

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				QUANTITY / VARIATION												
PARTS LIST				RPIØ-A (60HZ)	RPIØ-B (50HZ)											
MADE BY	D. FONTAINE	CHECKED	D HEALY													
DATE	2/3/69	DATE	2/17/69	1												
ENG	D. Mungle	PROD	M. Slem	ISSUED SECT.												
DATE	10/20/69	DATE	11-6-69	1												
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION														
45	C-AD-7006195-0-0	CABLE SET RPIØ		1	1											
46	9007870	SPACER, 3/8 A.F. X 1-1/4 LG #8 HOLE AL		4	4											
47	9006045-1	SCR PHL HD PAN #8-32 X 1-1/2 SST		4	4											
48	D-AD-7006463-0-0	I/O CABLE (LGTH SPEC BY ENG)		1	1											
49	B-DC-7407694-0-0	DECALS-RPIØ		1	1											
50	9006659	WASH FLAT #6		3	3											
51	9007801	WASH SPLIT LOCK		3	3											
52	A-PL-RPIØ-Ø-MC	MODULE COUNT		1	1											
53	A-DC-7407413-0-0	DECAL (ANALOG)		1	1											
54	D-AD-7006549-0-0	BAR, HOLD DOWN		1	1											
55	9006634	WASH, INT TOOTH #8		4	4											
56	1201168	SWITCH, #6AT1-T2 MICROSWITCH		2	2											
57	B-MD-169-0-1-0-1	SWITCH MTG BKT #7405269		2	2											
58	B-DC-7407694-1-0	DECAL-RPIØ		1	1											
59	9007193	ARKLESS CONNECTOR #3000-541B		A	RA	R										
60	9107370-66	#14 AWG WIRE STRD TEF BLU		A	RA	R										
61	9107370-00	#14 AWG WIRE STRD TEF BLK		A	RA	R										
62	9007880	CABLE TIE SST-1.5M		A	RA	R										
63	D-AD-7008833-0-0	LOGO ASSY (19 1/4)		1	1											
TITLE		ASSY NO.		SIZE	CODE	NUMBER		REV.	ECO NO.							
DISK FILE INTERFACE (RPIØ)		D-UA-RPIØ-Ø-Ø		A	PL	RPIØ-Ø-Ø		F								
		SHEET 3 OF 3		DIST.												

DEC FORM NO.
DRA 110

X

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1-0-0121010 2

MECHANICAL					MECHANICAL						
FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C	FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C
1	DISK FILE INTERFACE 60 HZ DISK FILE INTERFACE 50 HZ DISK FILE INTERFACE (P.L.) END PANEL ASSY SPACER BRACKET (DOOR PIVOT) PANEL, BLANK #7402037 PANEL, BLANK #7402033 MC/CABLE/REMOTE CONT CABLE ASSY BC10A PLATE, RIGHT END BLOCK RETAINER BLOCK RETAINER LH CABLE TWIST LOCK 25FT CABLE ASSY W021-W021 PANEL, BLANK #7402036 TRIM STRIP BOTTOM SCOTCHCAL CABLE SET I/O CABLE (LGTH SPEC BY ENG) DECAL ANALOG DECAL (RP10) BAR, HOLD DOWN SWITCH MTG BKT # 7405269 ENGINEERING SPECIFICATION ENGINEERING SPECIFICATION ENGINEERING SPECIFICATION ENGINEERING SPECIFICATION	D-UA-RP10-A-0 D-UA-RP10-B-0 A-PL-RP10-B-0 E-1A-7405092-2-0 A-MD-7405960-0-0 B-MD-7405961-0-0 B-5111 B-5111 C-UA-BC10A-0-0 D-UA-BC10A-0-0 C-MD-5302486-0-0 C-1A-7406047-0-0 B-MD-7406258-0-0 C-AD-7005427-0-0 C-1A-7405524-0-0 B-MD-5111 D-MD-7405962-0-0 A-DC-7406255-0-0 C-AD-7006195-0-0 D-AD-7006463-0-0 A-UU-7407413-0-0 B-DC-7407694-0-0 D-AD-7006549-0-0 B-MD-169-0-1-0-1 A-S-P-RP10-0-CDDP A-S-P-RP10-0-5AS A-S-P-RP10-0-DPD A-S-P-RP10-0-MTP				8	PANEL SWITCH ASSY PANEL SWITCH ASSY (PL)	D-AD-7006173-0-0 D-AD-7006173-0-0			
2	CABINET FRAME REWORK	E-1A-7406273-0-0				9	PANEL SWITCH SILK SCREEN (BLK)	D-1A-7407147-0-0 C-SS-7407147-0-1			
3	CAB FRAME ASSY 19-3/4 CAB FRAME ASSY 19-3/4 (PL) DWG INDEX LIST (CAB FRAME ASSY 19-3/4)	E-AD-7403984-0-0 A-PL-7403984-0-0 D-DI-7403984-0-1				10	TOGGLE SWITCH BRKT ASSY #1 TOGGLE SW BRKT ASSY #1 (PL) TOGGLE SWITCH BRKT	D-AD-7005621-0-0 A-PL-7005621-0-0 C-MD-7406323-0-0			
4	PANEL, INDICATOR ASSY PANEL, INDICATOR ASSY (PL) SUPPORT GLASS BEZEL INDICATOR (REWORK) PLATE STRIKER RETAINER FT PANEL BRKT, PANEL MTG	D-AD-7006193-0-0 A-PL-7006193-0-0 D-1A-7406192-0-0 D-MD-7405729-2-0 A-MD-7405999-0-0 B-MD-7405931-0-0 B-1A-7405929-0-0				11	TOGGLE SWITCH BRKT ASSY TOGGLE SW BRKT ASSY #5 (PL) TOGGLE SWITCH BRKT	D-AD-7006179-0-0 A-PL-7006179-0-0 C-MD-7406323-0-0			
5	PANEL INDICATOR SILK SCREEN (GREY) SILK SCREEN (BLK)	D-1A-7407198-0-0 C-SS-7407198-0-2 C-SS-7407198-0-1				12	TOGGLE SWITCH BRKT ASSY #6 TOGGLE SW BRKT ASSY #6 (PL) TOGGLE & SWITCH BRKT	D-AD-7006179-0-0 A-PL-7006179-0-0 C-MD-7406323-0-0			
6	LIGHT BOARD ASSY RECEPTACLE	C-1A-5404311-0-0 B-MD-5503954-0-0				13	TOGGLE SWITCH BRKT ASSY #7 TOGGLE SW BRKT ASSY #7 (PL) TOGGLE SW BRKT	D-AD-7006180-0-0 A-PL-7006180-0-0 C-MD-7406323-0-0			
7	ETCH BOARD FLIP CHIP MODULE BLANK ETCH PATTERN	C-1A-5004310-0-0 D-MD-1402230-0-0 PC-5404311				14	DOOR, FULL ASSY DOOR, FULL ASSY (PL) FULL DOOR HINGE PIN, TOP DOOR SPACER, BOTTOM HINGE PIN, BOTTOM	D-AD-7005358-4-0 A-PL-7005358-0-0 D-1A-7405741-2-0 B-MD-20400-7 A-MD-7405312-0-0 B-MD-20400-8			

MECHANICAL					ELECTRICAL						
FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C	FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C
19	MARGINAL CHECK PANEL ASSY PANEL MARGINAL CHECK SCOTCHCAL	C-1A-5402526-0-0 C-MD-5302484-0-0 C-SS-10901				1	DISK FILE INTERFACE 60 HZ DISK FILE INTERFACE 50 HZ WIRED ASSY WIRED ASSY (PL) CABLE SET WIRE LIST POWER WIRING C E PACK TRACKS ASSY REGISTER ASSY REGISTER DATA GATE CHANNEL CONTROL CONDITION REGISTER DATA ADDRESS REGISTER DISK SIGNAL BUS CONNECTORS DATA TRANSFER CONTROL HEADER COMPARE I/O BUS CONTROL INTERCONNECTING CABLES INDICATORS IOB TRANSMITTERS IOB DATA RECEIVERS LONGITUDINAL PARITY REG. MULTIPLEXOR SHIFT REGISTER SWITCH PANEL READ DAA SEPERATOR WORD COUNTERS SECTOR COUNTER SECTOR COUNTER BUFFER SECTOR COUNTER CONTROL PULSES SECTOR COUNTER MULTIPLEXOR PULSE AND LEVEL TERMINATIONS MODULE UTILIZATION A-D MODULE UTILIZATION E-J MODULE UTILIZATION K-N MODULE UTILIZATION P-T MODULE COUNT FLOW CHART CHANNEL CONTROL FLOW CHART CHANNEL INTERFACE FLOW CHART DISK CONTROL FLOW CHART END FLOW CHART LOCAL DATA TRANSFER CONTROL MICRO 1 DATA TRANSFER CONTROL MICRO 2 FLOW CHART READ/WRITE FLOW CHART START FLOW CHART SEARCH FLOW CHART WR HEADERS & DATA	A-ML-RP10-A A-ML-RP10-B D-AD-7006194-0-0 A-PL-7006194-0-0 C-AD-7006195-0-0 K-WL-RP10-B-2 D-IC-RP10-B-3 D-SP-RP10-B-CEPT D-BS-RP10-B-AR D-BS-RP10-B-ARD D-BS-RP10-B-CC D-BS-RP10-B-CXR D-BS-RP10-B-UAR D-BS-RP10-B-DSBC D-BS-RP10-B-DTC D-BS-RP10-B-HCDE D-IC-RP10-B-IBC D-IC-RP10-B-IC D-BS-RP10-B-INOC D-BS-RP10-B-IOB D-BS-RP10-B-IOBD D-BS-RP10-B-LPR D-BS-RP10-B-MPX D-BS-RP10-B-SR D-BS-RP10-B-SWP D-BS-RP10-B-RDS D-BS-RP10-B-WDC D-BS-RP10-B-SC D-BS-RP10-B-SCB D-BS-RP10-B-SCC D-BS-RP10-B-SCX D-CL-RP10-B-TERM D-MU-RP10-B-AD D-MU-RP10-B-EJ D-MU-RP10-B-KN D-MU-RP10-B-PT A-PL-RP10-B-MC D-FD-RP10-B-FCCC D-FD-RP10-B-FCCI D-FD-RP10-B-FCDI D-FD-RP10-B-FCE D-FD-RP10-B-FCL D-FD-RP10-B-FCM1 D-FD-RP10-B-FCM2 D-FD-RP10-B-FCS D-FD-RP10-B-FCS D-FD-RP10-B-FCSC D-FD-RP10-B-FCWH			
20	FAN HOUSING ASSY FAN HOUSING ASSY (PL) HOUSING FAN PANEL FRONT FAN COVER PROTECTION SCREEN FAN	E-AD-7005474-0-0 A-PL-7005474-0-0 D-MD-7406032-0-0 D-MD-7406030-0-0 B-MD-7404721-0-0 C-MD-7404881-0-0				6	LIGHT BOARD ASSY CIRCUIT SCHEMATIC	C-1A-5404311-0-0 B-CS-4304311-0-1			
21	FRONT DOOR ASSY FRONT DOOR ASSY (PL) FRONT DOOR HINGE PIN, TOP DOOR SPACER, BOTTOM HINGE PIN, BOTTOM	D-AD-7005361-4-0 A-PL-7005361-0-0 D-1A-7405977-2-0 B-MD-7405965-0-0 A-MD-7405312-0-0 B-MD-20400-8				10	TOGGLE SW BKT ASSY	D-AD-7005621-0-0			
22	844 POWER CONTROL 844 POWER CONTROL	D-UA-844-0-0 A-PL-844-0-0				12	TOGGLE SWITCH BRKT ASSY #6	D-AD-7006179-0-0			
23	728 POWER SUPPLY 60 HZ 728 POWER SUPPLY 60 HZ (PL) 728A POWER SUPPLY 50 HZ 728A POWER SUPPLY 50 HZ (PL)	D-UA-728-0-1 A-PL-728-0-1 D-UA-728A-0-1 A-PL-728A-0-1				13	TOGGLE SWITCH BRKT ASSY #7	D-AD-7006180-0-0			
24	LOGO ASSEMBLY (19 1/4) FRAME LOGO PLATE END LOGO L.H. PLATE END LOGO R.H. LOGO INLAY, BLANK	D-AD-7008833-0-0 D-MD-7409593-2-0 C-MD-7409105-1-0 C-MD-7409105-2-0 D-1A-7409224-4-0				15	POWER CONNECTOR BRKT ASSY MARGINAL CHK PANEL	D-AD-7005467-0-0 C-1A-5402526-0-0			

REVISIONS	CHANGE NO.	REV.	CHK

UNLESS OTHERWISE SPECIFIED	DRN. <i>C. B. Smith</i>	DATE <i>11/29/67</i>
UNLESS OTHERWISE SPECIFIED	CHKD. <i>W. J. ...</i>	DATE <i>10/20/67</i>
DIMENSION IN INCHES	EMTS. <i>W. J. ...</i>	DATE <i>10/20/67</i>
TOLERANCES	PROJ. ENG. <i>W. J. ...</i>	DATE <i>4/20/69</i>
DECIMALS FRACTIONS ANGLES	PROJ. <i>W. J. ...</i>	DATE <i>4/26/67</i>
± .005 ± 1/64 ± 0°30'	FIRST USED ON	
FINAL SURFACE QUALITY		
REMOVE BURRS AND BREAK SHARP CORNERS		
MATERIAL	SCALE NONE	
	SHEET 2 OF 2	
FINISH		

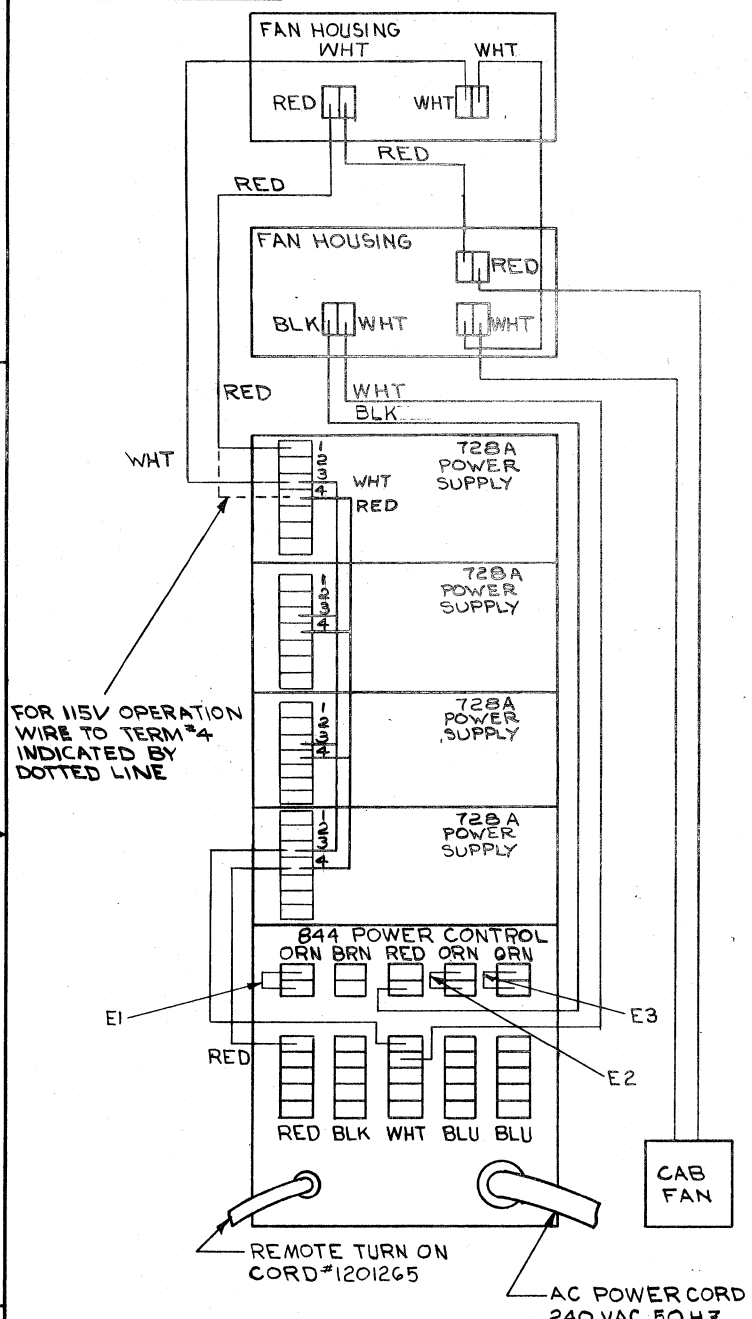
QTY.	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST	
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE DRAWING INDEX LIST RP10
SIZE CODE DDIRP10-0-1	NUMBER REV. C

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST				QUANTITY / VARIATION											
MADE BY D. FONTAINE		CHECKED D. HEALY		SECTION		7006194-0									
DATE 1/31/69		DATE 2/17/69		1											
ENG D. <i>[Signature]</i>		PROD <i>[Signature]</i>		ISSUED SECT.											
DATE 10/27/69		DATE 11-6-69		1											
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION													
1	1202188	CHAIN VOLTAGE				A/R									
2	9107560-1	#22 WIRE BUS				A/R									
3	9107470-5	#24 AWG SOLID KYNAR. (YEL)				A/R									
4	9107470-10	#24 AWG SOLID KYNAR. (BLU)				A/R									
5	D-AD-1943-D-0	1943 DMTG. PANEL ASSY				8									
6	A-DC-7406371-0-0	PANEL SCOTCHCALS				A/R									
7	9107265	#22 TUBING WHT				A/R									
8	9107450-55	#24 AWG TEFLON INS STRD GRN				A/R									
9	7405961	CAPACITOR .02 MFD TERMI POINTS				12									
10	7406364	CAPACITOR .002 MFD TERMI POINTS				2									
11	7405969	RESISTOR 1K, 1/4W, 5% CC W/TERMI PTS				2									
12	7404647	RESISTOR 3K, 1/4W, 5% CC W/TERMI PTS				6									
13	7406632	RESISTOR 6.8K, 1/4W, 5% CC W/TERMI PTS				2									
14	7406917	RESISTOR 3.3K, 1/4W, 5% CC W/Termi Pts				1									
15	7405973	RESISTOR 15K, 1/4W, 5% CC W/TERMI PTS				1									
16	7404648	RESISTOR 10K, 1/4W, 5% CC W/TERMI PTS				1									
17	7405974	RESISTOR 20K, 1/4W, 5% CC W/TERMI PTS				8									
18	7404644	RESISTOR 100 OHMS, 1/4W, 5% CC W/TERMI PTS				3									
19	9107497-09	#24 AWG SOLID TEF WHT/BLK TWP				A/R									
20	7407633	DIODE 1N4001 W/TERMI PTS				2									
REF	K-WL-RP10-0-2	WIRELIST													
TITLE WIRED ASS'Y RP10				ASSY NO. D-AD-7006194-0-0		SIZE CODE A PL		NUMBER 7006194-0-0				REV. E		ECO NO. RP10-00053	
				SHEET 1 OF 1		DIST. C									

DEC FORM NO.
DRA 110

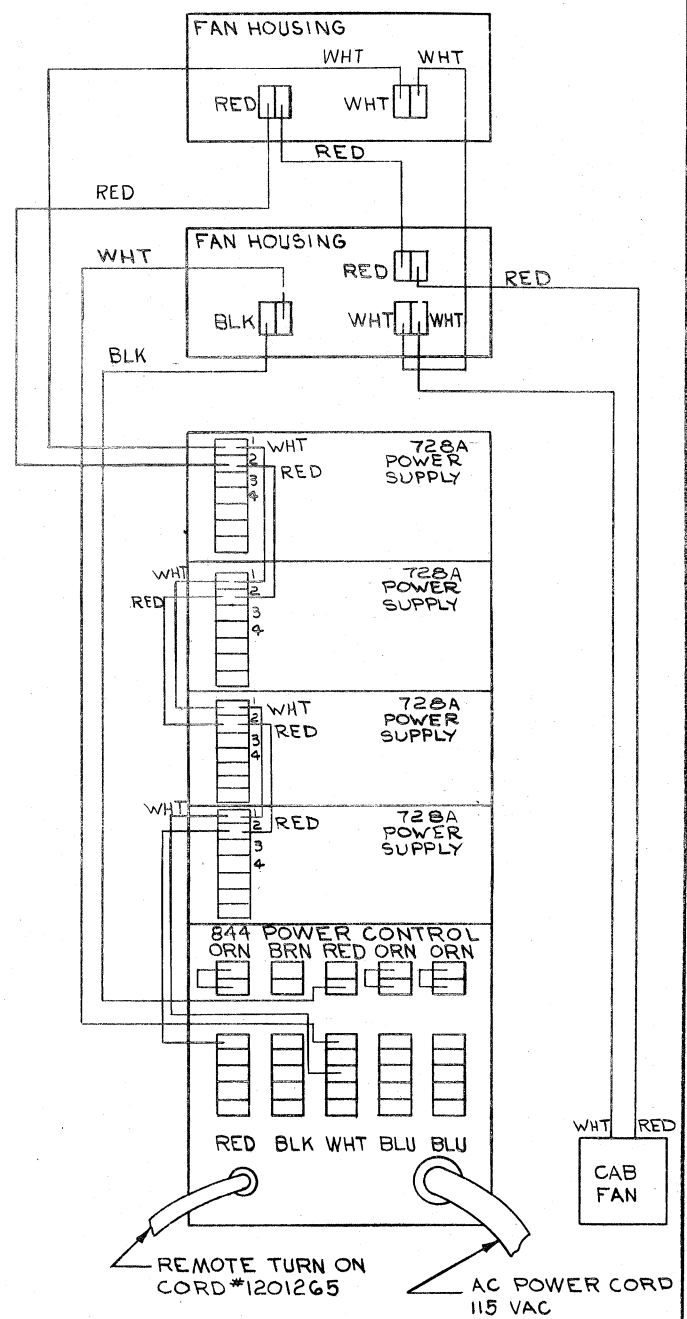
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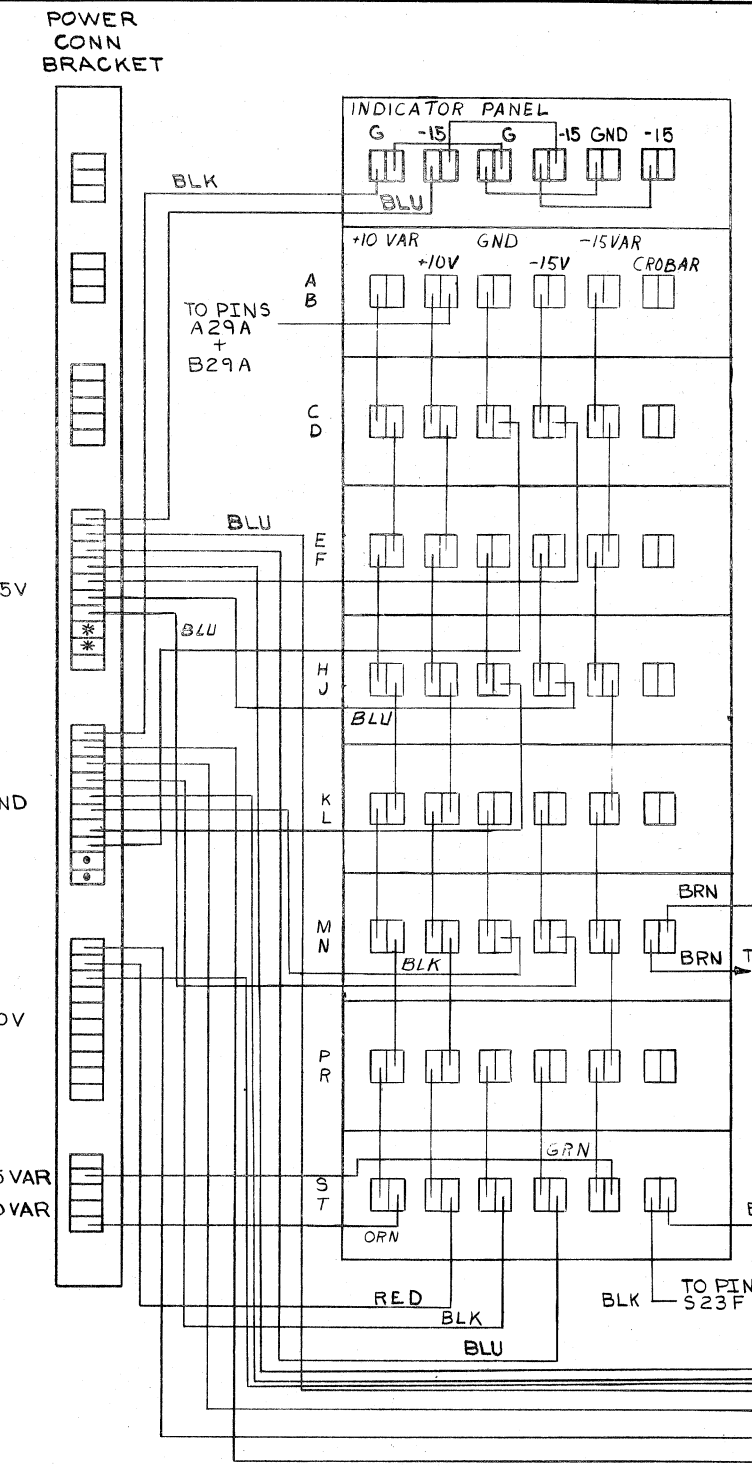
NOTE:
REMOVE JUMPERS E1, E2, & E3 FROM 844 PC FOR 230V 50 HZ OPERATION.

115 OR 230 50HZ AC WIRING

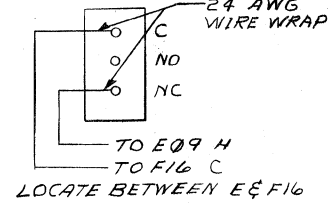
REV	DATE	BY	CHK	CHANGE NO.
1	7-21-70	J. GREEN		RPI0-00011 A
2	4-12-70	D.C. JONES		RPI0-00035 B
3	10-2-70	WALSH		RPI0-00035 B
4	10-9-70	B. WALSH		RPI0-00035 B



115 60HZ AC WIRING

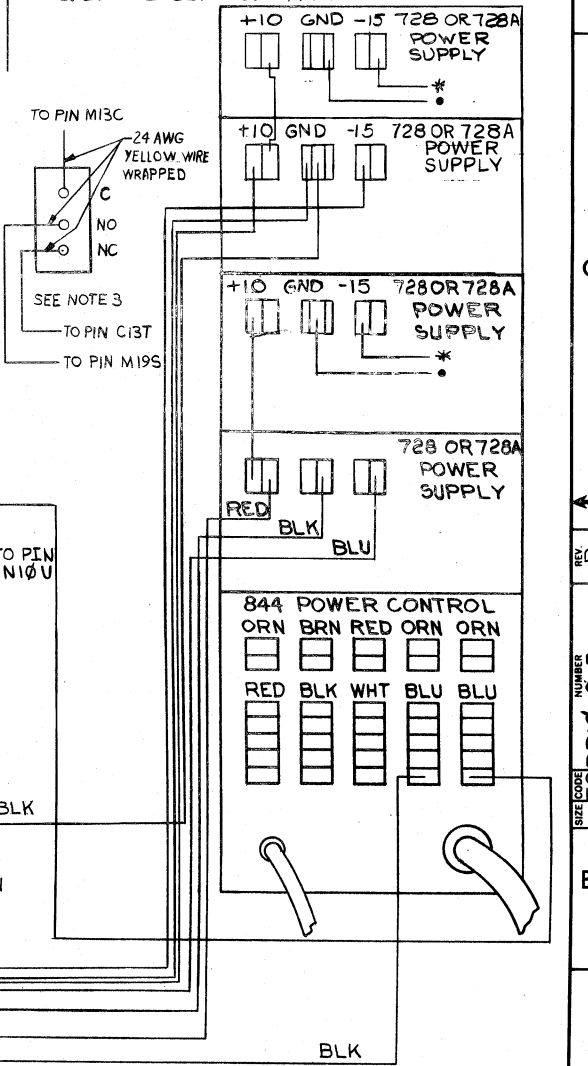


50 HZ OR 60 HZ DC WIRING



728A JUMPING			
INPUT VOLTAGE	JUMPER	LINE	FAN
112.5V 10%	2-4, 3-7	3,4	3,4
123.5V 10%	1-4, 3-8	3,4	3,4
195V 10%	1-5	3,4	1,3
220V 10%	1-6	3,4	1,3
235V 10%	2-8	3,4	1,3

NOTES:
1. ALL WIRES TO BE #14 AWG STRD TEF UNLESS OTHERWISE SPECIFIED.
2. ALL A.C. WIRES TO BE #14 AWG RED/WHT TWISTED PAIRS UNLESS OTHERWISE SPECIFIED
3. LOCATE BETWEEN MEN 13-16



FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RPI0-A				
UNLESS OTHERWISE SPECIFIED				
DIMENSIONS IN INCHES				
TOLERANCES				
DECIMALS	FRACTIONS	ANGLES		
± .005	± 1/64	± 0°30'		
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	NEXT HIGHER ASSY			
FINISH	SCALE NONE			
SHEET 1 OF 1		DISTR. DIST.		REV B

DRWG NO

K-WL-RPIØ-Ø-2

REVLTR

V

REVISIONS			
REV LTR	ECO NO	DATE	ENG
A	RPIØ-00007	4-FEB-7Ø	JR
B	RPIØ-00008	2-12-7Ø	DJ
C	RPIØ-00009	2-18-7Ø	DJ
D	RPIØ-00012	4-7-7Ø	DJ
E	RPIØ-00013	4-30-7Ø	DJ
F	RPIØ-00016	5-11-7Ø	DJ
H	RPIØ-00017	5-27-7Ø	DJ
J	RPIØ-00021	6-9-7Ø	DJ
K	RPIØ-00022	6-22-7Ø	DJ
L	RPIØ-00027	12-7Ø	DJ
M	RPIØ-00028	2-18-71	DJ
N	RPIØ-00029	3-10-71	DJ
P	RPIØ-00030	5-4-71	DJ
R	RPIØ-00031	6-3-71	R.W.
S	RPIØ-00032	6-14-71	B.W.
T	RPIØ-00033	11-2-71	B.W.
U	RPIØ-00035	12-22-71	B.W.
V	RPIØ-00039	4-14-72	B.W.

FIRST USED ON OPT/ MODEL RPIØ-A

DRAWN *P. Ferguson* DATE *2-7-69*

CHECKED *G. Kuchang* DATE *12/9/69*

ENG *John Cronin* DATE *8 JAN 70*

PROJ ENG *John Cronin* DATE *8 JAN 70*

PROD *A. McShane* DATE *1-9-70*



EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ASSY NO NEXT HIGHER ASSY
A-ML-RPIØ-A

SCALE NONE SHEET 1 OF 1

TITLE
WIRE LIST (RPIØ)

FOR TAPE* FILE*

SIZE CODE DWG. NO. REV LTR
K WL RPIØ-Ø-2 V

DIST.

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Table with columns 1-44 and rows D, E, F. Contains technical specifications for various components like DTC, DTC ATTN, DTC DATA, etc.

Table with columns 1-44 and rows B, H. Contains technical specifications for various components like SR, DTC, DTC LD, etc.

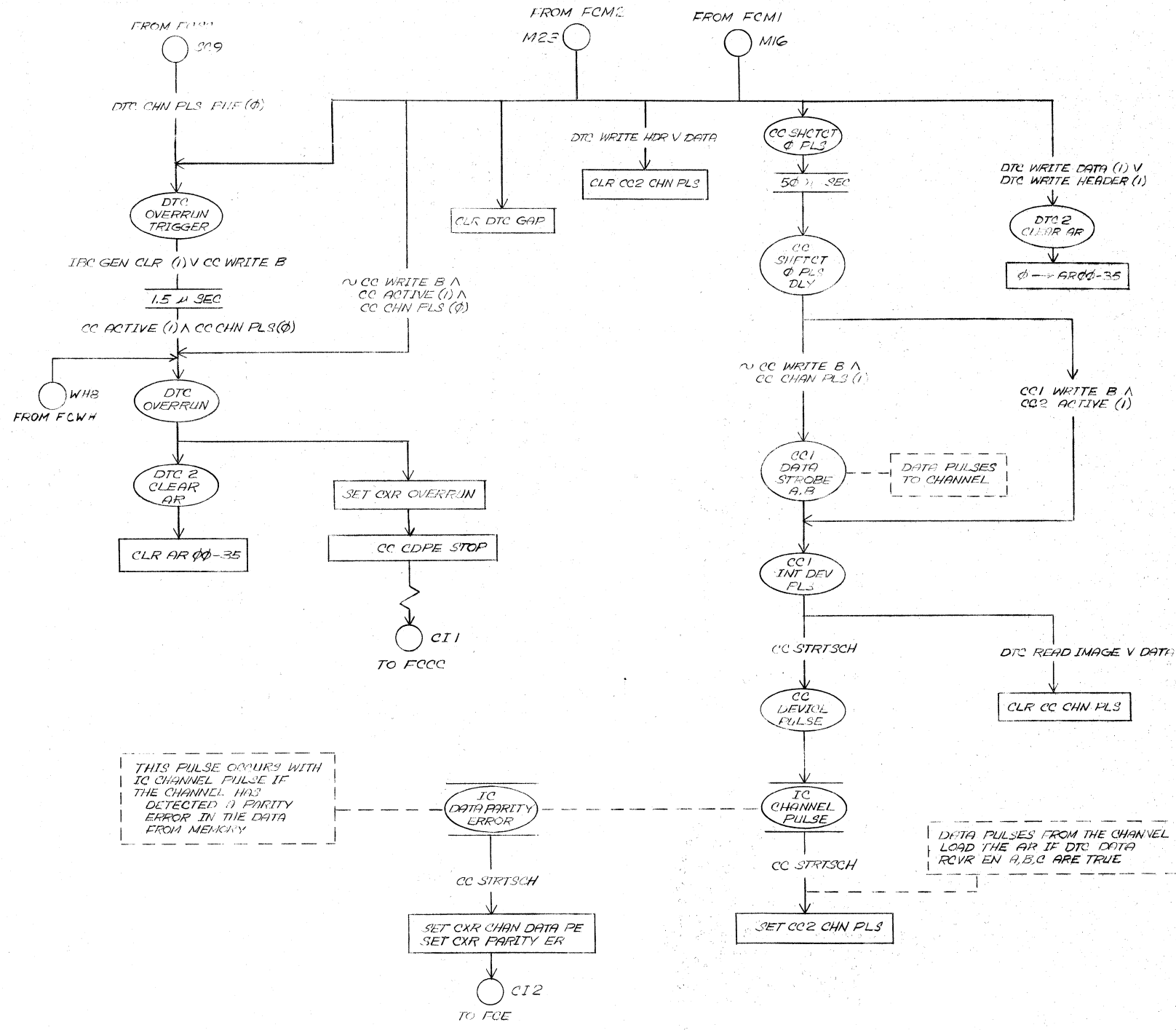
Table with columns 1-44 and rows U. Contains technical specifications for various components like IBC, DTC, DTC LD, etc.

Table A: REVISIONS. Lists change numbers, dates, and names of personnel involved in the design process.

Table B: FIRST USED ON OPTION/M DEL. Lists various options and their corresponding part numbers.

Table C: TOLERANCES, MATERIAL, FINISH, and TITLE. Includes technical specifications for tolerances, material requirements, and the drawing title 'MODULE UTILIZATION E-J'.

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THIS PULSE OCCURS WITH IC CHANNEL PULSE IF THE CHANNEL HAS DETECTED A PARITY ERROR IN THE DATA FROM MEMORY

DATA PULSES FROM THE CHANNEL LOAD THE AR IF DTC DATA RCVR EN A,B,C ARE TRUE

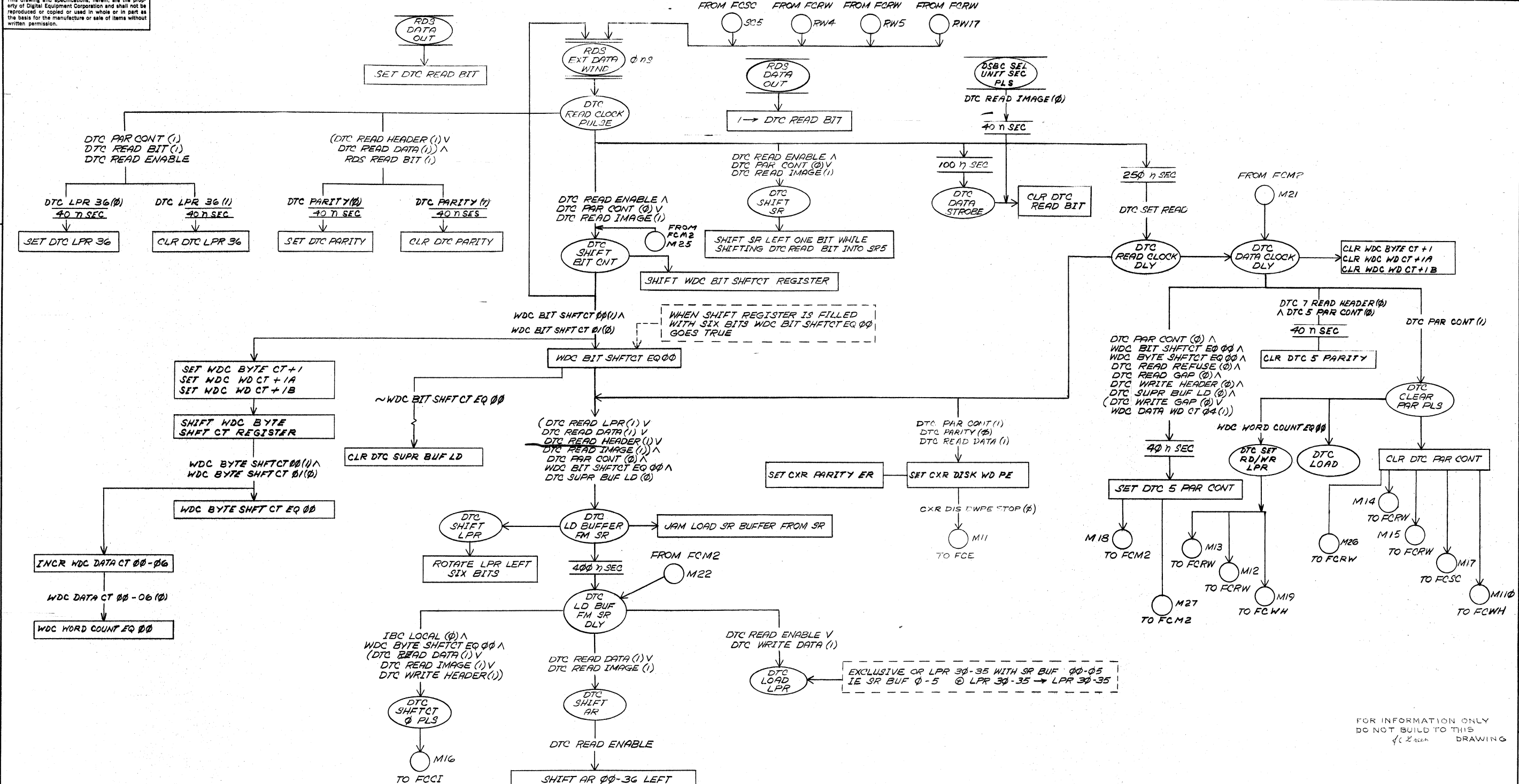
FOR INFORMATION ONLY
DONOT BUILD TO THIS DRAWING

REV	CHG	NO.	DATE	BY
A	00004		1-12-70	GREEN JR.
B	00036		2-4-72	B. WALSH
C	00036		2-4-72	B. WALSH

DEC FORM NO. DRD 102A

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RDP10				
UNLESS OTHERWISE SPECIFIED				
DRN. <i>W. Stephenson</i>	DATE <i>7/21/63</i>	PARTS LIST		
CHK'D. <i>T. J. ...</i>	DATE <i>11 Nov 61</i>	TITLE		
ENG. <i>T. J. ...</i>	DATE <i>11/12/61</i>	FLOW CHART		
PROJ. ENG. <i>T. J. ...</i>	DATE <i>11/12/61</i>	CHANNEL INTERFACE		
PROD. <i>A. McShane</i>	DATE <i>11/20/61</i>	MATERIAL		
FINISH				
SCALE		SIZE CODE	NUMBER	REV.
SHEET 2 OF 1		D-FD-RP10-0-FCCI	B	B

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REV.	CHG.	BY	DATE
A	00004	GREEN JR	1-12-70
B	00008	GREEN JR	1-13-70
C	00036	B. WALSH	2-7-72
		B. WALSH	8-9-72

DEC FORM NO. DRD 102A

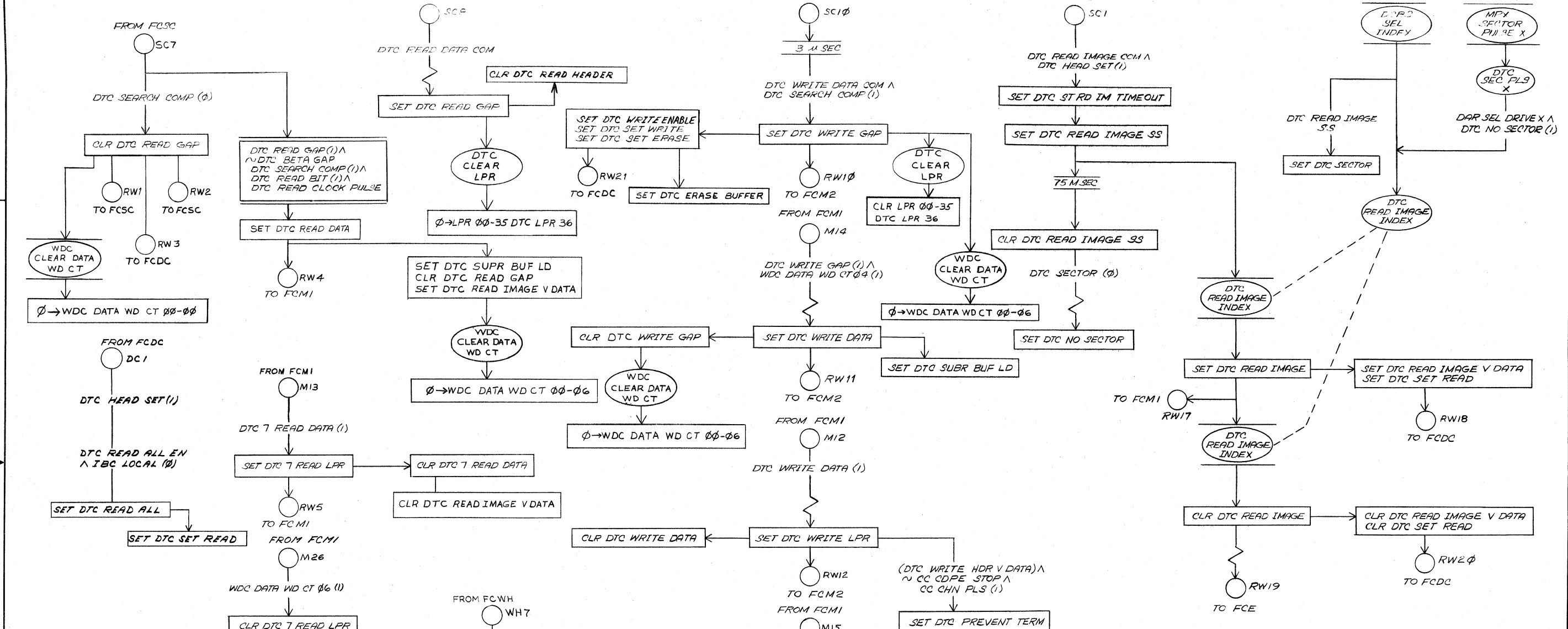
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DRAWING

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RDPI0				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
± .005 ± 1/64 ± 0°30'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
NEXT HIGHER ASSEMBLY				
FINISH				
SCALE				
SHEET / OF /				
DISTRIBUTION				

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

DATA TRANSFER CONTROL MICRO I
SIZE CODE: RDPI0-0-FCMI
NUMBER: C

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NOTE:
1. CXR SEC PARITY ERROR IS TRUE IF ANY LPR BIT IS CLEARED.

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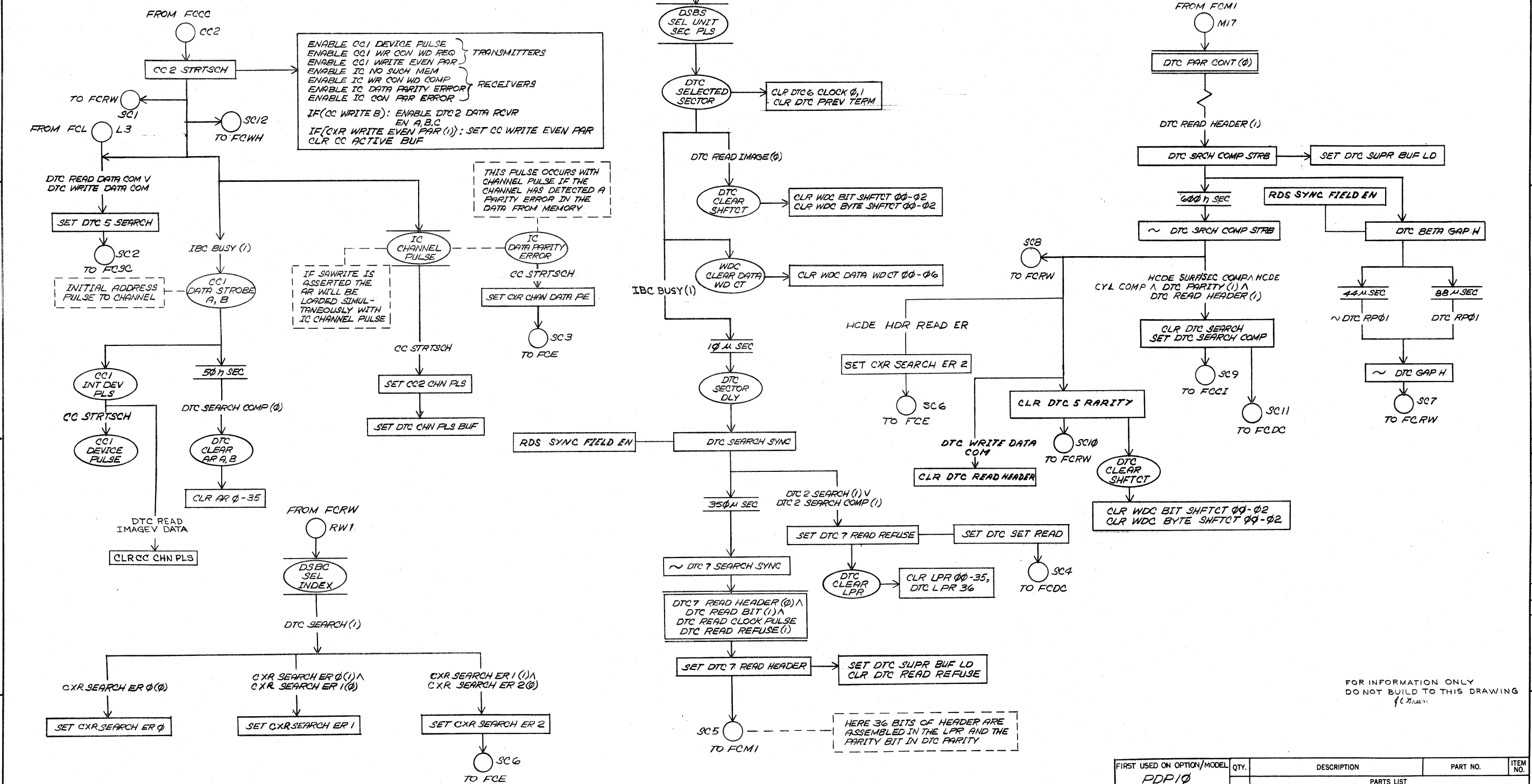
REV.	CHANGE NO.	DATE	BY	CHKD.
A	00004	1-13-70	GREEN JR.	
B	00036	7-13-70	B. WALSH	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP10				
PARTS LIST				
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	PROD. DATE	DATE		
	11/11/69	11/11/69		
NEXT HIGHER ASSY				
A-ML-RP10-0				
FINISH	SCALE			
	1 OF 1			

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
FLOW CHART
READ/WRITE

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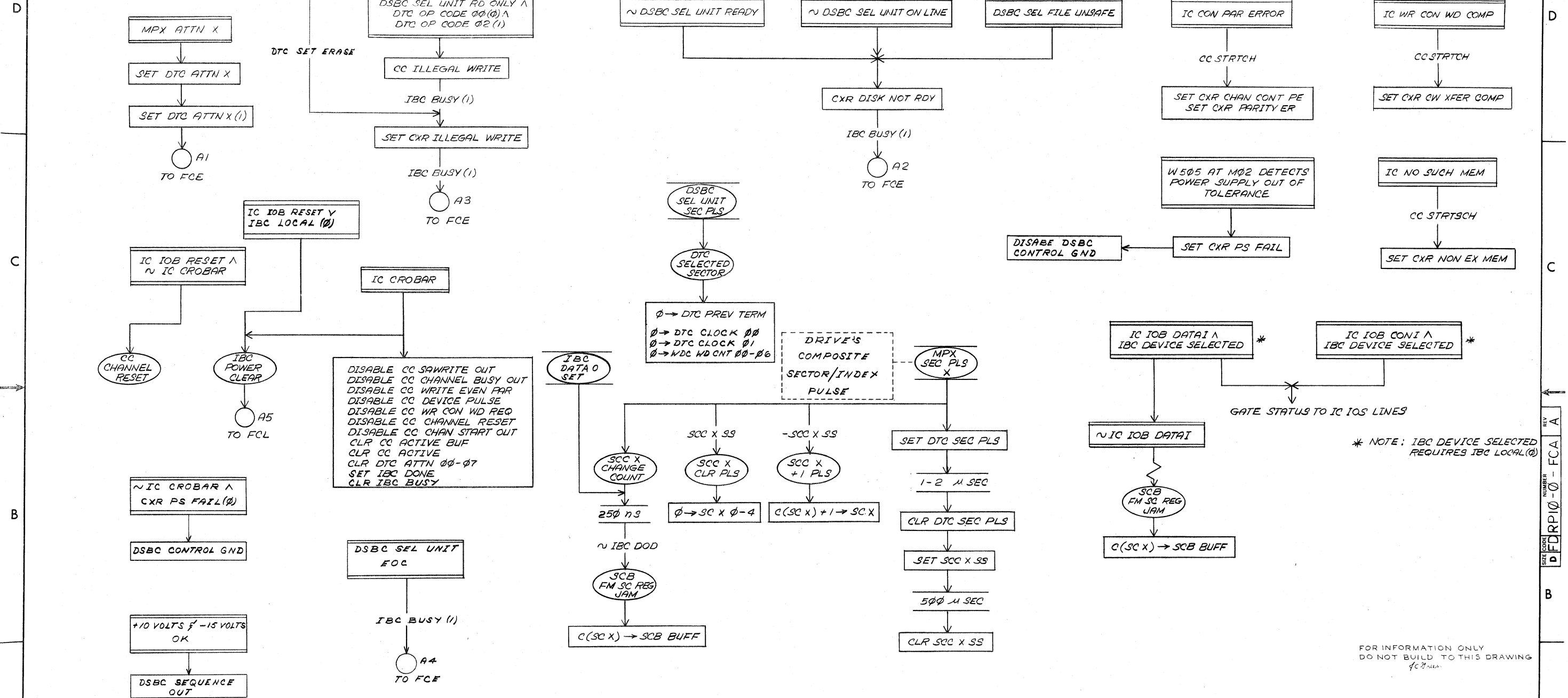
REV.	CHG. NO.	DATE	BY	APP'D.
A	RP10-0004	1-13-70	T. Green	
B	RP10-0009	1-16-70	T. Green	
C	RP10-0036	3-11-71	I. VES	
	RP10-0036	2-3-72	B. WALSH	
		3-9-72	S. WALSH	

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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PP10				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. <i>A. Thompson</i>	DATE <i>7/26/69</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D <i>Long</i>	DATE <i>11 Nov 69</i>	TITLE	
TOLERANCES	ENG. <i>5/5/69</i>	DATE <i>11 Nov 69</i>	FLOW CHART SEARCH	
DECIMALS = .005	PROJ. ENG. <i>5/5/69</i>	DATE <i>11 Nov 69</i>	MATERIAL	
FRACTIONS = 1/64	PROD. <i>A. M. Jones</i>	DATE <i>11-16-69</i>	NEXT HIGHER ASSY	
ANGLES = 0°30'			A-ML-RP10-0	
FINAL SURFACE QUALITY			SCALE	
REMOVE BURRS AND BREAK SHARP CORNERS			SHEET 1 OF 1	
			SIZE CODE NUMBER REV.	
			DFDRP10-0-FCSC C	

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NOTE:
THE RPIΦ HAS MANY ASYNCHRONOUS TIMING CHAINS AND SYNCHRONIZERS, SOME ARE STARTED BY EXTERNAL TIMING PULSES, LEVELS FROM THE RPI1, RPI2 AND DFIΦ. THEY ARE COLLECTED HERE FOR REFERENCE.



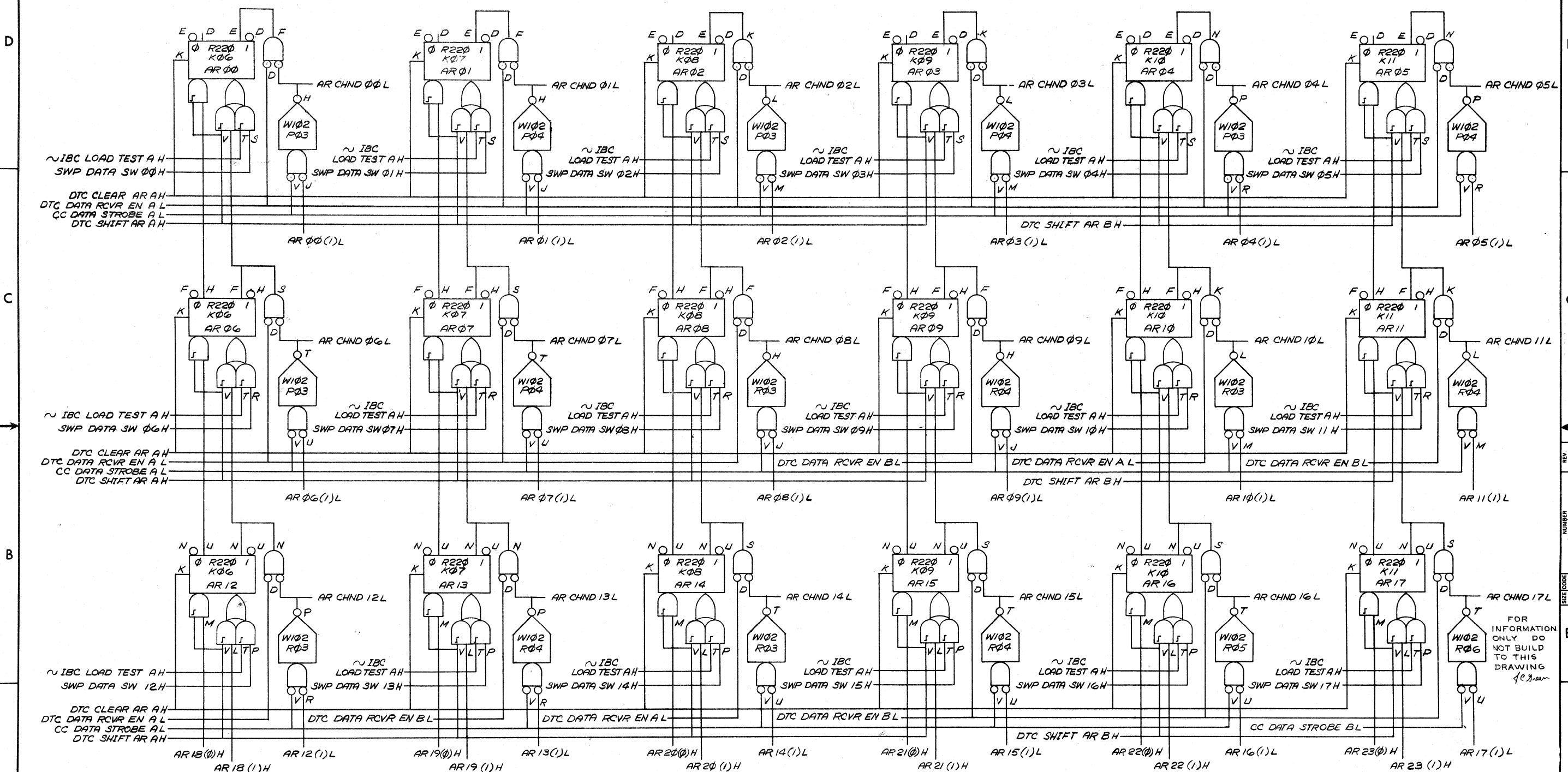
FOR INFORMATION ONLY
DO NOT BUILD TO THIS DRAWING
JC 7-11-69

REV.	CHG. NO.	DATE	BY	CHK.
A	00036	2-4-72	B. WALSH	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP10				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. <i>W. Stephenson</i>	DATE 10/20/68	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D. <i>W. Stephenson</i>	DATE 11/Nov 69	TITLE	
TOLERANCES	ENG. <i>W. Stephenson</i>	DATE	FLOW CHART	
DECIMALS FRACTIONS ANGLES	PROJ. ENG. <i>W. Stephenson</i>	DATE	ASYNCHRONOUS &	
± .005 ± 1/64 ± 0°30'	PROD. <i>W. Stephenson</i>	DATE 11-16-69	SECTOR COUNTERS	
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS	MATERIAL	NEXT HIGHER ASSY	SIZE CODE NUMBER REV	
	FINISH	A-ML-RPIΦ-Φ	DFDRPI0-0-FCA	A
SCALE	SHEET / OF /	DIST.		

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REV. 11-16-65
 SIZE CODE DBS RPI0-0-AR
 NUMBER 2



REV.	
CHG.	
NO.	

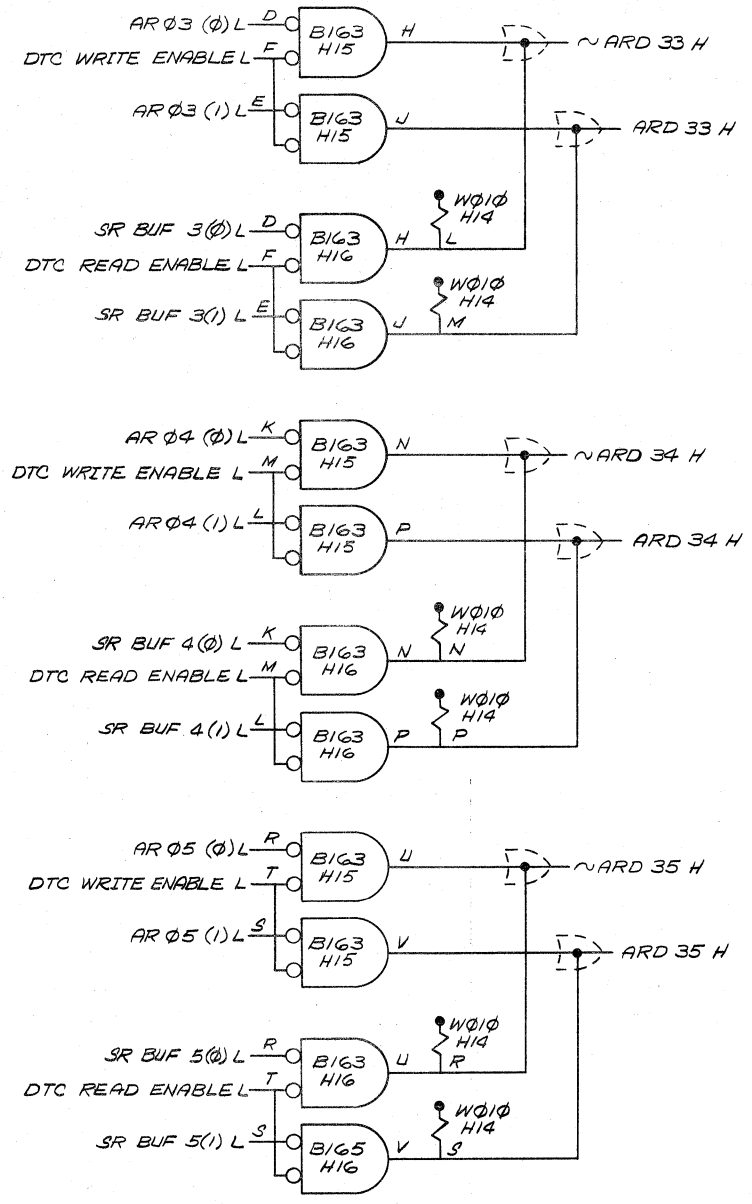
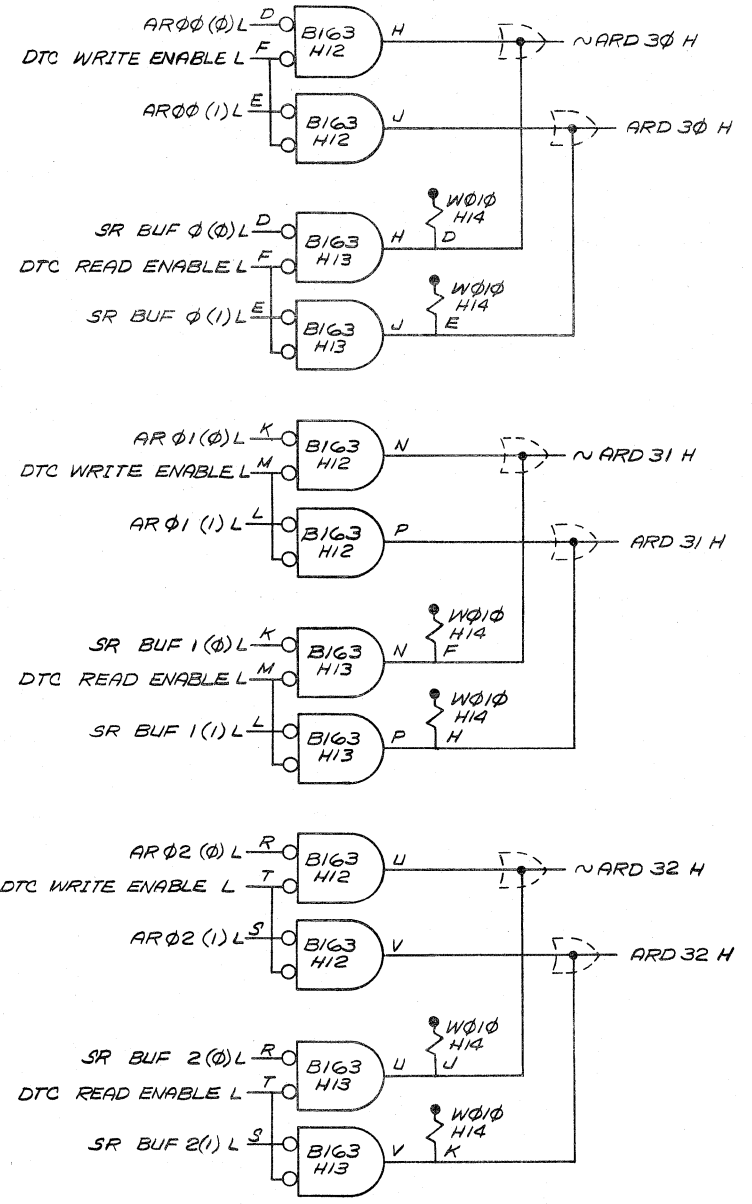
FIRST USED ON OPTION/MODEL
 PDP10

UNLESS OTHERWISE SPECIFIED	DRN. <i>W. Johnson</i>	DATE 11/11/65
DIMENSION IN INCHES	CHKD. <i>W. Johnson</i>	DATE 11/11/65
TOLERANCES	ENG. <i>John Green Jr</i>	DATE 11/10/65
DECIMALS FRACTIONS ANGLES	PROJ. ENG. <i>John Green Jr</i>	DATE 11/10/65
= .005 ± 1/64 ± 0°30'	PROD. <i>U. J. Johnson</i>	DATE 11-16-65
FINAL SURFACE QUALITY		
REMOVE BURRS AND BREAK SHARP CORNERS		
MATERIAL	NEXT HIGHER ASSY	
FINISH	A-ML-RPI0-0	

SCALE	SHEET 1 OF 2
-------	--------------

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TITLE ASSEMBLY REGISTER	
SIZE CODE DBS RPI0-0-AR	NUMBER 2
DIST.	REV.

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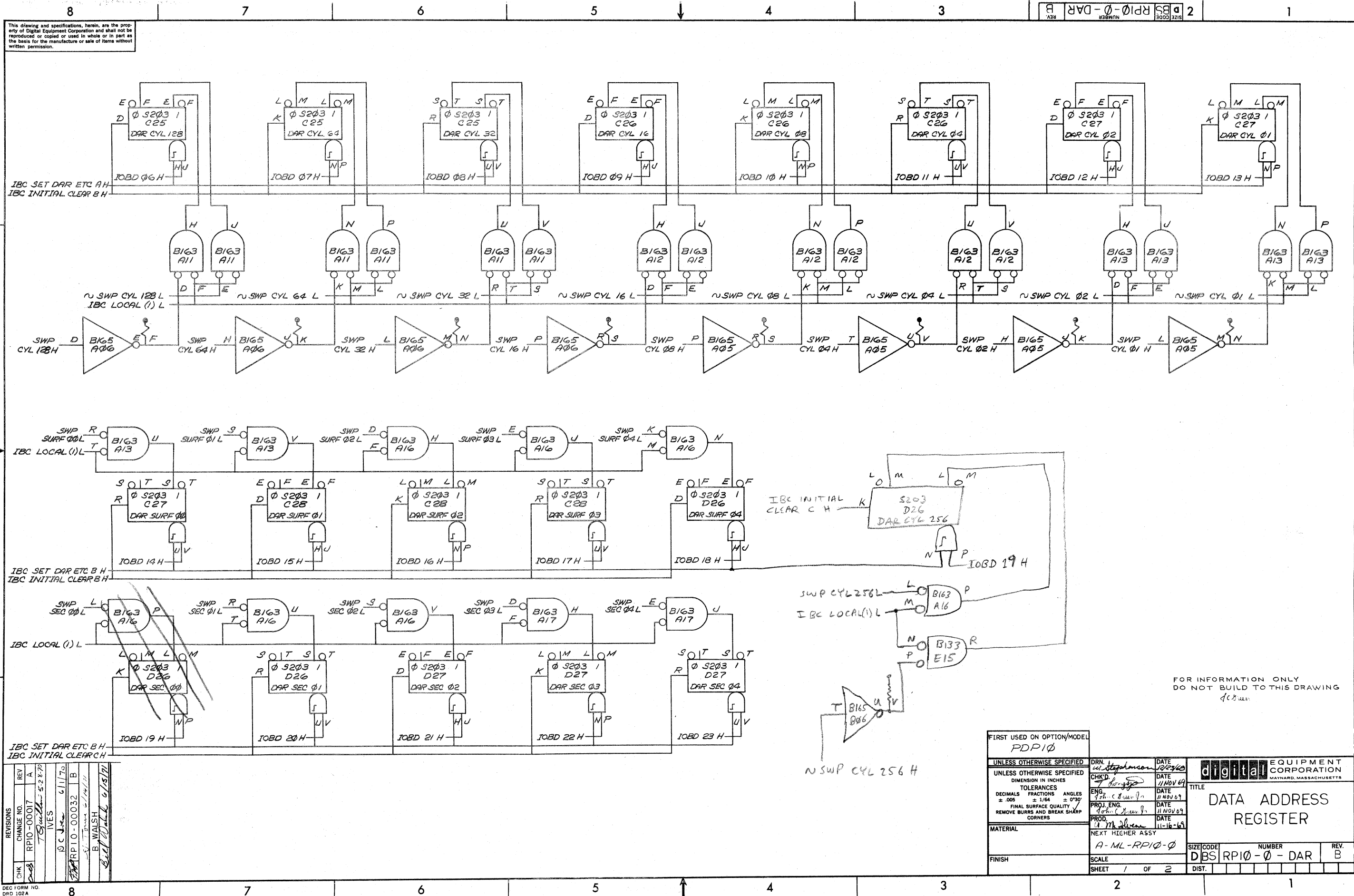


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REV.	
CHG.	
NO.	
DATE	

FIRST USED ON OPTION/MODEL PDP10	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. <i>W. Stephens</i>	DATE 11/21/68	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D. <i>J. Long</i>	DATE 11/20/69	TITLE ASSEMBLY REGISTER DATA GATE	
TOLERANCES	ENG. <i>John C. Brown Jr.</i>	DATE 11/20/69	MATERIAL NEXT HIGHER ASSY A-ML-RPI0-0	
DECIMALS FRACTIONS ANGLES	PROJ. ENG. <i>John C. Brown Jr.</i>	DATE 11/23/69	FINISH SCALE	
± .005 ± 1/64 ± 0°30'	PROD. <i>A. McShane</i>	DATE 11-16-69	SHEET / OF /	
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS	SIZE CODE DBS RPI0-0-ARD		NUMBER	REV.
		DIST.		

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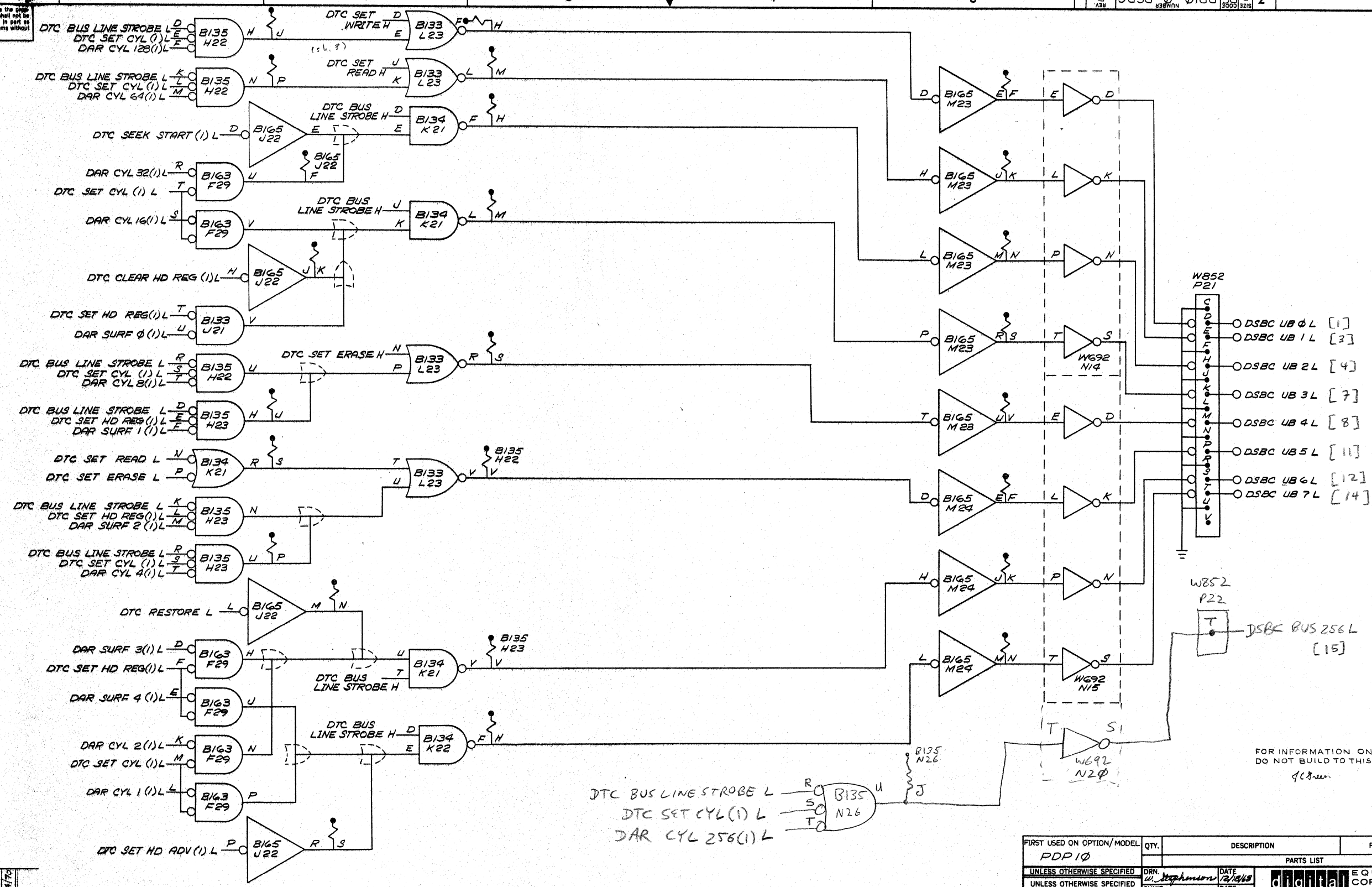


REV	CHG	NO.	DATE	BY
1	A	00017	5/28/60	J. Walsh
2	B	00032	6/11/60	J. Walsh
3	C	00032	6/15/60	J. Walsh

FIRST USED ON OPTION/MODEL PDP10		DATE 11/16/60	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± 1/64 ± 0°30'		DATE 11/16/60	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		DATE 11/16/60	
MATERIAL NEXT HIGHER ASSY A-ML-RP10-0		DATE 11-16-60	
FINISH SCALE SHEET 1 OF 2		DATE 11-16-60	
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE DATA ADDRESS REGISTER	
SIZE CODE D B S R P 1 0 - 0 - D A R		NUMBER B	

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BSRPI0-0-DSBC 2



DTC BUS LINE STROBE L — R
 DTC SET CYL(1) L — S
 DAR CYL 256(1) L — T

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 9/8/69

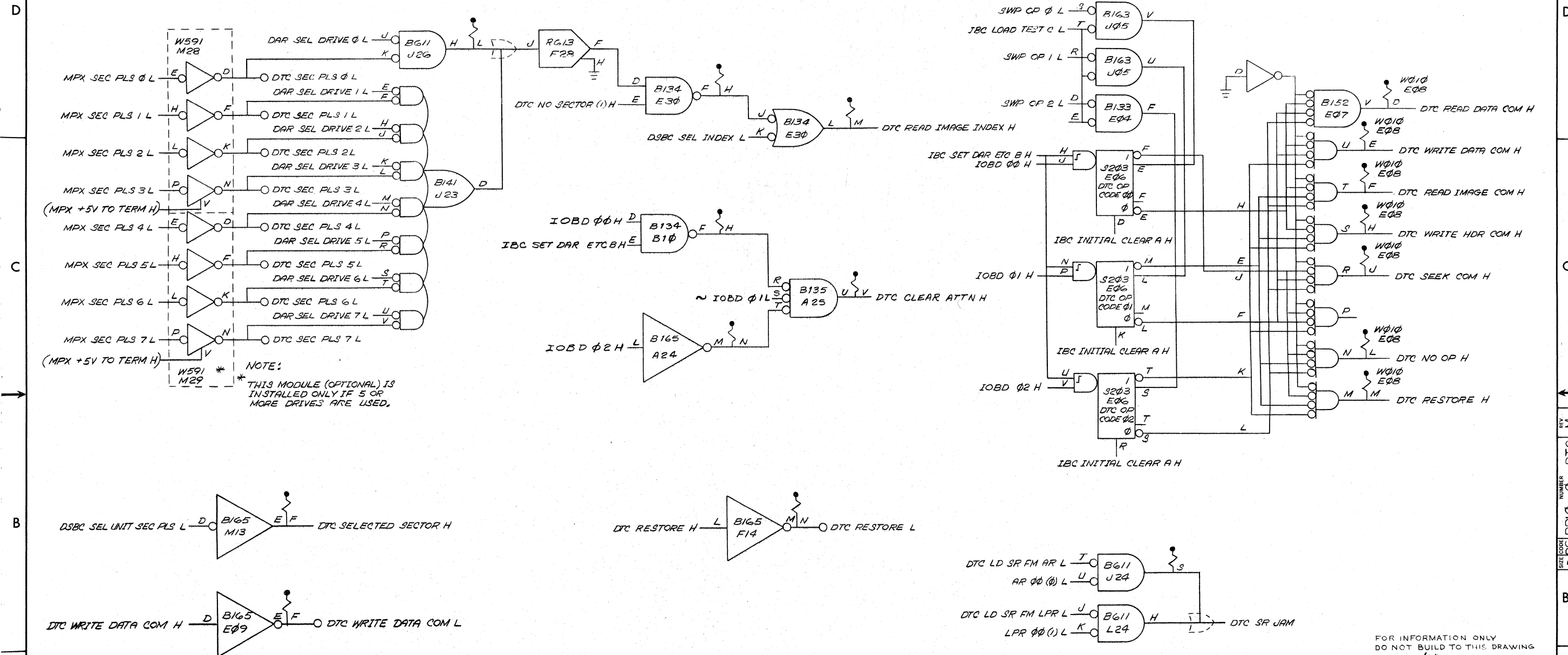
REV.	CHG. NO.	DATE	BY
A	0008	2-13-70	T. Sullivan
B	0022	2/14/70	C. Jones
C	0022	6/24/70	D. C. Jones

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP10				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
DRN. W. Stephenson DATE 12/14/69				
UNLESS OTHERWISE SPECIFIED				
CHK'D BY T. Sullivan DATE 1/11/69				
DIMENSION IN INCHES				
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
±.005 ± 1/64 ± 0°30'				
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS				
PROJ. ENG. John C. Green Jr. DATE 11/10/69				
PROD. A. Matheson DATE 11-16-69				
NEXT HIGHER ASSY				
A-ML-RPI0-0				
MATERIAL				
FINISH				
SCALE				
SHEET 1 OF 2				
SIZE CODE			NUMBER	REV.
DSB			RPI0-0-DSBC	B

digital EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE
DISK SIGNAL BUS CONNECTORS

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NOTE: THIS MODULE (OPTIONAL) IS INSTALLED ONLY IF 5 OR MORE DRIVES ARE USED.

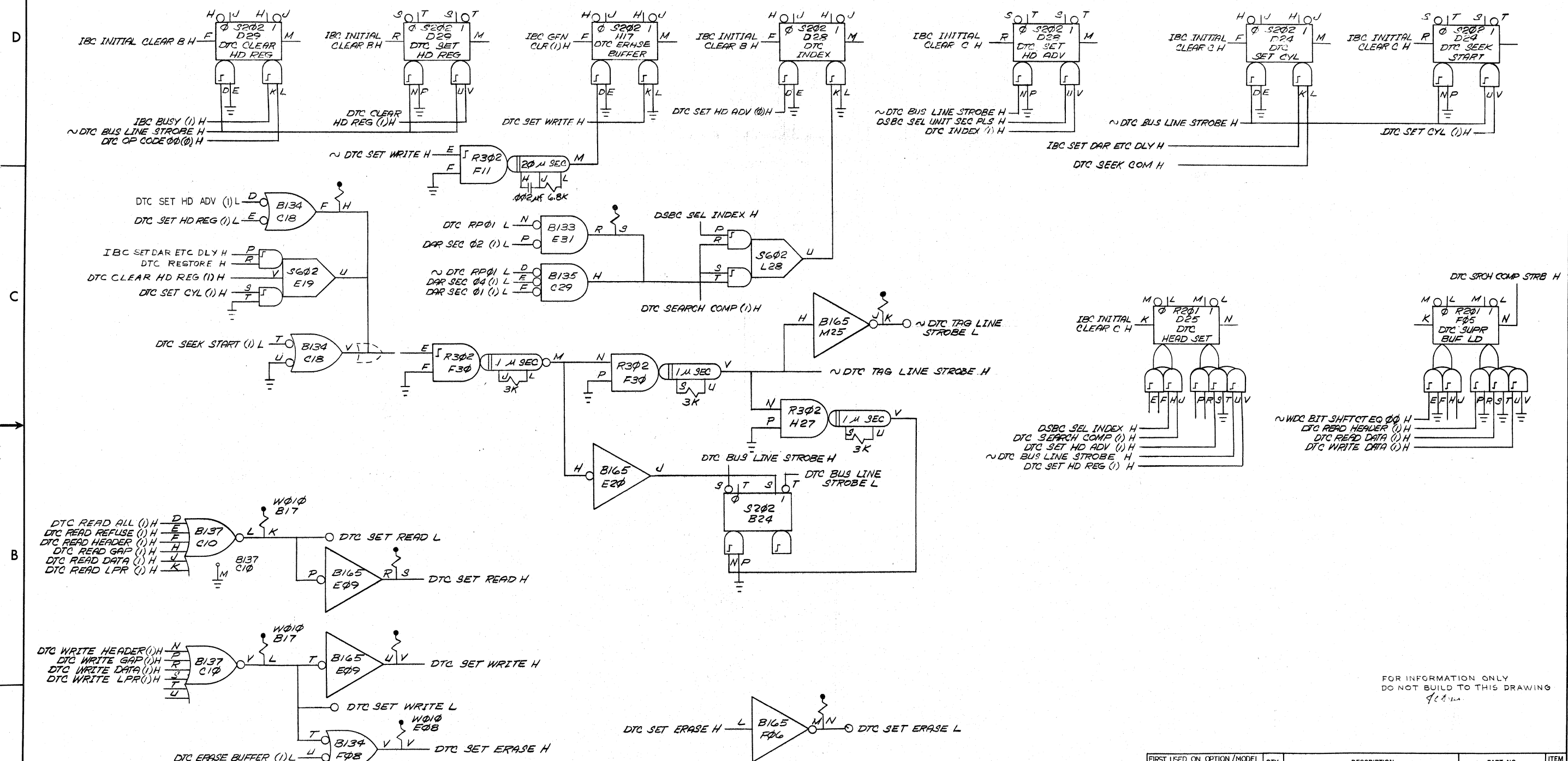
FOR INFORMATION ONLY DO NOT BUILD TO THIS DRAWING

REV.	CHG.	NO.	BY	DATE	DESCRIPTION
A	1	0006	J. GREEN	1-22-70	REVISED TO 1-22-70
B	1	0008	T. QUINN	1-23-70	REVISED TO 1-23-70
C	1	0009	J. GREEN	2-16-70	REVISED TO 2-16-70
D	1	0013	J. GREEN	2/20/70	REVISED TO 2/20/70
E	1	0017	J. GREEN	5/14/70	REVISED TO 5/14/70
F	1	0027	J. GREEN	6-1-71	REVISED TO 6-1-71
G	1	0031	J. GREEN	11-1-71	REVISED TO 11-1-71
H	1	0038	J. GREEN	11/3/71	REVISED TO 11/3/71
J	1	0029	J. GREEN	3/24/71	REVISED TO 3/24/71
K	1	0003	J. GREEN	9-3-71	REVISED TO 9-3-71
L	1	0033	J. GREEN	11-1-71	REVISED TO 11-1-71
M	1	0035	J. GREEN	11/3/71	REVISED TO 11/3/71
			J. GREEN	1/6/72	REVISED TO 1/6/72

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP10				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
± .005 ± 1/64 ± 0°30'				
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
NEXT HIGHER ASSY				
A-ML-RPI0-0				
FINISH				
SCALE				
SHEET 1 OF 7				
PARTS LIST			TITLE	
digital EQUIPMENT CORPORATION			DATA TRANSFER CONTROL	
MAYNARD, MASSACHUSETTS			REV. M	
SIZE CODE NUMBER			REV. M	
D B S R P I 0 - 0 - D T C			M	
DIST.			1	

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REV M
NUMBER
D B S R P I 0 - 0 - D T C
3000 (215)

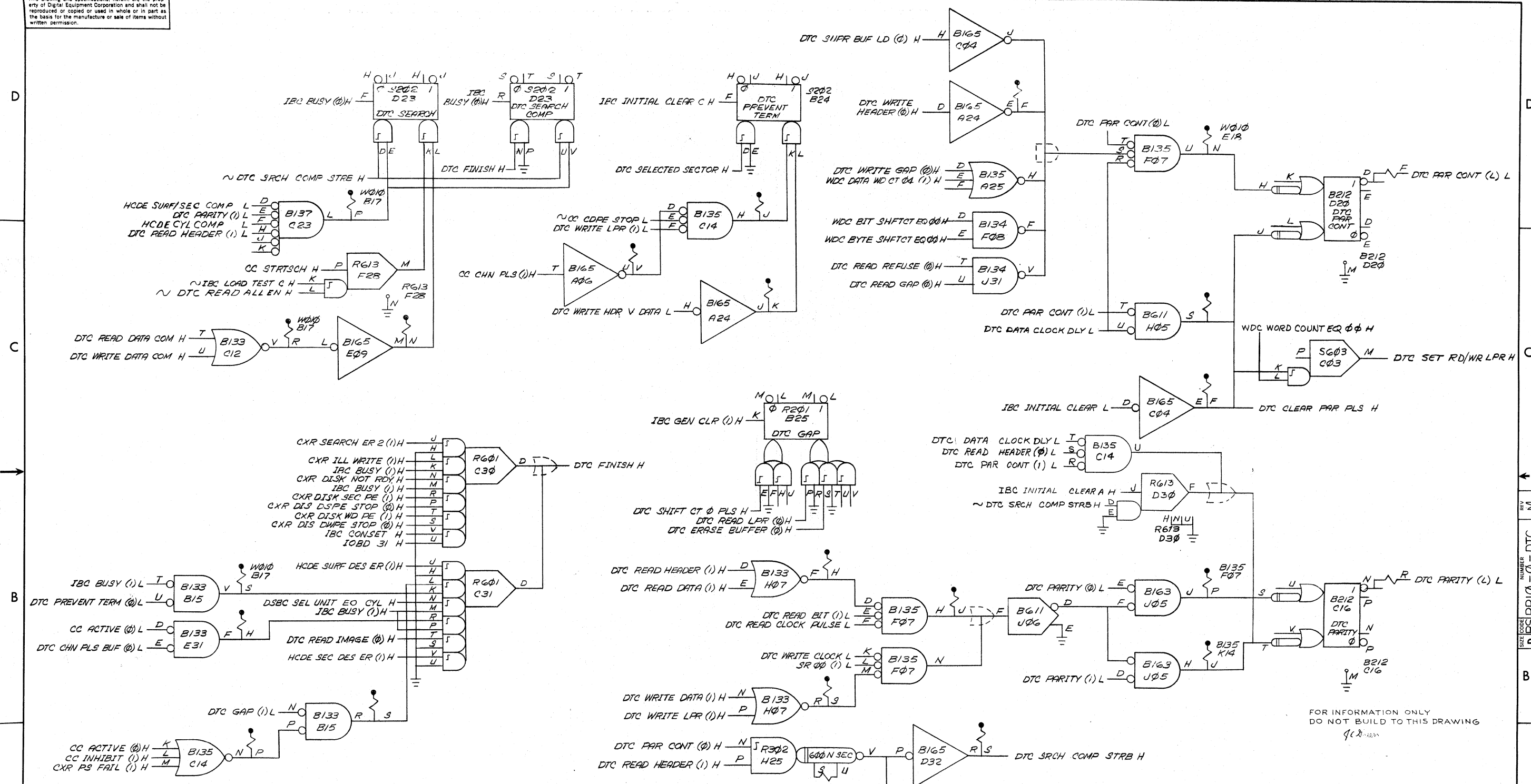


FOR INFORMATION ONLY
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9/1/69

REV.	
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL PDP10	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN. C. J. Higgins	DATE 6/29/69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± 1/64 ± 0°30'	CHKD. J. Long	DATE 11/10/69	TITLE DATA TRANSFER CONTROL	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	ENG. C. J. Higgins	DATE 11/10/69	MATERIAL NEXT HIGHER ASSY	
	PROJ. ENG. C. J. Higgins	DATE 11/10/69	FINISH SCALE	
	PROB. C. J. Higgins	DATE 11-16-69	SHEET 3 OF 7	
			SIZE CODE NUMBER REV D B S R P I 0 - 0 - D T C M	

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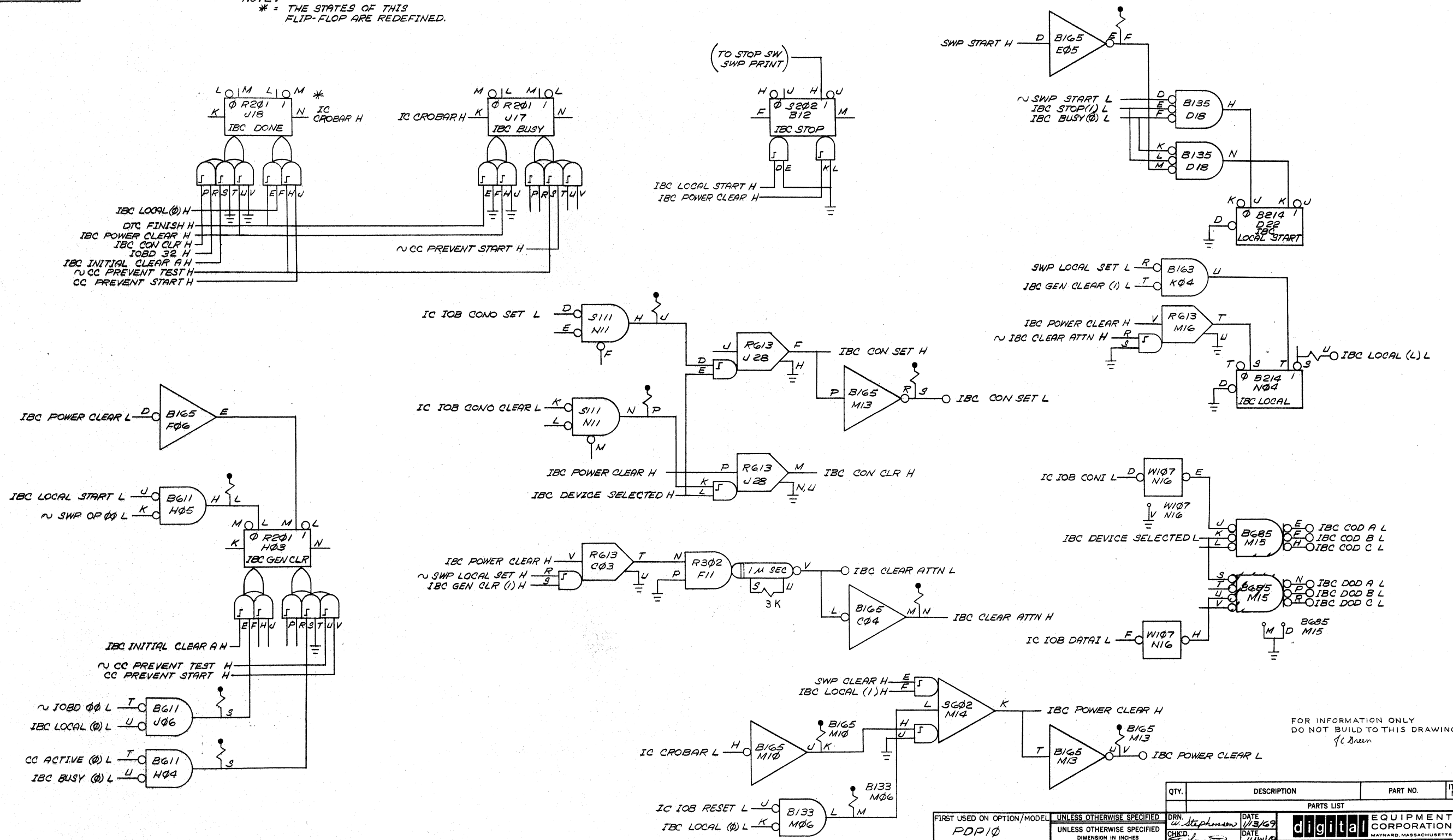
FOR INFORMATION ONLY
DO NOT BUILD TO THIS DRAWING
9-2-69

REV.	CHANGE NO.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. <i>W. Stephenson</i>	DATE <i>7/10/69</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS DATA TRANSFER CONTROL	
UNLESS OTHERWISE SPECIFIED	CHK'D. <i>J. Long</i>	DATE <i>11/NOV/69</i>		
DIMENSION IN INCHES	ENG. <i>W. C. ...</i>	DATE <i>11/NOV/69</i>		
DECIMALS FRACTIONS ANGLES	PROJ. ENG. <i>W. C. ...</i>	DATE <i>11/NOV/69</i>		
± .005 ± 1/64 ± 0°30'	PROD. <i>W. C. ...</i>	DATE <i>11-16-69</i>	TITLE	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	MATERIAL	NEXT HIGHER ASSY		
FINISH	SCALE	SIZE CODE NUMBER REV		
SHEET 5 OF 7	DIST.	D B S R P I Q - 0 - D T C M		

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NOTE:
* = THE STATES OF THIS FLIP-FLOP ARE REDEFINED.



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Jc Green

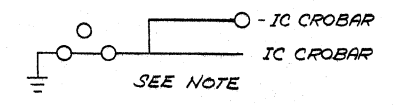
REV.	NO.
CHG.	NO.
CHK.	NO.

FIRST USED ON OPTION/MODEL
PDP10

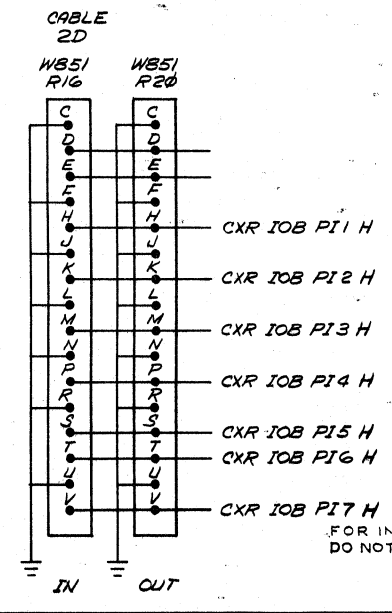
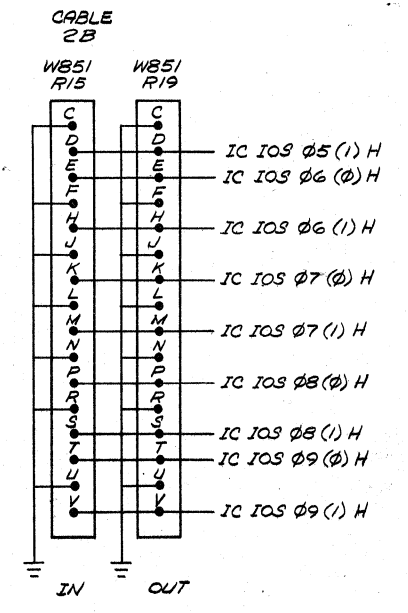
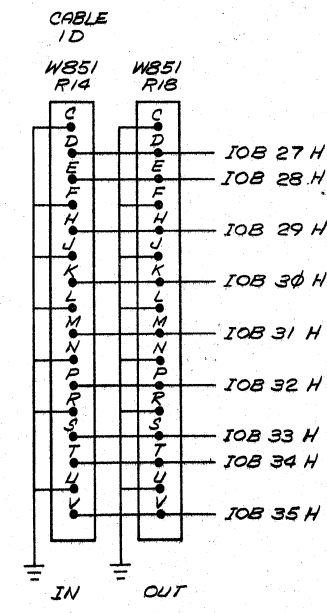
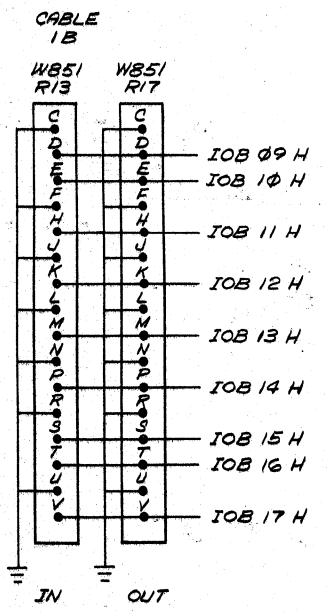
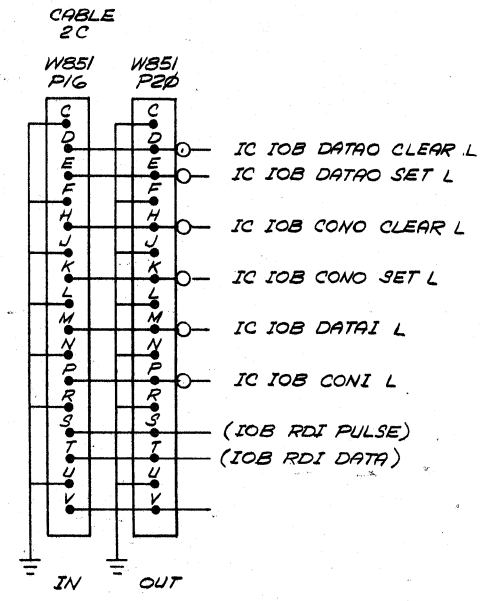
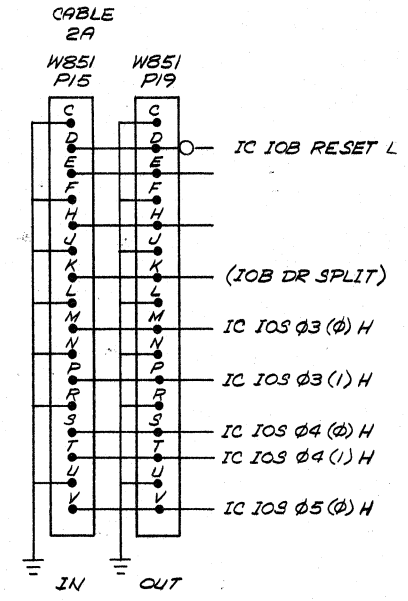
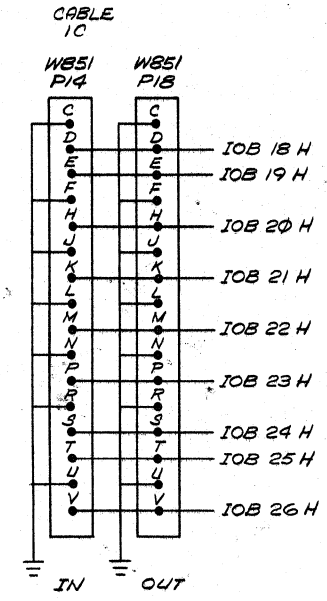
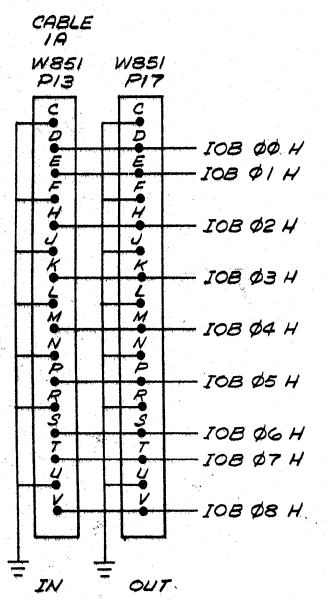
UNLESS OTHERWISE SPECIFIED	DATE
DRAWN BY: <i>Stephenson</i>	1/13/69
UNLESS OTHERWISE SPECIFIED	DATE
CHKD BY: <i>T. Longenecker</i>	1/14/69
DIMENSION IN INCHES	DATE
TOLERANCES	11/20/68
DECIMALS FRACTIONS ANGLES	DATE
= .005 = 1/64 = 0°00'	11/20/68
FINAL SURFACE QUALITY	DATE
REMOVE BURRS AND BREAK SHARP CORNERS	11-16-68
MATERIAL	DATE
NEXT HIGHER ASSY	
A-ML-RP10-0	
FINISH	
SCALE	
SHEET 1 OF 2	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
TITLE I/O BUS CONTROL			
SIZE CODE		NUMBER	REV.
A-ML-RP10-0		DBSRP10-0-IBC	
SCALE		DIST.	
SHEET 1 OF 2			

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NOTE: THIS SIGNAL IS DERIVED IN THE POWER CONTROL AND IS AT GROUND WHEN POWER IS OFF AND FOR APPROXIMATELY FOUR SECS. AFTER POWER UP.



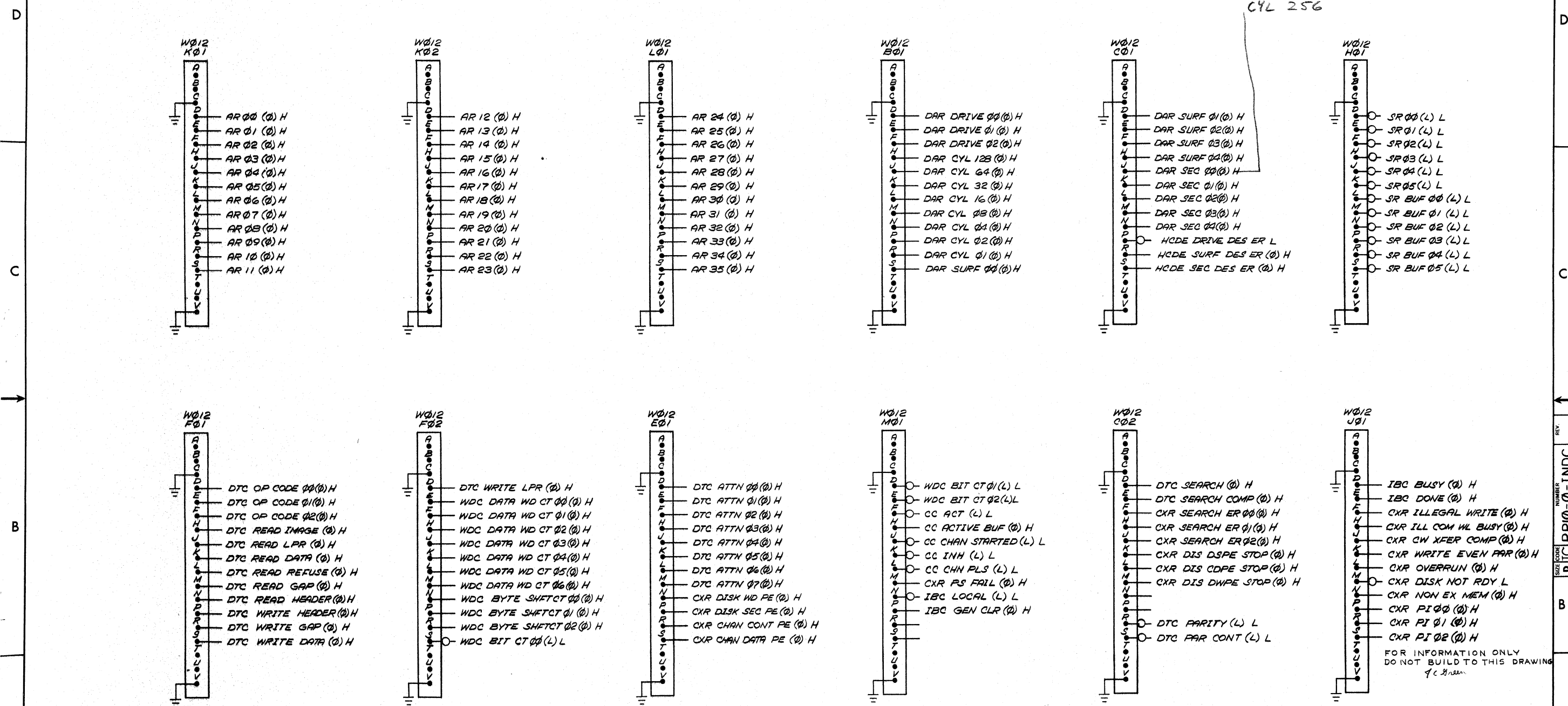
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9/8-69

REVISIONS	REV.
CHANGE NO.	
CHK	

DEC FORM NO. DRD 102A

FIRST USED ON OPTON/MODEL PDPI0	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. <i>1/2/69</i>	DATE <i>1/2/69</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DIMENSION IN INCHES	CHKD. <i>1/2/69</i>	DATE <i>1/2/69</i>		
TOLERANCES	ENG. <i>1/2/69</i>	DATE <i>1/2/69</i>	TITLE INTERCONNECTING CABLES	
DECIMALS FRACTIONS ANGLES	PROJ. ENG. <i>1/2/69</i>	DATE <i>1/2/69</i>		
= .005 = 1/64 = 0°00'	PROD. <i>1/2/69</i>	DATE <i>1/2/69</i>	SIZE CODE NUMBER DIC RPI0-0-IC	
REMOVE BURRS AND BREAK SHARP CORNERS	NEXT HIGHER ASSY A-ML-RPI0-0			
MATERIAL	SCALE	SHEET	REV.	
FINISH	1 OF 2	DIST.		

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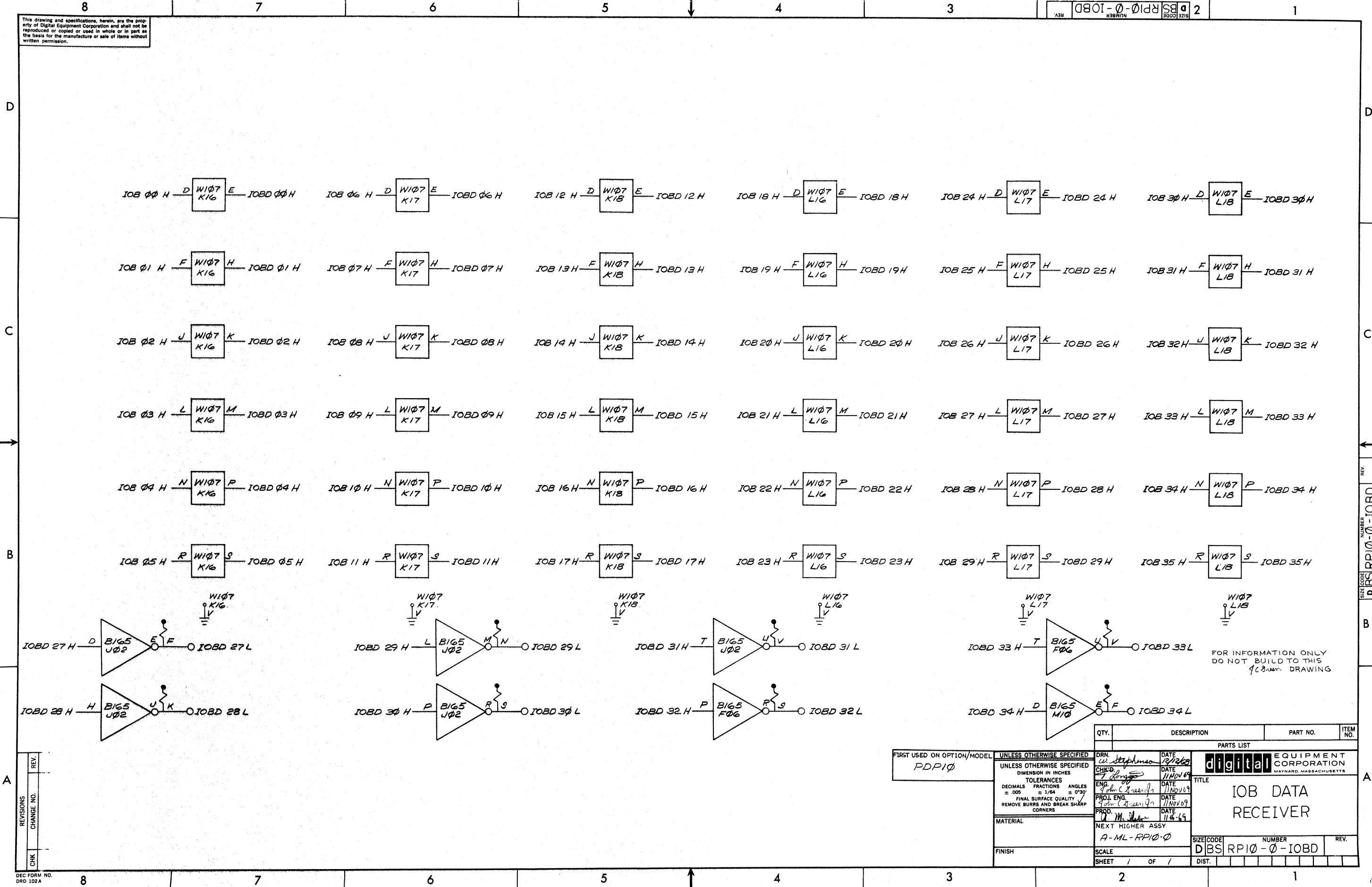
CYL 256

REV.	
CHANGES	
CHK	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP1Ø				
UNLESS OTHERWISE SPECIFIED				
DRN. <i>W. Stephenson</i>		DATE <i>2/9/69</i>	PARTS LIST	
CHKD. <i>J. Conroy</i>		DATE <i>11/NOV/69</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
ENG. <i>J. Conroy</i>		DATE <i>11/NOV/69</i>	TITLE	
PROJ. ENG. <i>J. Conroy</i>		DATE <i>11/NOV/69</i>	INDICATORS	
PROD. <i>U. M. S. S.</i>		DATE <i>11-16-69</i>		
MATERIAL		NEXT HIGHER ASSY		
FINISH		SCALE	SIZE CODE	NUMBER
		SHEET / OF /	D I C R P I Ø - Ø - I N D C	REV.
			DIST.	

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REV. 1331
 NUMBER 83003218
 DBS RPI0-0-IOBD 2



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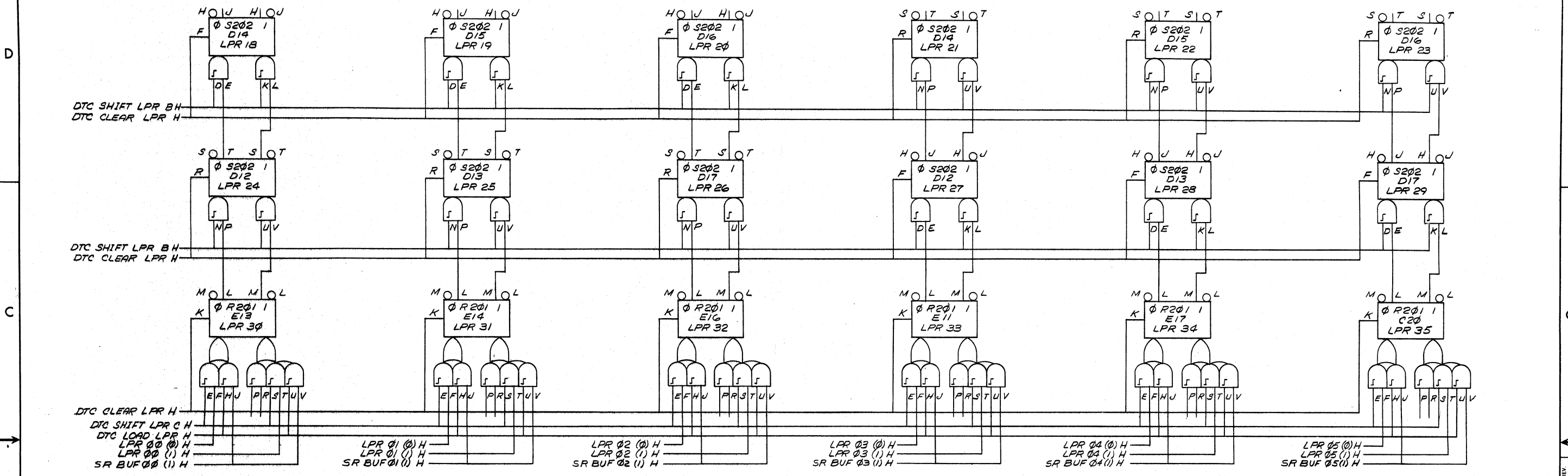
REVISIONS	REV.
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL
 PDPI0

UNLESS OTHERWISE SPECIFIED	DRN. <i>W. Stephens</i> DATE 12/26/69
TOLERANCES	CHKD. <i>T. Longo</i> DATE 11/NOV 69
DECIMALS FRACTIONS ANGLES	ENG. <i>John C. Green</i> DATE 11/NOV 69
± .005 ± 1/64 ± 0°30'	PROJ. ENG. <i>John C. Green</i> DATE 11/NOV 69
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS	PRD. <i>W. Stephens</i> DATE 11-4-69
MATERIAL	NEXT HIGHER ASSY
FINISH	A-ML-RPI0-0

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE	
		IOB DATA RECEIVER	
SCALE		SIZE CODE	NUMBER
SHEET 1 OF 1		DBS RPI0-0-IOBD	REV.

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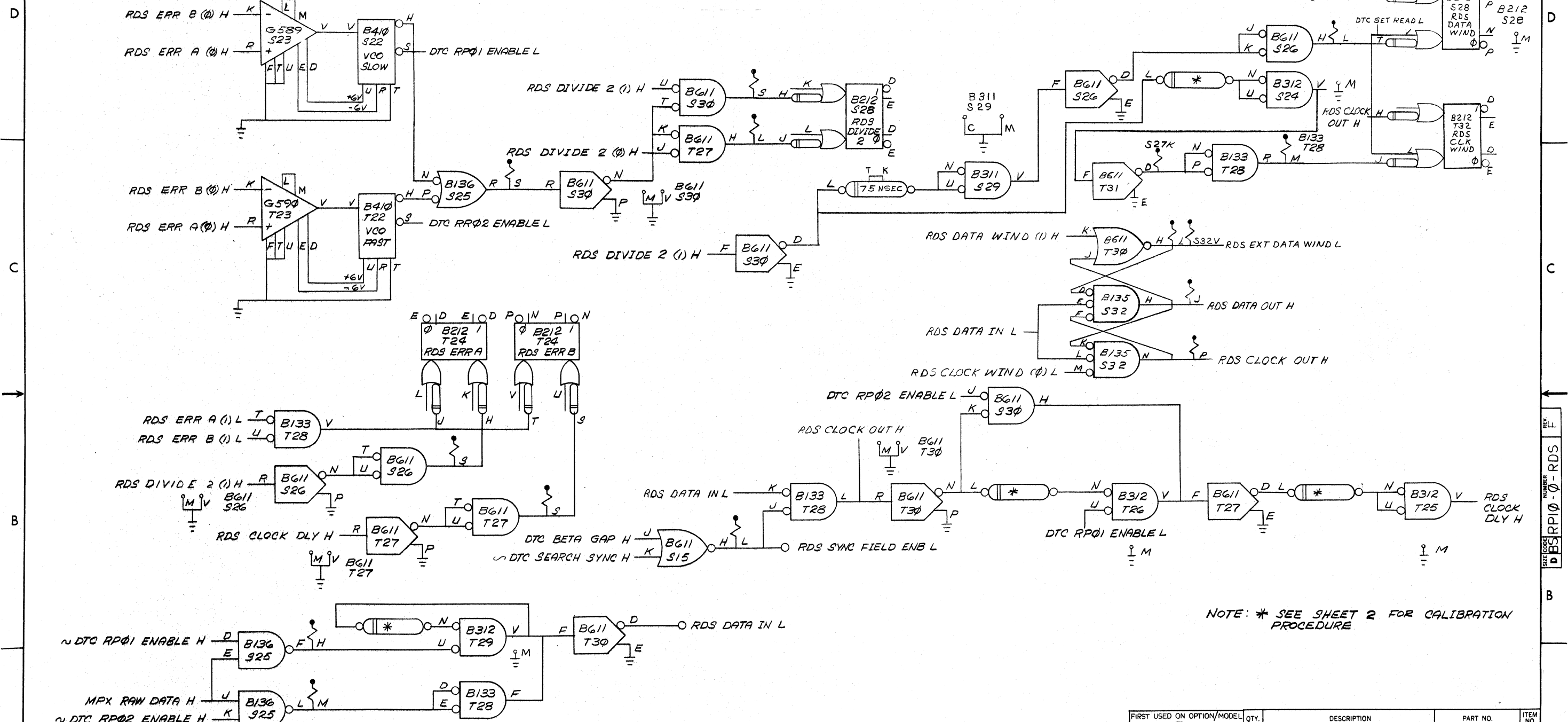
FOR INFORMATION ONLY
DO NOT BUILD TO THIS DRAWING
Jc Green

REV	
CHANGE NO.	
CHK	

DEC FORM NO. DRD 102A

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP10				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED		DRN. <i>W. Stephenson</i>	DATE <i>11/2/68</i>	digital EQUIPMENT CORPORATION MATYARD, MASSACHUSETTS TITLE LONGITUDINAL PARITY REGISTER
UNLESS OTHERWISE SPECIFIED		CHK'D. <i>J. Longo</i>	DATE <i>11/16/68</i>	
DIMENSION IN INCHES		ENG. <i>J. Longo</i>	DATE <i>11/16/68</i>	
TOLERANCES		PROJ. ENG. <i>J. Longo</i>	DATE <i>11/16/68</i>	
DECIMALS FRACTIONS ANGLES		PROD. <i>J. Longo</i>	DATE <i>11/16/68</i>	
± .005 ± 1/64 ± 0°30'		NEXT HIGHER ASSY A-ML-RPI0-0		SIZE CODE DBS RPI0-0-LPR
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		SCALE		NUMBER 2 OF 2
MATERIAL		SHEET		REV.
FINISH		DIST.		

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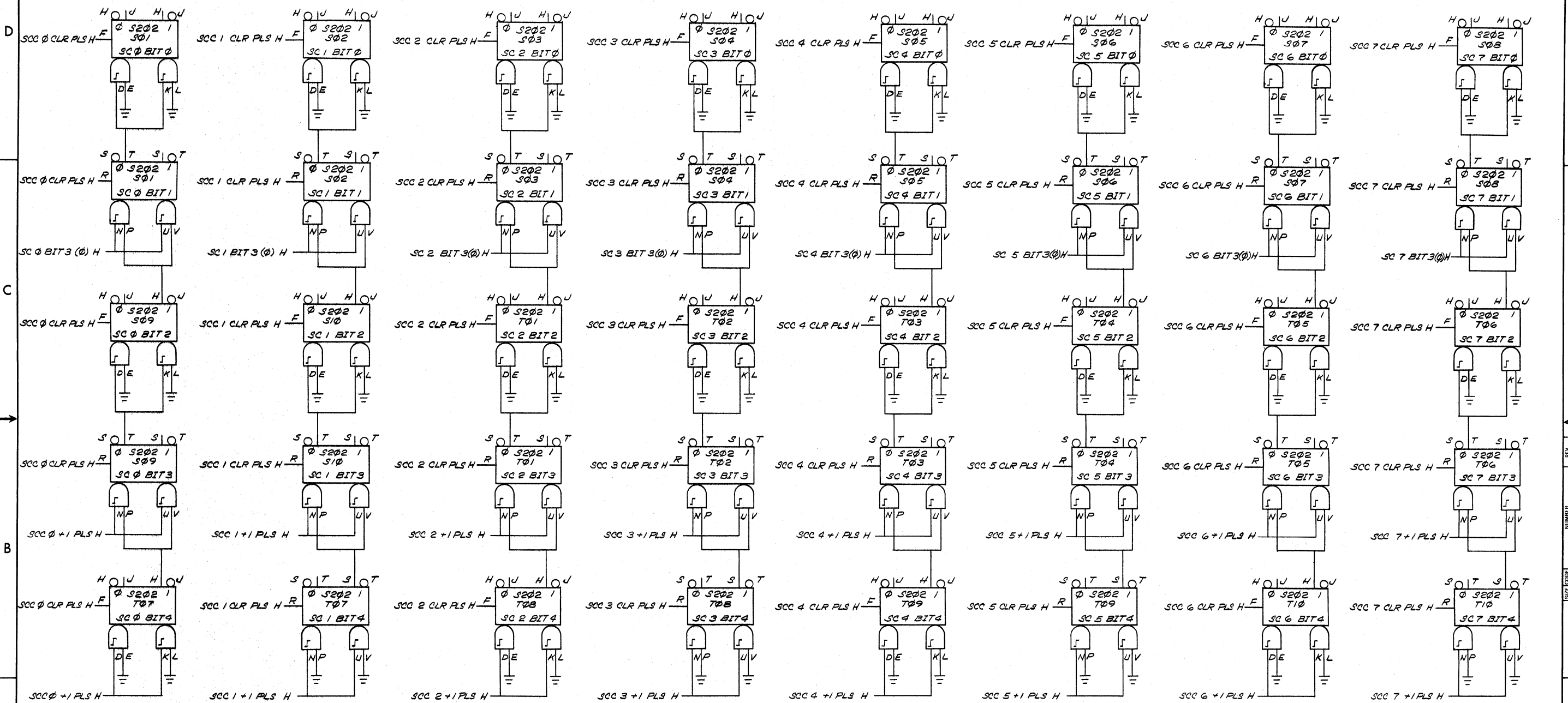


REV.	CHG. NO.	DATE	BY	DESCRIPTION
A	RPI0-0009			REVISED & REDRAWN
B	RPI0-0002	13 FEB 70	T. R. W.	
C	RPI0-0003	4/8/70	J. GREEN	
D	RPI0-00027	5/4/70	J. GREEN	
E	RPI0-00031	1/28/71	IVES	
F	RPI0-00033	11-2-71	B. WALSH	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP-10				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DIMENSION IN INCHES	CHK'D.	DATE	TITLE	
TOLERANCES	ENG.	DATE	READ DATA SEPARATOR	
DECIMALS FRACTIONS ANGLES	PROJ. ENG.	DATE	SIZE CODE NUMBER REV.	
= .005 = 1/64 = 0°30'	PROD.	DATE	DBS RPI0-0-RDS F	
FINAL SURFACE QUALITY			SCALE	
REMOVE BURRS AND BREAK SHARP CORNERS			SHEET 1 OF 2	
MATERIAL			DIST.	
NEXT HIGHER ASSY				
A-ML-RPI0-0				

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REV. 13B NUMBER 2
 BS RPI0-0-SC
 30013215



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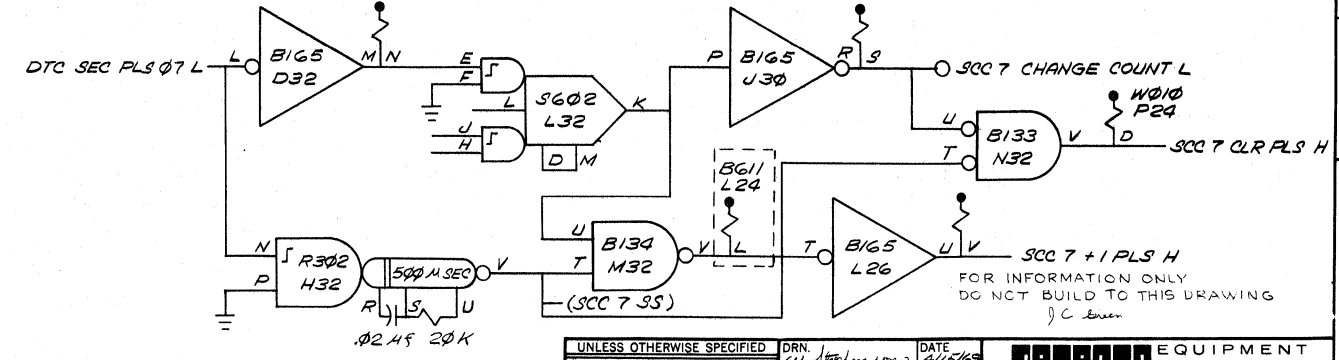
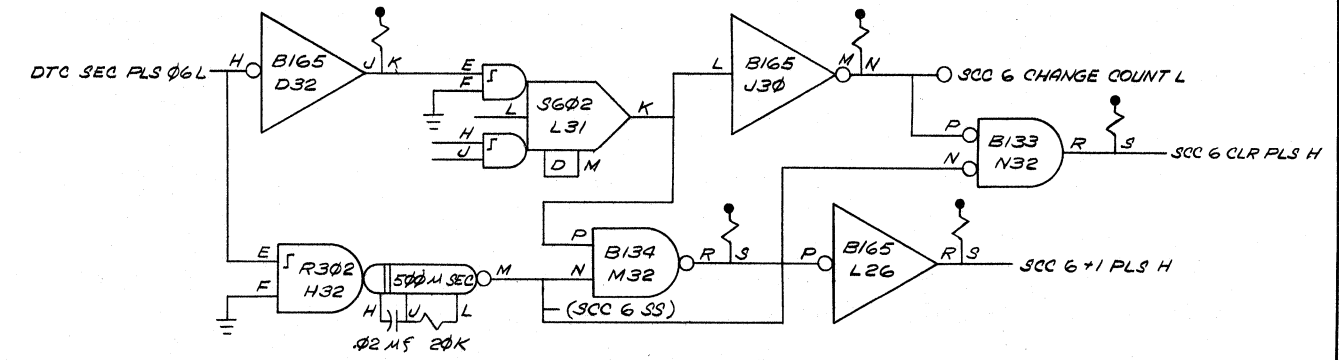
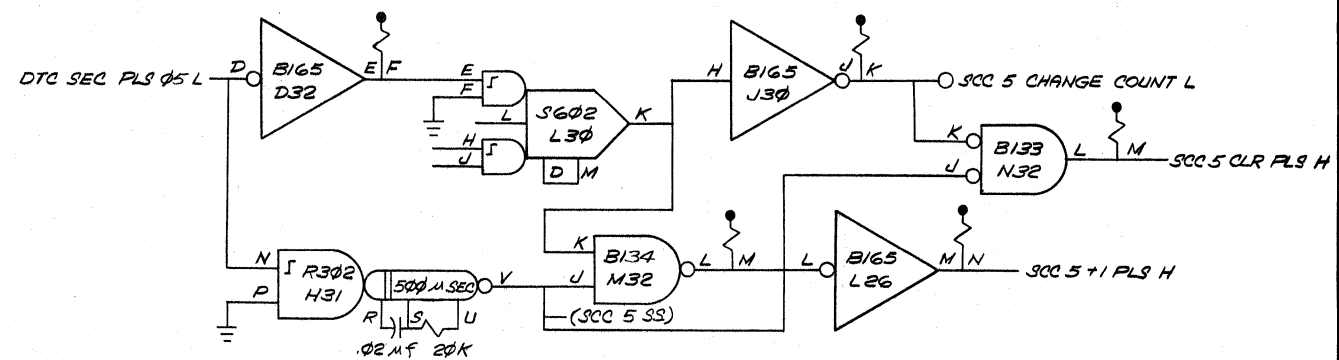
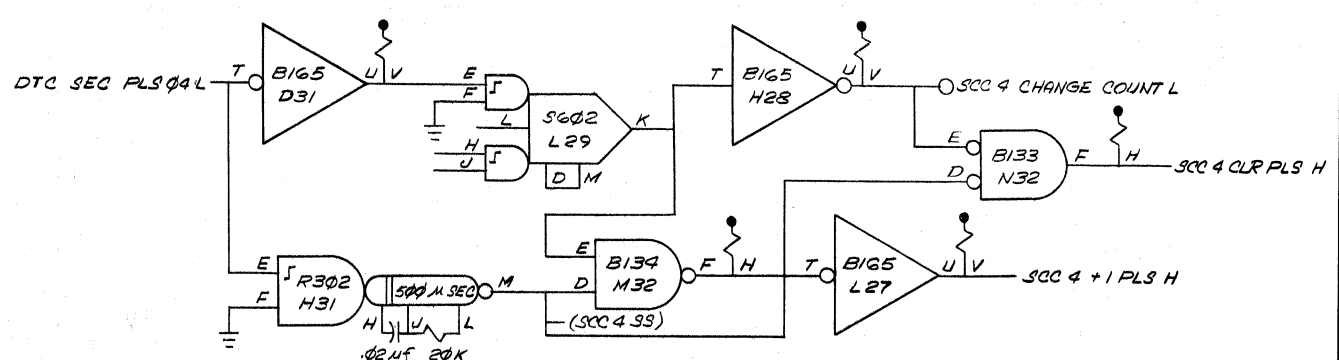
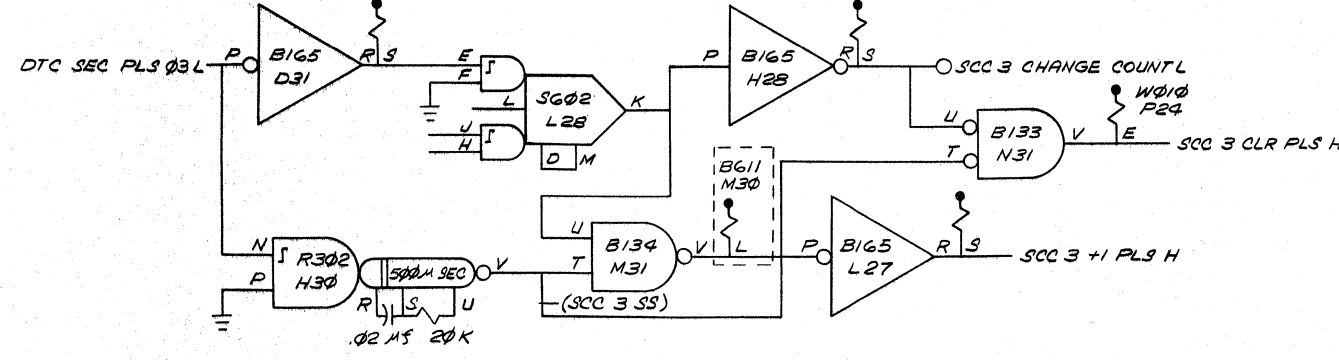
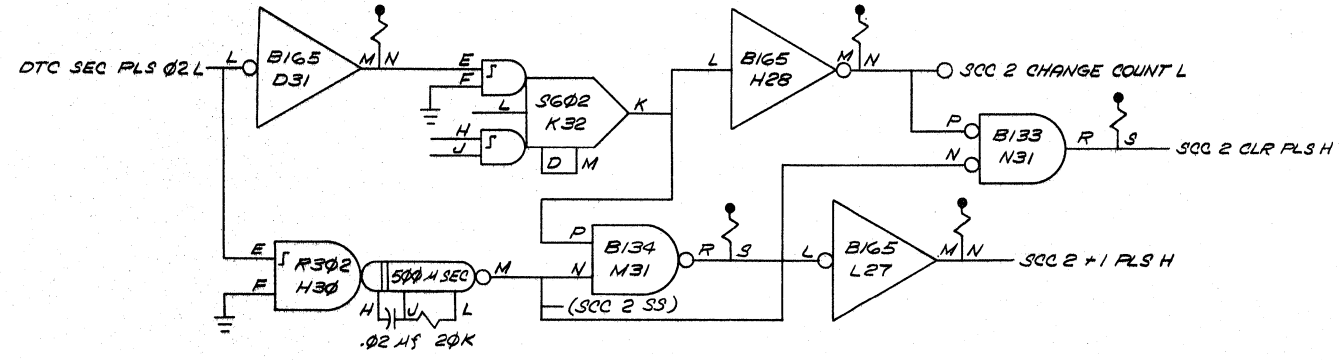
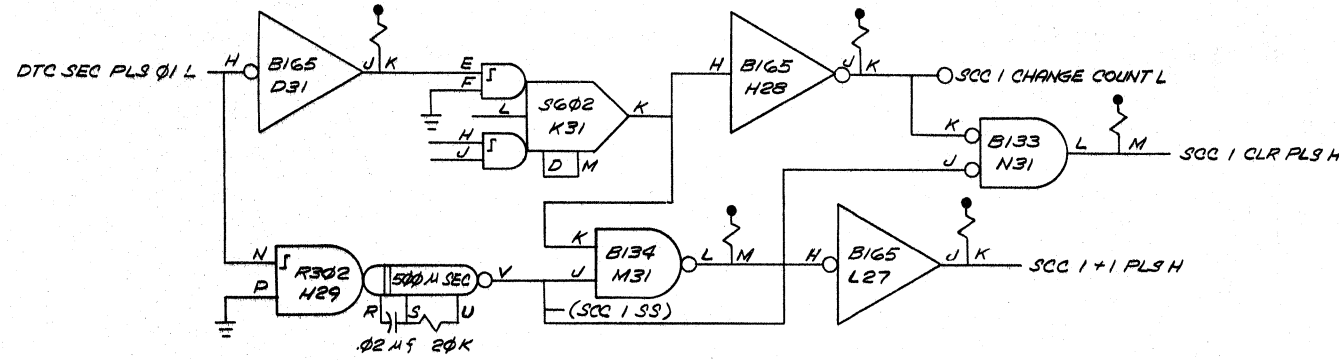
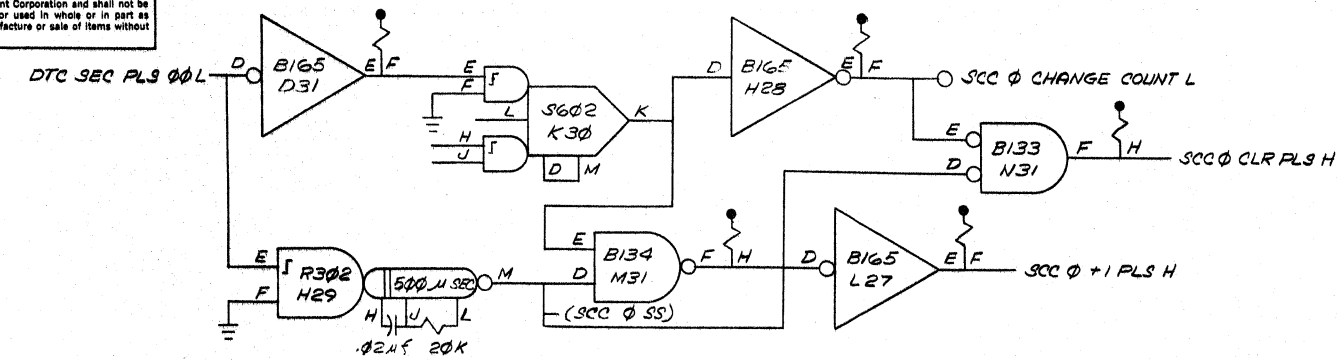
REV.	
CHG	
NO.	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP10				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE <h2 style="margin: 0;">SECTOR COUNTER</h2>	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE		
DIMENSION IN INCHES	ENG.	DATE		
TOLERANCES	PROJ. ENG.	DATE		
DECIMALS FRACTIONS ANGLES	PROD.	DATE		
± .005 ± 1/64 ± 0°30'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	NEXT HIGHER ASSY			
FINISH	A-ML-RPI0-0			
SCALE				
SHEET 1 OF 1				

DEC FORM NO. DRD 102A

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CCS-0-01DR SE 2
3003 3215



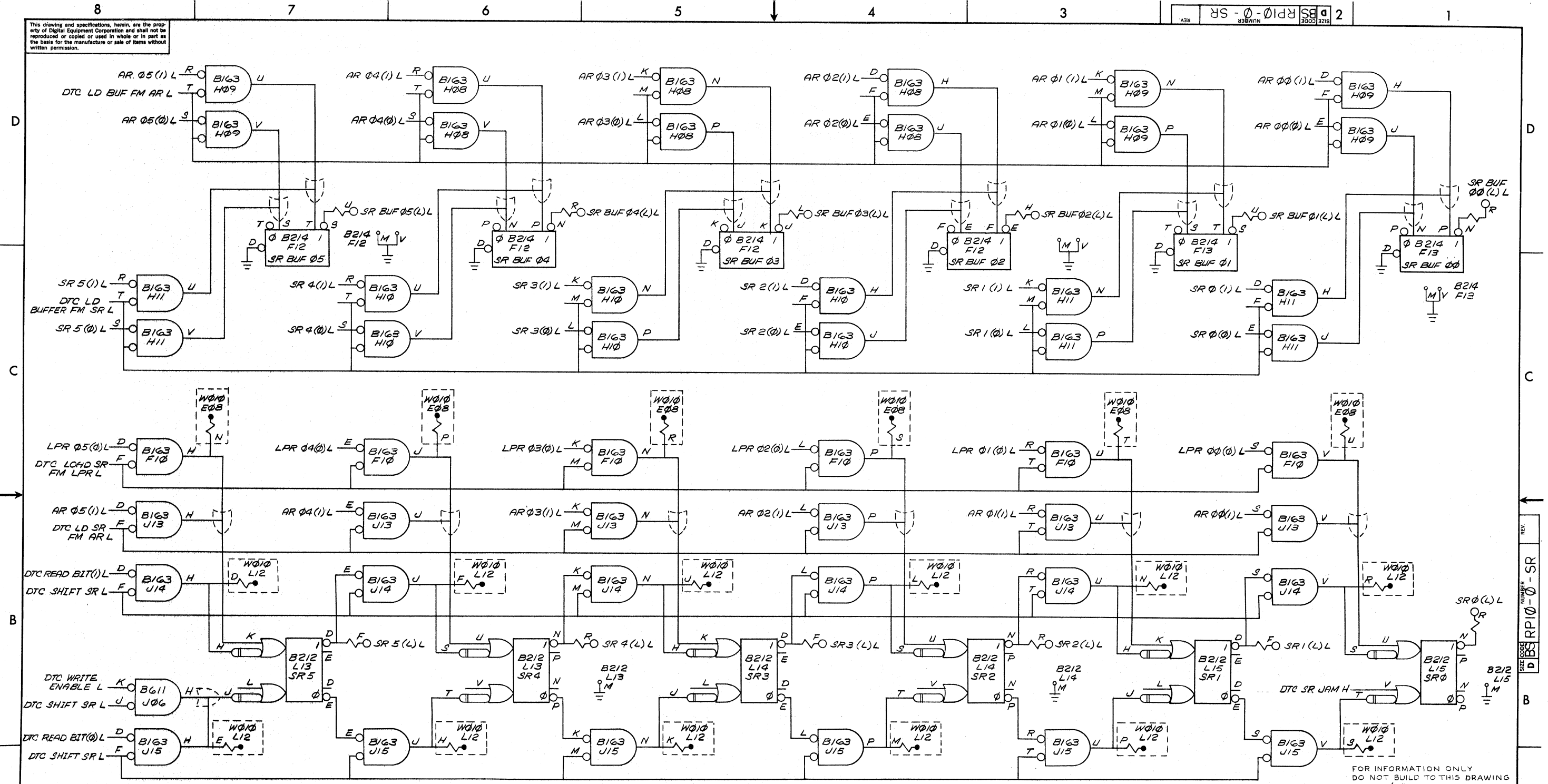
FOR INFORMATION ONLY
DO NOT BUILD TO THIS DRAWING
J.C. Egan

REV.	CHANGE NO.

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DRN C. J. Egan	DATE 4/15/69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
TOLERANCES		CHKD T. Dorigo	DATE 1/10/69	
DECIMALS ± .005	FRACTIONS ± 1/64	ENG. C. J. Egan	DATE 1/10/69	TITLE SECTOR COUNTER CONTROL PULSES
ANGLES ± 0°30'		PROJ. ENG. C. J. Egan	DATE 1/10/69	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		PROD. C. J. Egan	DATE 11-16-69	MATERIAL NEXT HIGHER ASSY A-ML-RP10-0
FINISH		SCALE SHEET 1 OF 1		
FIRST USED ON OPTION/MODEL PDP10		SIZE CODE D B S R P 1 0 - 0 - S C C		REV.

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REV. 2
SIZE CODE
D B S R P I 0 - 0 - S R



REV.	
CHG.	
NO.	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP10				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. <i>W. Stephenson</i>	DATE 12/15/60	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D <i>J. Longo</i>	DATE 11/NOV 69	TITLE SHIFT REGISTER	
TOLERANCES	ENG. <i>J. Longo</i>	DATE 11/NOV 69		
DECIMALS FRACTIONS ANGLES	PROJ. ENG. <i>J. Longo</i>	DATE 11/NOV 69		
± .005 ± 1/64 ± 0°30'	PROD. <i>U. McShane</i>	DATE 11-16-64		
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	NEXT HIGHER ASSY A-ML-RP10-0			
MATERIAL	SCALE	SIZE CODE NUMBER REV		
	SHEET 1 OF 1	D B S R P I 0 - 0 - S R		
		DIST.		

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6704 TERMINATORS

LOC	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V
C09	IOBD 27	IOBD 28	IOBD 29	IOBD 30	IOBD 31	IOBD 32	IOBD 33	IOBD 34	DSBC SEL INDEX L	IBC SET DAR ETC DLY L	DTC READ DATA (1) H		DTC RP Ø1	IBC LOCAL (Ø) H	GND
D05	IBC CLEAR ATTN H	WDC BIT SHFT ROT EØ Ø L		DTC READ IMAGE (Ø) H	DTC READ GAP (Ø) H	IBC POWER CLEAR L	DTC READ HEADER (1) H	DTC READ LPR (1) H	IBC CON SET H	DAR SEC ØØ (Ø) H	DAR SEC Ø1 (Ø) H	DAR SEC Ø2 (Ø) H	DAR SEC Ø3 (Ø) H	DTC WRITE LPR (1) H	
E28	DAR CYL 32 (Ø) H	DAR CYL 16 (Ø) H	DAR CYL Ø2 (Ø) H	DAR CYL Ø1 (Ø) H	CC ACTIVE (1) H	CC PREVENT TEST L	DTC READ ENABLE L	DTC WRITE HDR COM H	WDC CLEAR DATA WDC H		IBC CONCLR H	IBC SET DAR ETC B	DTC WRITE GAP (1) H	DTC READ HEADER (Ø) H	
K26	DAR CYL 128 (Ø) H	DAR CYL 64 (Ø) H	DAR CYL Ø8 (Ø) H	DAR CYL Ø4 (Ø) H	DTC READ DATA (Ø) H	DTC SEARCH (Ø) H	IBC DEVICE SELECTED H	IBC DEVICE SELECTED L	IBC POWER CLEAR H	DTC RESTORE H	DTC WRITE DATA (1) H	IBC LOAD TEST B L	IBC LOAD TEST A L		
K29	DAR DRIVE ØØ (Ø) H	DAR DRIVE Ø1 (Ø) H	DAR DRIVE Ø2 (Ø) H	CXR CHAN CONT PE (Ø) H	CXR DISK WD PE (Ø) H	DTC BUS LINE STROBE L	HCDE SEC DES ER (Ø) H	HCDE SURF DES ER (Ø) H	DTC ATTN ØØ (Ø) H	DTC ATTN Ø1 (Ø) H	DTC ATTN Ø2 (Ø) H	DTC ATTN Ø3 (Ø) H	DTC ATTN Ø4 (Ø) H	DTC ATTN Ø5 (Ø) H	
N19	DTC ATTN Ø6 (Ø) H	DTC ATTN Ø7 (Ø) H	DAR SEL DRIVE ØØ H	DAR SEL DRIVE Ø1 H	DAR SEL DRIVE Ø2 H	DAR SEL DRIVE Ø3 H	DAR SEL DRIVE Ø4 H	DAR SEL DRIVE Ø5 H	DAR SEL DRIVE Ø6 H	DAR SEL DRIVE Ø7 H	DTC PAR CONT (Ø) H	DTC PAR CONT (1) H	DTC PARITY (Ø) H	IBC LOCAL START H	
M11	CXR WRITE EVEN PAR (Ø) H		DTC WRITE DATA (Ø) H		IBC BUSY (1) H	IBC BUSY (Ø) H	CXR NON EX MEM (Ø) H	CXR OVERRUN (Ø) H	CXR PI ØØ (Ø) H	CXR PI Ø1 (Ø) H	CXR PI Ø2 (Ø) H	CXR SEARCH ER ØØ (Ø) H	CC ACTIVE (Ø) H		GND

670Ø TERMINATORS

LOC	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V
E1Ø		DTC WRITE CLOCK L	GND	JØØD	GND	DTC READ CLOCK DLY L	GND	DTC LD BUFFER FM SR L	GND	HØ4D	GND		DTC LDR FM AR L	GND	CC DATA STROBE B L
K13	DTC SHIFT BIT CNT L	DTC LD BUF FM AR L	GND	DTC LDR FM LPR L	GND	DTC CLOCK A PAR CONT L	GND	DTC SHIFT SR L	GND		GND	CC CHAN END L	K19D	GND	NØ1N
PØ8	CC TERMINATE L	CC INT DEV PLS L	GND	CC DATA STROBE A L	GND		GND	NØ1D	GND	CC CHAN START OUT L	GND			GND	
S27	S26N	S26D	GND	T3ØN	GND	T3ØD	GND	T27D	GND	S3ØD	GND	S3ØN	T27N	GND	RDS DATA IN L
S16	S15D	SCB FM SC REG JAM L	GND	IC CHAN BUSY IN L	GND		GND	CC SAWRITE OUT L	GND	CC CHANNEL BUSY OUT L	GND	IC SAWRITE IN L	IC CHANNEL START IN L	GND	

NOTE:
PIN "C" IS GROUNDED ON ALL 670Ø AND 6704 TERMINATOR MODULES.

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REVISIONS

CHK	CHANGE NO.	REV.
FV	RPIØ-00009	A
	GREEN	
	D.C. Jones	2/20/70
FV	RPIØ-00013	B
	J. GREEN	4-20-70
	D.C. Jones	5/4/70
	RPIØ-00016	C
	D.I.VES	5/1/70
	RPIØ-00017	D
	D.C. Jones	6/11/70
FV	RPIØ-00027	E
	D.I.VES	1/22/71

FIRST USED ON OPTION/MODEL PDP1Ø	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. <i>W. Thompson</i>	DATE 3/2/69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHKD. <i>George</i>	DATE 11/16/69	TITLE	
TOLERANCES	ENG. <i>John C. Jones</i>	DATE 11/16/69	PULSE & LEVEL TERMINATIONS	
DECIMALS FRACTIONS ANGLES	PROJ. ENG. <i>John C. Jones</i>	DATE 11/16/69	SIZE CODE NUMBER REV.	
± .005 ± 1/64 ± 0°30'	PROD. <i>J. McLean</i>	DATE 11/16/69	DCL RPIØ-Ø-TERM E	
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS	MATERIAL	NEXT HIGHER ASSY	SCALE	
	A-ML-RPIØ-Ø		SHEET 1 OF 1	
			DIST.	

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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION DATE 10/22/70

TITLE DISK PACK DRIVE SYSTEM MANUFACTURING TEST PROCEDURES AND SPECIFICATIONS

REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	CHANGE PER ECO	00034	B. WALSH	10/71	B. Walsh	11/24/71
B	CHANGE PER ECO	00037	B. WALSH	2/72	B. Walsh	3/9/72

ENG	D. Ives	APPD	<i>David Ives</i>	SIZE	A	CODE	SP	NUMBER	RP10-O-MTP	REV	B
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ENGINEERING SPECIFICATION CONTINUATION SHEET

TITLE DISK PACK DRIVE SYSTEM MANUFACTURING TEST PROCEDURES AND SPECIFICATIONS

A. Diagnostic and Reliability Testing

Requirements: RP10, RP02's and/or RP03's DF10, KA10 with 16 k of memory minimum and RP02P's.

1. Run the diagnostics MAINDEC-10-DCRPA and MAINDEC-10-DCRPB, making at least one pass per drive. No errors are acceptable. All eight (8) ports on the RP10 should be tested, even though the system is comprised of less than eight drives.
2. Load the Reliability Test MAINDEC-10-DCRPC
 - a. Type in a listing of all flagged tracks on the packs to be used.
 - b. Format the disk pack on each of the drives, using the program FORMAT. The program should run to completion without any header verify errors.
 - c. Run C TEST (compatibility) to verify that all surfaces of each pack which have been written by each drive are capable of being read by every other drive in the system.
 - d. Run MANUAL to insure that all drive switch functions are operating properly.
 - e. Run a system reliability test, using ACCEPT or the following sequence.

```

DDT END/0           EX ATEST
DDT END+1/0         EX BTEST      DDTEND+10/0  JRST.-4
DDT END+2/0         EX MTEST
DDT END+3/0         EX PTEST
DDT END+4/0         EX FRTEST
DDT END+5/0         EX OTEST
DDT END+6/0         EX RTEST
DDT END+7/0         EX DTEST
DDT END+8/0         EX RTEST
DDTEND+9/0          EX PNTOT
    
```

This test should be run for a sufficient amount of time to allow each drive to transfer a minimum of 1×10^{10} bits READ.

SIZE	A	CODE	SP	NUMBER	RP10-O-MTP	REV	B
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ENGINEERING SPECIFICATION

010101

CONTINUATION SHEET

TITLE DISK PACK DRIVE SYSTEM MANUFACTURING TEST PROCEDURES AND SPECIFICATIONS

RP10 MANUFACTURING TEST MARGINS

MOUNTING PANEL	+10V		-15V	
	LOW	HIGH	LOW	HIGH
A	2.5	17.5	-18	-12
B	2.5	17.5	-18	-12
C	2.5	17.5	-18	-12
D	2.5	17.5	-18	-12
E	2.5	17.5	-18	-12
F	2.5	17.5	-18	-12
H	2.5	17.5	-18	-12
J	*6	17.5	-18	-12
K	2.5	17.5	-18	-12
L	2.5	17.5	-18	-12
M	*6	17.5	-18	-12
N	**6.5	14	-18	-12
P	**6.5	14	-18	-12
R	**6.5	14	-18	-12
S	***7.5	15	-18	-12
T	***7.5	15	-18	-12

* B685 Limits +10V margins of this panel

** W591 and W692 Limits +10V margins of this panel

*** B410 Limits +10V margins of this panel

SIZE A CODE SP NUMBER RP10-0-MTP REV B

ENGINEERING SPECIFICATION

010101

CONTINUATION SHEET

TITLE DISK PACK DRIVE SYSTEM MANUFACTURING TEST PROCEDURES AND SPECIFICATIONS

DF10 MANUFACTURING TEST MARGINS

Mounting Panel	+10V		-15V	
	Low	High	Low	High
A	2.5	17.5	-18	-12
B	2.5	17.5	-18	-12
*** C	3.0	17.5	-18	-12
* D	3.5	17.5	-18	-12
E	2.5	17.5	-18	-12
** F	6.0	17.5	-18	-12
** H	6.0	17.5	-18	-12
J	2.5	17.5	-18	-12
K	2.5	17.5	-18	-12
L	2.5	17.5	-18	-12

* The B130 modules limit the +10V margins of panel D.

** The B685 modules limit the +10V margins of panels F and H.

*** The R303 module for NON-EXMEM limits +10V margins for this panel.

SIZE A CODE SP NUMBER RP10-0-MTP REV B

ENGINEERING SPECIFICATION



CONTINUATION SHEET

TITLE RP10 CONTROLLER AND RP02, RP03 DISK PACK DRIVE MANUFACTURING TEST PROCEDURE

At this point, SEARCH COMPLETE should be setting reliably. Position the drive to several other cylinders and try to read other surfaces and sectors.

Check the timing of these delays:

DTC5 SRCH COMP STRB 600 ns ± 20%

H27M 600 ns ± 20%

DTC7 SECTOR DLY 10µsec ± 20%

To read data properly, the following signals must also work properly:

DTC7 READ GAP Flop

DTC7 READ DATA Flop

DTC2 SHIFT AR A, B, C

WDC WORD COUNT EQ 00

DTC7 READ LPR Flop

- Position the drive to cylinder 0. Set up the maintenance panel to have the drive write data on CYLINDER 0, SURFACE 0, SECTOR 0. Move the drive's READ-WRITE/READ ONLY switch to the READ-WRITE position. Press CLEAR, STOP, START. NOTE: Several cylinders of headers will probably be destroyed before the write data command works. If one is destroyed, move to another one. Check the timing of these delays:

F11M 20 µsec ± 20%

F31M 3 µsec ± 20%

Verify proper operation of these additional signals:

DTC7 WRITE GAP Flop

DTC7 WRITE DATA Flop

DTC6 CLOCK 0, 1 Flops

SIZE	CODE	NUMBER	REV
A	SP	RP10-0-CDPD	A

ENGINEERING SPECIFICATION



CONTINUATION SHEET

TITLE RP10 CONTROLLER AND RP02, RP03 DISK PACK DRIVE MANUFACTURING TEST PROCEDURE

DTC6 WRITE CLOCK

DTC6 CLOCK A~ PAR CONT

DTC3 SET ERASE

DTC3 ERASE BUFFER Flop

DTC2 LD SR FM LPR

DTC2 LD SR FM AR

DTC6 WRITE CLOCK Flop

DTC6 CRYSTAL CLOCK

- If the controller is an RP10-C, setup the maintenance panel to do a read verify operation (OPCODE 2) and verify for proper operation, the same signals as in step 6 of this specification and in addition verify the following:

DSBC BUS 256 L

Check the delay at A23V to be 8.5 µs ±20%

SIZE	CODE	NUMBER	REV
A	SP	RP10-0-CDPD	A

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 10/16/70

TITLE RP10 CONTROLLER AND RP02 RP03 DISK PACK DRIVE MANUFACTURING TEST PROCEDURE

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	CHANGE PER ECO	00034	B. WALSH	10/71	B. Walsh	11/24/71

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ENGINEERING SPECIFICATION



CONTINUATION SHEET

TITLE RP10 CONTROLLER AND RP02, RP03 DISK PACK DRIVE MANUFACTURING TEST PROCEDURE

A. OFFLINE TEST

REQUIREMENTS: RP10, RP02, or RP03, RP02P, Tektronix 453 oscilloscope or equivalent.

1. Check voltages at several places on all mounting panels. Connect RP02/3 Unit Bus Cable to Drive 0 connector. Connect RP02/3 Signal Bus Connector. Jumper W990's on DTC6 and HCDE as required. If a mixed system of RP02/3's the RP03's must be the first units on the signal bus.
2. Check DTC4 TEST CLOCK frequency (30kc-375kc). Set up delay line F04V=1.5µsec (DTC4). Set up the following delays to the values specified:

F32M 88 µsec
 F32V 44 µsec
 J09M 350 µsec
 S17V See note on DTC6
 H25M 500 nsec.

3. Set up the maintenance panel to recalibrate the drive. Press, in sequence, CLEAR, STOP, START. Verify that CLEAR clears all lights except GEN CLR, SHIFT REGISTER, and BUFFER. Verify proper operation of the following signals:

IBC POWER CLEAR
 IBC LOCAL START
 IBC INITIAL CLEAR, A, B, C
 IBC SET DAR ETC A, B
 IBC SET DAR ETC DLY
 IBC LOAD TEST A, B, C
 DTC1 RESTORE
 DTC3 BUS LINE STROBE
 DTC3 TAG LINE STROBE
 DSBC UB 6

ENG	David C. Ives	APPD	David C Ives	SIZE	A	CODE	SP	NUMBER	RP10-0-CDPD	REV	A
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SIZE	CODE	NUMBER	REV
A	SP	RP10-0-CDPD	A

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE RP10 CONTROLLER AND RP02, RP03 DISK PACK DRIVE MANUFACTURING TEST PROCEDURE

TEST 2

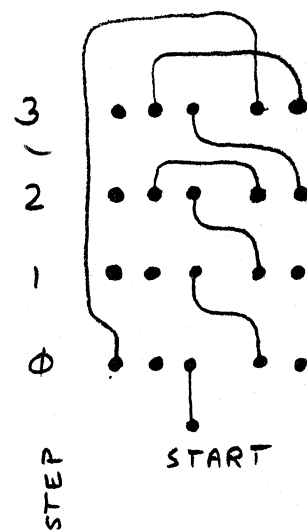
This test checks the PI lines.

It should loop if successful, or get stuck on 2 or 3 if there are problems.

Change the right half of the command in step:

<u>0</u>	<u>2</u>	<u>3</u>
to 006	002	175
005	004	173
004	010	167
003	020	157
002	040	137
001	100	077
000	000	177

AND REPEAT



CLEAR OP CODE		DEVICE SEL			DATA SWITCHES					
ONE BIT	OCTAL	OCTAL	OCTAL	OCTAL	OCTAL	OCTAL	OCTAL	OCTAL	OCTAL	OCTAL
0	1	2	5	0	0	0	0	1	7	6
0	1	2	5	0	0	0	0	0	0	1
0	2	2	5	0	0	0	0	2	0	0
1	5	2	5	0	0	0	0	0	0	7

SIZE **A** CODE SP NUMBER RP10-0-CDPD REV A

ENGINEERING SPECIFICATION

digital

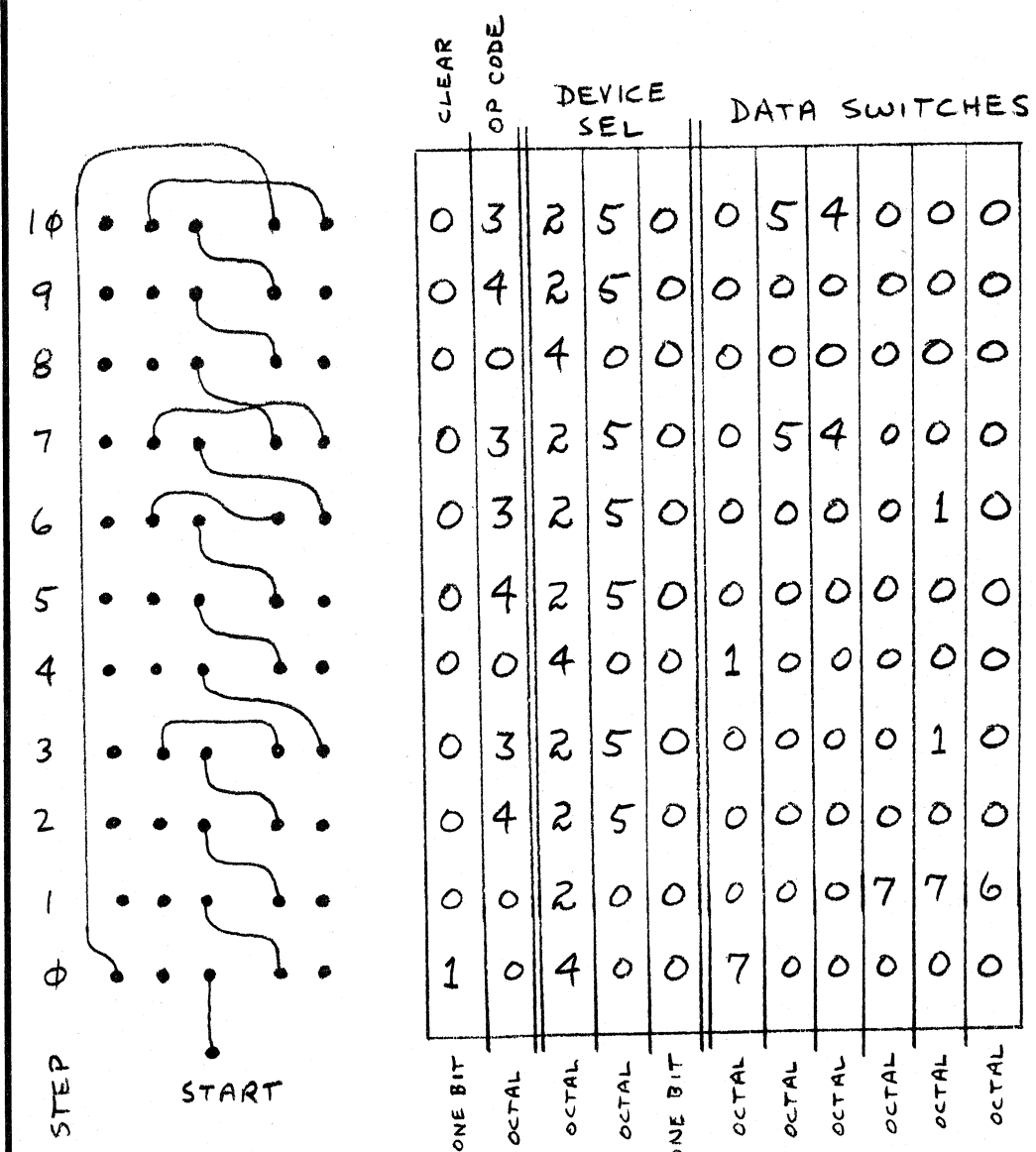
CONTINUATION SHEET

TITLE RP10 CONTROLLER AND RP02, RP03 DISK PACK DRIVE MANUFACTURING TEST PROCEDURE

TEST 3

This test will check the channel interface and several status bits.

It will halt on error or will loop if there is no error.



SIZE **A** CODE SP NUMBER RP10-0-CDPD REV A

TITLE RP10/RP02/ RP03 ACCEPTANCE CHECK LIST

FIELD SERVICE REP. RESPONSIBLE _____

INITIAL

- 1. Run DCRPA pass per drive _____
- 2. Run DCRPB pass per drive _____
- 3. Run FORMAT _____
- 4. Run CTEST _____
- 5. Run MANUAL _____
- 6. RP10
 - a. Vibration (AIR) run DCRPA _____
 - b. Vibration (MODULES & CAB.) run DCRPB _____
 - c. Do RP10 Local Mode Switch check _____
 - d. Check all RP10 ports _____
 - e. Margins _____
DCRPA
- 7. DF10
 - a. Vibration (AIR) run DCRPB _____
 - b. Vibration (MODULES & CAB.) DCRPB _____
 - c. Do DF10 Local Mode Switch check _____
 - d. Margins _____
DCRPB
- 8. Run Reliability Test DCRPC using EX ACCEPT or the following tests.

DDTEND/0 EX ATEST	DDTEND+9/0 EX PNTOT
DDTEND+1/0 EX BTEST	DDTEND+10/0 EX JRST. -4
DDTEND+2/0 EX MTEST	
DDTEND+3/0 EX PTEST	
DDTEND+4/0 EX FRTTEST	
DDTEND+5/0 EX OTEST	
DDTEND+6/0 EX RTEST	
DDTEND+7/0 EX DTEST	
DDTEND+8/0 EX RTEST	
- a. Read Error Rate _____
- b. Write Error Rate _____
- c. Positioner Seek Error Rate _____
- 9. Run PTIME (Send to Customer) Abbr. Version _____

TITLE RP02 DISK PACK DRIVE MANUFACTURING TEST PROCEDURE

b. Program the sequence:

↑ Z
 EP 0 312
 EP 312 0
 EO 0 312
 EZ 0 312
 ED 0 312
 EM 0 312
 EN 0 312
 ↑ C

Total running time is about 3 hours.

c. The positioner test should produce seek times which are less than or equal to:

HIGH	LOW	AVERAGE
RP02-AS/BS 60ms	10ms	32ms
RP02-A/B 80ms	20ms	50ms

- d. If more than one random data error occurs during one pass of this program, there is a strong possibility of a pack, head, or preamplifier problem in the drive. A longer run is suggested to establish an error pattern (same surface, etc.) if one exists.
- e. If the drive successfully passes the data transfer testing in par. b, the following test should be run for a minimum of 12 hours to verify the overall reliability of the drive.

↑ Z
 EN 0 312
 ↑ C

No positioning errors and no more than 1 random data error should occur during each 2 hours of running time.

SIZE	CODE	NUMBER	REV
A	SP	RP10-0-DPD	B

TITLE RP02 DISK PACK DRIVE MANUFACTURING TEST PROCEDURE

APPENDIX I

1. Formatting a pack

The 8I tester program AUTOCAT-8I-CW5A-D will operate only with a specially formatted pack. The format program (F) should be run with location 7047 set to 4000. To format a pack for PDP-9, PDP-10, or PDP-15 operation, set location 7047 to 0001. Normal acceptance procedure on the RP10 controller will initially format all packs so this should not cause any inconvenience. Also, a special pack should be set aside for tester use only.

2. Testing the BAI 086A interface

The interface can be tested with BAI diagnostic BAI086-3C. To run this diagnostic, pin B22 A1 should be connected to A26 N2. For running any DEC programs, pin B22 A1 should be connected to B19 U1.

3. RP01/RP02 operation with BAI interface

For RP01 operation, the switch on card A2 should be in the 630 position and the 630 VFO should be plugged in the proper slot. (See BAI prints and technical description). For RP02 operation, the switch should be in the 660 position and the 660 VFO should be plugged in.

For both the RP01 and RP02 the on-off switch above the 630/660 switch on the A2 card should be off, signifying no automatic parity insertion.

SIZE	CODE	NUMBER	REV
A	SP	RP10-0-DPD	B

S
SP
A
SIZE
CO