-07785	GRIP, EXT SER #5555-37 WALDES 3/8" SHAFT				2	2																	
22	B-MD-7407400-0-0	PIN, LOCK				2	2																	
TITLE PANEL FRONT, ASSEMBLY				ASSY NO. E-AD-7006320-0-0		SIZE CODE A PL		NUMBER 7006320-0-0				REV. L		ECO NO. TU56-00076										
				SHEET 1 OF 2		DIST. C																		

DEC FORM NO. DRA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST				QUANTITY/VARIATION																				
MADE BY KEN GULICK		CHECKED D. HEALY		SECTION																				
DATE 6/5/69		DATE 7/25/69		1																				
ENG <i>Chalchalt</i>		PROD C. R. Thompson		ISSUED SECT.																				
DATE 8-26-69		DATE 8/26/69		1																				
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION				7006320-1	7006320-2																	
23	9006331	SCR SOC HD CAP 6-32 X 5/8 LG BLK PASS.				4	8																	
24	C-MD-7405136-1-0	REAR CHECK TAPE GUIDE L.H.				1	2																	
25	9006632	WASH INT TOOTH #4				2	4																	
26	9007032	TIE WRAP #SST-2-B PANDUIT				A	PA/R																	
27	9007651	WASH EXT TOOTH #10 HOLE				10	20																	
28	9006022-1	SCR, PH HD PAN #6-32 X 3/8 SST				4	8																	
29	9006014-1	SCR PH HD PAN #4-40 X 5/8 LG SST				2	4																	
30	9008133	GRIP, EXT SER #5555-37				4	8																	
31	9008131	GRIP, EXT SER #5555-37				4	8																	
32	90-07772-9	CLAMP, CABLE BASE				1	2																	
33	90-07772-10	CLAMP, CABLE TOP				1	2																	
34	90-06037-2	SCREW, FLAT HEAD #8-32 x 3/8 LG SST				1	2																	
35	C-IA-7408008-0-0	FILLER PLATE				1	2																	
36	1209379	PIN, CONNECTOR				8	16																	
37	1209350-09	HOUSING, CONNECTOR				1	2																	
38	C-IA-7408010-0-0	GAUGE, HUB				A	PA/R																	
39	C-MD-1209830	ARM, PANEL SUPPORT				2	2																	
40	1209926	BUSHING, OIL IMPREGNATED BRONZE				4	8																	
41	1209917	SPRING, COMPRESSION				2	4																	
42	C-MD-7408287-0-0	GUARD PLATE				1	2																	
43	90-06024-1	SCR, PH HD PAN #6-32 x 1/2 SST				2	4																	
44	90-06793	SPACER 3/16AF X 3/16LG #6 HOLE AL				2	4																	
TITLE PANEL FRONT ASSEMBLY				ASSY NO. E-AD-7006320-0-0		SIZE CODE A PL		NUMBER 7006320-0-0				REV. L		ECO NO. TU56-00064										
				SHEET 2 OF 2		DIST. G																		

DEC FORM NO. DRA 110

MASTER DRAWING LIST

MAINTENANCE MANUALS		UNIT VARIATIONS														
		H716-Ø	H716-A	H716-B	H716-C	H716-D										
NO.	TITLE															
H716-Ø	H716 P/S	X	X	X	X	X										

USED ON OPTIONS							
ADØ1							

REV. DATE	A	CHG. NO.	00003	APPD.	PS	<small>DRN.</small> G FLANDERS <small>CHK'D</small> <i>[Signature]</i> <small>EDG.</small> <i>[Signature]</i> <small>PROF. ENG.</small> <i>[Signature]</i> <small>PHOTO</small> <i>[Signature]</i> <small>FIRST USED ON</small>	<small>DATE</small> 72271 <small>DATE</small> 8-27-71 <small>DATE</small> 8/27/71 <small>DATE</small> 8/27/71 <small>DATE</small> 8/31/71	EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>	<small>TITLE</small> H716 POWER SUPPLY
SCALE						<small>SIZE</small> A	<small>CODE</small> ML	<small>NUMBER</small> H716-Ø	<small>REV.</small> A
SHEET	1	OF	2	DIST.					

DRA 131

Dec 16-(325)-1048-N471

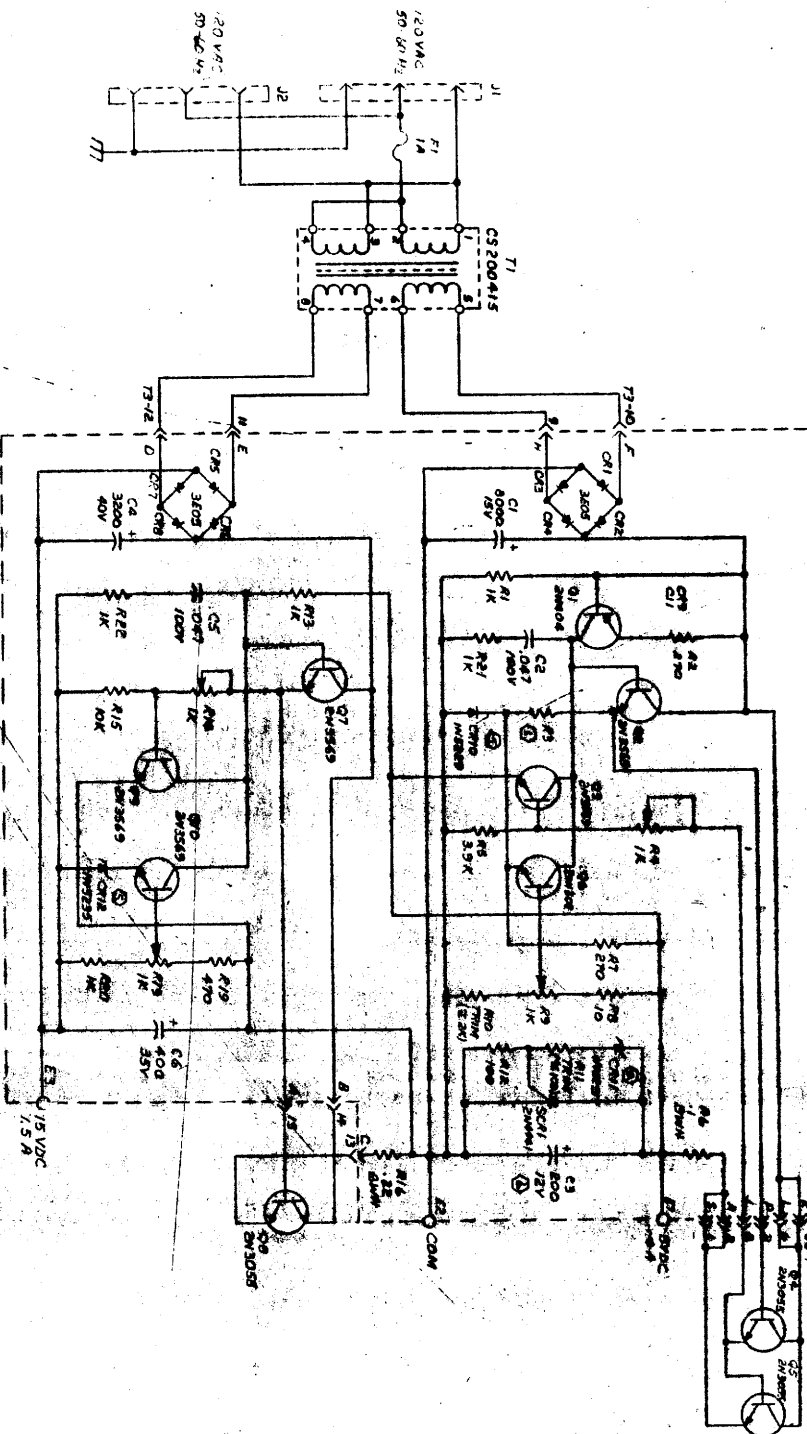
PRINT SET						REV. LET.	NO. OF SHEETS	TITLE	OPTION NO.	
H716-Ø					DWG. NO.					
X					C-CS-3009282-0-0	B	1	H-716 P.S.		
X					D-UA-H716-Ø-Ø		2	POWER SUPPLY H716		
X					A-PL-H716-Ø-Ø		2	POWER SUPPLY H716		
X					A-PS-3009282-0-0	C	7	H716 POWER SUPPLY		
X					A-SP-H716-Ø-1		2	MODIFICATION PROCEDURE FOR H716		
TITLE						SHEET 2 OF 2		SIZE CODE A ML	NUMBER H716-Ø	REV. A

DRA 132

DEC 16 (325) 1048 1 N471

THIS DRAWING IS THE PROPERTY OF SIGINTTA EQUIPMENT CORPORATION. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED HEREON. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF SIGINTTA EQUIPMENT CORPORATION.

REVISIONS
 CHANGE NO. 1
 3009282-0001 C
 REDRAWN - REVISED



THE INFORMATION CONTAINED HEREIN IS PROPRIETARY TO THE RANDOUR ELECTRONICS CORPORATION AND IS SUPPLIED AS MAINTENANCE INFORMATION ONLY. THE REPRODUCTION OF THIS PRODUCT IN PART OR IN WHOLE IS STRICTLY PROHIBITED. CONTENTS TAKEN FROM DWO 52 CS 2004 REV D

- NOTES:
- ① R3 IS A TRIM VALUE RESISTOR WITH AN APPROX VALUE OF "OPEN"
 - ② ALL RESISTANCE VALUES ARE EXPRESSED IN OHMS.
 - ③ ALL RESISTORS ARE FILLED COMPOSITION 1/2 W, ±10%.
 - ④ ALL CAPACITOR VALUES ARE EXPRESSED IN MICROFARADS.
 - ⑤ GRID MAY BE NOTORIC NO. 5E18477-2
 - ⑥ CR11 MAY BE NOTORIC NO. 5E18477-4
 - ⑦ CR12 MAY BE NOTORIC NO. 5E18477-5
 - ⑧ CAPACITORS C3 MAY BE TRIMMABLE
 - ⑨ 47UF 6.3V
 - ⑩ RESISTANCE VALUE FOR R10 & R11 MAY BE CHANGED DURING FINAL TEST.

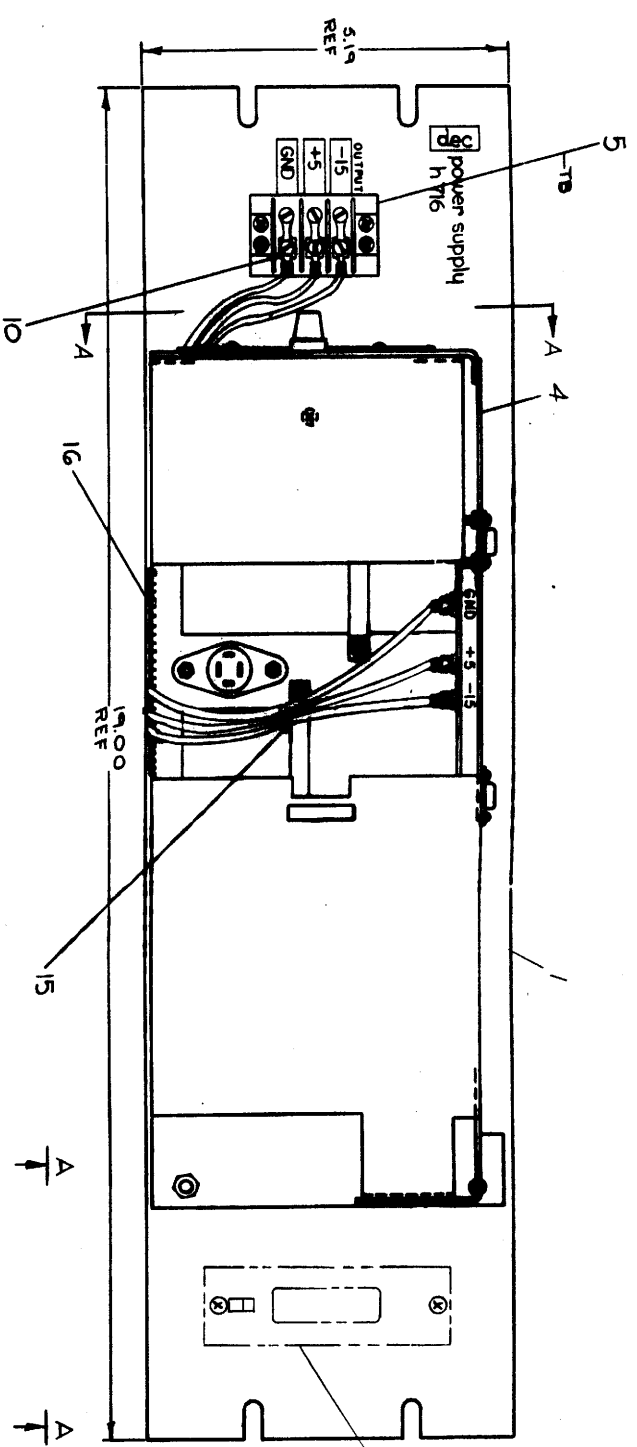
FIRST USED ON OPTION/QUIB.		QTY.	DESCRIPTION	PART NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DATE			
FOR THE DRAWING	DATE			
DESCRIPTORS	ANGLES			
SCALE				
MATERIAL				
FINISH				
SCALE NONE				
REV. C				
DCS 3009282-0-0				
H-716PS				
Sigintta EQUIPMENT CORPORATION				

8
7
6
5
4
3
2
1

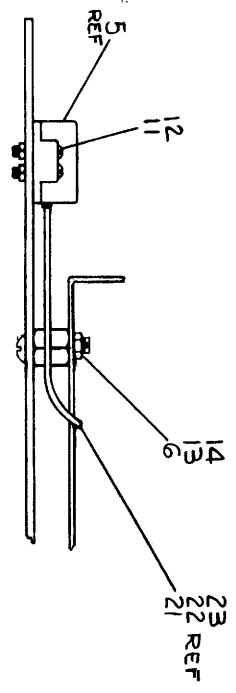
LEGEND

NUMBER	VARIATION
H716-φ	WANTLESS P.S WITH 110V RECEPTACLE
H716-A	H716 WITH 230V RECEPTACLE
H716-B	19" H716 (115V RECEPTACLE)
H716-C	H716-B WITH OUTPUT RELAY SWITCHED FROM +5V (115V)
H716-D	H716-B WITH 230V RECEPTACLE

NOTES:
1. FOR H716-A OR H716-D (230V) 1. REMOVE EXISTING DECAL AND ADD NEW DECAL (ITEM #25).



SEE VIEW A-A SHEET # 2.



PRINTED BY GAIN/RECORD
ADD 1

REV.	DESCRIPTION	DATE	BY	CHK.
1	POWER SUPPLY			

POWER SUPPLY
H716

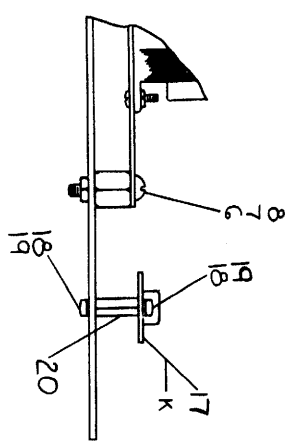
DIA H716-0-0

REV.	CHANGE NO.	REVISIONS

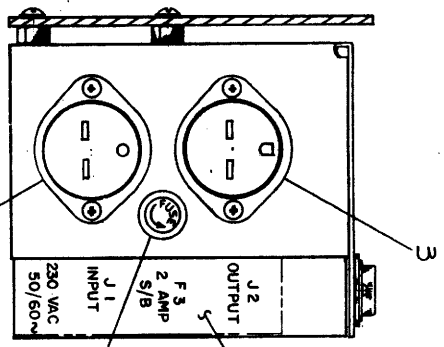
This drawing and specifications, herein and the parts listed, are the property of the manufacturer and shall be used only for the purpose intended. No part of this drawing or specifications may be reproduced or copied or used in whole or in part as a basis for the reproduction of any part of this drawing or specifications or the use of any other material.

WIRE TABLE HT16-B&D				
ITEM NO.	DESCRIPTION	FROM CONNECTION	WITH CONNECTION	TO CONNECTION
23	18	BLK	PS - GND	9
21	18	RED	PS - + 5	9
22	18	BLU	PS - -15	9
				TB - +5
				TB - -15

WIRE TABLE HT16-C				
ITEM NO.	DESCRIPTION	FROM CONNECTION	WITH CONNECTION	TO CONNECTION
23	18	BLK	PS - GND	26
21	18	RED	PS - + 5	26
22	18	BLU	PS - -15	26
				TB - + 5
				K - -15
				TB - -15



VIEW A-A
FOR HT16-C



SECTION A-A
SCALE: 1/1

REVISIONS		
REV.	CHANGE NO.	DESCRIPTION

FIRST USED ON OPTION/MODEL		DATE LIST	PART NO.	REV.
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES.		DATE		
TOLERANCES		DATE		
DECIMALS	ANGLES	DATE		
.XX - .005	± 0° 30'	DATE		
.XX - .02		DATE		
.X - .1		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS BEFORE ASSEMBLY		DATE		
MATERIAL		DATE		
NEXT HIGHER ASSY.		DATE		
FINISH		DATE		
SCALE 2 OF 2		DATE		
SHEET		DATE		

POWER SUPPLY
HT16

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				QUANTITY / VARIATION														
PARTS LIST				H716-Ø	H716-A	H716-B	H716-C	H716-D										
MADE BY G. FLANDERS		CHECKED <i>J.F. Lewis</i>		SECTION 1														
DATE 7-22-71		DATE 8-27-71		ISSUED SECT. 1														
ENG <i>P. Sargent</i>		PROD <i>Gene Strong</i>																
DATE 8/27/71		DATE 9/2/71																
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION		H716-Ø	H716-A	H716-B	H716-C	H716-D										
1	D-IA-7408142-0-0	MOUNTING PANEL H716		-	-	1	-	-										
1	D-IA-7408142-1-0	MOUNTING PANEL H716		-	-	-	1	-										
1	D-IA-7408142-2-0	MOUNTING PANEL H716		-	-	-	-	1										
2	9007216	2 AMP S.B. FUSE		-	1	-	-	1										
3	9008470	FEMALE A.C. CONN		-	1	1	1	1										
4	3009282	H716 POWER SUPPLY		1	1	-	-	1										
5	9007631	TERM STRIP #3-541 JONES		-	-	1	1	1										
6	9006829	SPACER 1/2 AF X 3/8 LG #10 HOLE		-	-	3	3	3										
7	9006027-1	SCR PHL HD PAN 6-32 X 7/8 LG		-	-	2	2	2										
8	9006860	NUT KEPS #6-32		-	-	2	2	2										
9	9007917	CONN SLDS ARK. #50902		-	-	3	3	3										
10	9007929	CONN SLDS ARK. #50321		-	-	3	3	3										
11	9006041-1	SCR PHL HD 8-32 X 3/4 LG		-	-	4	4	4										
12	9006563	NUT KEPS 8-32		-	-	4	4	4										
13	9006076-1	SCR PH HD 10-32 X 7/8 LG		-	-	1	1	1										
14	9006565	NUT KEPS #10-32		-	-	1	1	1										
15	9007031	TIE WRAP #SST-1-B		-	-	A/RA	RA/R											
16	9007622	CATAPILLAR GROMMET		-	-	A/RA	RA/R											
17	C-IA-5408857-0-0	+15V POWER SEQUENCING BD		-	-	-	1	-										
18	9006022-1	SCR PHL HD 6-32 X 3/8 LG		-	-	-	4	-										
19	9006633	WASHER INT TOOTH #6		-	-	-	4	-										
20	9006857	SPACER 1/4 AF X 5/8 LG 6-32		-	-	-	2	-										
TITLE H716 POWER SUPPLY				ASSY NO. D-UA-H716-Ø-Ø		SIZE CODE A PL		NUMBER H716-Ø-Ø		REV.		ECO NO.						
				SHEET 1 OF 2		DIST. 6												

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

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				QUANTITY / VARIATION															
PARTS LIST				H716-Ø	H716-A	H716-B	H716-C	H716-D											
MADE BY G. FLANDERS		CHECKED <i>J.F. Lewis</i>		SECTION 1															
DATE 7-22-71		DATE 8-27-71		ISSUED SECT. 1															
ENG <i>P. Sargent</i>		PROD <i>Gene Strong</i>																	
DATE 8/27/71		DATE 9/2/71																	
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION		H716-Ø	H716-A	H716-B	H716-C	H716-D											
21	9107360-22	18 AWG WIRE INSULATED RED		-	-	A/RA	RA/R												
22	9107360-66	18 AWG WIRE INSULATED BLU		-	-	A/RA	RA/R												
23	9107360-00	18 AWG WIRE INSULATED BLK		-	-	A/RA	RA/R												
24	9008854	MALE AC CONNECTOR INLET FLG'D		-	1	-	-	1											
25	A-DC-5309717-0-0	DECAL, POWER H716 (230V)		-	1	-	-	1											
26	9007919	CONN SLDS ARK 50906		-	-	-	2	-											
TITLE H716 POWER SUPPLY				ASSY NO. D-UA-H716-Ø-Ø		SIZE CODE A PL		NUMBER H716-Ø-Ø		REV.		ECO NO.							
				SHEET 2 OF 2		DIST.													

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

Equipment Corporation
PURCHASE SPECIFICATION

Number 30-09282 Rev C
Date 1/6/69

MECHANICAL

1. Maximum Dimensions 5-1/4 H x 4-1/8 W x 12 D. Must mount on right end of DBC #911 Mounting Panel.
2. See attached sketch. See attachment via arrow unit size (or equivalent) connected with an internal size (or equivalent) in parallel.
3. Mounting to be mounted in rear panel. Sheet metal construction to be sufficiently rigid to sustain without damage normal shipping shocks when pivoted to an #911 Mounting Panel mounted in DBC standard 19" cabinet.
4. Electrical connections (low voltage) by Pacson Amp #42117-2 electrical solder fastons and fuse clips on both sides of P/C board.

ELECTRICAL

1. Inputs 47-63 Hz. (Normally supplied wire for 117 V, may be changed by transformer tap connections.) 105-150 V, 117 nominal, 230-260 V, 234 V. Nominal.
2. Output 120 V, 125 V, 130 V, 135 V, 140 V, 145 V, 150 V. Line-load-regulate total regulation ± 3%. Overvoltage protection threshold at 6-6.5 with a response time of 10-50 microseconds. Maximum voltage not to exceed 7 V.
3. Output 2A -15 volts ± 3% at 0.1A max. Line-load-regulate total regulation ± 3%.
4. Above specifications over temperature 0-55°C ambient.
5. Shunt #7 in AC Protection Bracket.

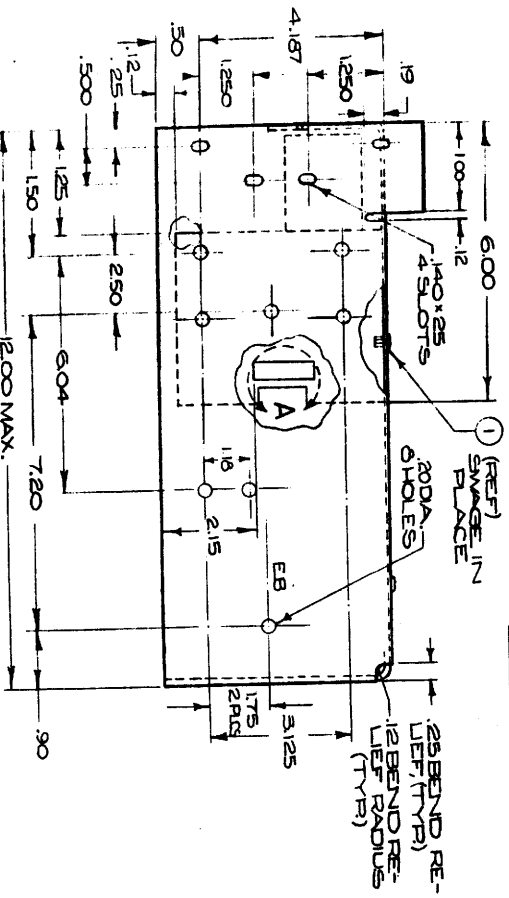
FIRST FIELD ONE 1702, 0408

D.E.C. PART NO. 30-09282

Number	30-09282	Rev	C
Date	1/6/69		
Revisions	Change No. A1 SOLDER OUTPUT LUGS AND FUSE CLIPS TO RIVERS, R. NEWBY 10/22/70		
B. AMPERAGE CHANGED TO APPROX. UNIT NO. HARBELL. DIMENSIONS CHANGED.	AS SHOWN ON SHEET B OF "7"		
C. CHANGED DIMENSIONS FOR REVISIONS	AS SHOWN ON SHEET B OF "7"		
Drawn	W. C. Newby	Eng.	R. A. Bost
Checked	R. A. Bost	QC	R. A. Bost
Reviewed	R. A. Bost	Rev.	R. A. Bost
TITLE: POWER SUPPLY			
Unless other specified use:			
Fractions	±	Decimals	±
Angles	±	Angles	±
Sheet 1 of 2	Scale	Rev	C
Number	30-09282	Rev	C
100-4 63			

Equipment Corporation
PURCHASE SPECIFICATION

Number 30-09282 Rev C
Date 1/6/69

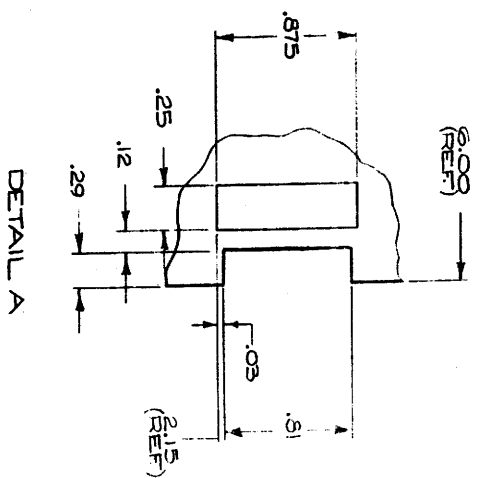


D.E.C. PART NO. 30-09282

Sheet 2 of 7	Scale	±
Number	30-09282	Rev
C		

Equipment Corporation
PURCHASE SPECIFICATION

Number 30-09282 Rev C
Date 1/6/69

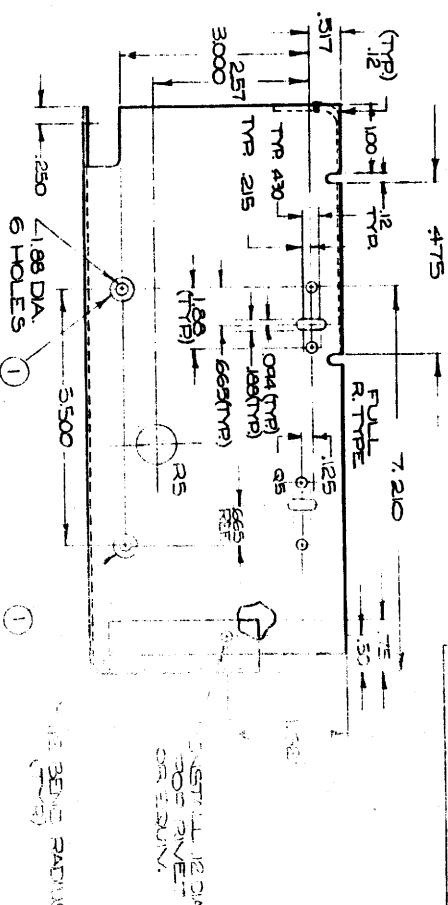


D.E.C. PART NO. 30-09282

Sheet 1 of 2	Scale	Rev	C
Number	30-09282	Rev	C
100-4 63			

Equipment Corporation
PURCHASE SPECIFICATION

Number 30-09282 Rev C
Date 1/6/69



D.E.C. PART NO. 30-09282

Sheet 2 of 7	Scale	±
Number	30-09282	Rev
C		

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS					QUANTITY / VARIATION														
PARTS LIST					H716-Ø	H716-A	H716-B	H716-C	H716-D										
MADE BY G. FLANDERS		CHECKED <i>J.F. Conroy</i>		SECTION															
DATE	7-22-71	DATE	8-27-71	1															
ENG	<i>P. J. Sweeney</i>	PROD	<i>Gene Stinger</i>	ISSUED SECT.															
DATE	8/27/71	DATE	9/2/71	1															
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																	
1	D-IA-7408142-0-0	MOUNTING PANFL H716			-	-	1	-	-										
2	D-IA-7408142-1-0	MOUNTING PANEL H716			-	-	-	1	-										
1	D-IA-7408142-2-0	MOUNTING PANEL H716			-	-	-	-	1										
2	9007216	2 AMP S.B. FUSE			-	1	-	-	1										
3	9008470	FEMALE A.C. CONN			-	1	1	1	1										
4	3009282	H716 POWER SUPPLY			1	1	-	-	1										
5	9007631	TERM STRIP #3-541 JONES			-	-	1	1	1										
6	9006829	SPACER 1/2 AF X 3/8 LG #10 HOLE			-	-	3	3	3										
7	9006027-1	SCR PHL HD PAN 6-32 X 7/8 LG			-	-	2	2	2										
8	9006860	NUT KEPS #6-32			-	-	2	2	2										
9	9007917	CONN SLDS ARK. #50902			-	-	3	3	3										
10	9007929	CONN SLDS ARK. #50321			-	-	3	3	3										
11	9006041-1	SCR PHL HD 8-32 X 3/4 LG			-	-	4	4	4										
12	9006563	NUT KEPS 8-32			-	-	4	4	4										
13	9006076-1	SCR PH HD 10-32 X 7/8 LG			-	-	1	1	1										
14	9006565	NUT KEPS #10-32			-	-	1	1	1										
15	9007031	TIE WRAP #SST-1-B			-	-	A/RA	RA/R											
16	9007622	CATAPILLAR GROMMET			-	-	A/RA	RA/R											
17	C-IA-5408857-0-0	+15V POWER SEQUENCING BD			-	-	-	1	-										
18	9006022-1	SCR PHL HD 6-32 X 3/8 LG			-	-	-	4	-										
19	9006633	WASHER INT TOOTH #6			-	-	-	4	-										
20	9006857	SPACER 1/4 AF X 5/8 LG 6-32			-	-	-	2	-										
TITLE		H716 POWER SUPPLY		ASSY NO.	D-UA-H716-Ø-Ø		SIZE CODE	A PL		NUMBER	H716-Ø-Ø		REV.	ECO NO.					
				SHEET	1 OF 2		DIST.	6											

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

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS					QUANTITY / VARIATION														
PARTS LIST					H716-Ø	H716-A	H716-B	H716-C	H716-D										
MADE BY G. FLANDERS		CHECKED <i>J.F. Conroy</i>		SECTION															
DATE	7-22-71	DATE	8-27-71	1															
ENG	<i>P. J. Sweeney</i>	PROD	<i>Gene Stinger</i>	ISSUED SECT.															
DATE	8/27/71	DATE	9/2/71	1															
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																	
21	9107360-22	18 AWG WIRE INSULATED RED			-	-	A/RA	RA/R											
22	9107360-66	18 AWG WIRE INSULATED BLU			-	-	A/RA	RA/R											
23	9107360-00	18 AWG WIRE INSULATED BLK			-	-	A/RA	RA/R											
24	9008854	MALE AC CONNECTOR INLET FLG'D			-	1	-	-	1										
25	A-DC-5309717-0-0	DECAL, POWER H716 (230V)			-	1	-	-	1										
26	9007919	CONN SLDS ARK 50906			-	-	-	2	-										
TITLE		H716 POWER SUPPLY		ASSY NO.	D-UA-H716-Ø-Ø		SIZE CODE	A PL		NUMBER	H716-Ø-Ø		REV.	ECO NO.					
				SHEET	2 OF 2		DIST.												

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

Digital Equipment Corporation
EQUIPMENT PURCHASE SPECIFICATION

Number 30-09282 Rev C
 Date 1/6/69

7716 POWER SUPPLY

Mechanical

- Maximum Dimensions 5-1/4 H x 4-1/8 W x 12 D. Mount mount on right end of DDC 9911 Mounting Panel. See attached sketch.
- Power Input via screw terminal (or equivalent) in parallel with an input fuse mounted in rear panel. Mechanical construction to be sufficiently rigid to insure in without damage normal shipping shocks when riveted to an 9911 Mounting Panel mounted in DDC standard 19" cabinet.
- Electrical connections (low voltage) by Testcon Amp #42117-2 solder fastons and fuse clips to rivets on both sides of 7/8" terminals.

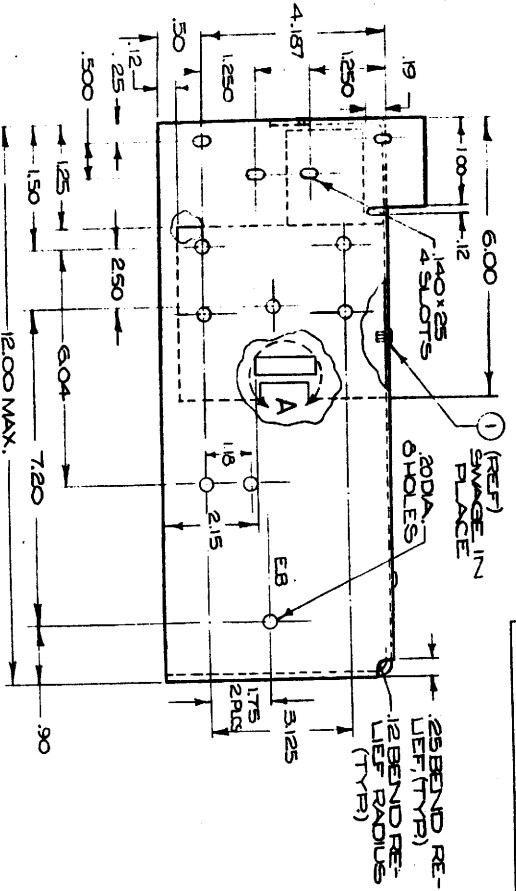
Electrical

- Input: 47-63 Hz. (Normally supplied wire for 117 V, may be changed by transformer to connections.) 105-130 V, 117 V nominal. 250-250 V 234 V. Nominal. Output is 0-4 mV maximum ripple load-ripple total regulation 2.5%. Overvoltage protection threshold at 6-6.5 with a response time of 10-30 microseconds. Maximum voltage not to exceed 7.15 volts \pm 5% at 0-1.5 amp max. 1 line-load to output 21.15 volts \pm 5%.
- Ripple total regulation 25%.
- Above specifications over temperature 0-55°C ambient.
- Sheet #7 is AC Protection Bracket.

Revision	Change No. 1. 5000 OUTPUT LUGS AND FUSE CLIPS TO RIVETS. R. NEWBY 10/23/70	
Revision	B. APERTURE CHANGED TO 3/8" DIA. AND HOLE. DIMENSIONS FOR RECTIFIERS AS SHOWN ON SHEET 6 OF 7.	
Eng. Checked	Eng. R. B. [Signature]	
Drawing	QC [Signature]	
Checked	W. C. [Signature]	
TITLE: POWER SUPPLY		
Unless other specified use:		
Fractions	Decimals	Angles
Sheet 1 of 7	Scale	
Number	Rev	C
30-09282		100-4-68

Digital Equipment Corporation
EQUIPMENT PURCHASE SPECIFICATION

Number 30-09282 Rev C
 Date 1/8/69

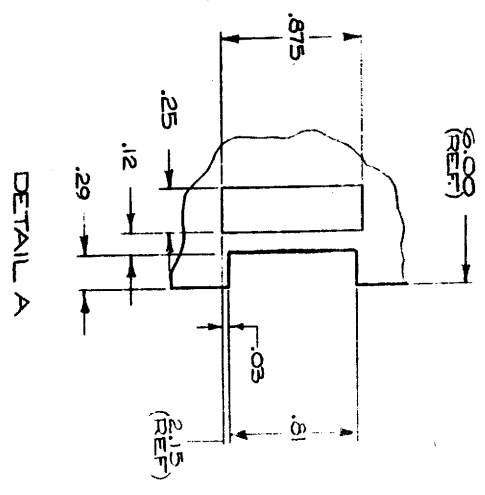


D.E.C. PART NO. 30-09282

Sheet 2 of 7	Scale	
Number	Rev	C
30-09282		

Digital Equipment Corporation
EQUIPMENT PURCHASE SPECIFICATION

Number 30-09282 Rev C
 Date 1/6/69

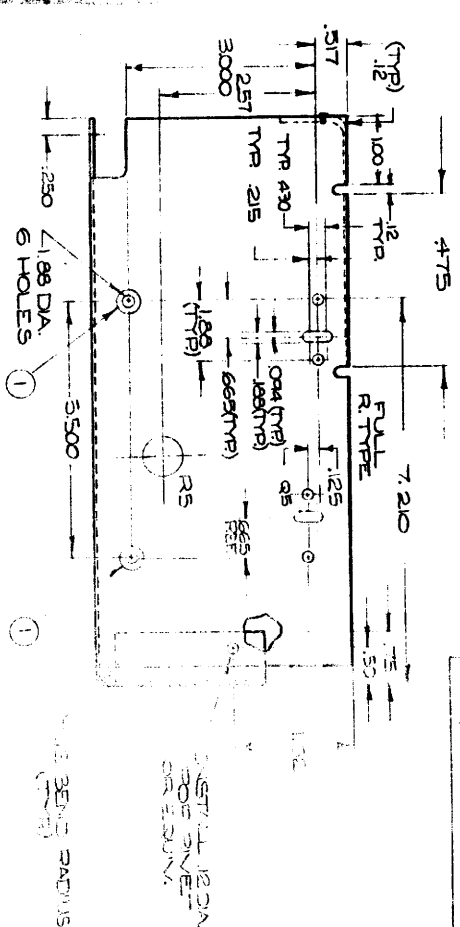


D.E.C. PART NO. 30-09282

Sheet 1 of 7	Scale	
Number	Rev	C
30-09282		

Digital Equipment Corporation
EQUIPMENT PURCHASE SPECIFICATION

Number 30-09282 Rev C
 Date 1/8/69

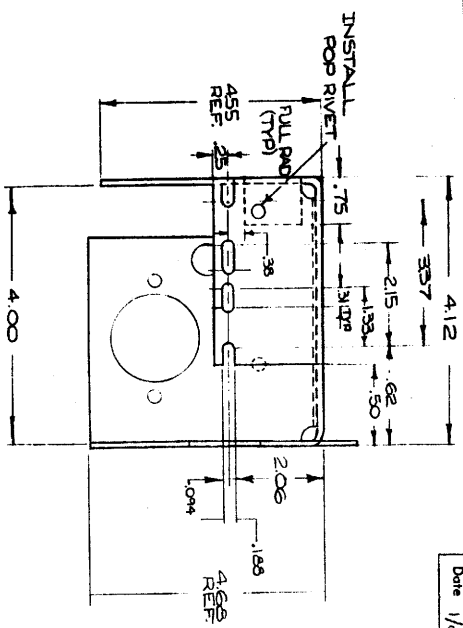


D.E.C. PART NO. 30-09282

Sheet 2 of 7	Scale	
Number	Rev	C
30-09282		

digital EQUIPMENT CORPORATION PURCHASE SPECIFICATION

Number 30-09282 Rev c
Date 1/5/69

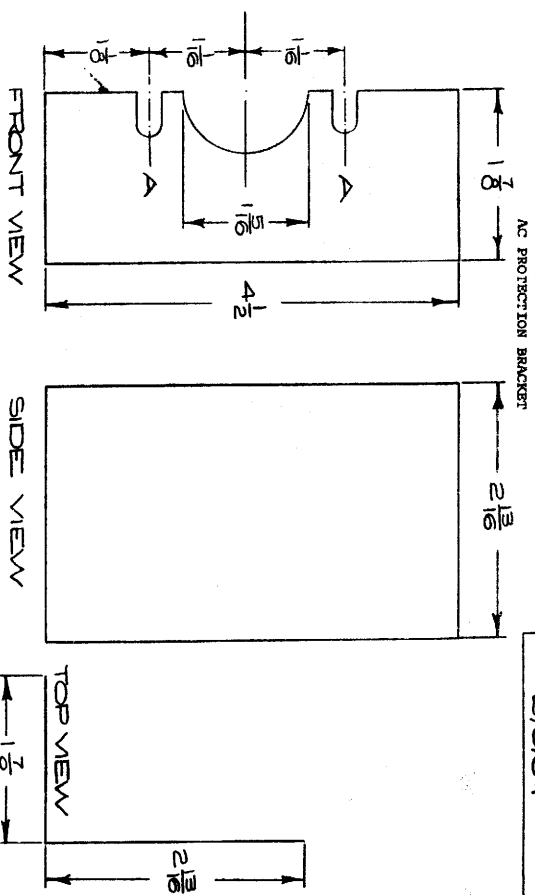


D. E. C. PART NO. 30-09282

Sheet 5 of 7	Scale -4-
Number 30-09282	Rev c

digital EQUIPMENT CORPORATION PURCHASE SPECIFICATION

Number 30-09282 Rev c
Date 2/6/69



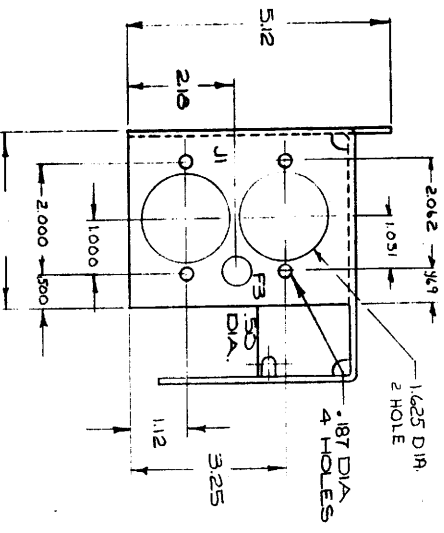
A = 1/4 x 1/2 SLOT
MTL = 1/16 ALUM.

D. E. C. PART NO. 30-09282

Sheet 7 of 7	Scale FULL
Number 30-09282	Rev c

digital EQUIPMENT CORPORATION PURCHASE SPECIFICATION

Number 30-09282 Rev c
Date 1/8/69



D. E. C. PART NO. 30-09282

Sheet 6 of 7	Scale -4-
Number 30-09282	Rev c

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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

DATE 2/18/71

TITLE Modification Procedure for H716

REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENGINEER <i>David Spill</i>	APPRD <i>Frank Taylor</i>	SIZE A	CODE SP	NUMBER H716-0-1	REV
-----------------------------	---------------------------	--------	---------	-----------------	-----

DEC FORM NO. DRA 107A SHEET 1 OF 2

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE Modification Procedure for H716

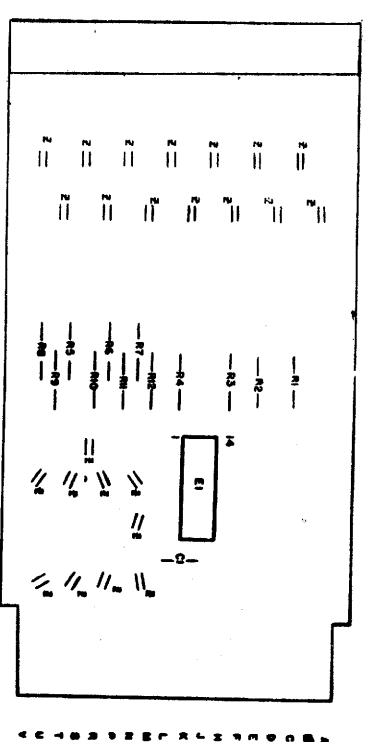
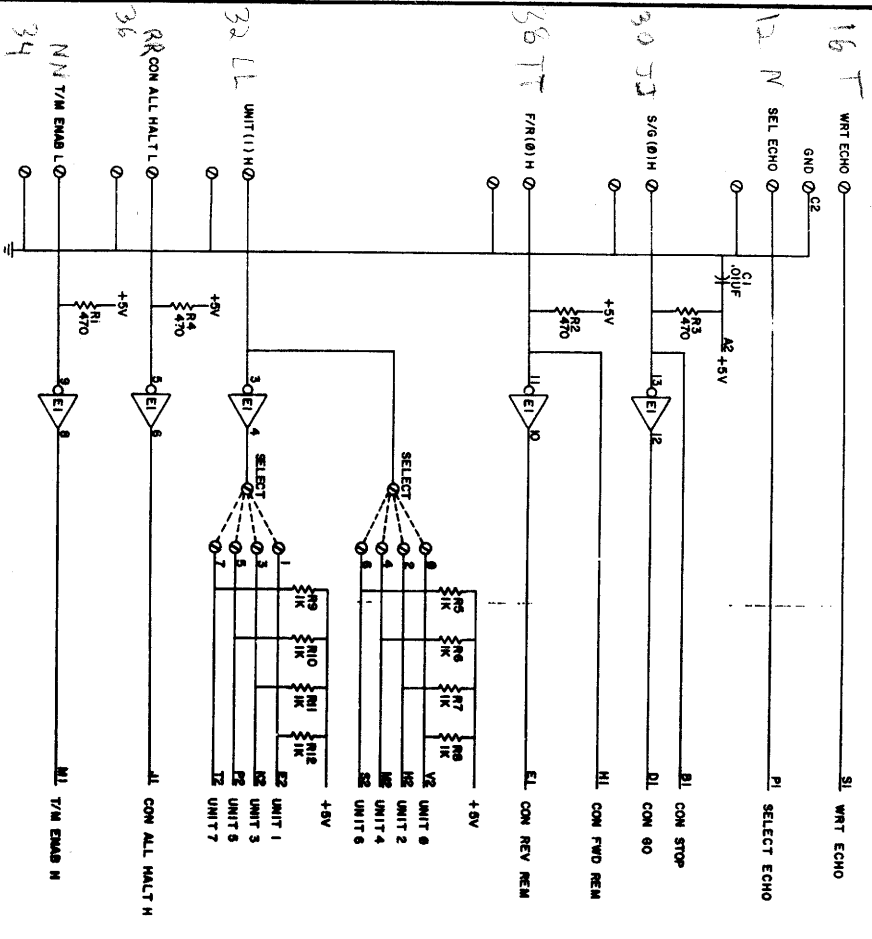
Incorporate the following modifications to change an H716 power supply to an H716-A or an H716-D power supply.

- 1) Replace the male AC power connector with DEC Part #90-8834
- 2) Replace the female AC power connector with DEC Part #90-8470
- 3) Replace the 3 amp S/B AC input fuse with DEC Part #90-7216
- 4) Replace existing decal with new decal DEC Part # 5309717
- 5) Change the following jumpers on the transformer:

Delete	From	To
	Terminal 1	Terminal 3
	Terminal 2	Terminal 4
Add 18 AWG	Terminal 2	Terminal 3

ENGINEER	APPRD	SIZE A	CODE SP	NUMBER H716-0-1	REV
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DEC FORM NO. DRA 108 SHEET 2 OF 2

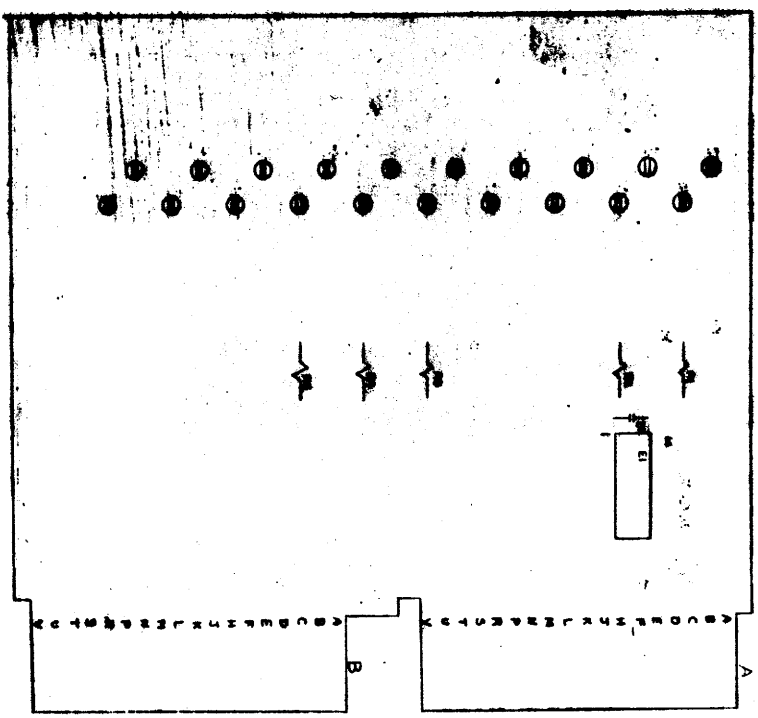
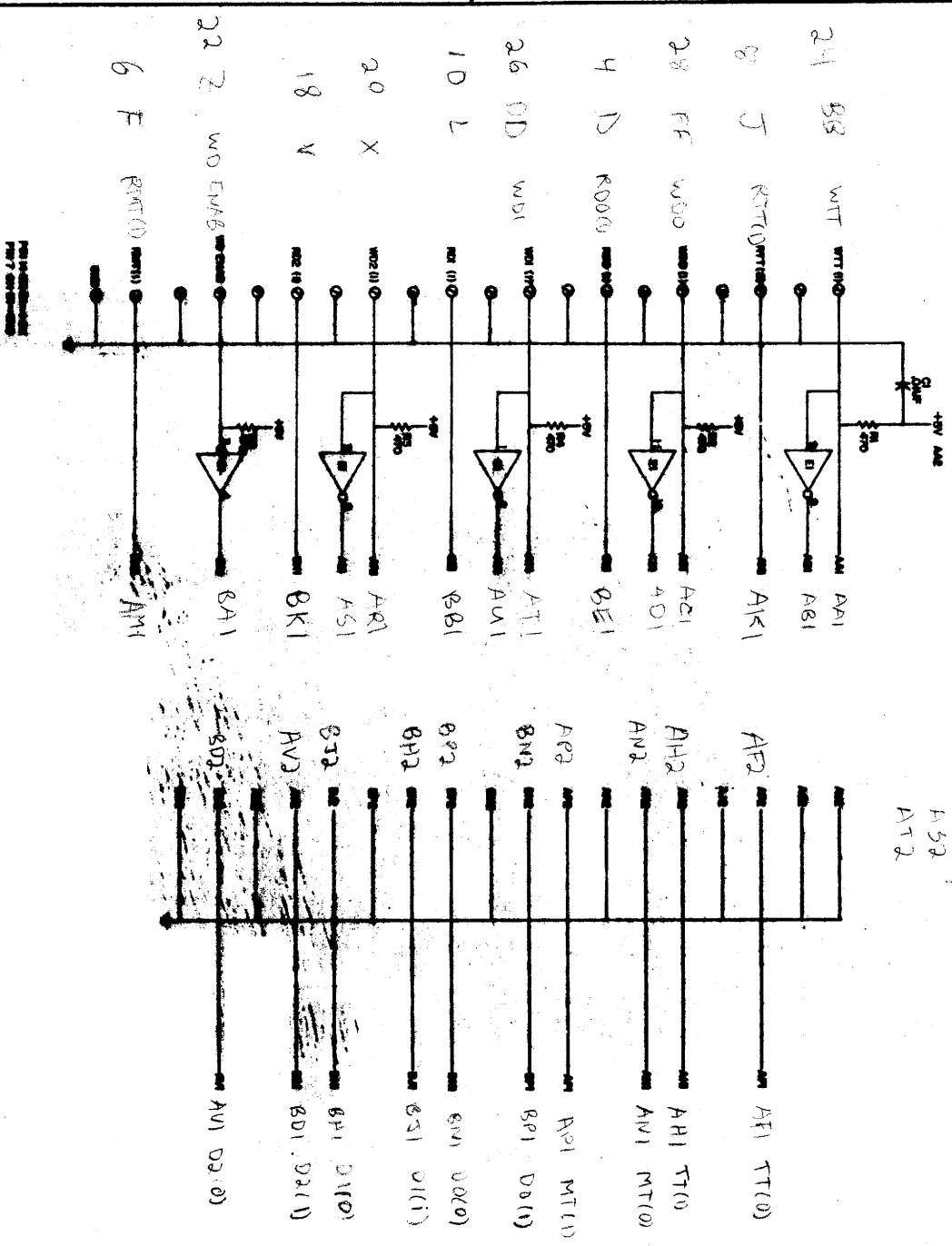


○-----○ INDICATES OPTIONAL JUMPERS

NO.	DESCRIPTION	QTY	REF. DESIG.	MANUFACTURER	DATE
1	WRT ECHO	1	5066271	...	...
2	SEL ECHO	1	5066275	...	...
3	S/G (B) H	1	1500811	...	...
4	F/R (B) H	1	1500145	...	...
5	CON ALL HALT L	1	1500146	...	...
6	CON ALL HALT H	1	1001616	...	...
7	UNIT 1	1	5066275	...	...
8	UNIT 2	1	5066275	...	...
9	UNIT 3	1	5066275	...	...
10	UNIT 4	1	5066275	...	...
11	UNIT 5	1	5066275	...	...
12	UNIT 6	1	5066275	...	...
13	UNIT 7	1	5066275	...	...

COMMAND CABLE CONNECTOR

DATE: 1960-0-1



Pin No.	Signal Name	Notes
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

DATE: 10/15/54
 DRAWN: [Signature]
 CHECKED: [Signature]
 APPROVED: [Signature]
 TITLE: DATA CABLE CONNECTOR

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