

**RF11/RS11
DECdisk system
engineering drawings**

RF11/RS11 DECdisk System

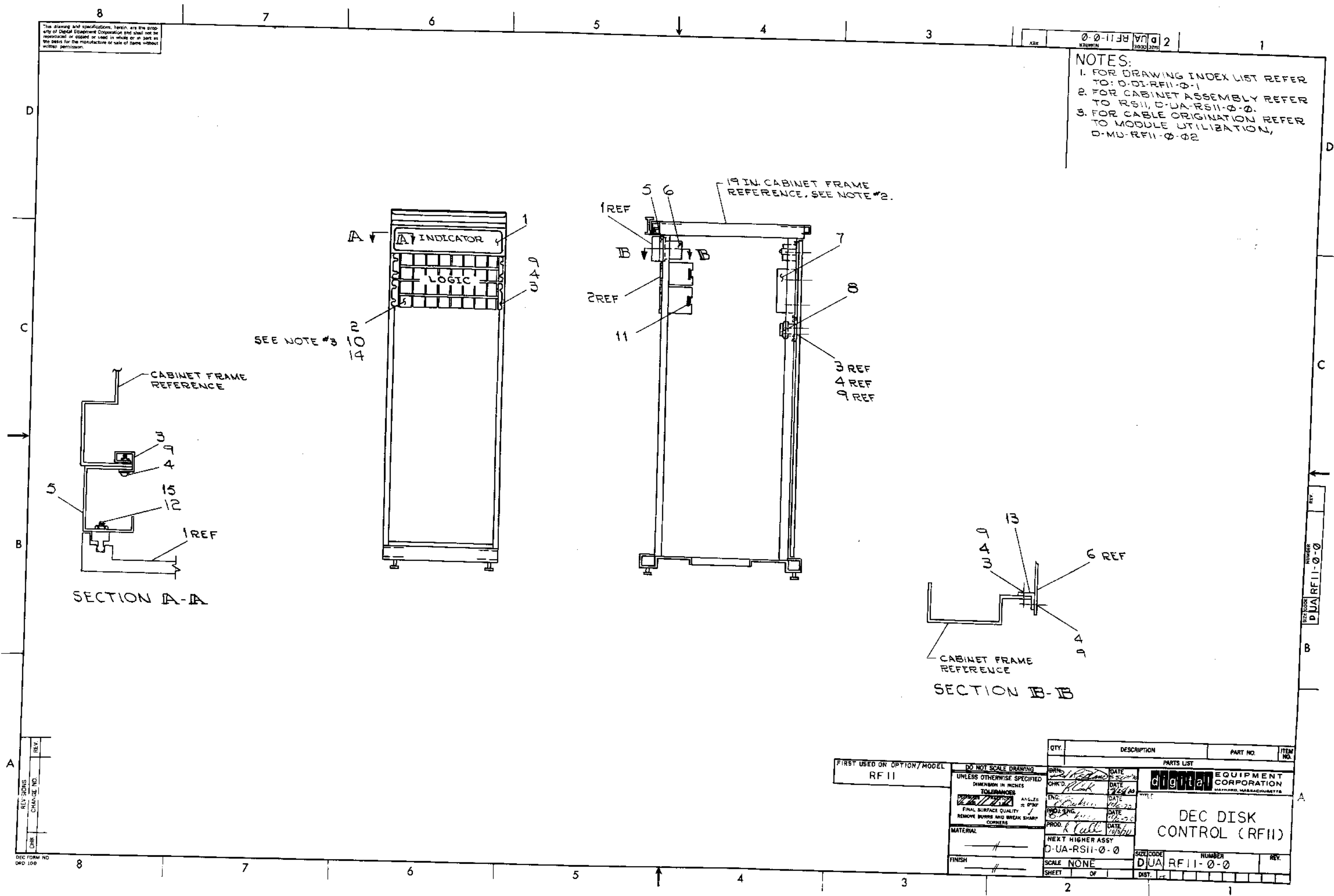
Engineering Drawings

Drawing No.	Title	Drawing No.	Title	Drawing No.	Title
D-UA-RF11-0-0	DEC Disk Control (RF11)	D-AD-7007039-0-0	Wired Assembly	D-TD-RF11-0-30	Address Timing
A-PL-RF11-0-0	DEC Disk Control (RF11)	A-PL-7007039-0-0	Wired Assembly (Parts List)	D-TD-RF11-0-31	Write Mode
		A-SP-RF11-0-38	RF11/RS11 Calibration Procedure	D-TD-RF11-0-32	Read Mode
D-DI-RF11-0-01	Drawing Index List (RF11)	A-AL-RF11-0-36	Accessory List	D-TD-RF11-0-33	Write Check Mode
		A-SL-RF11-0-37	Software List		
D-MU-RF11-0-02	Module Utilization	D-UA-RS11-0-0	262K 16 Bit DEC Disk (RS11)	D-UA-RS08-M-0	Disk Assy 60 Hz
A-PL-RF11-0-02	Module Utilization	A-PL-RS11-0-0	262K 16 Bit DEC Disk (RS11)	A-PL-RS08-M-0	Disk Assy 60 Hz
				D-DI-RS08-M-1	Drawing Index list RS08-M
D-BS-RF11-0-03	NPR Control	D-DI-RS11-0-1	Drawing Index List (RS11-0)	C-CS-G740-0-0	Disk Selection
D-BS-RF11-0-04	Interrupt Control	A-ML-RS09-0	262K 18 Bit DEC Disk (RS09) 60 Hz	B-CS-H726-E-2	RF11 Power Supply
D-BS-RF11-0-05	Unibus Receivers and Drivers	D-UA-RS09-0-0	262K 18 Bit DEC Disk	B-SP-H726-E-3	RF11 Power Supply
D-BS-RF11-0-06	Output Gating	A-PL-RS09-0-0	262K 18 Bit DEC Disk (Parts List)	C-CS-M105-0-0	Address Selector
D-BS-RF11-0-07	Register Selection	D-DI-RS09-0-8	Drawing Index List RS09-0	D-CS-M795-0-0	WC & CMA Module
D-BS-RF11-0-08	Current Memory Addr Register (CMA)	D-BS-RS09-0-1	Control 1	D-CS-M796-0-0	Unibus Master Control
D-BS-RF11-0-09	Word Count Register (WC)	D-BS-RS09-0-2	Track Select Matrix 0	D-CS-M797-0-0	Register Select
D-BS-RF11-0-10	Att Error Detection & Regen	D-BS-RS09-0-3	Track Select Matrix 1	C-CS-M798-0-0	Unibus Driver
D-BS-RF11-0-11	RF11 Control	D-BS-RS09-0-4	Control Unit Connectors	D-CS-M7820-0-0	Interrupt Control
D-BS-RF11-0-12	Disk Control & Status Register	D-BS-RS09-0-5	Control 2	D-CS-M7821-0-0	Interrupt Control
D-BS-RF11-0-13	Disk Addr Ext & Error Register (DAE)	K-WL-RS09-0-6	Cards	D-UA-705-B-0	705-B Power Supply
D-BS-RF11-0-14	Disk Address Register (DAR)	D-MU-RS09-0-9	Module Utilization	A-PL-705-B-0	705-B Power Supply
D-BS-RF11-0-15	Disk Segment	A-PL-RS09-0-9	Module Utilization (Parts List)	C-CS-705-B-1	705-B Power Supply
D-BS-RF11-0-16	Comparator	D-IC-RS09-0-7	Loc Chart-Track, Head, Cable	D-UA-716-0-0	Indicator Power Supply
D-BS-RF11-0-17	Disk Selection	A-WL-RS09-0-10	Special Hand Wrap	A-PL-716-0-0	Indicator Power Supply
D-BS-RF11-0-18	Disk Data Buffer Register (DBR)	C-WD-RS09-0-11	Hand Wrap Routing	C-CS-716-0-1	Circuit Schematic
D-BS-RF11-0-19	Disk Timing Control			D-UA-855-0-0	Line Filter and Pwr Cont
D-BS-RF11-0-20	Shift Register	A-ML-RS09-P	Chassis Assy with Logic (RS09)	C-CS-855-0-1	Circuit Schematic
D-BS-RF11-0-21	Maintenance Register (MAR)	A-ML-RS08-M	Disk Assy 60 Hz	A-PI-3700004-0-0	MR14 Memory and G924 Module
D-BS-RF11-0-22	RF11-RS11 Interface			A-PI-3700006-0-0	Cab Mounted RS08M Packaging Instructions
D-BS-RF11-0-24	ADS Register	D-IC-RF11-0-26	Indicator Cable	D-CS-5408458-0-1	Indicator Panel Circuit Schematic
		D-IC-RF11-0-27	Pwr Wiring (RF11)	C-AD-7005745-0-0	Head Shoe Assy
D-IC-RF11-0-23	RF11-RS11 Cable Interface	D-AR-RF11-0-28	RF11/RS11 Arrangement	D-AD-7006156-0-1	Chassis Assy w/o Logic
D-IC-RF11-0-25	Bus Cable Interface	K-WL-RF11-0-29	Wirelist	D-CS-7006156-0-1	Power Control and Motor Control
				E-AD-7006255-0-0	Blower Filter Assy (RS09)
				A-PL-7006255-0-0	Blower Filter Assy (RS09)
				D-AD-7006331-0-0	Indicator Panel Assy RF09
				C-PL-7006331-0-0	Indicator Panel Assy RF09

The drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part as the basis for the manufacture or sale of items without written permission.

0-0-1131 2

- NOTES:
1. FOR DRAWING INDEX LIST REFER TO: D-DI-RF11-0-1
 2. FOR CABINET ASSEMBLY REFER TO RS11, D-UA-RS11-0-0.
 3. FOR CABLE ORIENTATION REFER TO MODULE UTILIZATION, D-MU-RF11-0-02



SEE NOTE #3

19 IN. CABINET FRAME REFERENCE. SEE NOTE #2.

CABINET FRAME REFERENCE

CABINET FRAME REFERENCE

SECTION A-A

SECTION B-B

REV	
REV. NO.	
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL
RF11

DO NOT SCALE DRAWING		DATE	2/20/70
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		CHK'D	W. Clark
TOLERANCES		DATE	2/24/70
PERF. PRECISION	ANGLES IN DEGS	ENG.	W. Clark
FINAL SURFACE QUALITY	REMOVE BURRS AND BREAK SHARP CORNERS	DATE	2/20/70
MATERIAL		PROD. ENG.	W. Clark
		DATE	2/20/70
NEXT HIGHER ASSY			
D-UA-RS11-0-0			
FINISH		SCALE	NONE
		SHEET	OF

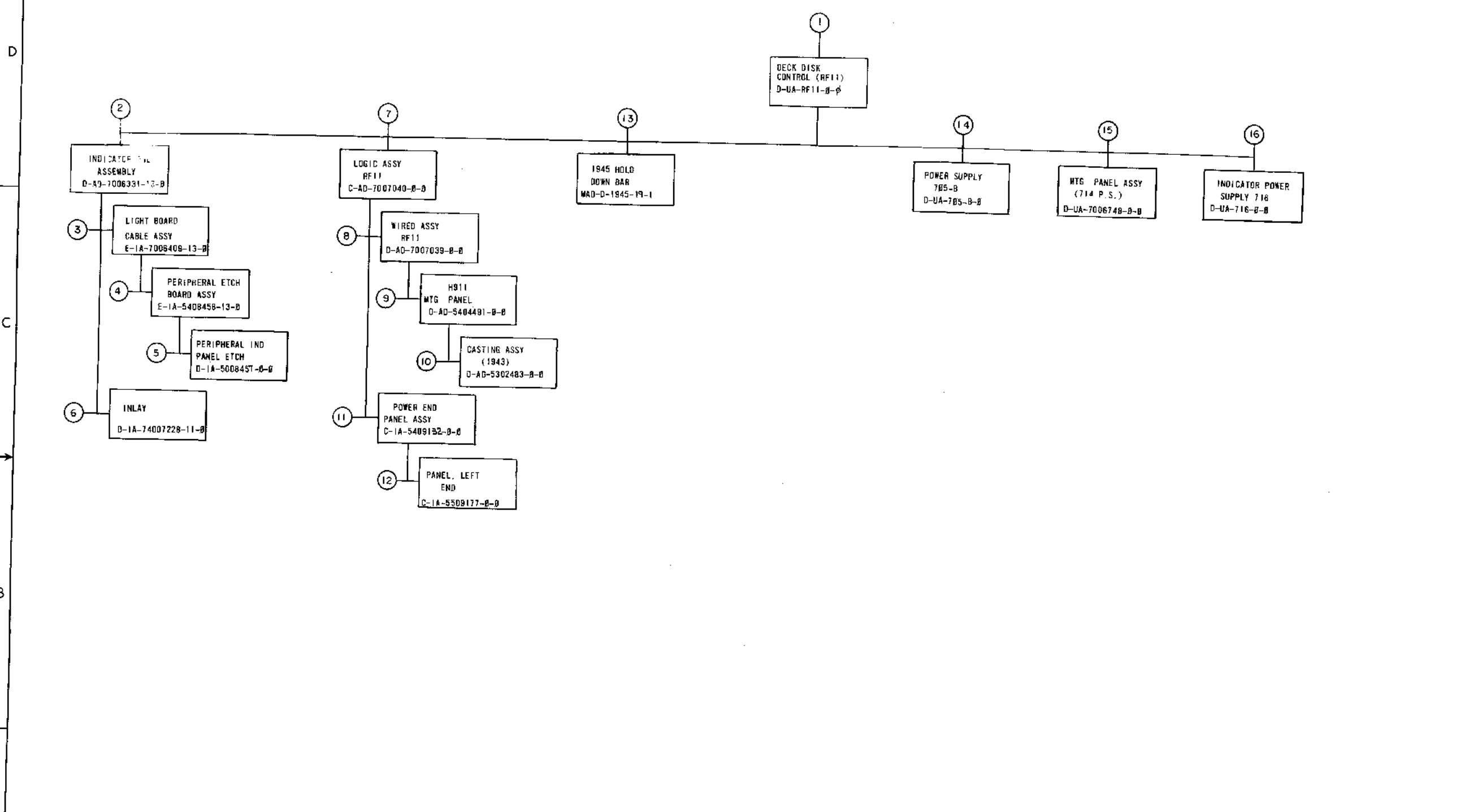
QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DEC DISK CONTROL (RF11)			
SIZE CODE		NUMBER	
DUA RF11-0-0		REV.	

REV. NO. 0
DUA RF11-0-0

B

A

Copyright © 1964 by Digital Equipment Corporation and shall not be reproduced or copied in whole or in part as the basis for the manufacture in whole or in part without written permission.



REV. NO.	CHG. NO.	REV.
1	1	A
2	2	B
3	3	C
4	4	D
5	5	E
6	6	F
7	7	G
8	8	H
9	9	I
10	10	J
11	11	K
12	12	L
13	13	M
14	14	N
15	15	O
16	16	P
17	17	Q
18	18	R
19	19	S
20	20	T
21	21	U
22	22	V
23	23	W
24	24	X
25	25	Y
26	26	Z

FIRST USED ON OPTION/MODEL RF 11		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES ±.005 ±.004 ±.020 FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		DRG. DATE 1/25/64 CHK'D. DATE 1/29/64 ENG. DATE 1/25/64 PROD. DATE 1/25/64		QTY. DESCRIPTION PART NO. ITEM NO. PARTS LIST digital EQUIPMENT CORPORATION MAYFIELD, MASSACHUSETTS	
MATERIAL		NEXT HIGHER ASSY A-ML-RF11-0		SCALE		DRAWING INDEX LIST (RF11)	
FINISH		SHEET OF 2		SIZE/CODE D/DI RF11-0-1		NUMBER D	

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY G. GIANOULIS
DATE 7/15/70
ENG G. Gianoulis
DATE 9/2/70
CHECKED *[Signature]*
DATE 8/12/70
PRB *[Signature]*
DATE 9/17/70
SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
	M105	ADDRESS SELECTOR	
	M106	DOT NOR GATE	1
	M111	INVERTER	1
	M112	NOR GATE	2
	M113	10-2 INPUT NAND GATES	3
	M115	8-3 INPUT NAND GATES	16
	M117	6-4 INPUT NAND GATES	4
	M119	3-8 INPUT NAND GATES	3
	M121	AND/NOR GATES	2
	M149	9 X 2 NAND WIRED OR MATRIX	3
	M161	BINARY TO OCTAL/DECIMAL DECODER	4
	M204	COUNTER-BUFFER	1
	M205	5 "D" FLIP FLOPS	1
	M207	FLIP-FLOP	6
	M216	SIX FLIP-FLOPS	1
	M304	ONE SHOT DELAY	18
	M306	INTEGRATING ONE-SHOT	3
	M311	TAF DELAY	3
	M305	NEG INPUT CONVERTER	2
	M604	PULSE GENERATOR	2
	M627	POWER AMPLIFIER	1
	M632	POSITIVE INPUT CONV. DRIVER	5
			3

TITLE
MODULE UTILIZATION (RF11)
ASSY NO. D-MU-RF11-0-02
SIZE CODE A PL
NUMBER RF11-0-02
REV. ECO NO. B
RF11 00008

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

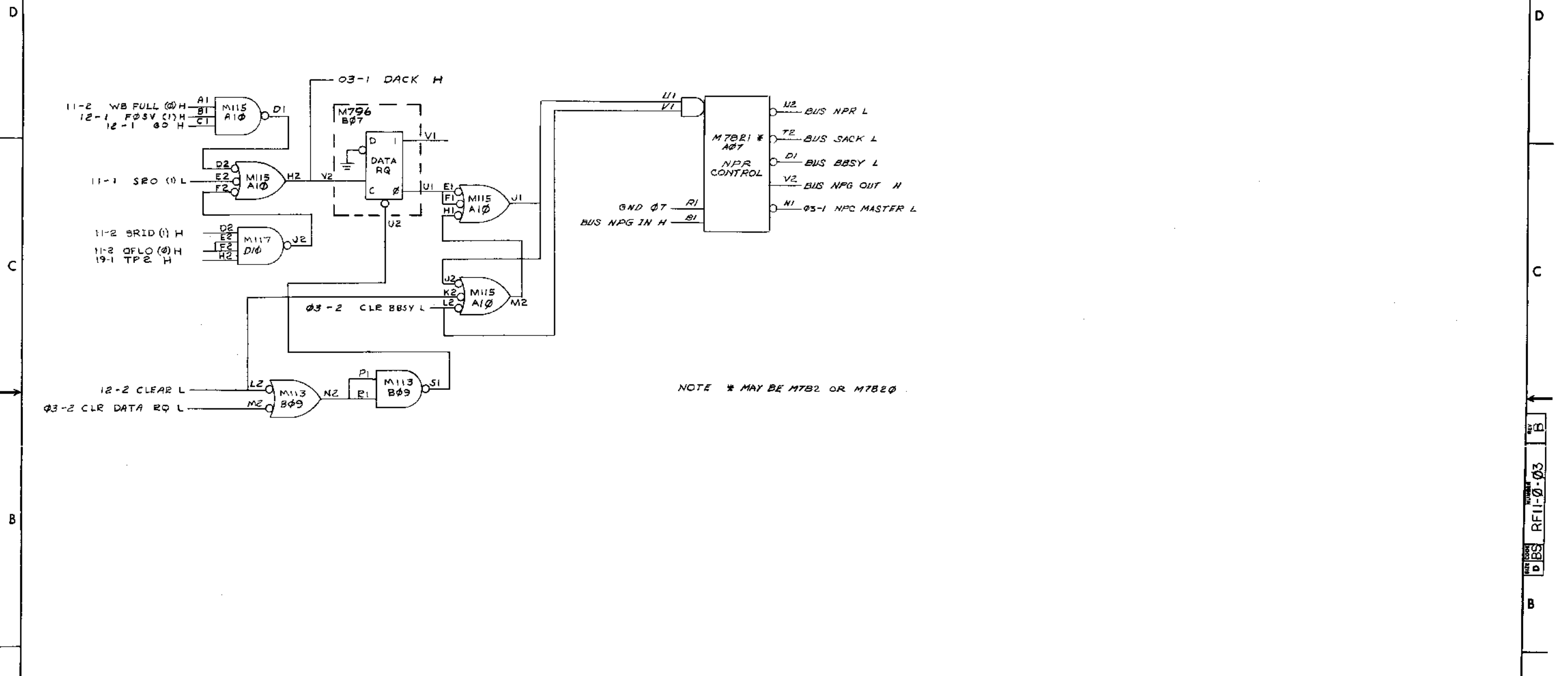
PARTS LIST

MADE BY G. GIANOULIS
DATE 7/15/70
ENG G. Gianoulis
DATE 9/2/70
CHECKED *[Signature]*
DATE 8/12/70
PRB *[Signature]*
DATE 9/18/70
SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
	M7821	INTERRUPT CONTROL	1
	M783	UNIBUS DRIVERS	1
	M784	UNIBUS RECEIVERS	2
	M795	WC AND CMA	1
	M796	UNIBUS MASTER CONTROL	1
	M797	REGISTER SELECT	1
	M798	UNIBUS DRIVER	1
	G723	NEGATIVE BUS TERMINATOR	3
	G711	TERMINATOR BOARD	2
	G740	DISK SELECTION	1
	G736	PRIORITY SELECTION	1
	6916	POWER DETECTOR	1

TITLE
MODULE UTILIZATION (RF11)
ASSY NO. D-MU-RF11-0-02
SIZE CODE A PL
NUMBER RF11-0-02
REV. ECO NO. B
RF11 00008

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture of any item without written permission.



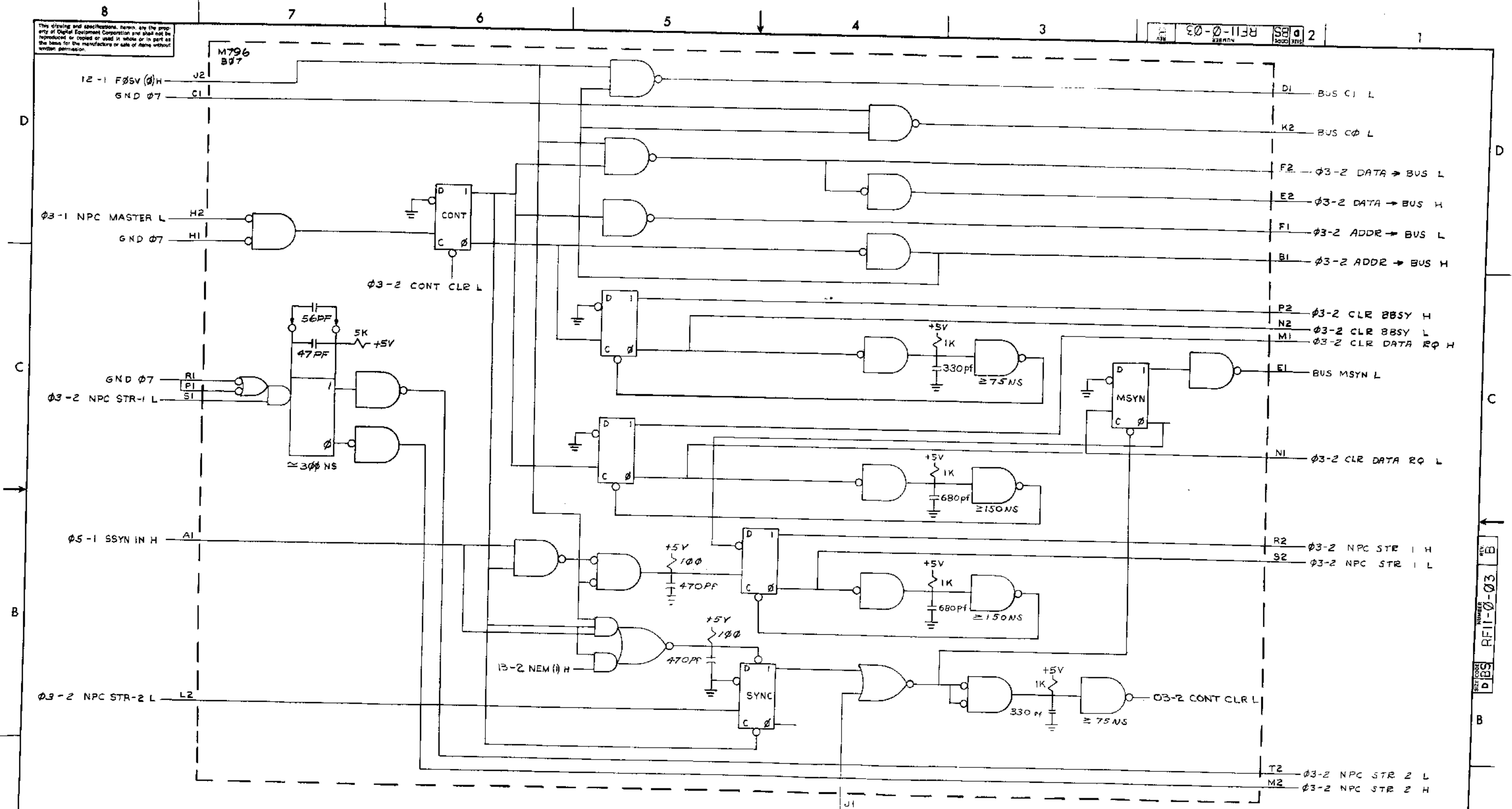
NOTE * MAY BE M7B2 OR M7B20

REV	CHANGE NO.	DATE	BY	CHKD
A	0004	1-4-71	E. ERIKSON	
B	0005	1-15-71	E. ERIKSON	
	0006	7-5-72	JENKINS	
	0007	7-13-72	JENKINS	

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RFII				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES		DATE	PARTS LIST	
TOLERANCES		DATE	digital EQUIPMENT CORPORATION	
DECIMALS FRACTIONS ANGLES		DATE	MAYFIELD MASSACHUSETTS	
= .009 > .125 & 0.375		DATE	TITLE	
FINAL SURFACE QUALITY		DATE	NPR CONTROL	
REMOVE BURRS AND BREAK SHARP CORNERS		DATE		
MATERIAL				
NEXT HIGHER ASSY.				
A-ML-RFII-0				
FINISH				
SCALE NONE				
SHEET OF 2				
SIZE CODE		NUMBER		REV
DBS		RFII-0-03		B

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part as the basis for the manufacture or sale of items without written permission.

REFII-0-03 2



REV	
NO.	
CHG	
CHK	

DWG FORM NO. DDD 102A

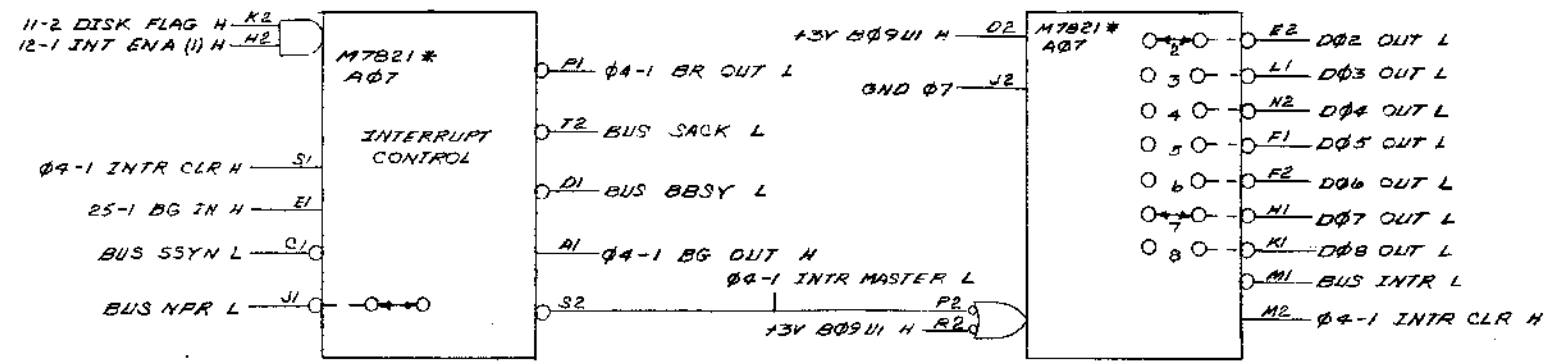
REV	DESCRIPTION	PART NO.	ITEM NO.
1	digital EQUIPMENT CORPORATION		
NPR CONTROL			
MATERIAL		NEXT HIGHER ASSY.	
FINISH		SCALE NONE	
FIRST USED ON DPT/NO. REFII		SHEET 2 OF 2	
UNLESS OTHERWISE SPECIFIED		DIMENSION IN INCHES	
TOLERANCES		± .005 ± .004 ± .030	
FINAL SURFACE QUALITY		REMOVE BURRS AND BREAK SHARP CORNERS	
DATE 5-10-70		DATE 7-3-70	
DATE 8/3-70		DATE 9/5-70	
DATE 12/1/70		DATE	
SCALE NONE		SIZE CODE DBS	
NUMBER REFII-0-03		REV B	

REFII-0-03

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part or the parts for the manufacture or sale of items without written permission.

NOTE:
 JUMPER ARRANGMENT FOR
 M7B2/M7B20 IS EXACTLY OPPOSITE
 AS THAT SHOWN FOR M7B21.
 *MAY BE M7B2 OR M7B20

204
 INTR VECTOR = 000204

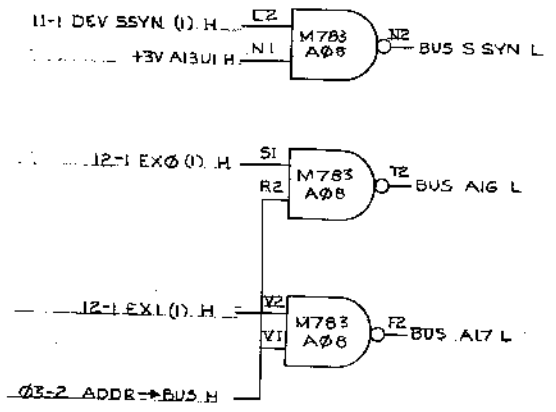


FIRST USED ON OPT/NOO	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED				
DRW: <i>R. P. Smith</i>	DATE: 5-14-70	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
CHKD: <i>M. Maden</i>	DATE: 7-31-70			
APPD: <i>B. Eubank</i>	DATE: 9-18-70			
PRD: <i>W. Call</i>	DATE: 9-18-70			
MATERIAL		TITLE		
NEXT HIGHER ASSY.		INTERRUPT CONTROL		
FINISH		SCALE NONE		
SHEET		DIST.		
A-ML-RF11-0		SIZE/COOD	NUMBER	REV
		DBS	RF11-0-04	B

REVISIONS	CHANGE NO.	REV.
CHK	RF11-0005	A
ERIKSEN JENKINS 7-13-72		

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

DBS RFI1-0-05 2



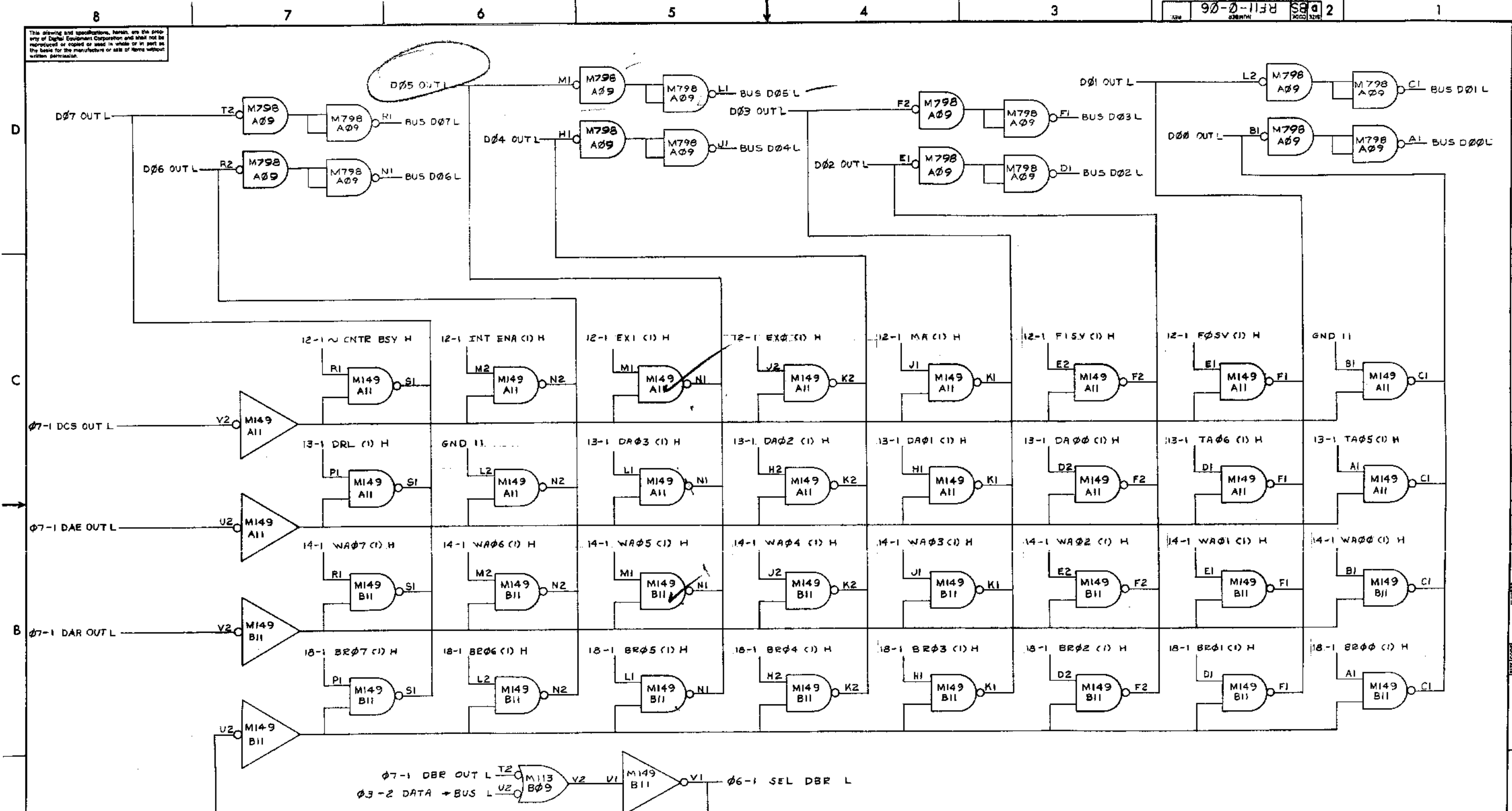
REV. NO.	REV.
CHANGE NO.	
CHK	

DBS RFI1-0-05

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RFI1				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION	
DIMENSION IN INCHES	5-15-70		MAYFORD MASSACHUSETTS	
TOLERANCES	DATE			
DECIMALS FRACTIONS ANGLES	7-24-70			
± .005 ± .004 ± .075	DATE			
FINAL SURFACE QUALITY	7-20			
REMOVE BURRS AND BREAK SHARP CORNERS	DATE			
	7-20			
MATERIAL	PROD.	DATE	UNIBUS RECEIVERS AND DRIVERS	
—//—	W. Call	8/20		
NEXT HIGHER ASSY.				
A-ML-RFI1-0				
FINISH	SCALE	NONE	SIZE/CODE	NUMBER
—//—			DBS	RFI1-0-05
SHEET	OF		DIST.	
1	1			

DEC FORM NO. 1024

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part as the basis for the manufacture or sale of items without written permission.



REV.	CHG.	NO.

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DATE			
UNLESS OTHERWISE SPECIFIED	DATE			
TOLERANCES	DATE			
DECIMALS FRACTIONS ANGLES	DATE			
± .005 ± 1/64 ± .030	DATE			
FINAL SURFACE QUALITY	DATE			
REMOVE BURRS AND BREAK SHARP CORNERS	DATE			
MATERIAL				
FINISH				

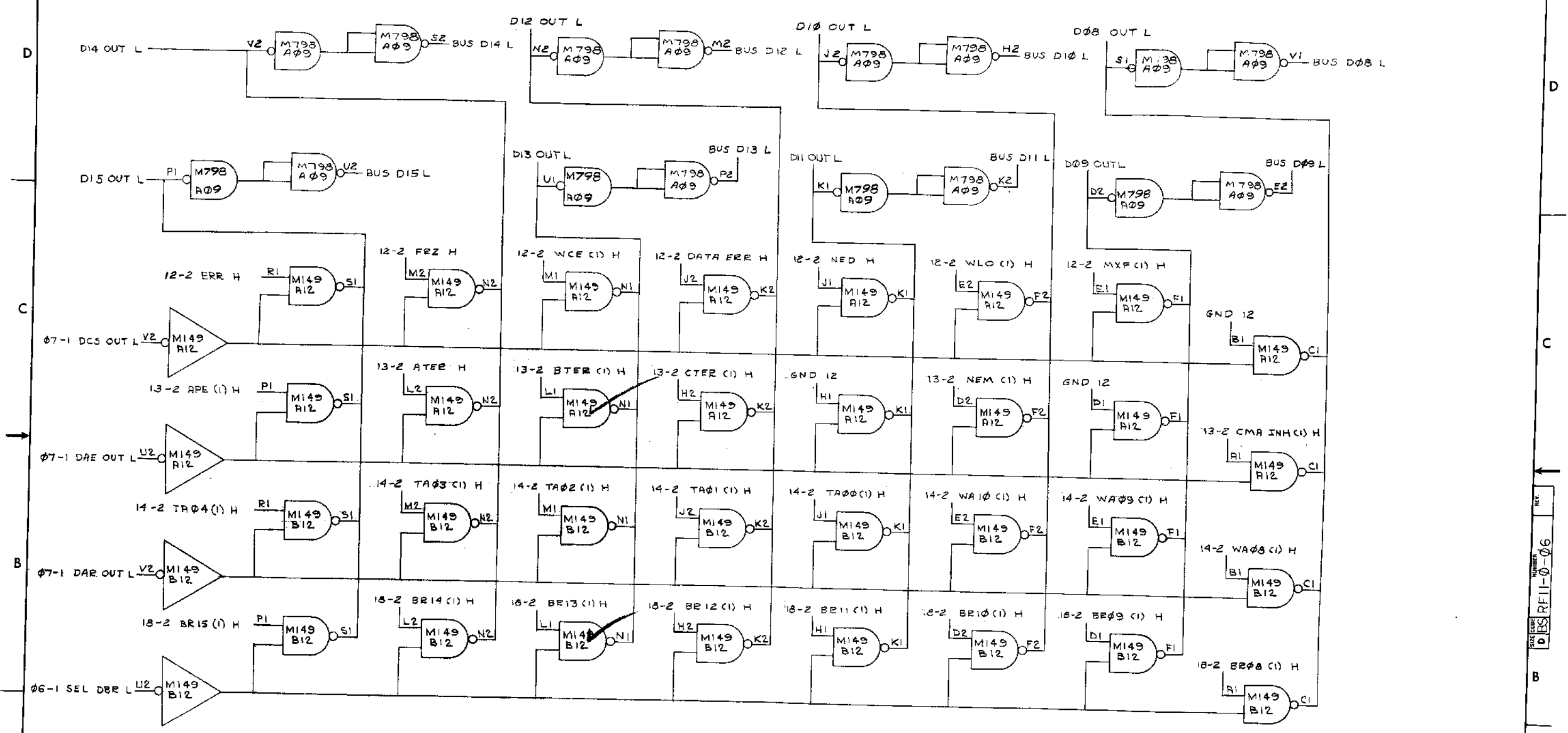
digital EQUIPMENT CORPORATION
WATYARD MASSACHUSETTS

OUTPUT GATING

SIZE CODE NUMBER REV
DBS RF11-0-06

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

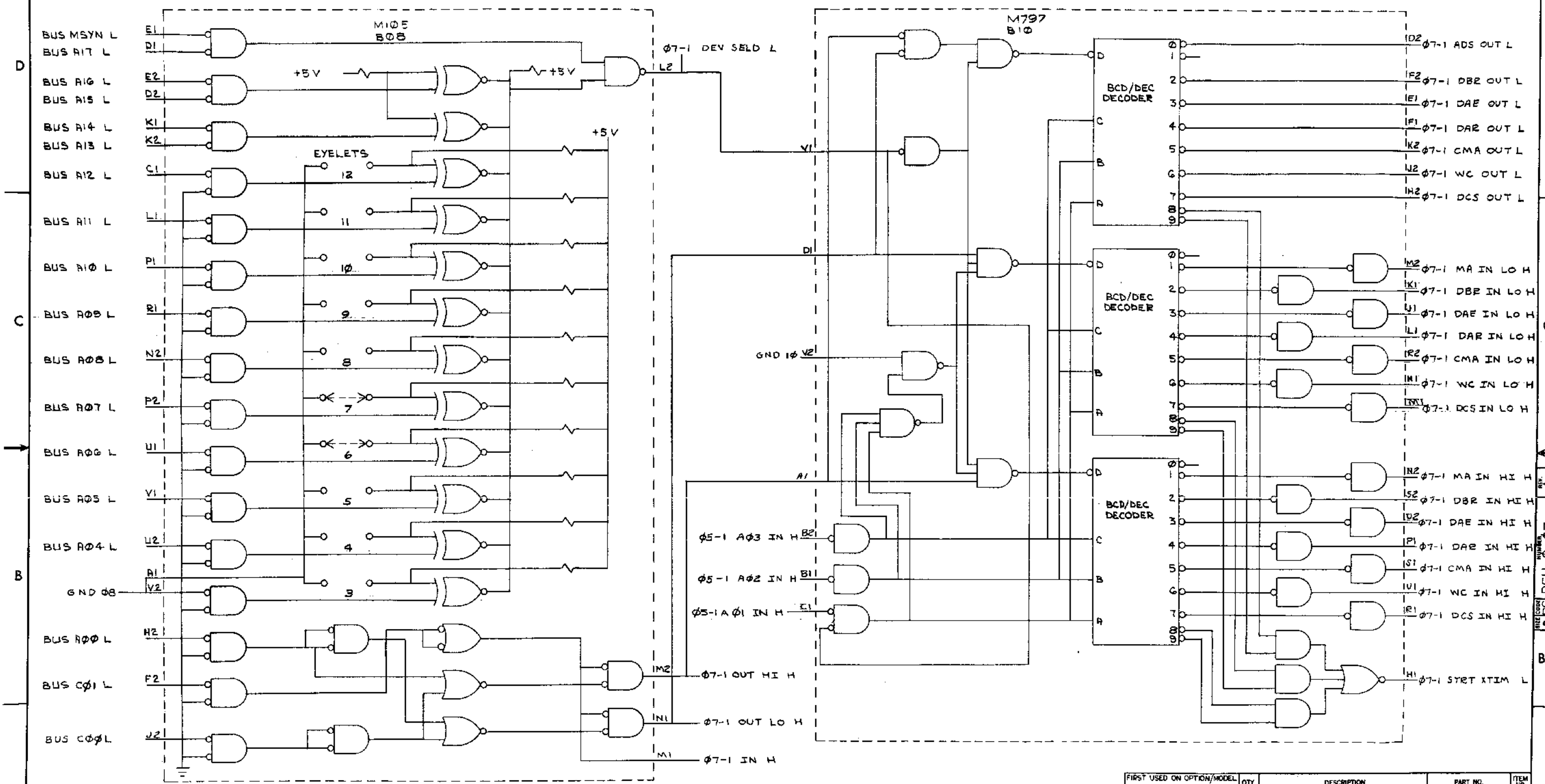
90-0-111-RF11-06 2



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

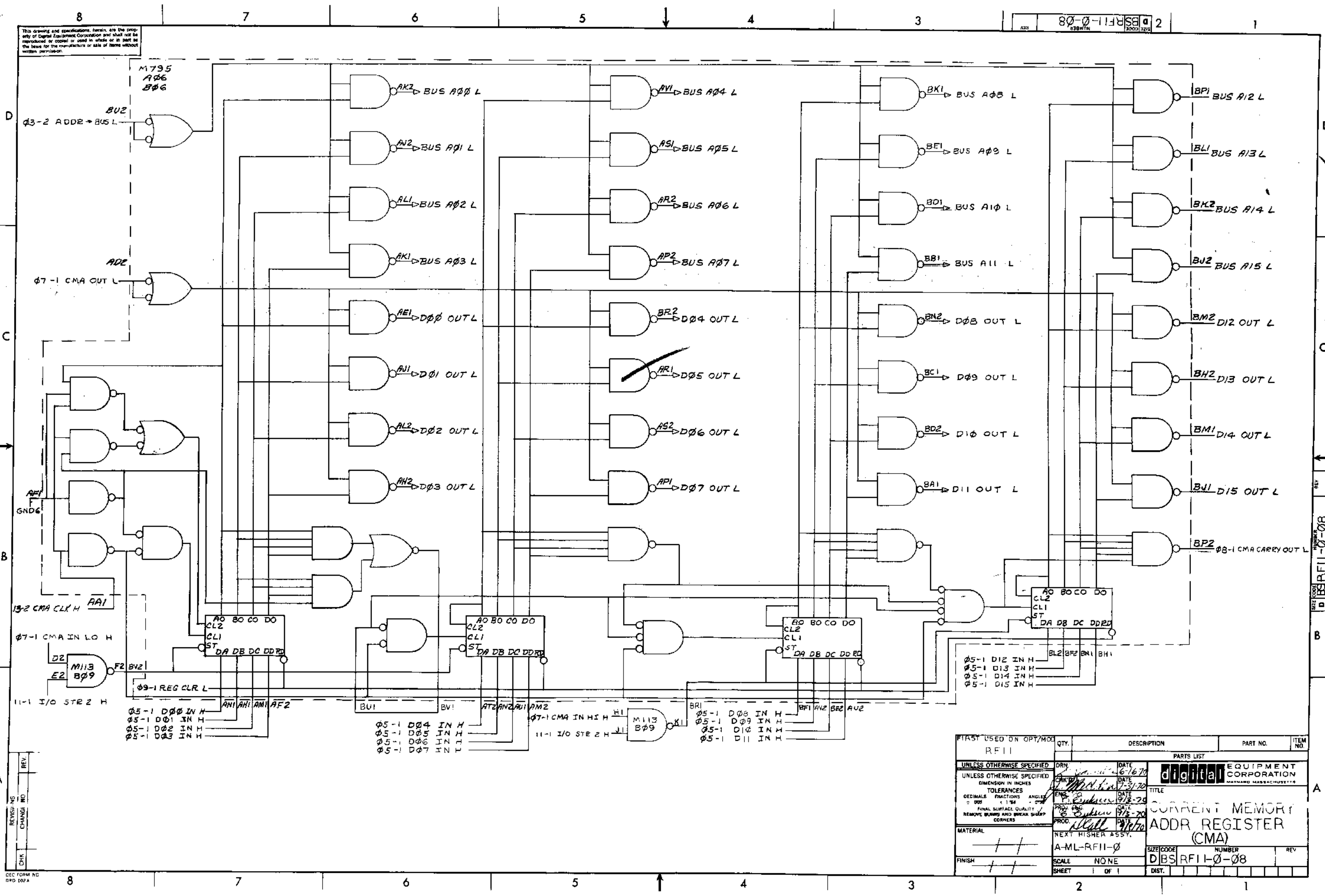
FIRST USED ON OPTION/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED				
DRAWN	EX-D Read	DATE	19MAY70	
CHECKED	W. J. M. /	DATE	7-31-70	
DESIGNED	B. B. /	DATE	6-17-70	
PROD.	W. J. M. /	DATE	9-15-70	
MATERIAL				
NEXT HIGHER ASSY				
A-ML-RF11-0				
FINISH				
SCALE NONE				
SHEET 2 OF 2				
PARTS LIST				
digital EQUIPMENT CORPORATION				
WATUARD, MASSACHUSETTS				
OUTPUT GATING				
SIZE/CODE				
D B S R F 1 1 - 0 - 0 6				
NUMBER				
REL.				
DIST.				

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



REV.	CHG.	NO.	DATE	BY
A		00005	3/17/70	ERIKSEN
				E. Eriksen

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED				
DIM.		DATE	PARTS LIST	
UNLESS OTHERWISE SPECIFIED		2-2 1970	digital EQUIPMENT CORPORATION	
DIMENSION IN INCHES		DATE	MAYNARD, MASSACHUSETTS	
TOLERANCES		2-3-70	TITLE	
DECIMALS	FRACTIONS	DATE	REGISTER SELECTION	
± .005	± 1/64	9/3-70		
FITAL SURFACE QUALITY		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS		9/3-70		
MATERIAL		DATE		
NEXT HIGHER ASSEMBLY		DATE		
A-ML-RF11-0		9/3-70		
FINISH		DATE		
SCALE NONE		DATE		
SHEET 1 OF 1		DATE		
DIST.		DATE		



This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

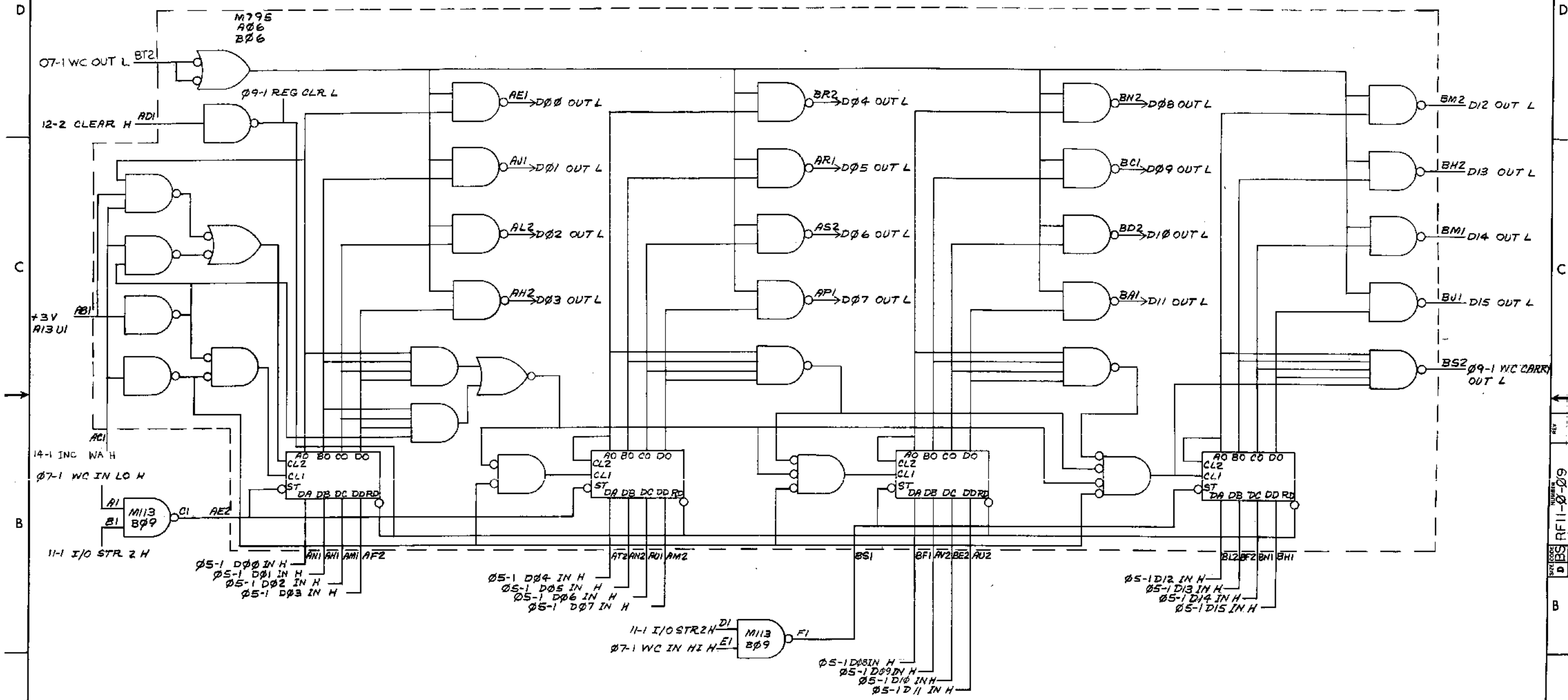
80-0-11-RS-2

REV.	CHG.	NO.

DEC FORM NO. 002 1074

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED				
DRN	DATE	6-16-70	PARTS LIST	
CHKD	DATE	7-31-70	digital EQUIPMENT CORPORATION	
ENG	DATE	9-2-70	MAYNARD MASSACHUSETTS	
PRD	DATE	9-15-70	TITLE	
PROC	DATE	9-16-70	CURRENT MEMORY ADDR REGISTER (CMA)	
MATERIAL				
NEXT HIGHER ASSY.				
FINISH				
SCALE NONE			SIZE CODE	NUMBER
SHEET 1 OF 1			DBSRF11-0-08	REV

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or used in whole or in part as the basis for the manufacture or sale of items without written permission.

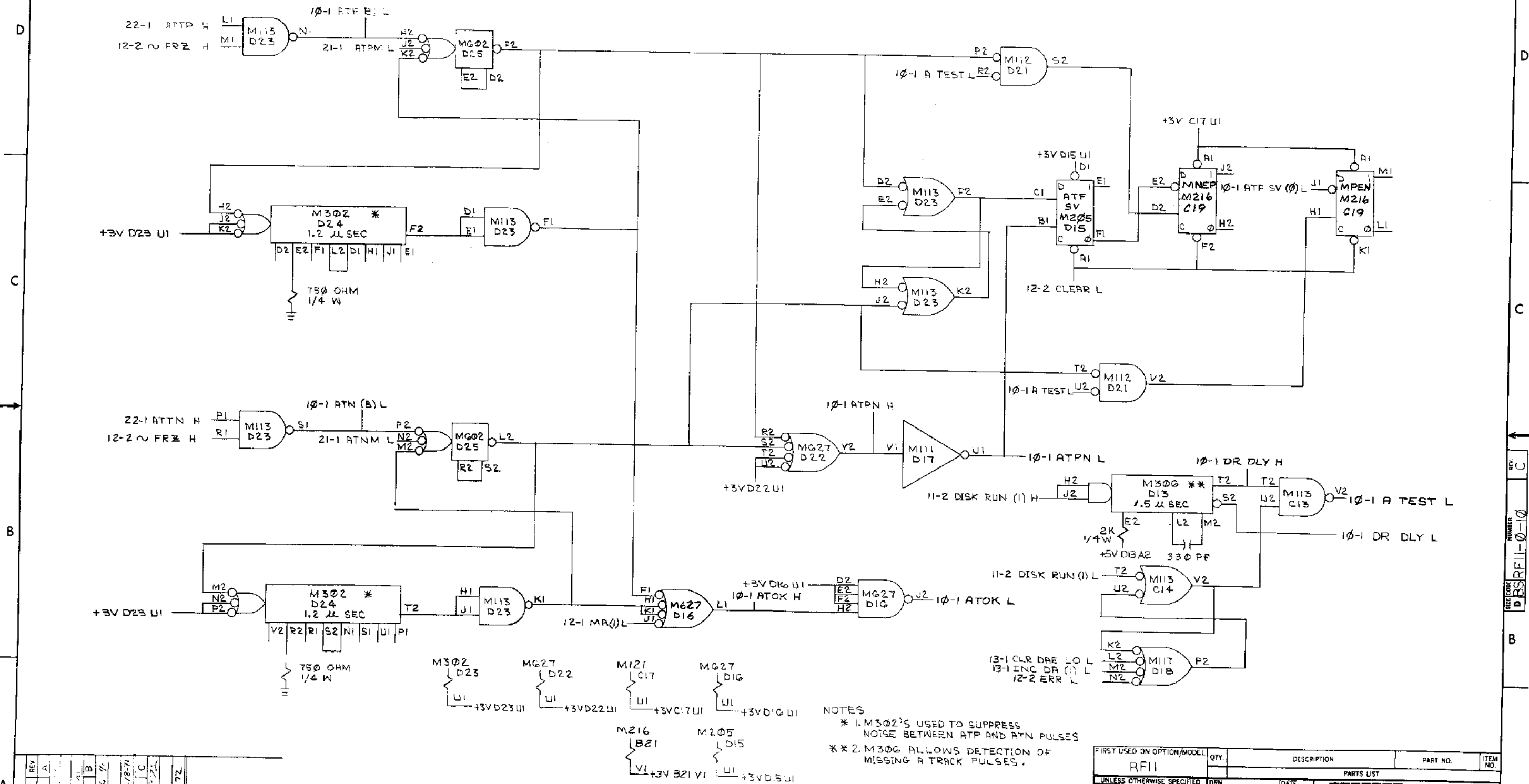


REV.	CHG.	NO.	DATE

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF II				
UNLESS OTHERWISE SPECIFIED		DATE	PARTS LIST	
DRN		6-17-70	digital EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED		DATE	MAYNARD, MASSACHUSETTS	
CHKD		7-31-70	TITLE	
DIMENSION IN INCHES		DATE	WORD COUNT REGISTER (WC)	
TOLERANCES		DATE	SIZE CODE	
DECIMALS FRACTIONS ANGLES		9/3-70	NUMBER	
0 005 ± 1/64 ± 0°		DATE	DBS RF11-0-09	
FRACTIONAL SURFACE QUALITY		DATE	REV	
REMOVE BURRS AND BREAK SHARP CORNERS		9/3-70		
MATERIAL		DATE		
		9/30		
NEXT HIGHER ASSY.				
A-ML-RF11-0				
FINISH				
SCALE NONE				
SHEET 1 OF 1				

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

DBS RFI1-0-10
REV. C

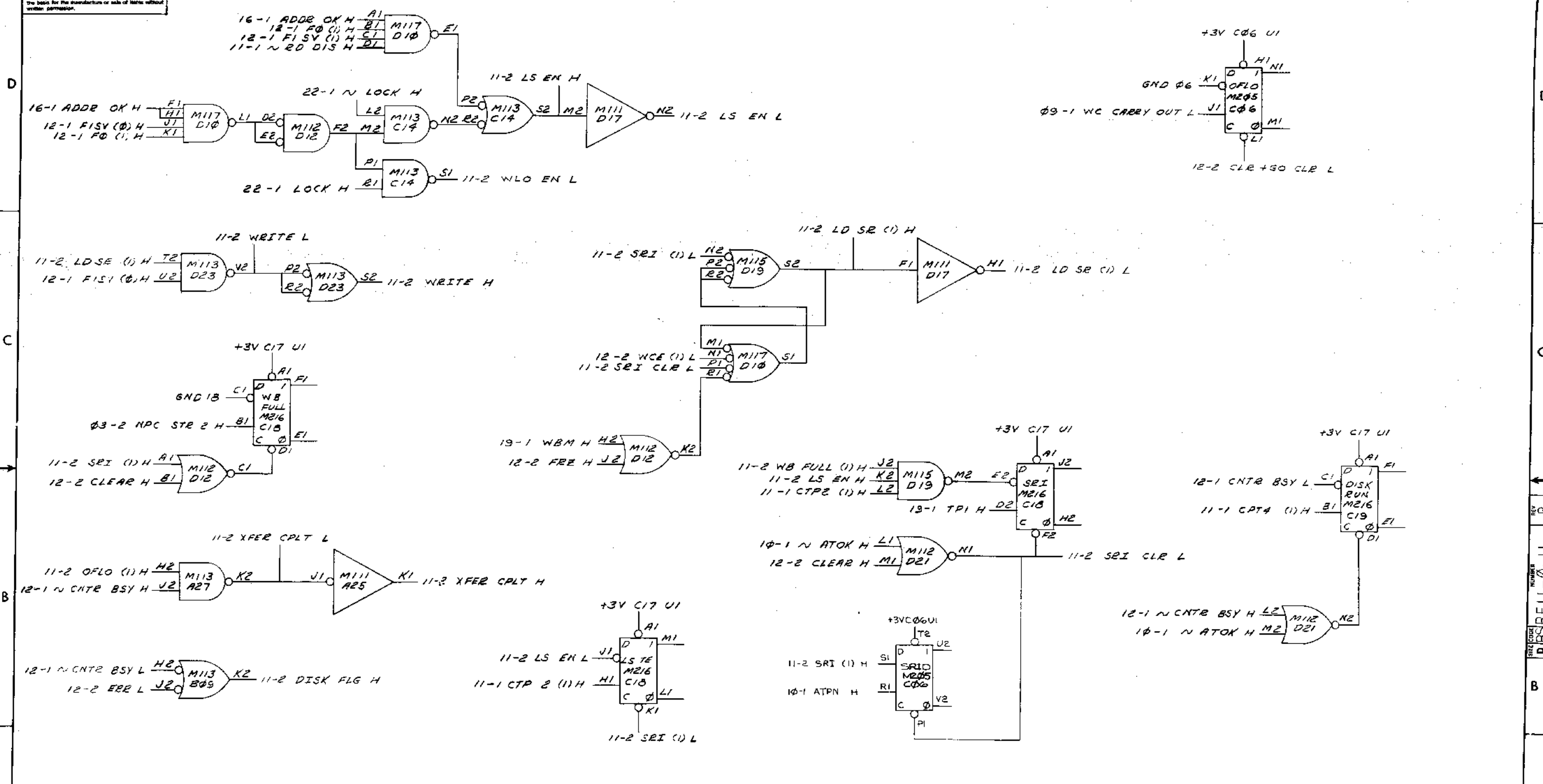


NOTES
 * 1. M302'S USED TO SUPPRESS NOISE BETWEEN ATP AND ATN PULSES
 ** 2. M306 ALLOWS DETECTION OF MISSING A TRACK PULSES.

REV	DATE	BY	CHKD	DESCRIPTION
1	7-13-72	JENKINS		
2				
3				
4				
5				
6				
7				
8				

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
DRN: <i>Edw Reed</i> DATE: 2/9/72				
CHK'D: <i>Edw Reed</i> DATE: 2/9/72				
TOLERANCES				
DIMEN IN INCHES				
DECIMALS FRACTIONS ANGLES				
.005 = 1/64 = 0.30				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
NEXT HIGHER ASSEMBLY				
FINISH				
TITLE				
ATT ERROR DETECTION & REGEN.				
DATE: 2/9/72				
PROD. DATE: 2/9/72				
PROD. DATE: 2/9/72				
SCALE: NONE				
SHEET 1 OF 1				
SIZE CODE: DBS RFI1-0-10				
NUMBER: DBS RFI1-0-10				
REV: C				

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

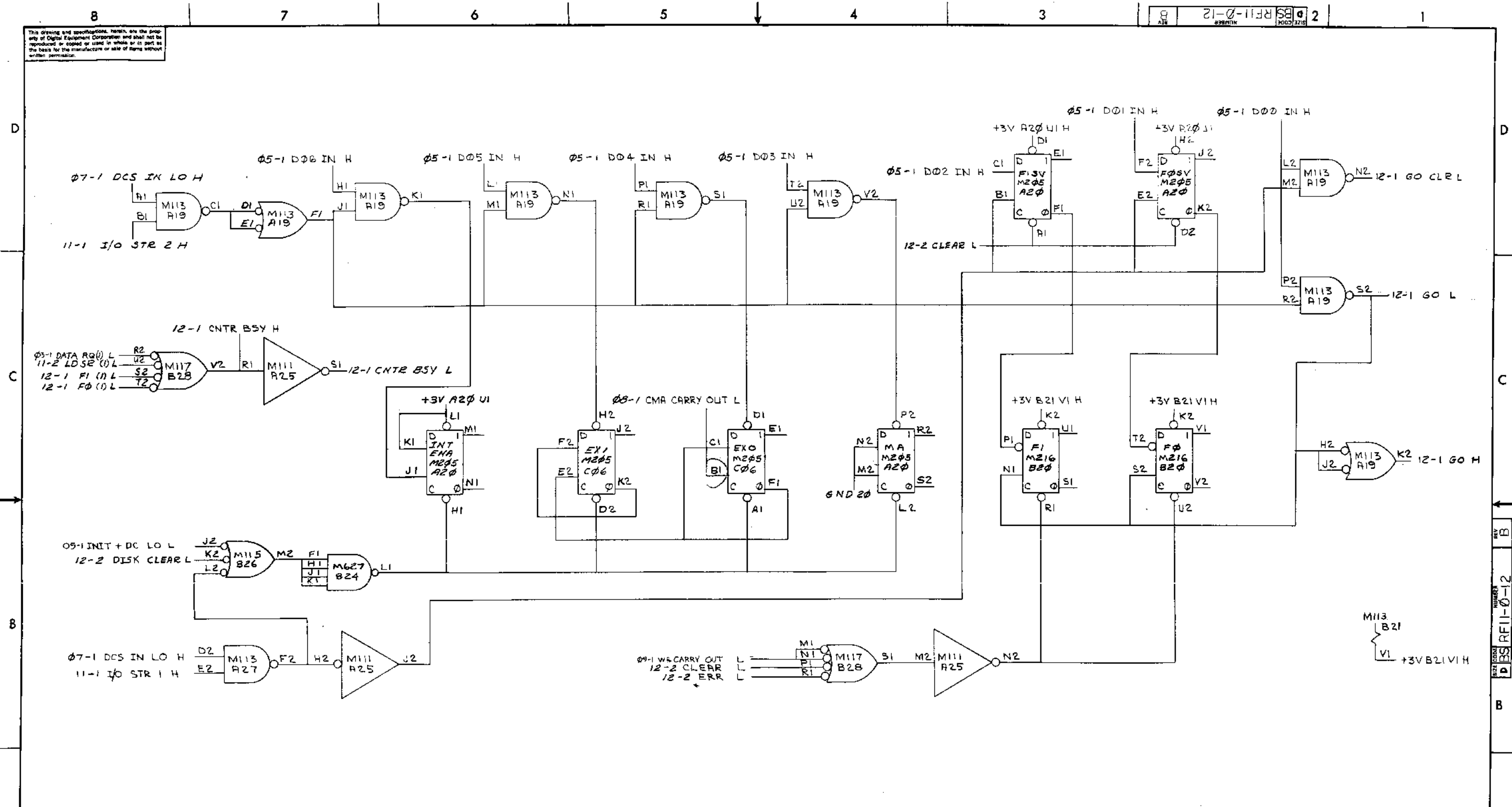


REV.	
CHANGE (N)	
CHK	

DEC FORM NO. 240 1074

REV.	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
digital EQUIPMENT CORPORATION				
TITLE: RFI CONTROL				
SCALE: 2 OF 2				
SHEET 2 OF 2				

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

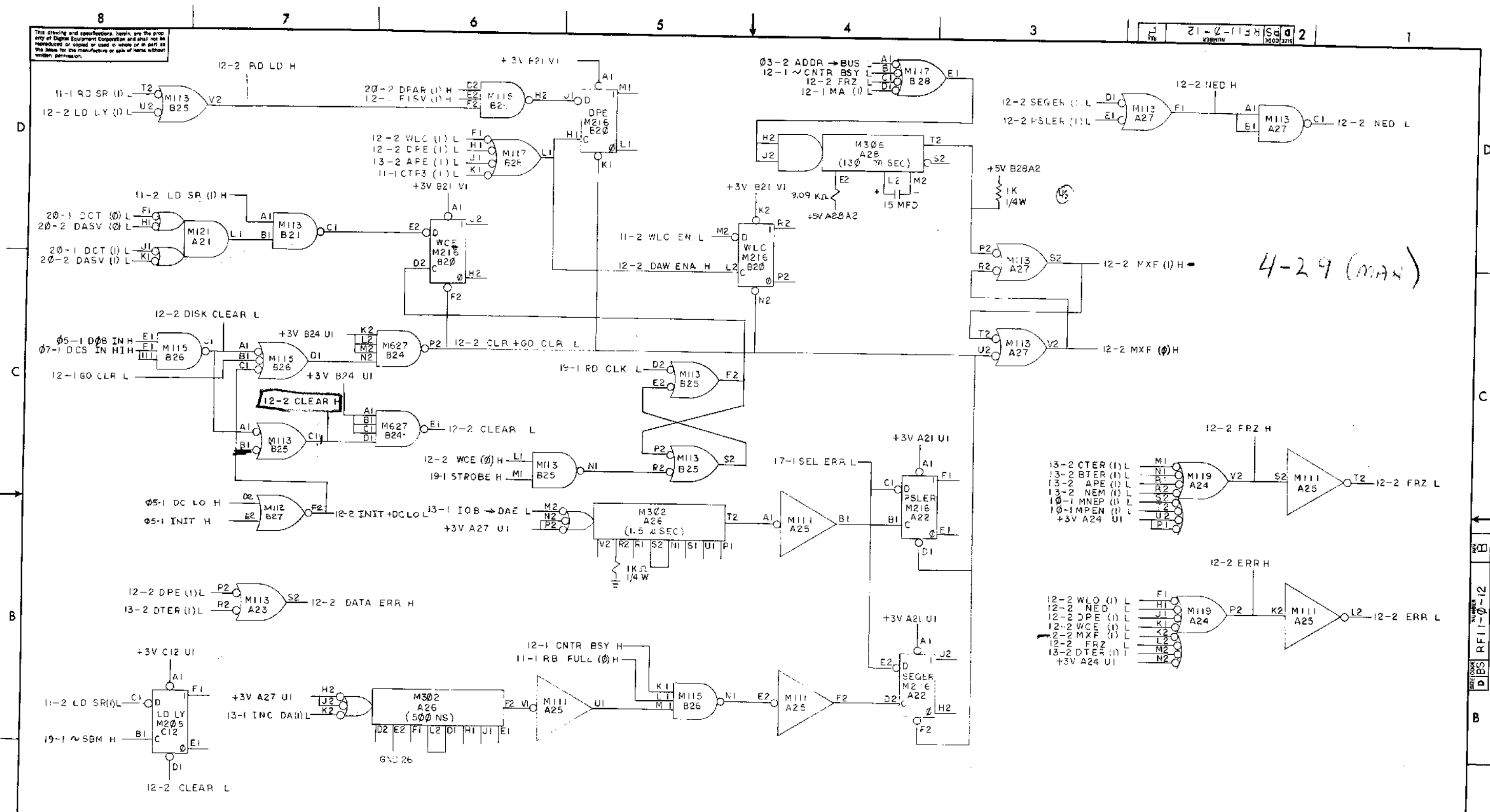


REV.	CHANGE NO.	BY	DATE
A	0004	E. ERIKSON	7-18-71
B	0005	JENKINS	7-18-71

FIRST USED ON OPTION / MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED		DRN	DATE	digital EQUIPMENT CORPORATION WATYARD MASSACHUSETTS
UNLESS OTHERWISE SPECIFIED		DATE	DATE	
DIMENSION IN INCHES		DATE	DATE	TITLE DISK CONTROL & STATUS REGISTER (DCS)
TOLERANCES		DATE	DATE	
DECIMALS FRACTIONS ANGLES		DATE	DATE	SIZE CODE NUMBER REV D BS RF11-0-12 B
= .005 ± 1/64 ± 0°30'		DATE	DATE	
FINAL SURFACE QUALITY		DATE	DATE	SCALE NONE SHEET 1 OF 2
REMOVE BURRS AND BREAK SHARP CORNERS		DATE	DATE	
MATERIAL	++	NEXT HIGHER ASSEMBLY		DIST.
FINISH	++			

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part as the basis for the manufacture or sale of items without written permission.

DBS RFI1-0-12 2



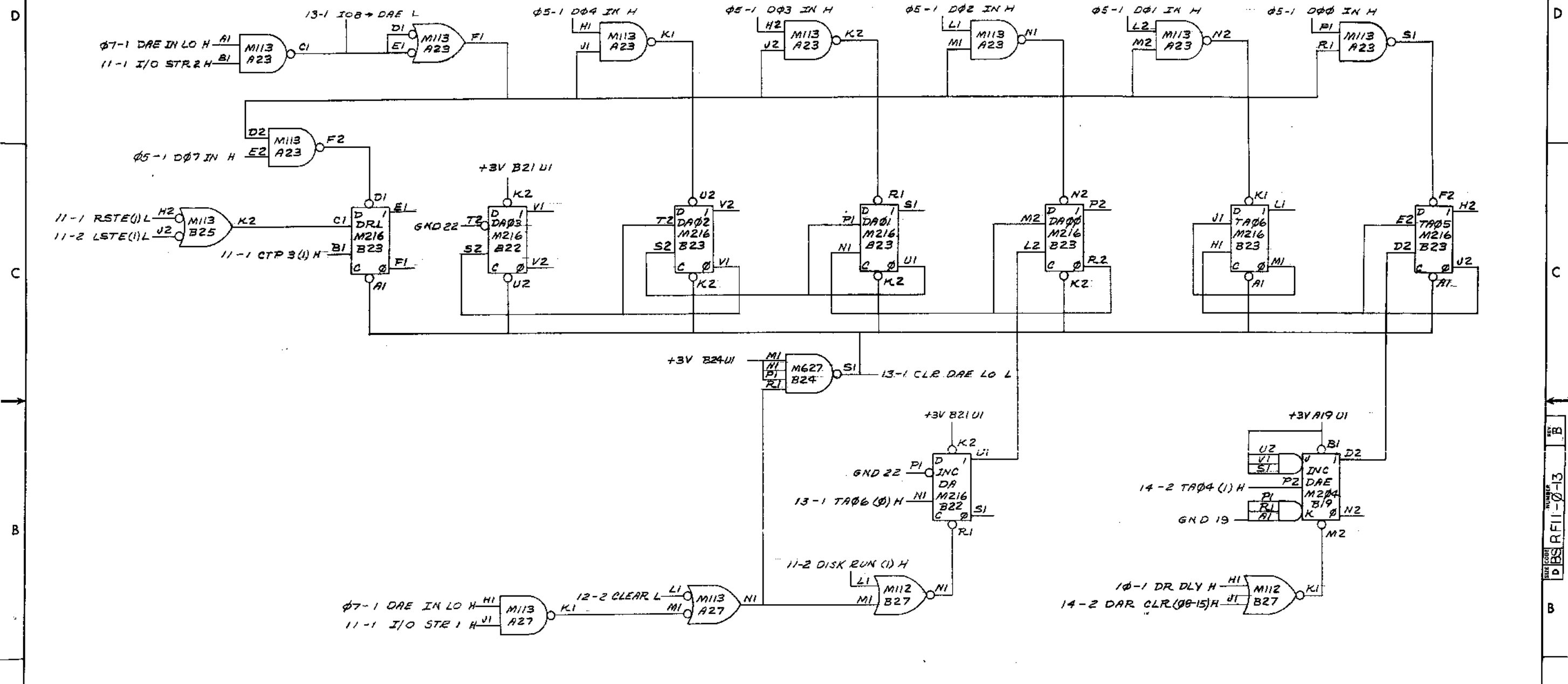
4-29 (MAX)

REV	
CHG	
REVISIONS	

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
± .005 ± .002 ± .010				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	FIRST USED ON	DATE	TITLE	
	A-ML-RF11-7	7/15/70	DISK CONTROL & STATUS REGISTER (DCS)	
FINISH	SCALE	SIZE CODE	NUMBER	REV
	1:1	DBS	RF11-0-12	B
	SHEET 2 OF 2	DIST.		

REFERENCE NUMBER DBS RFI1-0-12

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part in the best for the manufacture or sale of items without written permission.



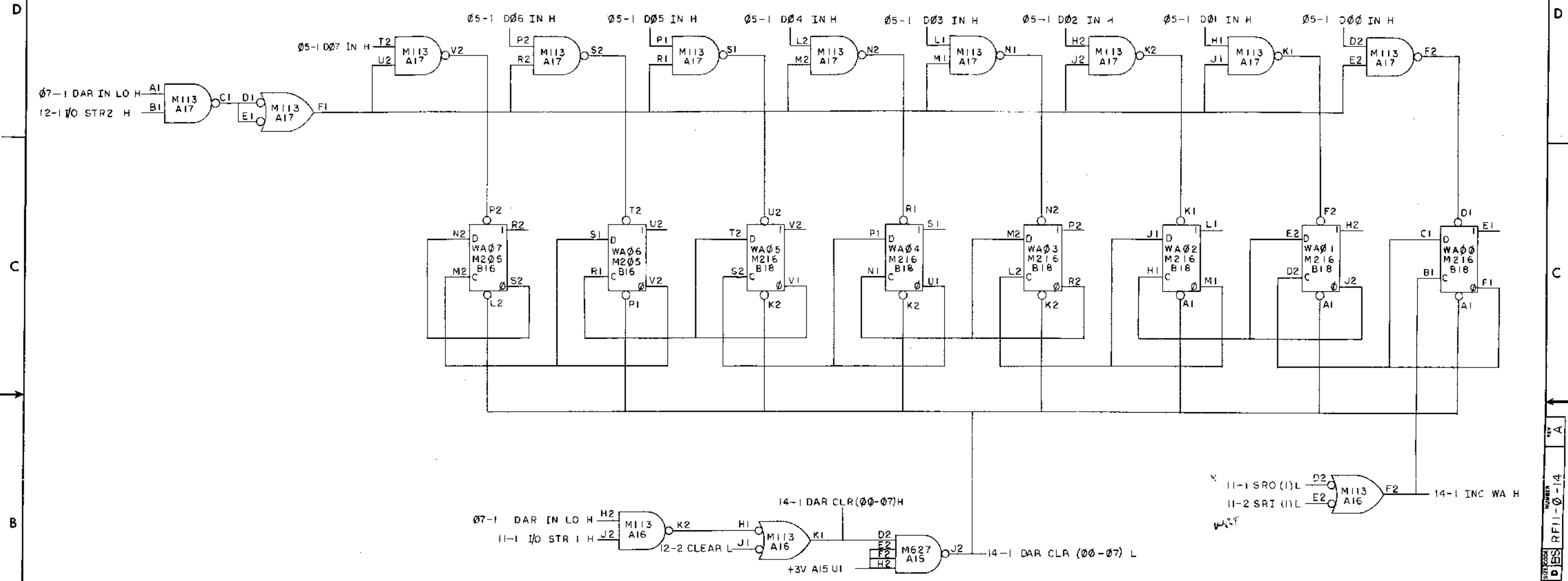
REV.	CHG.	NO.	DATE	BY	CHKD.
A		0003			
B		0004			
C					

ERIKSEN
 ERIKSEN
 ERIKSEN
 ERIKSEN
 ERIKSEN

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED	DATE	PARTS LIST		
UNLESS OTHERWISE SPECIFIED	DATE	digital EQUIPMENT CORPORATION		
UNLESS OTHERWISE SPECIFIED	DATE	MAYFARL, MASSACHUSETTS		
UNLESS OTHERWISE SPECIFIED	DATE	TITLE		
UNLESS OTHERWISE SPECIFIED	DATE	DISK ADDR EXT & ERROR REGISTER (DAE)		
UNLESS OTHERWISE SPECIFIED	DATE	NEXT HIGHER ASSY.		
UNLESS OTHERWISE SPECIFIED	DATE	A-ML-RF11-0		
UNLESS OTHERWISE SPECIFIED	DATE	SCALE NONE		
UNLESS OTHERWISE SPECIFIED	DATE	SHEET 1 OF 2		
UNLESS OTHERWISE SPECIFIED	DATE	SIZE CODE DBS RFI1-0-13		
UNLESS OTHERWISE SPECIFIED	DATE	NUMBER		
UNLESS OTHERWISE SPECIFIED	DATE	REV B		

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

71-0-1148 [S] [B] [S] [A] 2
REVISED 10/20/70

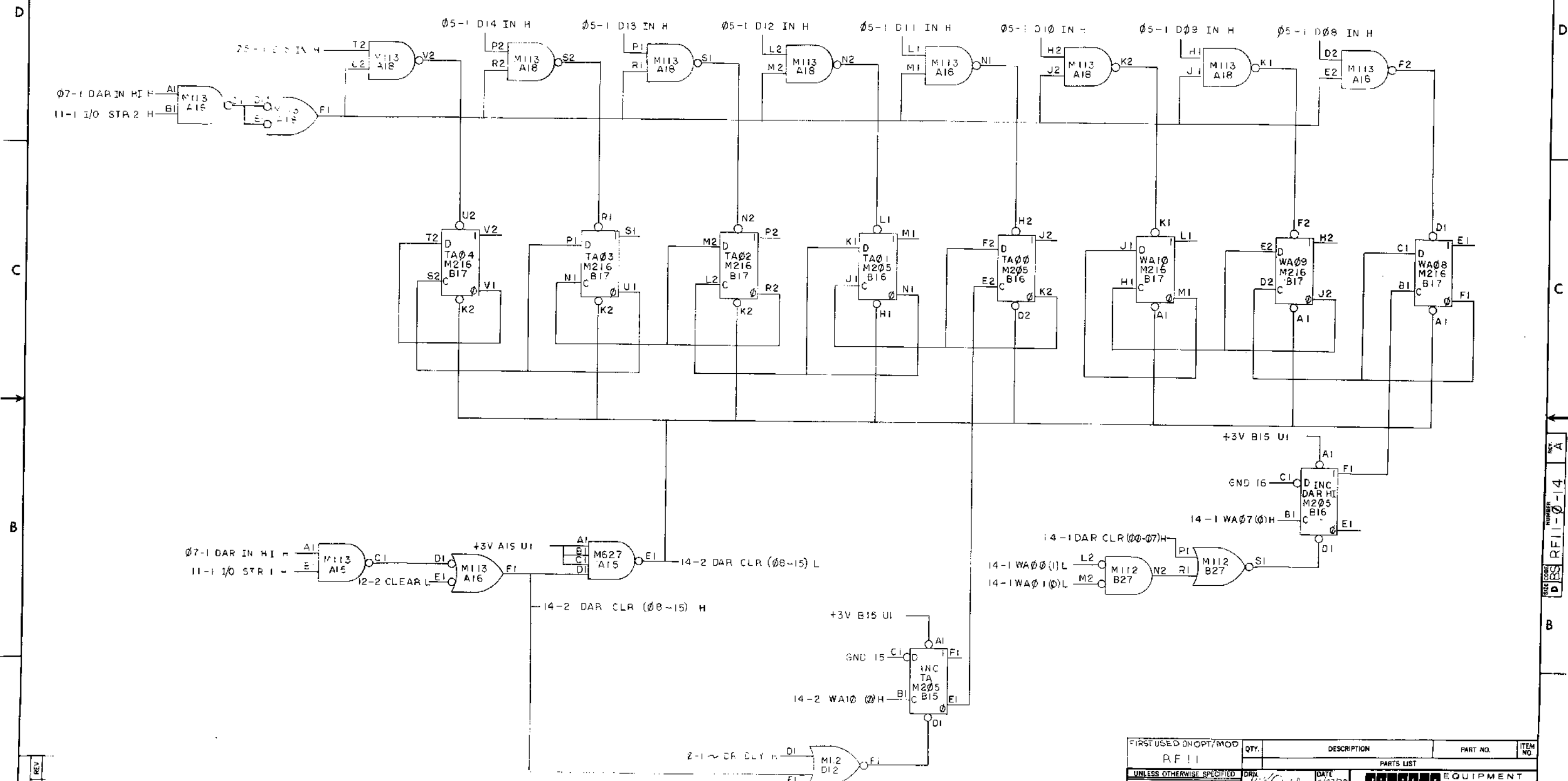


REV	CHG	NO	BY	DATE
1				
2				
3				
4				
5				
6				
7				
8				

FIRST USED ON OPT/ MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	DATE	TITLE		
DIMENSION IN INCHES	DATE	DISK ADDRESS REGISTER (DAR)		
TOLERANCES	DATE	SIZE CODE NUMBER REF.		
DECIMALS FRACTIONS ANGLES	DATE	DBS RF11-0-14 A		
± .005 ± .004 ± .030	DATE	SCALE NONE		
FINAL SURFACE QUALITY	DATE	SHEET 1 OF 2		
REMOVE BURRS AND BREAK SHARP CORNERS	DATE	DST		
MATERIAL	FIRST USED ON	A-ML-RF11-0		
FINISH	SCALE	NONE		

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied, in whole or in part, as the basis for the manufacture or sale of items without written permission.

DBS RFI1-0-14 2



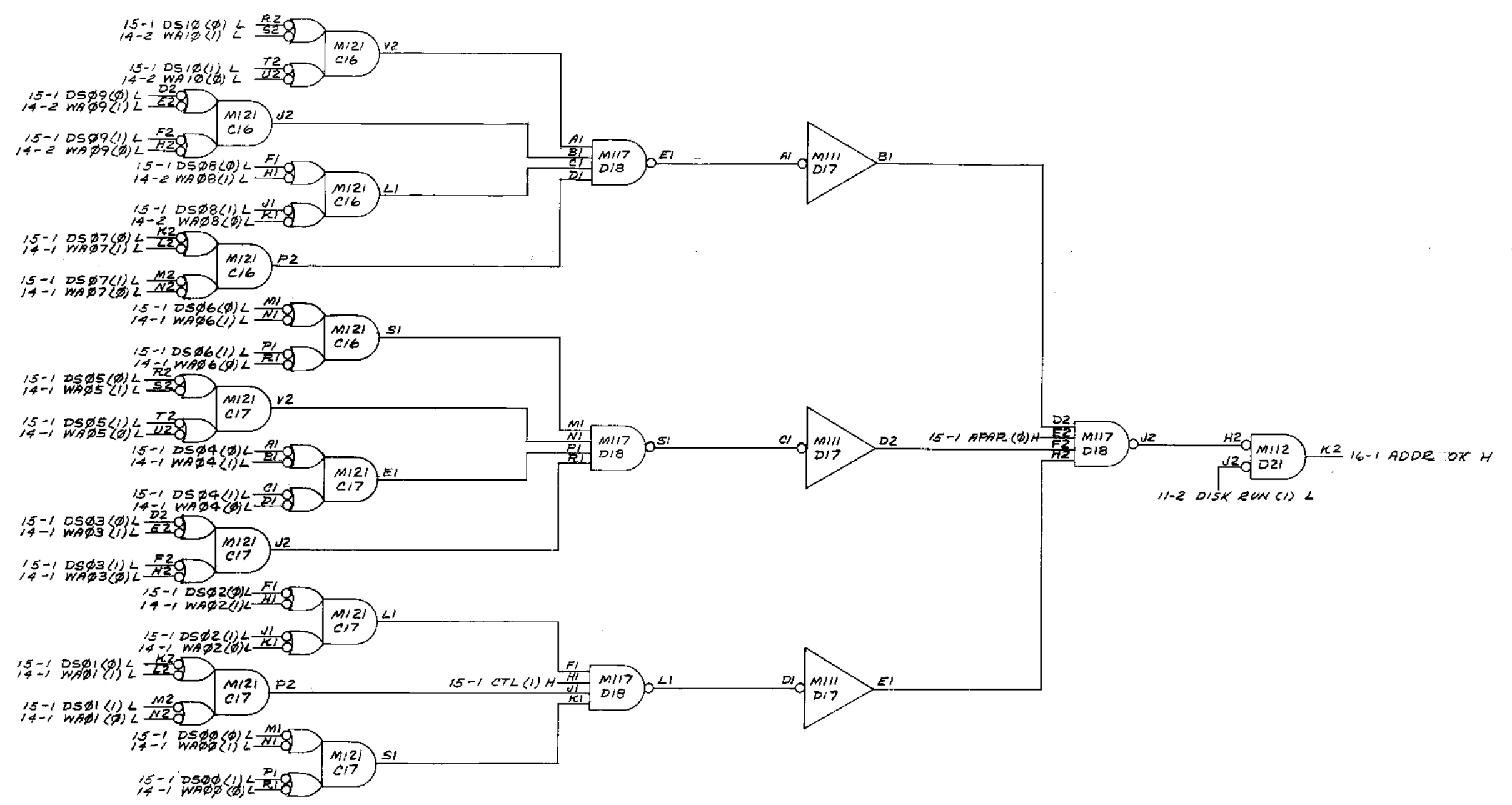
REV	CHNG NO	REVISIONS

REV A
NUMBER
DBS RFI1-0-14

FIRST USED ON OPT/ MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES		DATE	PARTS LIST	
TOLERANCES		12/23/70	digital EQUIPMENT CORPORATION	
DECIMALS FRACTIONS ANGLES		12/31/70	MAYNARD MASSACHUSETTS	
FINAL SURFACE QUALITY		DATE	TITLE	
REMOVE BURRS AND BREAK SHARP CORNERS		12/9/70	DISK ADDRESS REGISTER (DAR)	
MATERIAL		DATE	SIZE CODE	
FIRST USED ON		12/16/70	NUMBER	
A-ML-RF11-0			REV.	
SCALE NONE			DBS RFI1-0-14	
SHEET 2 OF 2			DIST.	

DEC FORM 102A

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture of any item without written permission.



D
C
B
A

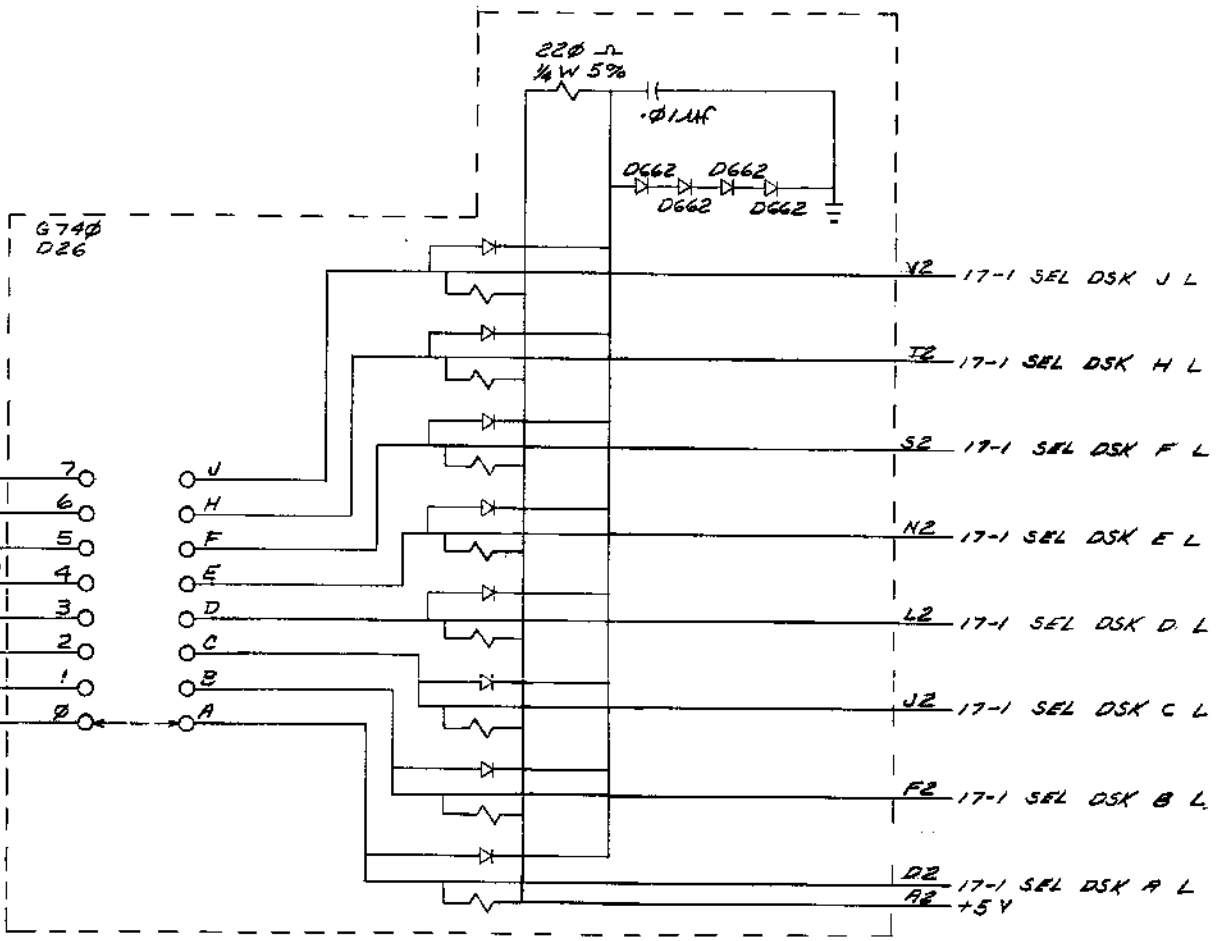
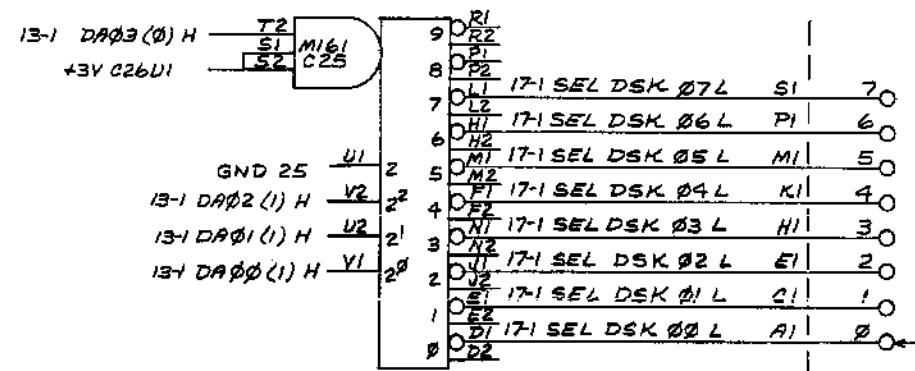
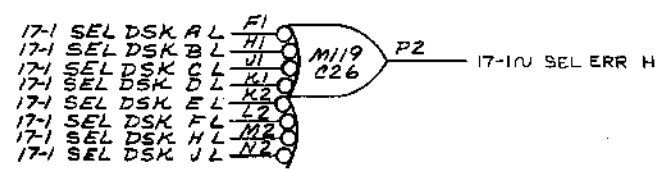
D
C
B
A

REV
NUMBER
DBS RF11-0-16

REV	CHANGE NO.

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED				
DATE	DATE	DATE	DATE	DATE
6-22-70	7-31-70	8-2-70	8-2-70	8-2-70
PARTS LIST				
TITLE				
COMPARATOR				
NEXT HIGHER ASSY.				
A-ML-RF11-0				
SCALE NONE				
SHEET OF 1				
SIZE/CODE NUMBER REV				
DBS RF11-0-16				
DIST.				

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



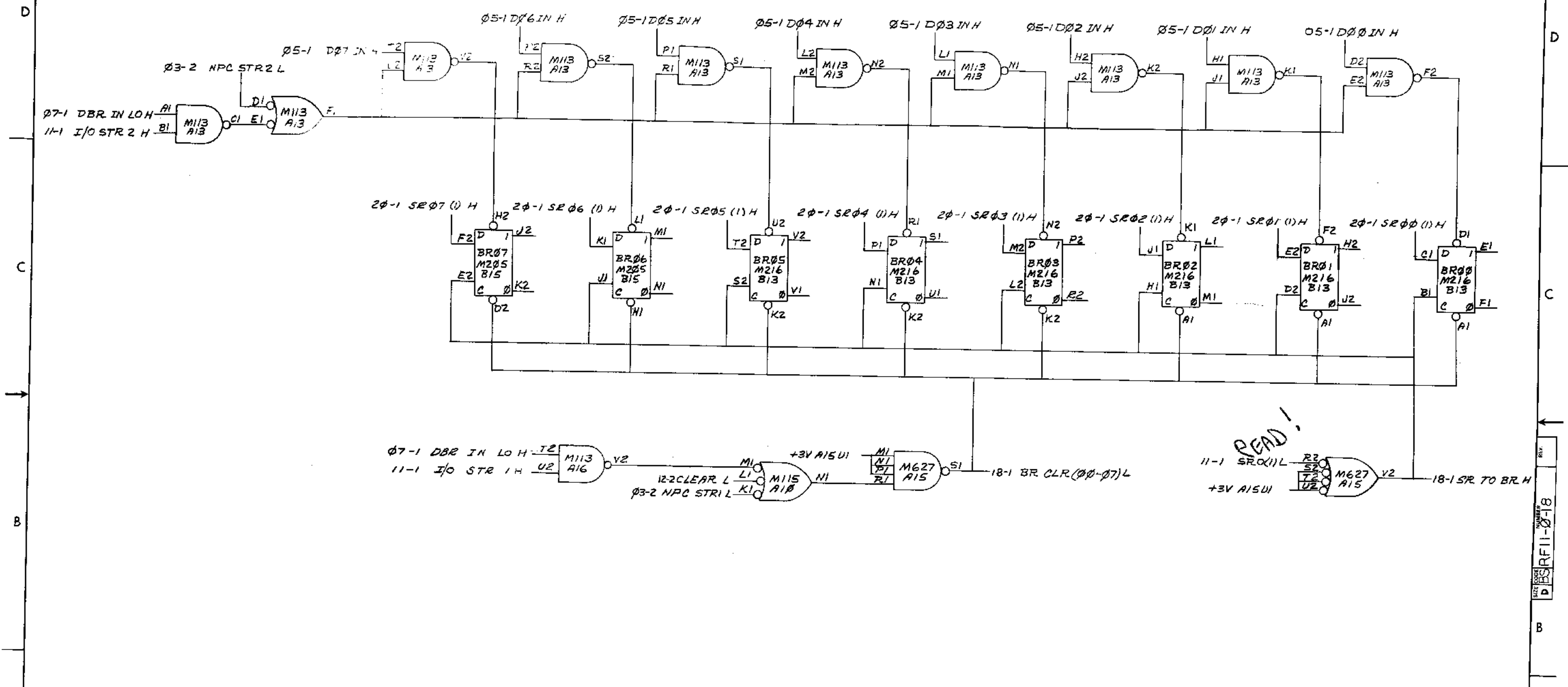
NOTES:
 1. NO JUMPER INDICATES A NON-EXISTING DISK.
 2. UNLESS OTHERWISE NOTED ALL DIODES ARE D664.

REV	
CHANGE NO.	
CHK	

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES		DATE	PARTS LIST	
TOLERANCES		6-23-70	digital EQUIPMENT CORPORATION	
DECIMALS FRACTIONS ANGLES		DATE	MAYNARD, MASSACHUSETTS	
± .005 ± .1/64 ± .070		7-31-70	TITLE	
FINAL SURFACE QUALITY		DATE	DISK SELECTION	
REMOVE BURRS AND BREAK SHARP CORNERS		9-8-70		
MATERIAL	NEXT HIGHER ASSY.	DATE		
++	A-ML-RF11-0	9/1/70		
FINISH	SCALE NONE	DATE		
++	SHEET 1 OF 1	9/1/70		
		SIZE CODE	NUMBER	REV
		DBS RFI11-0-17		

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or used in whole or in part as the basis for the manufacture or sale of items without written permission.

81-0-111111-2



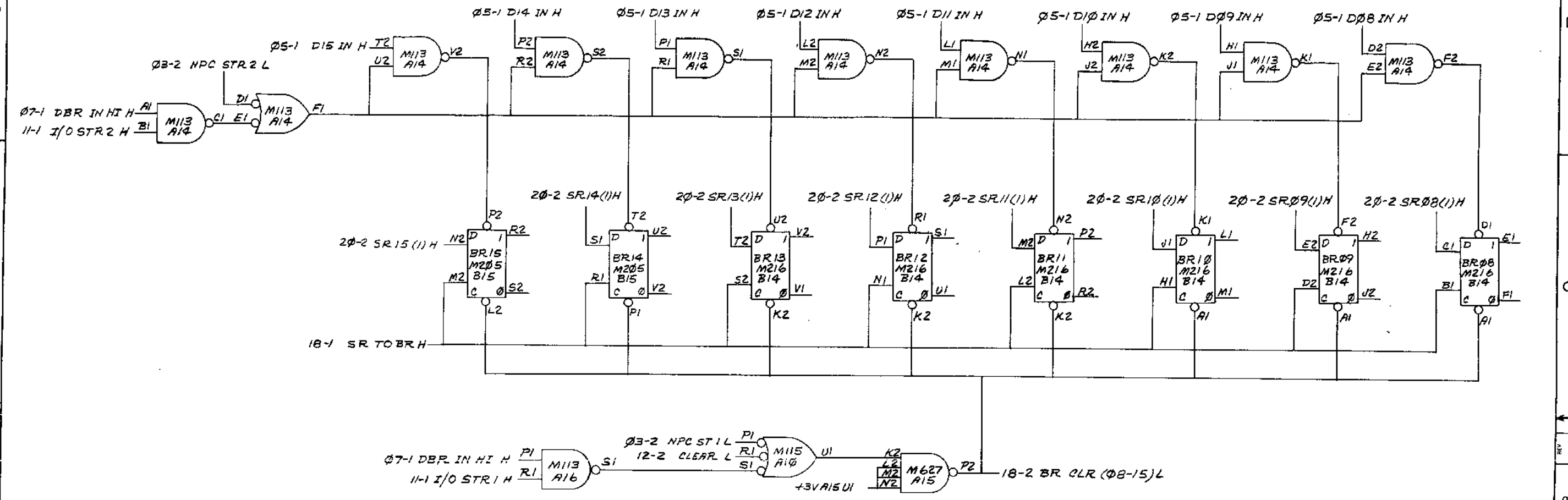
READ!

REV	
CHG	
CHK	
DEC FORM NO	1024

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RFI1				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
DWN <i>H. Kimochi</i> DATE 6-23-70				
CHKD <i>W. Maddox</i> DATE 7-31-70				
DESIGNED <i>B. Eubank</i> DATE 7-5-70				
PROD. ENG. <i>B. Eubank</i> DATE 7-5-70				
PROD. <i>W. Call</i> DATE 7/8/70				
MATERIAL				
NEXT HIGHER ASSY.				
A-ML-RFI1-0				
FINISH				
SCALE NONE				
SHEET 1 OF 2				
digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS				
DISK DATA BUFFER REGISTER (DBR)				
SIZE CODE NUMBER REV				
D1BSRF11-0-18				
DST.				

REV. NUMBER
D1BSRF11-0-18

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



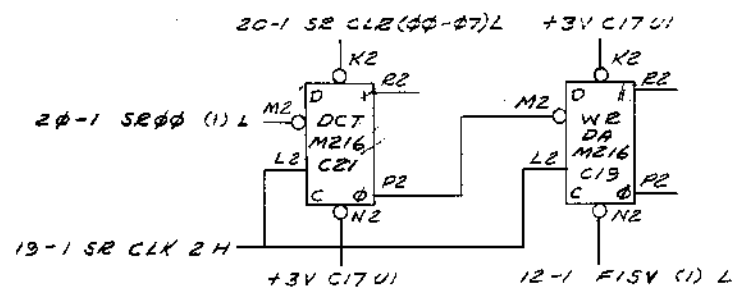
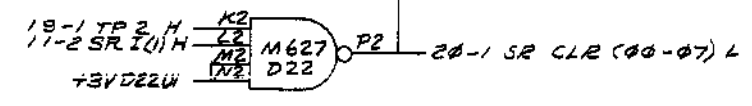
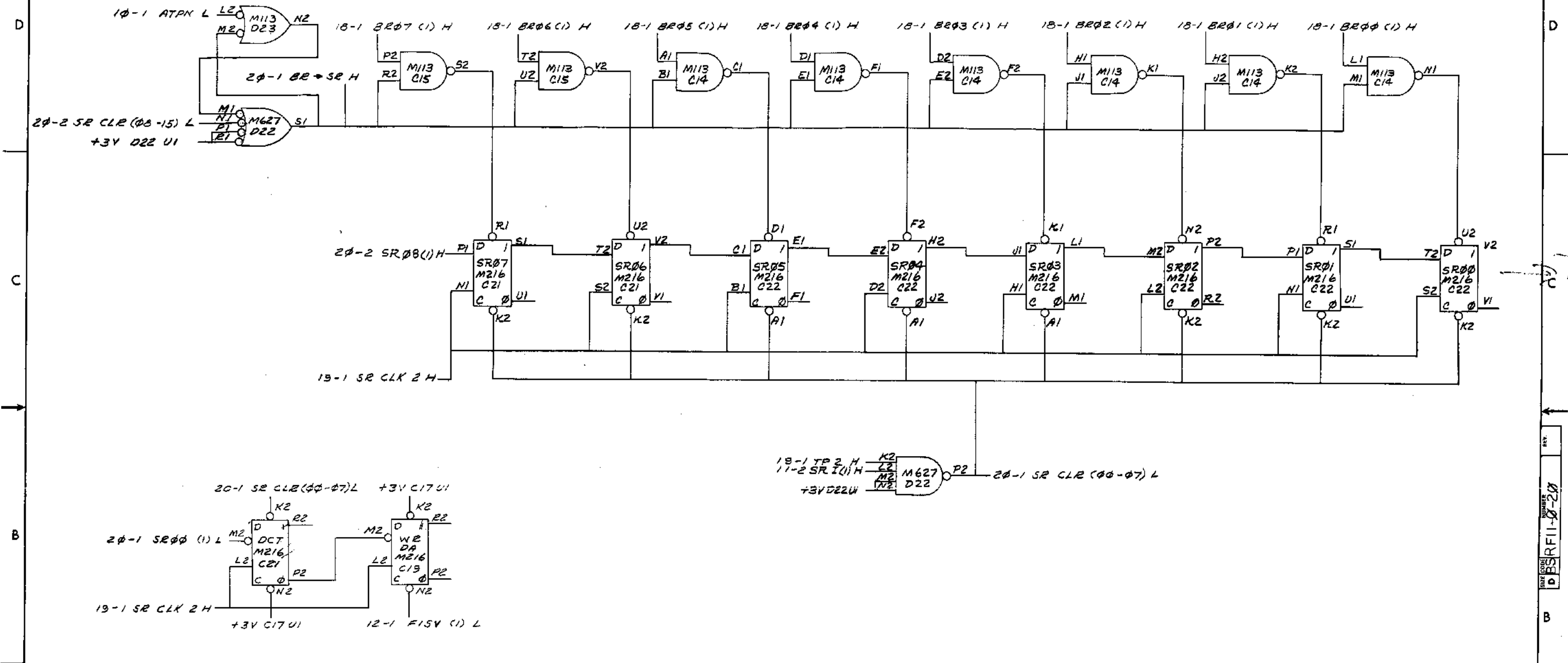
REV	
CHG	
CHK	
REV	
CHG	
CHK	

DEC FORM NO. 102A

FIRST USED ON OPT./MOD.	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
DIM. DATE 6-23-70				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES DATE 7-31-70				
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
= .005 = 1/64 = 0°30'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
NEXT HIGHER ASSY.				
A-ML-RF11-0				
SCALE NONE				
FINISH				
SHEET 2 OF 2				
TITLE			NUMBER	
DISK DATA			DBS RF11-0-13	
BUFFER REGISTER (DBR)				
SIZE CODE			REV.	
D				
SHEET 2 OF 2				

REV. NO. DBS RF11-0-18

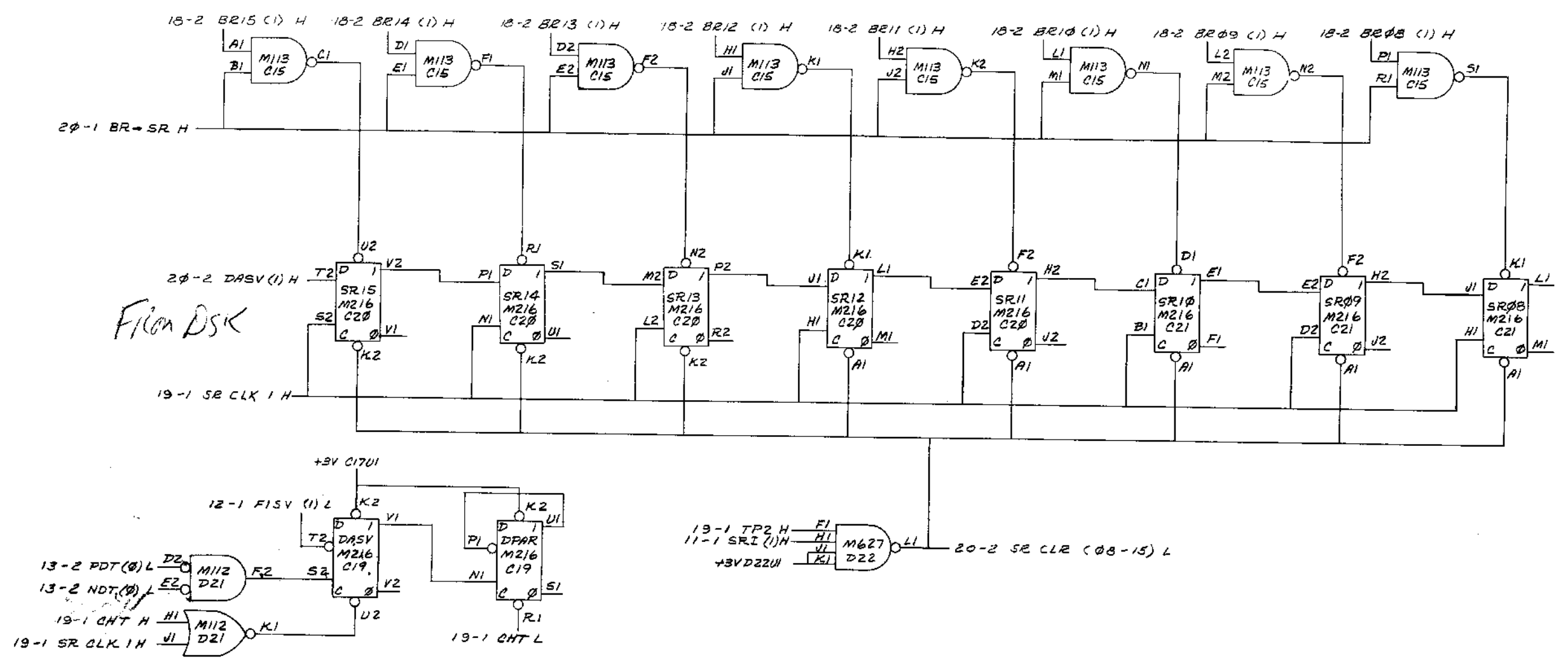
This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



FIRST USED ON OPT/MOD.	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
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 ASSY.				
A-ML-RF11-0				
SCALE NONE				
SHEET 1 OF 2				
DATE CODE			NUMBER	REV
DBS RF11-0-20			DBS RF11-0-20	

REV.	CHANGE NO.	REVISIONS

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part as the basis for the manufacture or sale of items without written permission.



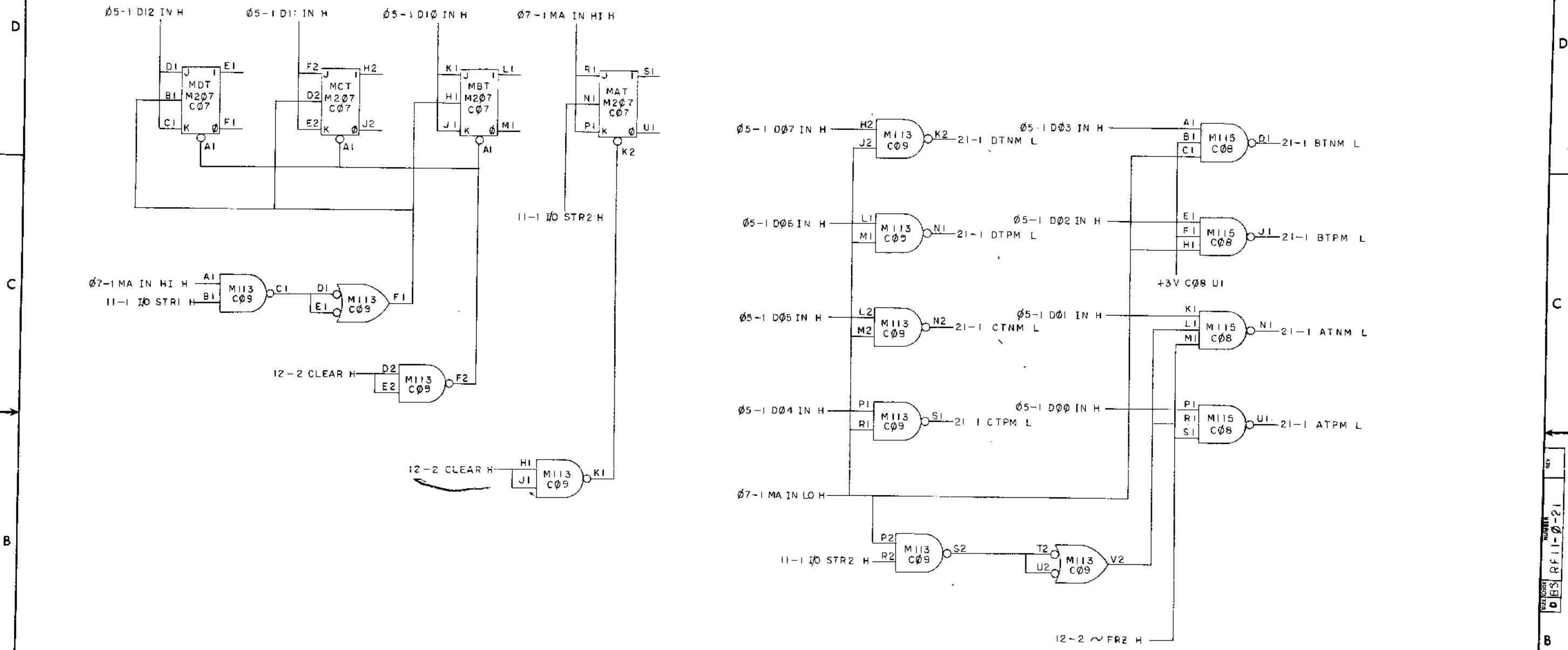
Filom DSK

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED		DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE SPECIFIED		CHKD	DATE	
DIMENSION IN INCHES		DESIGNED	DATE	TITLE
TOLERANCES		ENG'G	DATE	
DECIMALS FRACTIONS ANGLES		PROG'D	DATE	SHIFT REGISTER
.005 = 1/64 = 0.30		PROD	DATE	
FINAL SURFACE QUALITY		NEXT HIGHER ASSY.		
REMOVE BLURS AND BREAK SHARP CORNERS		A-ML-RF11-0		
MATERIAL		SCALE		SIZE/CODE
FINISH		NONE		NUMBER
		SHEET 2 OF 2		REV
		DIST.		

REV. NO. 1
REV. NO. 2
REV. NO. 3
REV. NO. 4
REV. NO. 5
REV. NO. 6
REV. NO. 7
REV. NO. 8

REV. NO. 1
REV. NO. 2
REV. NO. 3
REV. NO. 4
REV. NO. 5
REV. NO. 6
REV. NO. 7
REV. NO. 8

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture of any of items without written permission.



REV	
CHG	
NO.	

DEC FORM NO. DRG 1024

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	DATE	DATE	TITLE	
DIMENSION IN INCHES	7/23/70	7/31/70	MAINTENANCE REGISTER (MAR)	
TOLERANCES	DATE	DATE	SIZE CODE: NUMBER	
DECIMALS FRACTIONS ANGLES	7/23/70	7/23/70	D B S R F 11 - 0 - 21	
± .008 ± .004 ± .030	DATE	DATE	SHEET 1 OF 1	
FINAL SURFACE QUALITY	7/23/70	7/23/70	DIST.	
REMOVE BURRS AND BREAK SHARP CORNERS	DATE	DATE		
MATERIAL	FIRST USED ON	SCALE NONE		
FINISH	A-ML-RF11-0	SHEET 1 OF 1		

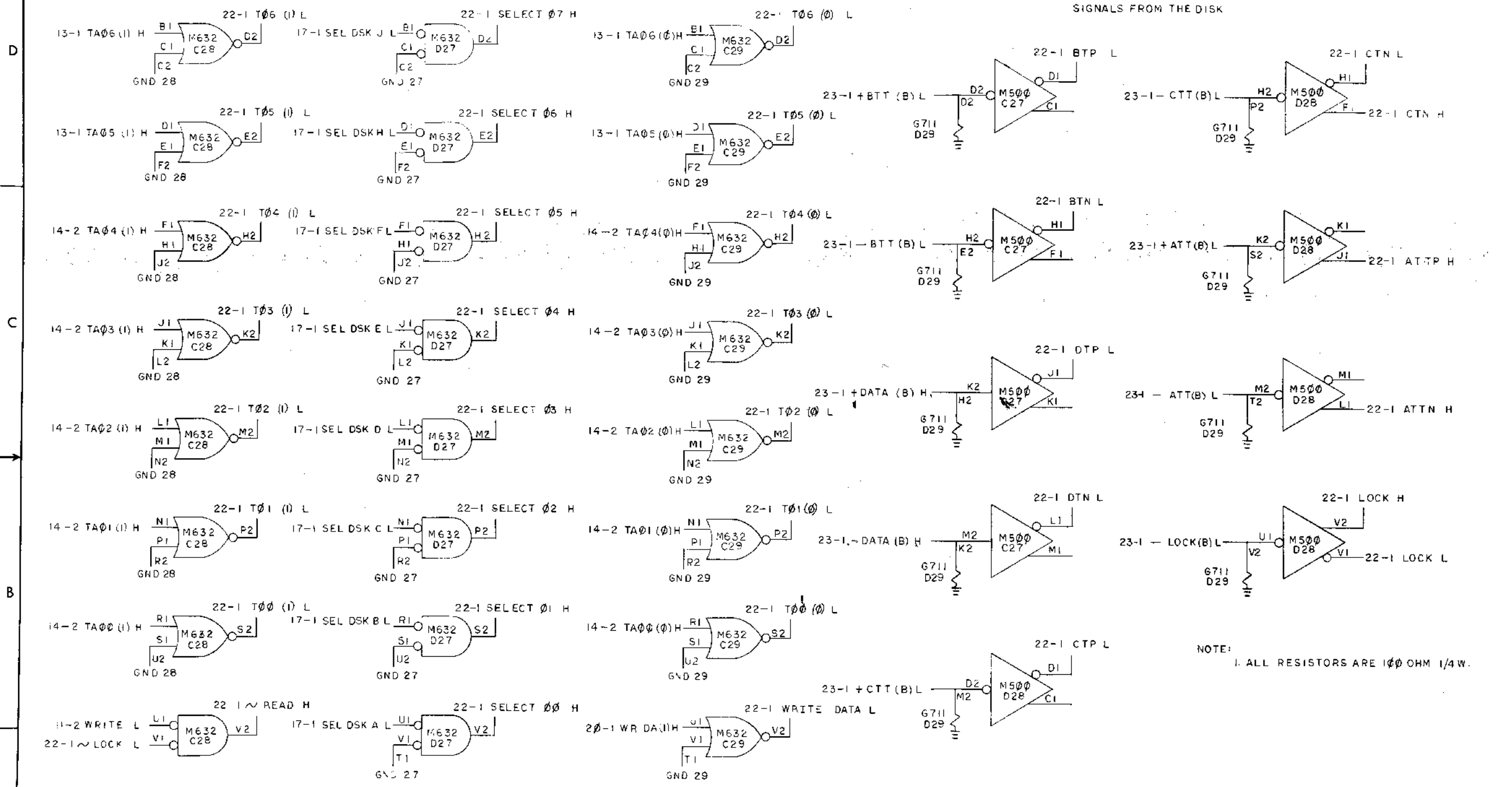
REV. NO. 12-0-11-R-21

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

22-0-113H 2

SIGNALS TO THE DISK

SIGNALS FROM THE DISK



NOTE: 1. ALL RESISTORS ARE 100 OHM 1/4 W.

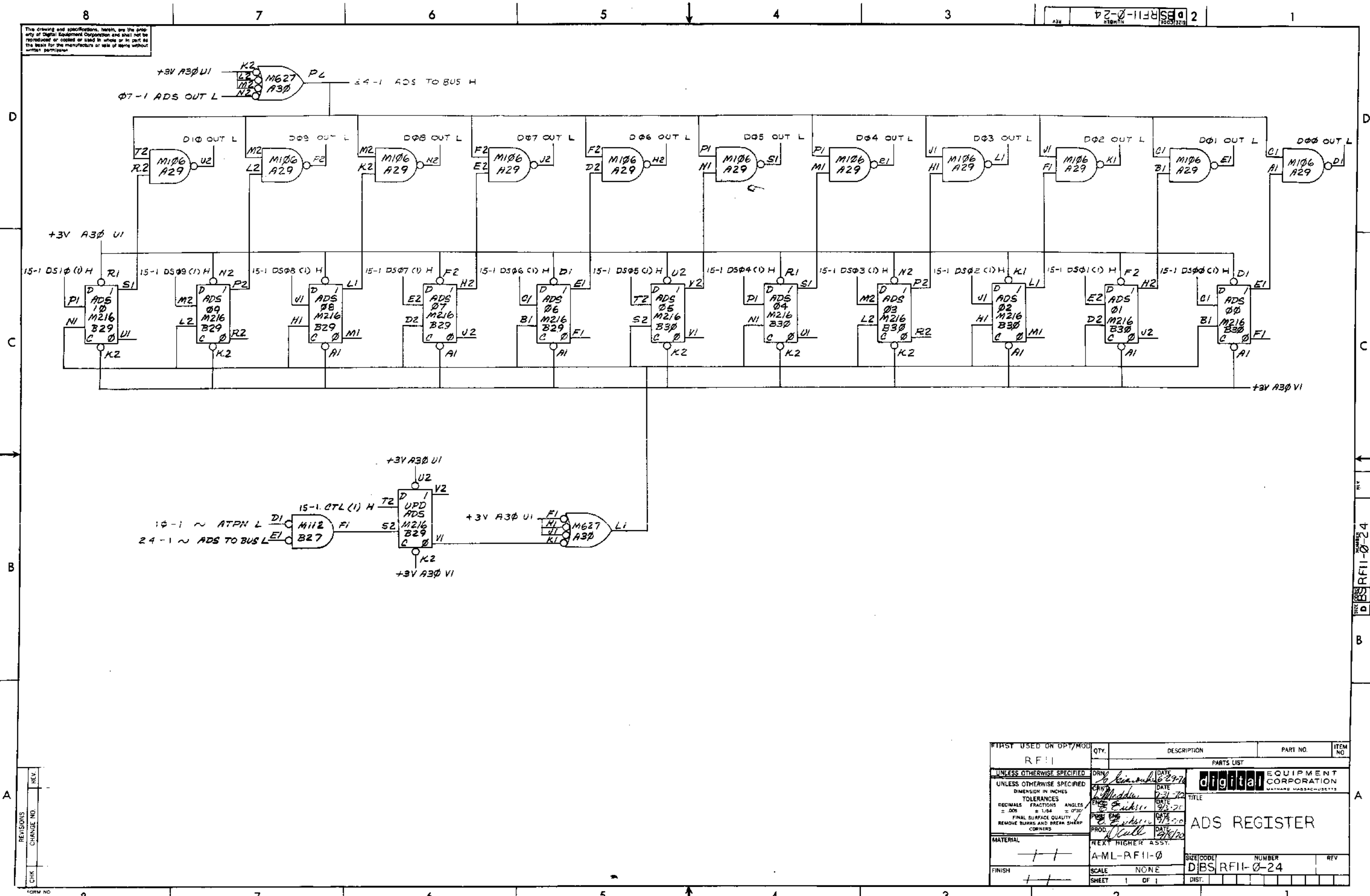
REVISION	NO.
CHANGE	NO.
CHK	

FIRST USED ON OPT / MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RFI1				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
TOLERANCES				
INFORMAL FRACTIONS ANGLES				
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
FINISH				
DATE		DATE		
DRAWN		DATE		
CHKD		DATE		
APPROVED		DATE		
PROD		DATE		
FIRST USED ON		DATE		
A-ML-RFI1-0		DATE		
SCALE		NUMBER		
SHEET		DIST.		

digital EQUIPMENT CORPORATION
 RFI1-RSH
 INTERFACE

REV. NO. 22-0-113H

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture of any items without written permission.

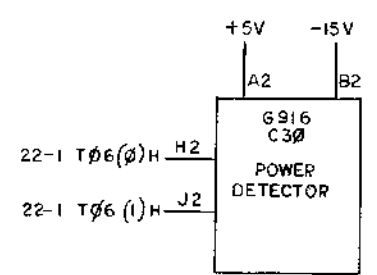
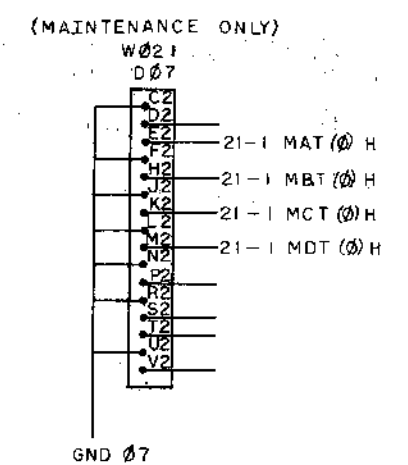
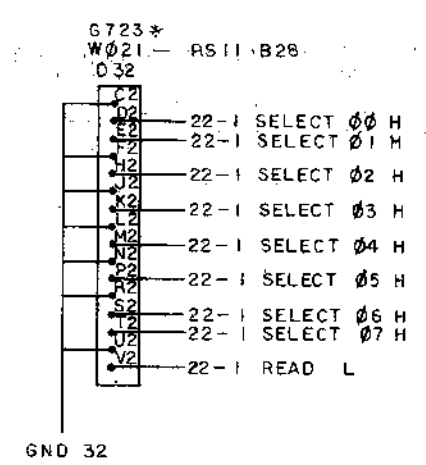
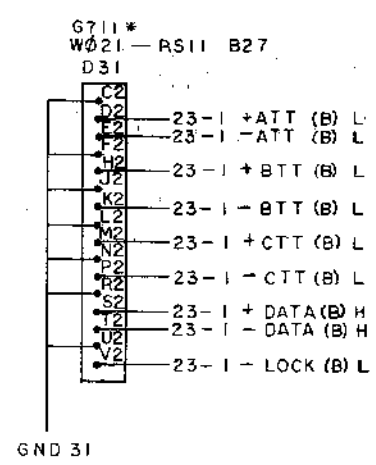
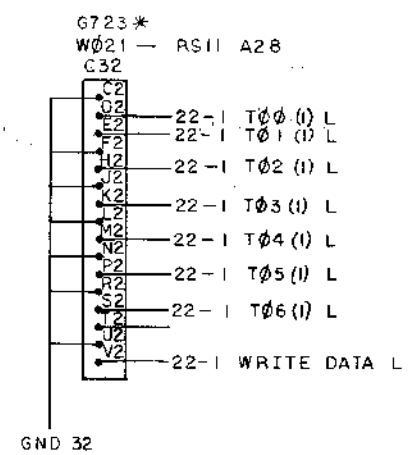
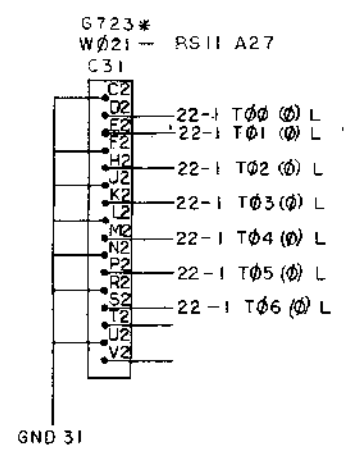


REV.	
CHK	
CHG	
REV.	
CHK	
CHG	

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED		DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED		DATE	TITLE	
DIMENSION IN INCHES		DATE	ADS REGISTER	
TOLERANCES		DATE		
DECIMALS	FRACTIONS	ANGLES		
= .005	= 1/64	= 0°00'		
FINAL SURFACE QUALITY		DATE		
REMOVE BURRS AND BREAK SHEEP CORNERS		DATE		
MATERIAL		DATE		
NEXT HIGHER ASSY.		DATE		
A-ML-RF11-0		DATE		
SCALE NONE		DATE		
SHEET 1 OF 1		DATE		
SIZE CODE DBS RFI1-0-24		DATE		
NUMBER		DATE		
REV		DATE		
DIST.		DATE		

DBS RFI1-0-24

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



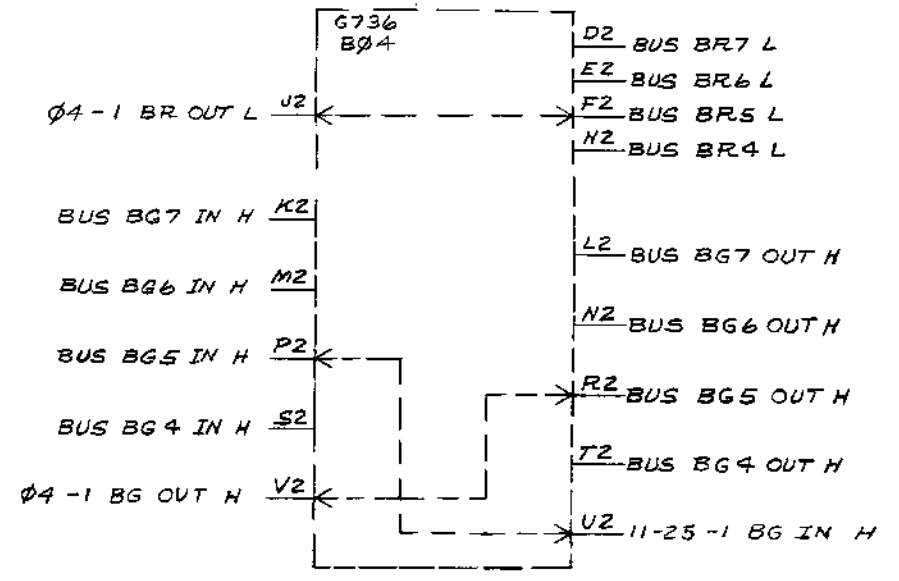
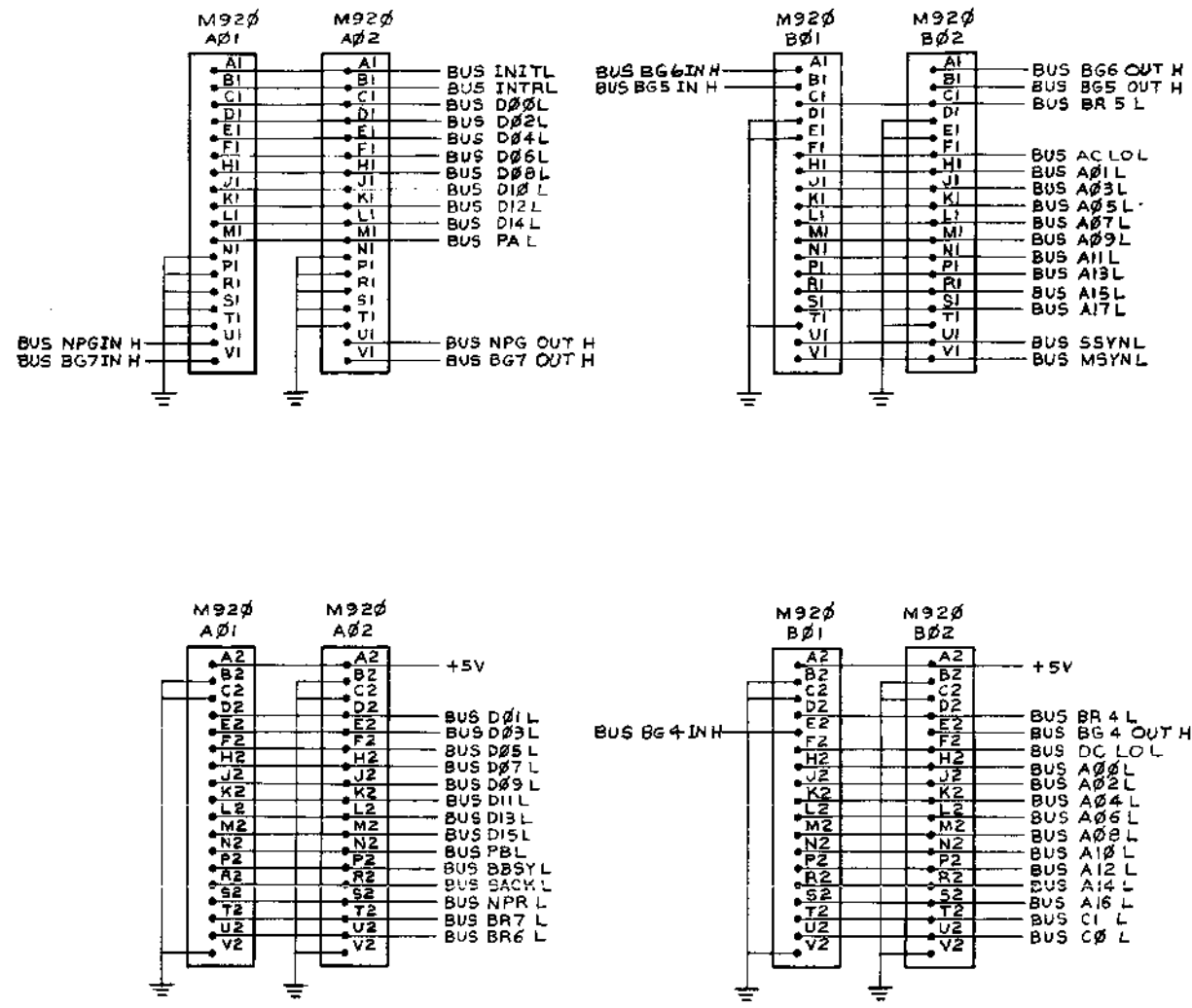
* NOTES:
1. TERMINATOR CARDS (G723) LOCATED IN C31, C32 & D32 AND G711 IN D31 ARE TO BE REMOVED AND PUT IN THE (DISK BUS OUT) CABLE SLOTS OF THE LAST RSII. INSERT G723'S IN LOCATIONS A25, A26 & B26 AND THE G711 IN LOCATION B25 OF THE LAST RSII.

REV.	CHG.	NO.	DATE	BY
A		1	7-25-72	JENKINS
		2	7-13-72	JENKINS

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RFII				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED: DRN. DATE 6/24/70				
UNLESS OTHERWISE SPECIFIED: DIMENSION IN INCHES: DATE 7-31-70				
TOLERANCES: DATE 9/25/70				
DECIMALS FRACTIONS ANGLES: DATE 9/25/70				
FINAL SURFACE QUALITY: DATE 9/25/70				
REMOVE BURRS AND BREAK SHARP CORNERS: DATE 9/25/70				
MATERIAL: A-ML-RFII-0				
FINISH: ---/				
FIRST USED ON: A-ML-RFII-0				
SCALE: NONE				
SHEET: 1 OF 1				
TITLE: RFII - RSII CABLE INTERFACE			SIZE CODE: D	NUMBER: RFII-0-23
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			REV. A	

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part as the basis for the manufacture or sale of items without written permission.

REV 2
PART NUMBER
D I C
RF11-0-25



NOTE: +5V ON BUS CONNECTOR
NOT TIED TO UNIBUS CABLE

REV	DATE	BY
1	7-12-72	JENKINS
2		
3		
4		
5		
6		
7		
8		

DEL FORM NO
DPS 102A

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DATE	digital EQUIPMENT CORPORATION MILFORD, MASSACHUSETTS		
UNLESS OTHERWISE SPECIFIED	DATE	TITLE		
DIMENSION IN INCHES	DATE	BUS CABLE INTERFACE		
TOLERANCES	DATE	SIZE CODE		
DECIMALS FRACTIONS ANGLES	DATE	NUMBER		
± .005 ± .125 ± 0°30'	DATE	RF11-0-25		
FINAL SURFACE QUALITY	DATE	REV		
REMOVE BURRS AND BREAK SHARP CORNERS	DATE	A		
MATERIAL	NEXT HIGHER ASSY.	SCALE		
FINISH	A-ML-RF11-0	NONE		
		SHEET		
		OF 1		
		DIST.		

REV A
PART NUMBER
D I C
RF11-0-25

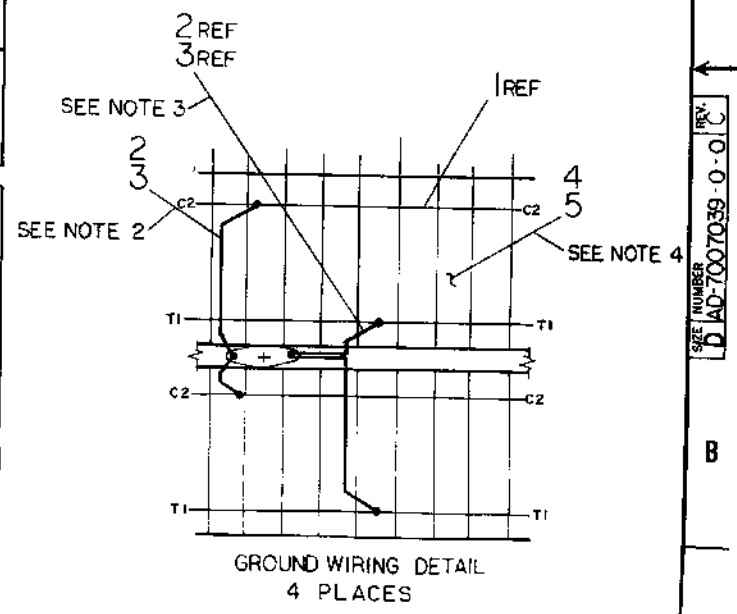
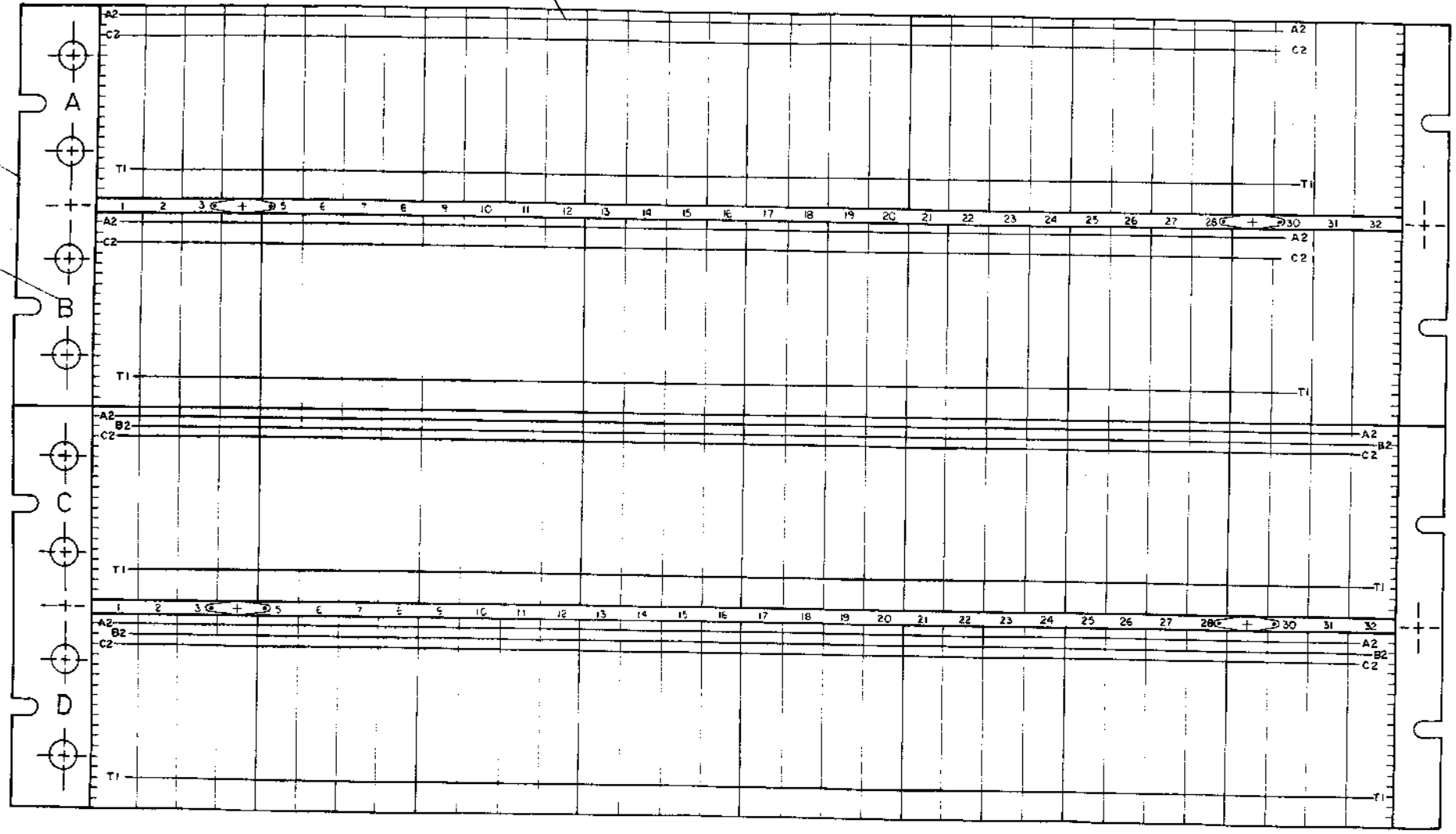
This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

0-0-6807002-00

ITEM NO	CONNECTION FROM	CONNECTION TO	REMARKS
8	D24E2	D24C2	RESISTOR
8	D24R2	D24T1	RESISTOR
9	A26R2	A26T1	RESISTOR
10	D13L2	D13M2	CAPACITOR
11	C11L2	C11M2	CAPACITOR
12	A28L2 *	A28M2	CAPACITOR
13	A28E2	A28A2	RESISTOR
14	D13E2	D13A2	RESISTOR
15	C11E2	C11A2	RESISTOR
9	A28T2	D28A2	RESISTOR

* DENOTES POSITIVE SIDE

- NOTES:
- CONNECTIONS ON ITEM NUMBER 1 & 2 TO BE LOCATED AND SOLDERED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS.
 - ALL CONNECTOR BLOCKS TO BE GROUNDED TO GROUND LUGS AS SHOWN, 4 PLACES.
 - JUMPER GROUND BUSSING AS SHOWN, 8 PLACES.
 - USE YELLOW WIRE (ITEM #4) FOR MACHINE WRAPPED AND BLUE WIRE (ITEM #5) FOR HAND WRAPPED WIRING.
 - USE HEAT SHRINKABLE TUBING OVER TERM-POINT CONNECTORS.



REV.	CHG. NO.	DATE	BY	APP.
A	00004	1-15-71	E. L. JENKINS	
B	00007	5-20-72	JENKINS	
C	00008	5-20-72	JENKINS	
D	00009	7-17-72	JENKINS	

FIRST USED ON OPTION/MODEL RF II	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DO NOT SCALE DRAWING	DATE	PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DATE	digital EQUIPMENT CORPORATION		
TOLERANCES	DATE	MAYNARD, MARCHAND & CO.		
FINAL SURFACE QUALITY	DATE	TITLE		
REMOVE BLURS AND BREAK SHARP CORNERS	DATE	WIRED ASS'Y		
MATERIAL	DATE	RF II		
FINISH	DATE	C-AD-7007040-0-0		
SCALE NONE	DATE	SIZE CODE	NUMBER	REV.
SHEET OF 1	DATE	D AD 7007039-0-0	D AD 7007039-0-0	C

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 5/11/72

TITLE RF11/RS11 CALIBRATION PROCEDURE

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG Steve Jenkins	APPD <i>Steve Jenkins</i>	SIZE A	CODE SP	NUMBER RF11-0-38	REV
----------------------	------------------------------	-----------	------------	---------------------	-----

DEC FORM NO. DRA 107

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE RF11-RS11 CALIBRATION PROCEDURE

TABLE OF CONTENTS

	PAGE
1.0 General Information	3
1.1 Introduction	3
1.2 General Description of Calibration Procedure	3
1.3 Preliminary Preparations	5
1.4 Troubleshooting Tips	5
2.0 RS11 Calibration Procedure	6
2.1 G085 Adjustment Techniques	6
2.2 Timing Track Calibration	8
2.3 Data Track Gain Calibration	8
2.4 Data Track Slice Calibration	9
3.0 RF11 Control Adjustments	13
3.1 Variable Delay Adjustments	13
3.2 Fixed Delay Verification	14
4.0 How To Use The Timing Track Writer	15
5.0 Surface Modulation Measurement	16
6.0 Multi-Disk Program Description	17
6.1 Control Switch Settings	18
6.2 Stamp Test	18

SIZE A	CODE SP	NUMBER RF11-0-38	REV
-----------	------------	---------------------	-----

DEC FORM NO. DEC 16-(381)-1022-N370
DRA 108

TITLE RF11/RS11 CALIBRATION PROCEDURE

1.0 GENERAL INFORMATION

1.1 INTRODUCTION

This procedure is intended to supplement the information given in the RF11/RS11 DECdisk System Maintenance Manual. It is assumed that the reader is familiar with the general theory of operation and maintenance procedure for the RS11.

The primary purpose of this procedure is to specify the technique to be used in calibrating the G085 Disk Read Amplifier and Slice Modules in the RS11. A further goal is to give the user an understanding of the reasons behind the procedures so that he can use them with confidence.

Also included in this procedure is a method of verifying all the fixed delays in the RF11 control logic.

1.2 GENERAL DESCRIPTION OF CALIBRATION PROCEDURE

The RS11 Fixed Head Disk uses the Non-Return-to-Zero (NRZ) recording technique which means that the track magnetization is reversed everytime a binary one is recorded. No reversal occurs when recording a binary zero, i.e., nothing at all is done to the track. When reading a track, the flux reversals (binary ones) are detected by the head and appear as positive or negative pulses at the output of the sense amplifier. Binary zeros, of course, do not develop any signals. In the ideal case, data read from the disk would produce a clean signal as shown in Figure 1A. A regular data pattern such as alternating ones and zeros does, in fact, produce a signal very close to the ideal. However, experience has shown that a complex data pattern produces an extremely noisy signal as shown in Figure 1B. Since the noise depends on the data, the only reliable method of calibrating a disk is with a diagnostic that simulates a realistic data pattern.

The calibration procedure has two objectives: to maximize the good signal region and to achieve the widest possible margins against noise. The best method of reaching these goals is to use a procedure as follows (see Figure 2):

1. Check the "zero" noise level.
2. Check the "one" noise level.

TITLE RF11/RS11 CALIBRATION PROCEDURE

3. Calculate the Figure of Merit (FM) and the signal region (Δ).
4. Put an AGC-jumper on the shoe containing the track that caused the first error in Step 2.

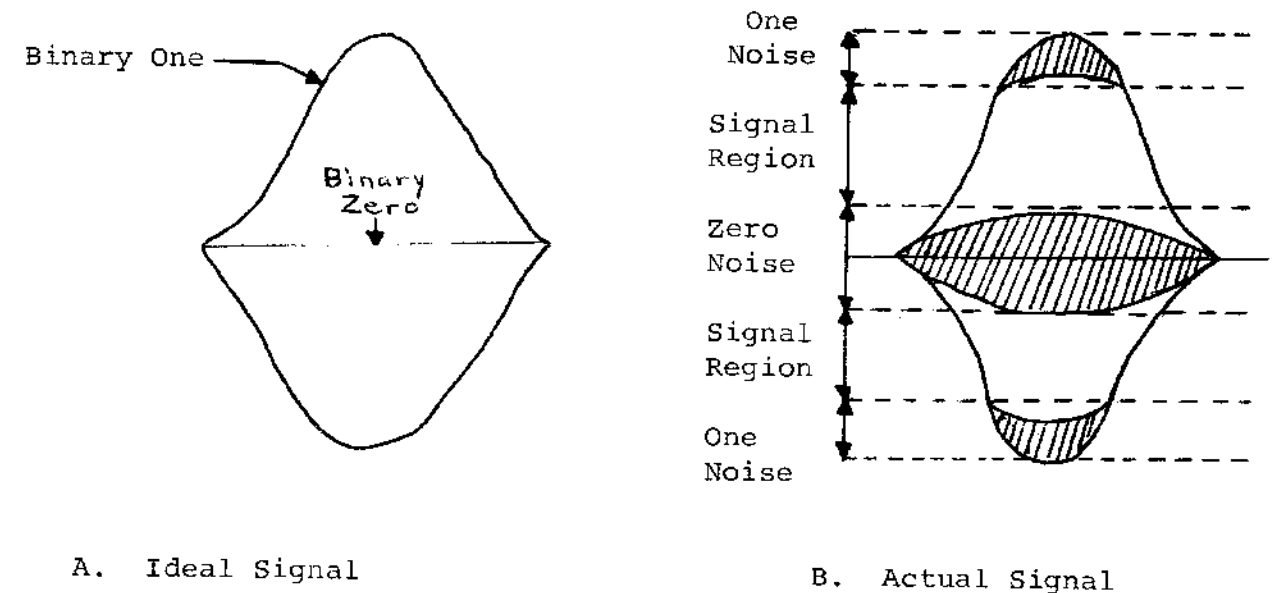


Figure 1: Sense Amplifier Output Signal - Ones & Zeros Superimposed

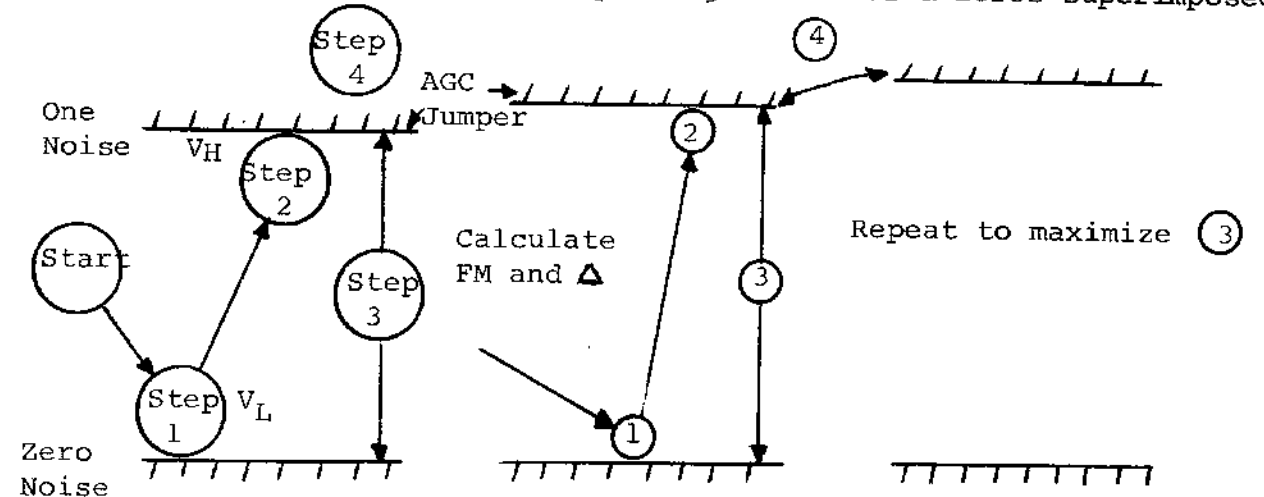


Figure 2: RS11 Setup Procedure

SIZE A	CODE SP	NUMBER RF11-0-38	REV
-----------	------------	---------------------	-----

SIZE A	CODE SP	NUMBER RF11-0-38	REV
-----------	------------	---------------------	-----

ENGINEERING SPECIFICATION

00000

CONTINUATION SHEET

TITLE RF11/RS11 CALIBRATION PROCEDURE

5. Repeat steps 1 to 4 until the FM and signal region are maximized.
6. Set the slice at the midpoint of the signal region.

The adjustment potentiometers on the G085 module have been modified to simplify the procedure. The gain adjustment pot has been changed so that all disk surfaces, whether high or low output, can be set to produce the same size signal out of the sense amplifier. The range of the slice adjustment pot has been increased so that it is possible to measure both the "zero" noise level and the "one" noise level without adjusting the gain pot. As a result, the gain need be set only once at the beginning of the procedure.

1.3 PRELIMINARY PREPARATIONS

Before using this calibration procedure, insure that the following steps have been taken:

1. All G085 modules have been retrofitted to Revision (f).
2. Spot check the head output signals to see if they agree with the readings on the original Head Data Sheet.
3. If the surface or any shoes have been replaced, fill out a new Head Data Sheet according to the procedures in the Maintenance Manual.
4. Have on hand a copy of the RF11 MULTI-DISK Diagnostic (MAINDEC-11-DZRFA-A or later). This program contains switch selectable features for use in the calibration procedure. Complete operating instructions are included in the program writeup and in section 6.0 of this procedure for convenience.

1.4 TROUBLESHOOTING TIPS

In order to calibrate an RS11 successfully, it is necessary to have a uniform disk surface and a set of shoes that are well matched and adjusted. In many cases, an excessive error rate may be due to a bad spot on the surface or a degraded or mis-adjusted shoe. If the disk has a high error rate that cannot be corrected by recalibrating the gain and slice adjustment, then it may be necessary to replace the surface or a shoe. To localize the problem area, take the following steps:

SIZE	CODE	NUMBER	REV
A	SP	RF11-0-38	

ENGINEERING SPECIFICATION

00000

CONTINUATION SHEET

TITLE RF11/RS11 CALIBRATION PROCEDURE

1. Determine the troublesome tracks from the error printouts on the teletype.
2. Inspect the individual tracks using the Stamp Test.
3. If the surface modulation is too great for any track (more than 20%) or if there is a spot on the track with a low output signal, replace the surface. Surface modulation measurement is described in Section 5.0 of this procedure.
4. If the surface appears to be within specification, compare the tracks within a particular shoe. If the range of head outputs within the same shoe differs by more than 25%, replace the entire shoe.

2.0 RS11 CALIBRATION PROCEDURE

2.1 G085 ADJUSTMENT TECHNIQUES

CAUTION

All probes and oscilloscopes must be calibrated and compensated before making any adjustments. A ground strap should be connected from the oscilloscope to the RS11 chassis. The oscilloscope should be plugged into the 855 Power Control in the rear of the first disk cabinet.

To initiate G085 adjustment, place Channel A oscilloscope probe on the signal output of G085 pin A-T and the ground strap on pin A-C. For Channel B, place the oscilloscope probe on the slice output of the G085 pin B-E and the ground strap on pin B-C. The following steps list the procedures for gain adjustment and slice adjustment.

Gain Adjustment

Step	Procedure
1	Set oscilloscope time base to 5 ms/cm and trigger on line. Set input switch to dc and mode to CH-1.
2	Point A is lowest point (smallest peak-to-peak value). Point B is highest point (largest peak-to-peak value).

SIZE	CODE	NUMBER	REV
A	SP	RF11-0-38	

- 3 Place point A on a reference line and the number of centimeters between point A and point B times V/cm is the average peak-to-peak voltage (see Figure 3) for this signal. Adjust the potentiometer located on the A section of the G085 Module for the desired value.

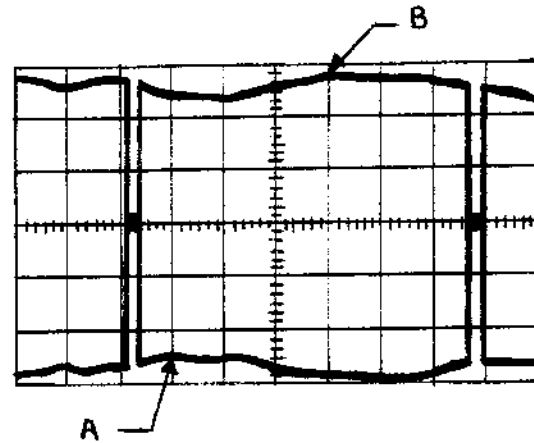


Figure 3: Average Gain Measurement

Slice Adjustment

- | Step | Procedure |
|------|--|
| 1 | Set oscilloscope trigger to line, time base to 5 ms/cm, and mode to ADD. Add the two signals together on a 1 V/cm scale and set center line on the base line (see Figure 4). |

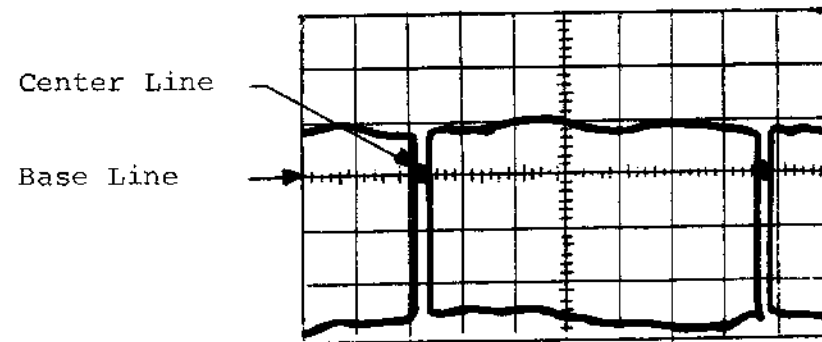


Figure 4: Average Slice Measurement

SIZE	CODE	NUMBER	REV
A	SP	RF11-0-38	

- 2 Decrease the time base and read the amplitude of point A (see Figure 5). This value is the slice measurement. Set the slice by adjusting the potentiometer on the B section of the G085 Module.

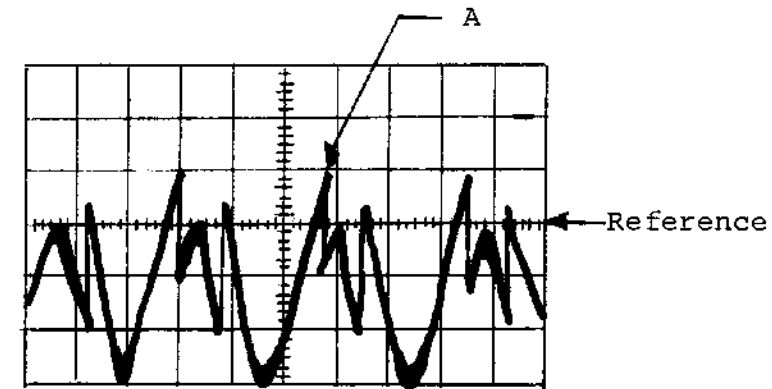


Figure 5: Slice Measurement

2.2 TIMING TRACK CALIBRATION

If necessary, rewrite timing tracks on the disk surface. Operation of the RS09-TA Timing Track writer is described in Section 4.0 of this procedure.

Adjust the three timing track read amps for 6 volts average peak-to-peak gain and 1.4 volt slice. The locations of the timing track read amps in the RS11 logic rack are as follows:

- ATT - G085 module in A02-B02;
- BTT - G085 module in A03-B03;
- CTT - G085 module in A04-B04.

2.3 DATA TRACK GAIN CALIBRATION

NOTE: A method for finding the average track of each matrix is described below. It is recommended that when performing this calibration procedure this be done. However, if head readings have recently been taken or if spot checking reveals

SIZE	CODE	NUMBER	REV
A	SP	RF11-0-38	

TITLE RF11/RS11 CALIBRATION PROCEDURE

that head measurements coincide with the readings on the existing Head Data sheet it is unnecessary to repeat the readings. In which case the average track will already be indicated and steps 6 and 7 need only be performed.

1. Make sure all AGC jumpers have been removed.
2. Write a 125252 pattern on the entire disk surface using the RF11 DATA-TEST diagnostic or the new MULTI-DISK diagnostic.
3. Using the STAMP portion of the diagnostic, adjust the lower track in each matrix (Track 0 and Track 100) to 6.0 volts peak-to-peak. The location of the data read amps in the RS11 logic panel is as follows:

MATRIX 0 - G085 module in A05-B05;

MATRIX 1 - G085 module in A07-B07.
4. Using the STAMP portion, record the average peak-to-peak voltage for each head (0-177) on the Head Data sheet.
5. Find the average track in Matrix 0, that is a track which is within 10% of the mean peak-to-peak voltage for that matrix where

$$A_{MEAN} = \frac{A_{MAX} + A_{MIN}}{2}$$

Record this value on the Calibration Record Sheet (Figure 6).

6. Adjust the gain of the average track to 6 volts peak-to-peak and the slice to 1.4 volts.
7. Repeat Steps 5 and 6 for Matrix 1.

NOTE: Do not readjust gain during the rest of the calibration procedure.

8. Take all Head readings and record on the Final Head Data Sheet. (This will provide a reference for determining head deterioration.)

2.4 DATA TRACK SLICE CALIBRATION

SIZE	CODE	NUMBER	REV
A	SP	RF11-0-38	

TITLE RF11/RS11 CALIBRATION PROCEDURE

- 2.4.1 The Data Track Slice Calibration procedure is repetitive and has the overall objective of maximizing the signal region and the Figure of Merit for the disk. The procedure will be described for Matrix 0 though it can be performed on both matrices simultaneously to save time. Note that the low failing track found on the first pass will be considered the reference track. All subsequent slice voltage readings will be taken from this track. Since the reference track exhibits the highest "zero" noise level, do not put an AGC jumper on its shoe; to do so would increase the "zero" noise level.
- 2.4.2 To calibrate the Data Track Slice Adjustment, perform the following steps:
 1. Run the MULTI-DISK Program in the Random Pattern, Non-Save Mode.
 2. Carefully reduce the Slice voltage on Matrix 0 and find the one low failing point. Increase Slice slightly until the program just runs error free. This test finds the "zero" noise level illustrated above. Record the number of the track that caused an error on the Calibration Record Sheet, as the reference track.
 3. Stop the Random Mode program and write the pattern 125252 and restart the Stamp Test, selecting the reference track (i.e., the track found in Step 2 on the first pass). Record the low slice voltage level (V_L). (On the first pass, also measure and record the Gain of the reference track.)
 4. Restart MULTI-DISK Prog. Random Non-Save Mode. Carefully increase the slice voltage and find the one high failing point. Reduce slice slightly until the program just runs error free. This test finds the "one" noise level illustrated above.
 5. Write 125252 PATTERN and restart the Stamp Test, selecting the reference track. Record the high failing track number and the high slice voltage (V_H).
 6. Install an AGC jumper on the shoe containing the high failing track found in Step 4 and record the jumper location (see Table 1).

SIZE	CODE	NUMBER	REV
A	SP	RF11-0-38	

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE RF11/RS11 CALIBRATION PROCEDURE

7. Calculate and record the Figure of Merit (FM) and the Signal Region (Δ), where:

$$FM = \frac{V_H - V_L}{V_H + V_L}$$

and $\Delta = V_H - V_L$.

8. Repeat steps 1 through 7 until Δ is maximized. If Δ decreases significantly on a subsequent pass, remove the previous AGC jumper.
9. The following figures are the minimum acceptable results in calibrating the RS11. In actual practice, a disk with a good surface and well matched shoes will surpass these figures by a wide margin. Since the goal of the calibration procedure is to maximize disk performance, every effort should be made to exceed these figures.

Minimum FM = 0.4

Minimum Δ = 1.3 volts

Maximum V_L = 1.0 volts

10. When Δ has been maximized, calculate and record the final slice voltage setting (V_F) using the data from the last pass, where:

$$V_F = \frac{V_H + V_L}{2}$$

Set the slice voltage to V_F on the reference track and record this value plus the reference track gain on the tag attached to the DISK enclosure.

11. Repeat the procedure for Matrix 1.

SIZE A	CODE SP	NUMBER RF11-0-38	REV
------------------	------------	---------------------	-----

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE RF11/RS11 CALIBRATION PROCEDURE

Figure 6: RS11 CALIBRATION SHEET

RS11 SN _____ Disk Type _____ SN _____ DATE _____

Use Random Pattern (Non-Save Mode) while making adjustments. Use Stamp Test (125252 pattern) while taking Slice Voltage Readings.

Matrix 0

Average Track # _____ Reference Track Gain _____ volts

Reference Track # _____

Pass	Low Track #	Low Slice Voltage V_L	High Track #	High Slice Voltage V_H	FM	Δ	AGC Jumper

Final Slice Setting $V_F = \frac{V_H + V_L}{2} =$

Matrix 1

Average Track # _____ Reference Track Gain _____ volts

Reference Track # _____

Pass	Low Track #	Low Slice Voltage V_L	High Track #	High Slice Voltage V_H	FM	Δ	AGC Jumper

Final Slice Setting $V_F = \frac{V_H + V_L}{2} =$

SIZE A	CODE SP	NUMBER RF11-0-38	REV
------------------	------------	---------------------	-----

ENGINEERING SPECIFICATION

019133

CONTINUATION SHEET

TITLE RF11/RS11 CALIBRATION PROCEDURE

RS11 Calibration Sheet cont.

$$FM = \frac{V_H - V_L}{V_H + V_L} ; \text{ Minimum FM} = 0.4$$

$$\Delta = V_H - V_L ; \text{ Minimum } \Delta = 1.3 \text{ volts}$$

Maximum $V_L = 1.0$ volts

Table 1: AGC Jumper Locations

Shoe No.	Pin		Matrix 0 Gain	Matrix 1 Gain
XX0	B17 M		B20 D	B20 K
XX1	B17 N		B20 E	B20 L
XX2	B17 P		B18 D	B18 L
XX3	B17 R	To Matrix 0	B18 E	B18 M
XX4	B17 S	Gain or Matrix 1	B18 H	B18 P
XX5	B17 T	Gain	B18 J	B18 R
XX6	B17 U			
XX7	B17 V			

NOTE: Track XYZ_g is where X = matrix (0 or 1),
 Y = track on each shoe (0-7),
 Z = shoe.

3.0 RF11 CONTROL ADJUSTMENTS

The RF11 Disk Controller consists of only two adjustable delays. All other delays in the control are preset. Since the diagnostic programs do not check delays it may be necessary from time to time in the process of troubleshooting to verify these delays. Therefore, for convenience and completeness, this procedure will also describe the method of verification of these delays.

3.1 The following is a procedure for checking and/or adjusting the two adjustable delays in the control. These delays are I/O STR-1 and I/O STR-2.

SIZE **A** CODE SP NUMBER RF11-0-38 REV

ENGINEERING SPECIFICATION

019133

CONTINUATION SHEET

TITLE RF11/RS11 CALIBRATION PROCEDURE

- | Step | Procedure |
|------|--|
| 1 | Load the RF11 STATIC TEST Diagnostic and load address 200, start, and then halt. |
| 2 | Load address at 370, set bit 11 to a 1 in the Switch Register and start. |
| 3 | Connect oscilloscope probe to A19F1. Trigger on A channel with positive trigger slope. |
| 4 | Adjust bottom potentiometer on M302 module in location C10 for a 250 ns pulse. |
| 5 | Connect oscilloscope probe to A25J2. Trigger on A channel with positive trigger slope. |
| 6. | Adjust upper potentiometer on the M302 module in location C10 for a 300 ns pulse. |

3.2 Verification of all fixed delays can be made using the RF11 STATIC TEST Diagnostic. Before selecting the program section specified it is necessary to start the program at location 200 and Halt. Set bit 11 in the Switch Register to a 1 to loop on the section.

Delay	Program Starting Address	Sync + Channel A	Check Channel B	Limits
ATP Noise Suppressor	370	D24F2	---	1.2 us $\pm 20\%$
ATN Noise Suppressor	370	D24T2	---	1.2 us $\pm 20\%$
DR DLY	404	C19E1	D13T2	5 us $\pm 20\%$
RD DIS	320	B24R2	C11T2	350 us $\pm 20\%$
PSLER	374	A23F1	A26T2	1.5 us $\pm 20\%$
SEQER	424	B22U1	A26F2	500 us $\pm 20\%$
NEM	440	B07N1	B07K1	≥ 20 us
NPC STR-1	460	B07R2	---	≥ 150 ns

SIZE **A** CODE SP NUMBER RF11-0-38 REV

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE RF11/RS11 CALIBRATION PROCEDURE

NPC STR-2	460	B07M2	---	300 ns $\pm 20\%$
MXF	430	B28B1	A27V2	130 ms $\pm 20\%$

NOTE: For verification of MXF Delay, it is necessary to ground pin A27-A1 by placing a jumper from it to A27-C2. To delete error typeout, set bit 14 in the Switch Register to 1.

4.0 HOW TO USE THE TIMING TRACK WRITER RS09TA

RS09 Timing Track Writer Usage

1. Remove the DC voltage from the RS11 logic. This may be accomplished by turning the power off at the Power Control Unit. The AC power to the disk unit and purge unit must remain on.
2. Remove the timing track cable from the RS11 unit. The cable is located in SLOT A1 of each RS11.
3. Remove the cover from the RS09 Timing Track Writer and remove the DC wiring cable from the box. The DC wiring cable contains four wires with HEYCO Tab connectors on the ends. The wires are:

a. Yellow	+20 volts
b. Red	+10 volts
c. Blue	-15 volts
d. Black	GND

Mount the Timing Track Writer box in the cabinet via the holding pins on the rear of the tester box. These pins should slide into the pre-punched holes in the cabinet frame directly above the RS11 logic. Insert the DC power cable for the Timing Track Writer between the disk unit and the disk logic. The cable will plug into the DC power bus on the rear of the RS11's disk chassis. Insert the individual wires into the proper voltages as indicated on the rear of the RS11 chassis. All wires and tabs are color coded for easy identification.

4. Insert the Timing Track cable from the disk into the slot provided in the front of the tester. NOTE: This cable is a

SIZE	CODE	NUMBER	REV
A	SP	RF11-0-38	

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE RF11/RS11 CALIBRATION PROCEDURE

dual connector and may be plugged in on either side.

5. Turn power on. DC power should now be applied to the RS11 logic as well as the tester.
6. Select the switch setting for the proper disk motor speed, i.e., RF11 50 or 60 cycles.

NOTE: Complete steps 7 through 9 as quickly as possible after turning the WRITE VOLTAGE switch ON. Failure to do so will damage the head center tap resistors which are inside the disk enclosure.

7. Set the write voltage enable switch on the front panel to the on position. The red indicator light should come on.
8. Press the write button under the selector switch to begin the actual writing. The Timing Track Writer will automatically recycle if the gap is not correct and will indicate this via a flashing INC (increase) or DEC (decrease) light. Slowly turning the knob in the direction indicated by these lights will result in a properly written Timing Track and be indicated via the OK light. Push the WRITE button once more without adjusting the knob. The OK light should come on without flashing either the INC or DEC lights. Minor adjustment may be necessary in order for this requirement to be met.
9. Set the write voltage switch to off.
10. Turn DC power off and remove the DC power lines from the tester to the RS11. Timing tracks should now be properly recorded.
11. Plug the Timing Track cable from the disk enclosure back into slot A01 of the RS11 Logic Panel.

5.0 SURFACE MODULATION MEASUREMENT

This test is performed on the A timing track only. Surface modulation is the result of variations in the properties of the surface around the disk. It is measured using the following procedure:

SIZE	CODE	NUMBER	REV
A	SP	RF11-0-38	

ENGINEERING SPECIFICATION

070101

CONTINUATION SHEET

TITLE RF11/RS11 CALIBRATION PROCEDURE

- | Step | Procedure |
|------|--|
| 1 | Connect a calibrated oscilloscope probe to pin A02T of the RS11 (A timing track read amplifier). |
| 2 | Connect the oscilloscope ground strap to A02C. |
| 3 | Place the oscilloscope setting on dc, trigger on LINE, and time base to 5 ms/cm. |
| 4 | Measure V_{max} pp and V_{min} pp, as shown in Figure 7. |

Surface modulation =

$$\frac{V_{max} \text{ PP} - V_{min} \text{ PP}}{V_{max} \text{ PP} + V_{min} \text{ PP}} \times 100$$

Surface modulation should be less than 20%.

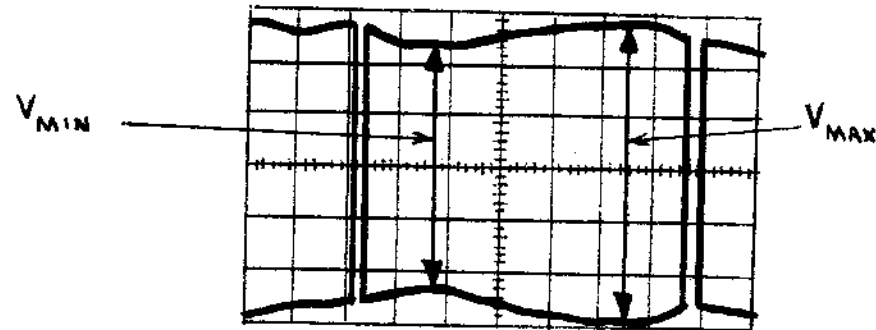


Figure 7: Surface Modulation

6.0 MULTI-DISK PROGRAM DESCRIPTION

Multi disk was designed to insure the user that the disk system is capable of transferring data correctly while not destroying the users programs on the disk surface. The program first reads from the disk. The length of the transfer is determined by the size of memory. If an error occurs while reading, the program will make up to three attempts at reading the data. If the program successfully reads from the disk within the three attempts, it will then generate a random buffer, write it on the disk, and read it back and verify it. After comparing the data, the program then writes the original data back on the disk, making up to three attempts to transfer if an error is encountered, before

SIZE	CODE	NUMBER	REV
A	SP	RF11-0-38	

ENGINEERING SPECIFICATION

070101

CONTINUATION SHEET

TITLE RF11/RS11 CALIBRATION PROCEDURE

halting. If the data was successfully transferred, the program will go to the next disk buffer until the complete disk system is exercised.

NOTE: Each write is followed by a write check.

The use of Multi-Disk for the calibration procedure takes advantage of it's ability to generate random patterns.

6.1 CONTROL SWITCH SETTINGS

To facilitate the calibration procedure the use of operational switch settings have been incorporated in the original Multi-Disk program. This new Multi-Disk is MAINDEC-11-DZRFA.

The following switches are used:

- | | | |
|------|-------|---|
| SR15 | Set | Enter non-restore mode. |
| | Reset | Save and restore disk information while testing random patterns. |
| SR14 | Set | Ring bell on error. |
| | Reset | Report errors on teletype. |
| SR13 | Set | Omit random data pattern and operate with fixed pattern (125252). |
| | Reset | Select random data. |
| SR12 | Set | Select disk from SR9 through SR7. |
| | Reset | Sequence through Disks. |
| SR11 | Set | Select Matrix from SR6. |
| | Reset | Exercise both Matrixes. |
| SR10 | Set | Select track number from SR5 through SR0. |
| | Reset | Sequence through tracks. |

6.2 STAMP TEST

The Stamp Test portion of Multi-Disk allows the operator to statically select any track on any disk. This enables the user to read gain and slice information for that particular head. The starting address is location 210 and the following switches are functional:

SIZE	CODE	NUMBER	REV
A	SP	RF11-0-38	

ENGINEERING SPECIFICATION**000000**

CONTINUATION SHEET

TITLE RF11/RS11 CALIBRATION PROCEDURE

Switch Register

15	14	13	12	11	10	|	9	8	7	|	6	5	4	3	2	1	0
NOT USED							Disk Selection				Track Selection						

SIZE
ACODE
SPNUMBER
RF11-0-38

REV

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ACCESSORY LIST

LEGEND

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

QUANTITY / VARIATION

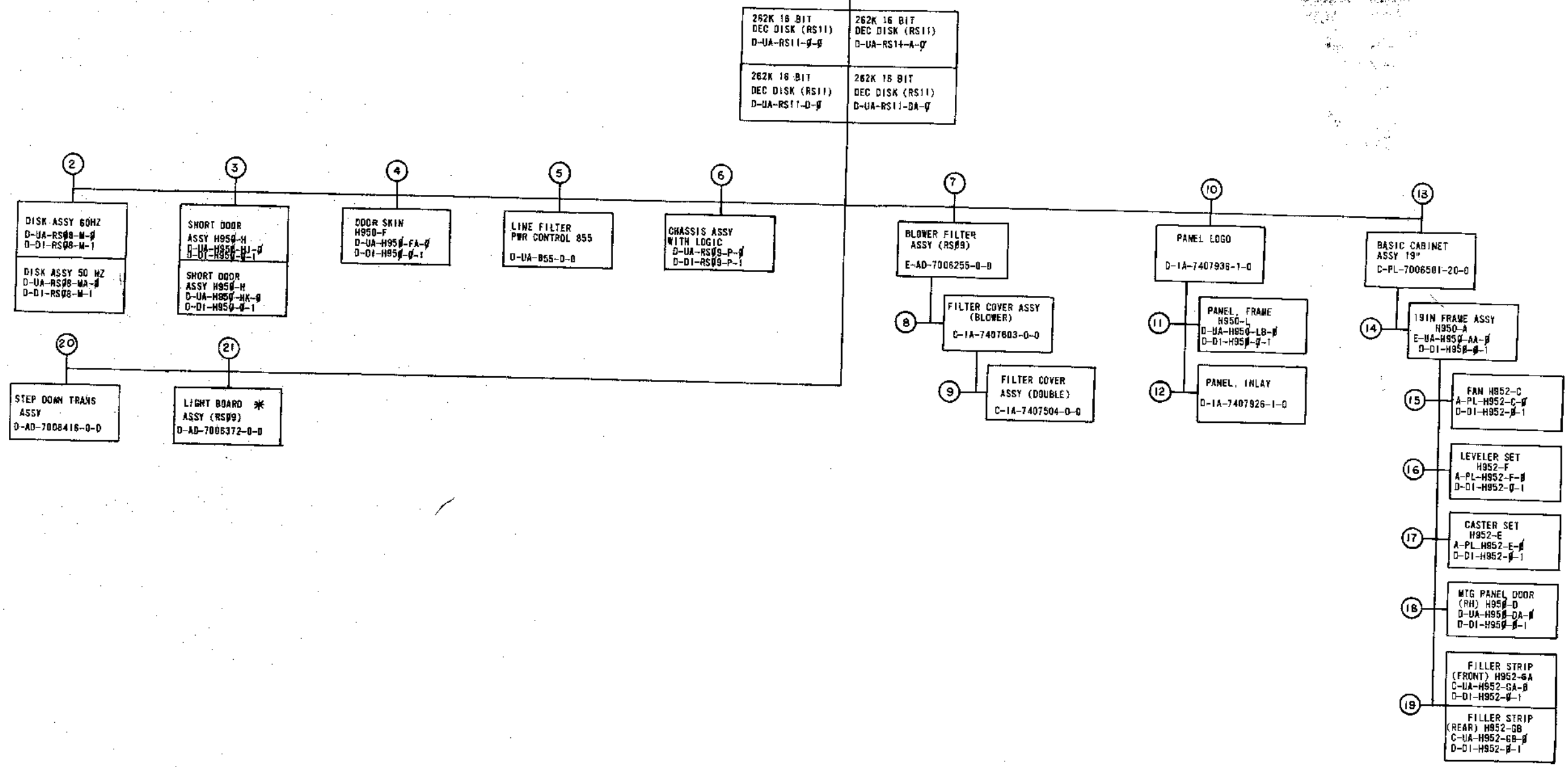
MADE BY *C. S. ...* CHECKED *7-13-71* SECTION
DATE *7/13/71* DATE *L. P. ...*
ENG *...* PROD ISSUED SECT.
DATE *7-17-71* DATE

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION		KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE
			60 HZ	50 HZ						
1.	RF11-0-0	PRINT SET	1	1						
2.	RS11-0-0	PRINT SET	1	-						
3.	RS09-P	PRINT SET	1	1						
4.	RS09-0-0	PRINT SET	1	1						
5.	C-CS-705-B-1	POWER SUPPLY PRINT	1	1						
6.	C-CS-716-0-1	POWER SUPPLY PRINT	1	1						
7.	RS11-A-0	PRINT SET	-	1						
8.		GROUND STRAP 2'	1	1						
9.	BC11A-10	UNIBUS CABLE	1	1						
10.	LIBKIT-11-RF11-01	SEALED SOFTWARE KIT	1	1						
11.	DEC-11-HRFA-D	RF11/RS11 MANUAL	1	1						
12.	RS08M	PRINT SET	1	-						
13.	RS08MA	PRINT SET	-	1						
14.	C-CS-855-0-1	POWER CONTROL PRINT SET	1	1						
15.	91-7673-09	AC LINE CORD 9'	1	1						
16.	90-8251	MOUNTING HARDWARE	1	1						
17.	RS09P-A	PRINT SET	-	1						
18.	RS09-A-0	PRINT SET	-	1						
		PACKAGING INSTRUCTIONS	1	1						
19.	D-CS-7006156-0-1	POWER CONTROL AND MOTOR CONTROL	1	1						

TITLE DISK FILE AND CONTROL	ASSY. NO.	SIZE CODE A | AL	NUMBER RF11-0-36	REV. A	ECO NO. RF11-00008
SHEET 1 OF 1		DIST			

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part as the basis for the manufacture or sale of items without written permission.

REV. CODE: **DDI** RS11-0-1
 330003205



* NOT A PRODUCTION ITEM-USED FOR TEST ONLY

REV. CHANGES	REV.
CHK	CHAN'G. NO.

FIRST USED ON OPTION/MODEL RS11	DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS AND .ES ± .005 ± 1/64 ± 0.20 FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	DATE 04/26/70 DATE 04/23/70 DATE 11/18/70 DATE 10/17/70 DATE 11/20/70	DATE 04/26/70 DATE 04/23/70 DATE 11/18/70 DATE 10/17/70 DATE 11/20/70	DATE 04/26/70 DATE 04/23/70 DATE 11/18/70 DATE 10/17/70 DATE 11/20/70	DATE 04/26/70 DATE 04/23/70 DATE 11/18/70 DATE 10/17/70 DATE 11/20/70
MATERIAL		NEXT HIGHER ASSY D-UA-RS11-0-0		SCALE NONE	
FINISH		SHEET 2 OF 2		DIST. 6	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
DRAWING INDEX LIST (RS11)			
SIZE CODE	NUMBER	REV.	
DDI	RS11-0-1		

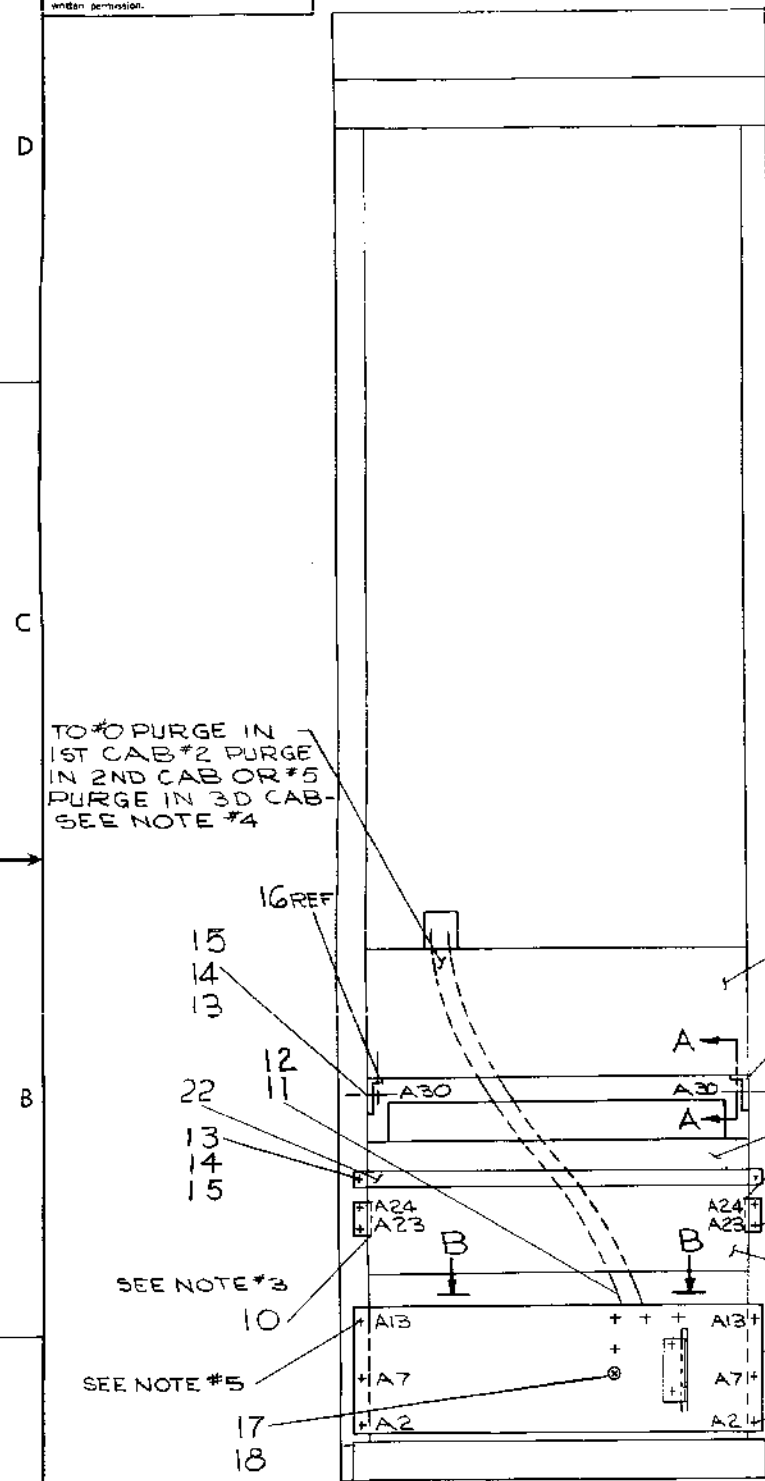
DEC FORM NO. DPO 100

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

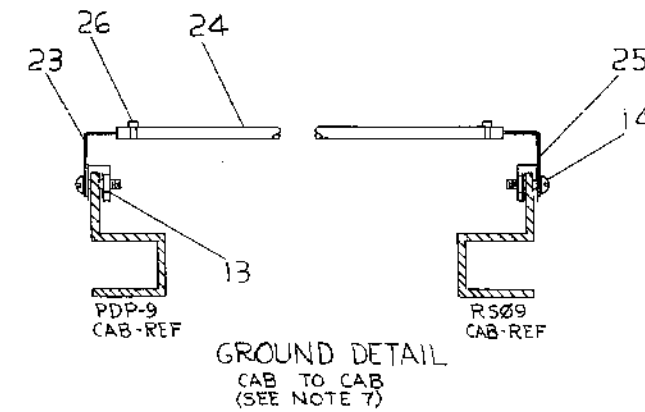
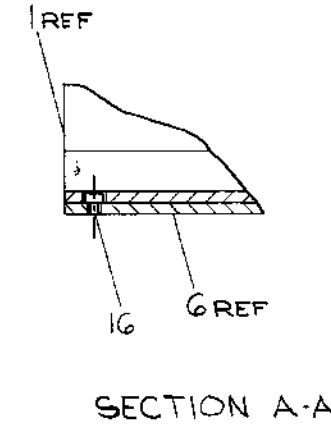
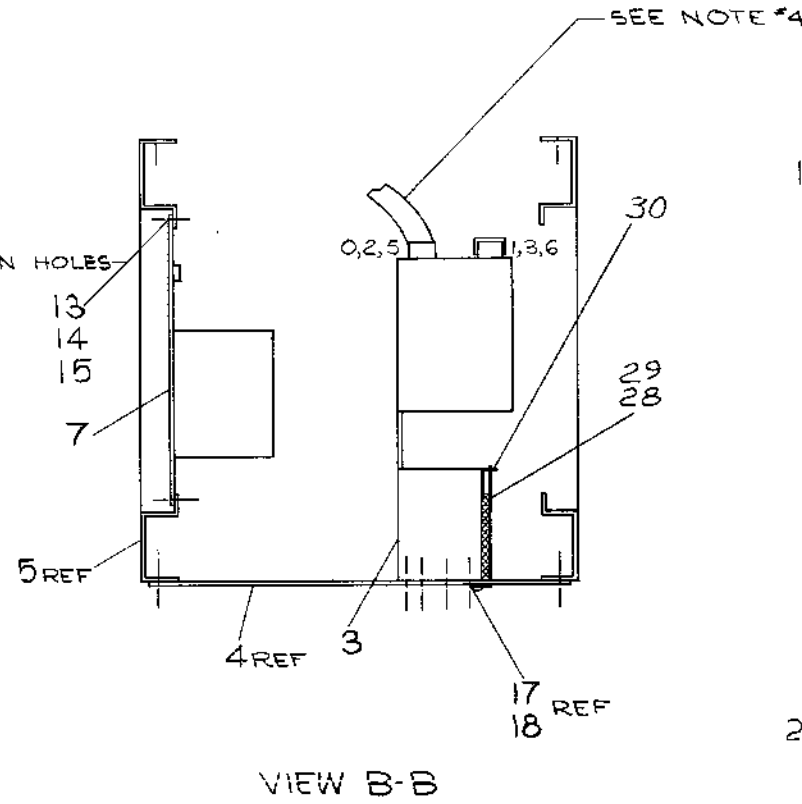
LEGEND	
NUMBER	VARIATION
RS09-0	60 HZ
RS09-A	50 HZ

NOTES:

- FOR DWG INDEX LIST REFER TO DWG D-DI-RS09-0-8.
- PLACE PROPER DECAL ITEM #9 (50 OR 60 HZ) IN SILK SCREENED SQUARE BOX AT REAR OF CHASSIS ASS'Y.
- IF CABINETS ARE MADE OVER SIZE SPACER ITEM #10 SHALL BE USED ON EITHER ONE END OR BOTH ENDS UNDER CHASSIS SLIDES.
- REMOVE CAP & ATTACH HOSE ITEM #12 TO PURGE #00R #2 OR #5 - REFER TO RF09/RS09 ARRANGEMENT DWG #D-AR-RF09-0-37.
- INDICATES LOCATIONS FOR MTG ITEMS 4, 6, 7, - SEE DWG# E-UA-H950-A-0 SHEET #2.
- FOR CABLE ORIENTATION REFER TO MODULE UTILIZATION #D-MU-RS09-0-5 & D-MU-RF09-0-33.
- GROUND STRAP WITH BLACK TUBING AND TIEWRAPS TO BE CONNECTED BETWEEN COMPUTER CAB AND FREE STANDING RS09 CAB.



LOCATED IN HOLES A10 & A11



REV	CHG	NO	BY	DATE
A				
B				
C				

QTY	DESCRIPTION	PART NO.	ITEM NO.																																								
	PARTS LIST																																										
	<table border="1"> <tr> <td>FORM</td> <td>DATE</td> <td>DATE</td> </tr> <tr> <td>CHK'D</td> <td>7/27/70</td> <td>7/27/70</td> </tr> <tr> <td>ENG</td> <td>7/27/70</td> <td>7/27/70</td> </tr> <tr> <td>PROG. ENG.</td> <td>7/27/70</td> <td>7/27/70</td> </tr> <tr> <td>PROD.</td> <td>7/27/70</td> <td>7/27/70</td> </tr> </table>			FORM	DATE	DATE	CHK'D	7/27/70	7/27/70	ENG	7/27/70	7/27/70	PROG. ENG.	7/27/70	7/27/70	PROD.	7/27/70	7/27/70																									
FORM	DATE	DATE																																									
CHK'D	7/27/70	7/27/70																																									
ENG	7/27/70	7/27/70																																									
PROG. ENG.	7/27/70	7/27/70																																									
PROD.	7/27/70	7/27/70																																									
	<table border="1"> <tr> <td colspan="2">FIRST USED ON OPTION/MODEL</td> <td colspan="2">DO NOT SCALE DRAWING</td> </tr> <tr> <td colspan="2">RS09-0</td> <td colspan="2">UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">TOLERANCES</td> </tr> <tr> <td>DECIMALS</td> <td>FRACTIONS</td> <td>ANGLES</td> <td></td> </tr> <tr> <td>= .005</td> <td>= 1/64</td> <td>= 0°30'</td> <td></td> </tr> <tr> <td colspan="4">FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS</td> </tr> <tr> <td colspan="2">MATERIAL</td> <td colspan="2">NEXT HIGHER ASSY</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">A-ML-RS09-0</td> </tr> <tr> <td colspan="2">FINISH</td> <td colspan="2">SCALE NONE</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">SHEET OF</td> </tr> </table>			FIRST USED ON OPTION/MODEL		DO NOT SCALE DRAWING		RS09-0		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-RS09-0		FINISH		SCALE NONE				SHEET OF	
FIRST USED ON OPTION/MODEL		DO NOT SCALE DRAWING																																									
RS09-0		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-RS09-0																																									
FINISH		SCALE NONE																																									
		SHEET OF																																									
	<table border="1"> <tr> <td colspan="2">digital EQUIPMENT CORPORATION</td> </tr> <tr> <td colspan="2">MAYNARD, MASSACHUSETTS</td> </tr> <tr> <td colspan="2">TITLE</td> </tr> <tr> <td colspan="2">262 K 18 BIT DEC DISK (RS09)</td> </tr> <tr> <td>SIZE CODE</td> <td>NUMBER</td> </tr> <tr> <td>DJARS09-0-0</td> <td></td> </tr> <tr> <td>DIST.</td> <td>REV.</td> </tr> <tr> <td></td> <td>D</td> </tr> </table>			digital EQUIPMENT CORPORATION		MAYNARD, MASSACHUSETTS		TITLE		262 K 18 BIT DEC DISK (RS09)		SIZE CODE	NUMBER	DJARS09-0-0		DIST.	REV.		D																								
digital EQUIPMENT CORPORATION																																											
MAYNARD, MASSACHUSETTS																																											
TITLE																																											
262 K 18 BIT DEC DISK (RS09)																																											
SIZE CODE	NUMBER																																										
DJARS09-0-0																																											
DIST.	REV.																																										
	D																																										

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY G. FLANDERS
 DATE 6/30/69
 ENG
 DATE *R. G. Flanders*
 CHECKED D. HEALY
 DATE 7/2/69
 SECTION 1
 ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
1	D-UA-RS08-M-0	DISK ASSY 60 HZ	1
1	D-UA-RS08-MA-0	DISK ASSY 50 HZ	1
2	D-UA-RS09-P-0	CHASSIS ASSY WITH LOGIC	1
3	E-AD-7006255-0-0	BLOWER FILTER	1
4	D-MD-7407235-0-0	PLATE, MTG BLOWER	1
5	A-AD-7006379-0-0	19" CAB ASSY	1
6	B-MD-7407013-0-0	SUPPORT	2
7	* D-AD-7006416-0-0	STEP DOWN TRANS ASSY	1
8	D-UA-055-0-0	TIME FILTER & POWER CONTROL 055	1
9	A-DC-7406707-0-0	POWER PANEL DECAL (60 HZ)	1
9	A-DC-7406707-0-0	POWER PANEL DECAL (50 HZ)	1
* 10	C-MD-7407442-0-0	SPACER, CHASSIS SLIDES	A/R A/R
11	9007779	HOSE CLAMP 1-3/4	2
12	1209470	HOSE 1-1/2 I.D. #CMD#FT-3214-1 VAC-U-FLEX	2
13	9007786	NUT, C31758-1032-27 TINNERMAN	A/RA/R
14	9006073-3	SCR, PHL HD TRUSS #10-32 x 1/2 SST	26 26
15	9007651	WASH, EXT TOOTH #10	26 26
16	9006368	SCR, SOC HD CAP #1/4-20 x 1/4 SST	4 4
17	9006056-3	SCR PH HD TRUSS #1/4-20 x 1/2 SST	6 6
18	9006724	WASH, EXT TOOTH 1/4 I.D.	6 6
REF	D-AR-RF09-0-37	RF09/RS09 ARRANGEMENT DWG	X X
*	NOT A PRODUCTION PART--SEE NOTE 3 ON ASSY D-UA-RS09-0-0		

TITLE
 262K 18 BIT DEC DISK (RS09)
 ASSY NO. D-UA-RS09-0-0
 SIZE CODE A PL
 SHEET 1 OF 2
 NUMBER RS09-0-0
 REV. ECO NO. D RS09-00019

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

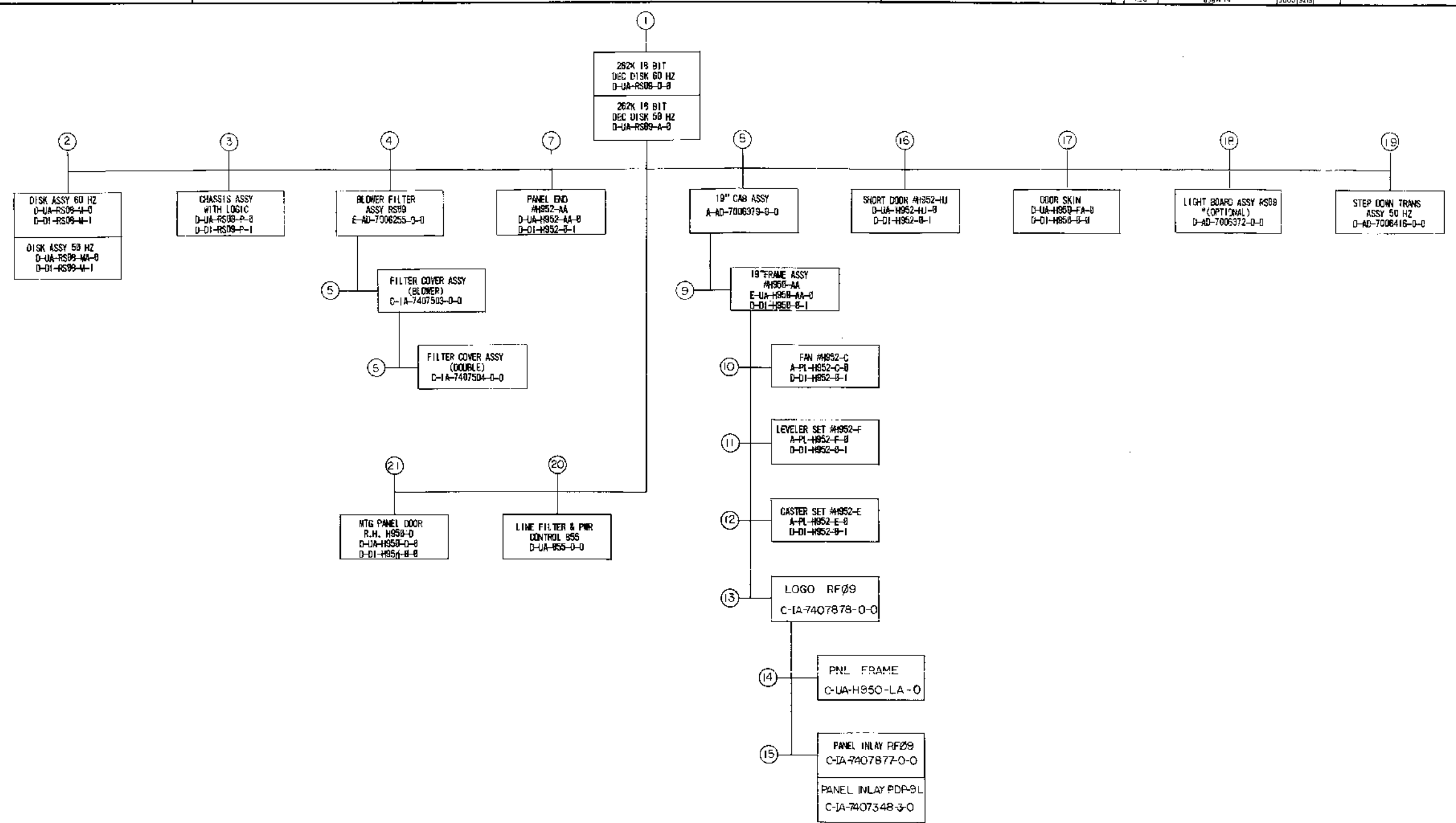
MADE BY G. Flanders
 DATE 6/30/69
 ENG
 DATE *R. G. Flanders*
 CHECKED D. Healy
 DATE 7/2/69
 SECTION 1
 ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
19	C-IA-7006266-1	Cable Line Filter (Female)	1
20	C-IA-7006266-2	Cable Line Filter (Male)	1
21	C-IA-7005820-4-0	Cable W021 to W011 9 FT Long	4 4
22	B-5100	PANEL BLANK 7402025	1 1
23	9107682	CABLE BRAIDED 5/8" x 10 FT LG BELDEN 8672	1 1
24	9107245-00	TUBING 3/8" x 10 FT LG BLK	1 1
25	9007926	CONNECTOR #50321 ARKLESS	2 2
26	9007880	TIEWRAP PANDUIT SST 1.5M	2 2
27	C-IA-7006481-3-0	POWER CORD	1 1
28	D-IA-7409012-0-0	FILTER	1 1
29	D-IA-7409013-0-0	FILTER FRAME	1 1
30	9006022-1	SCR, PHL HD PAN #6-32 X 3/8 SST	2 2
* USE ONLY ON FIRST CAB, 240 VOLTS ONLY			

TITLE
 262K 18BIT DEC DISK (RS09)
 ASSY NO. D-UA-RS-09-0-0
 SIZE CODE A PL
 SHEET 2 OF 2
 NUMBER RS09-0-0
 REV. ECO NO. D

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

9-2-50SMIC 2
3003228



* NOT A PRODUCTION PART - USED FOR TEST PURPOSES ONLY.

REV.	CHANGE NO.	DATE	BY	CHKD.
A	00004	11-24-71	D. VONNADA	
B	00008	11-24-71	D. VONNADA	
C	00014	1-23-72	D. VONNADA	
D	00019	5-16-72	D. VONNADA	
E	00022	5-25-72	D. VONNADA	

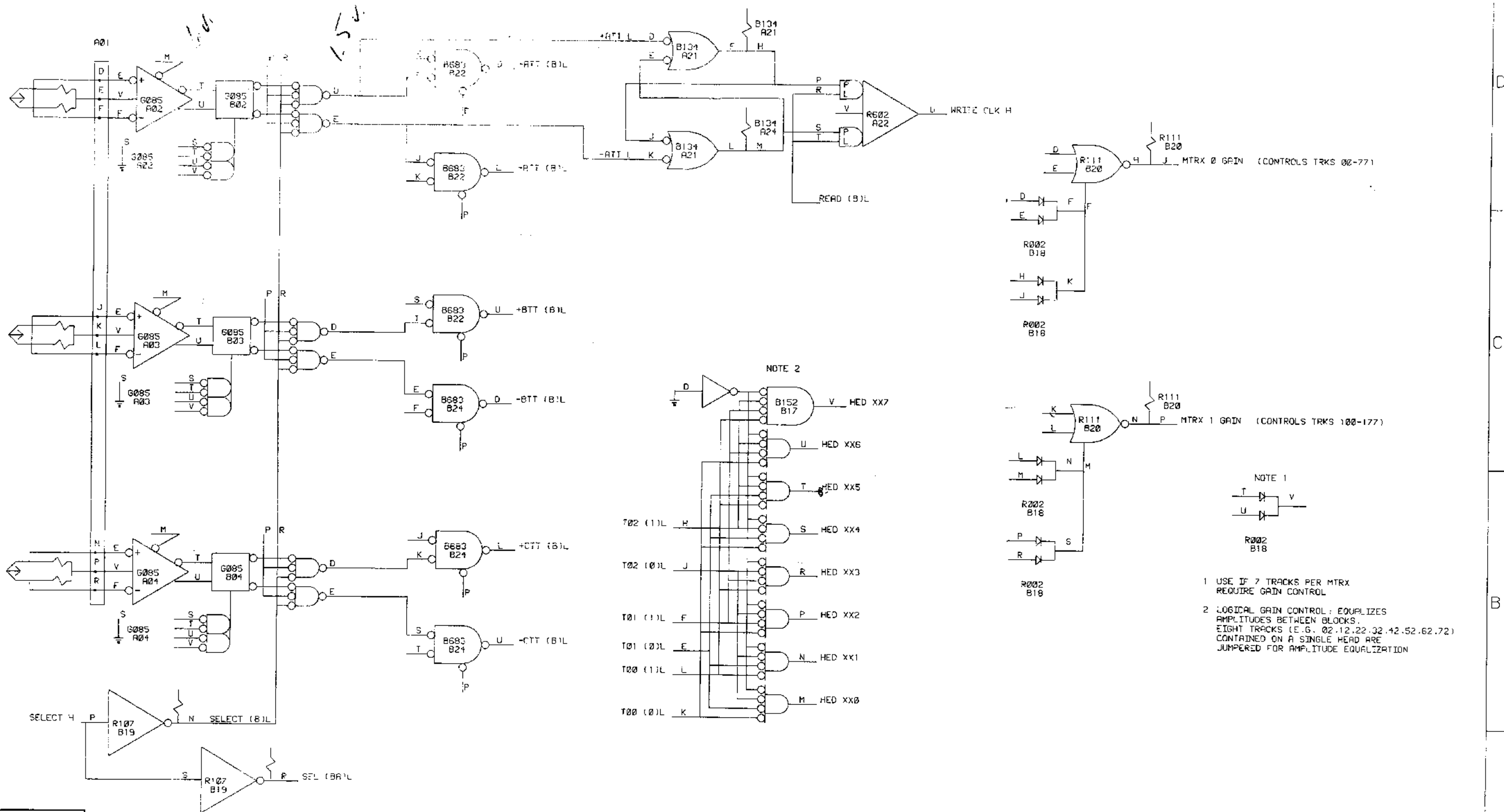
FIRST USED ON OPTION/ MODEL
RS09-0

DRN	DATE	CHKD.	DATE
ENG.	DATE	PROJ. ENG.	DATE
PRD.	DATE		

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
TITLE			
DRAWING INDEX			
LIST RS09-0			
SIZE CODE	NUMBER	REV	
DDI	RS09-0-8	E	
SHEET	OF	DIST.	
1	2		

SIZE CODE NUMBER DDI RS09-0-8 REV. E

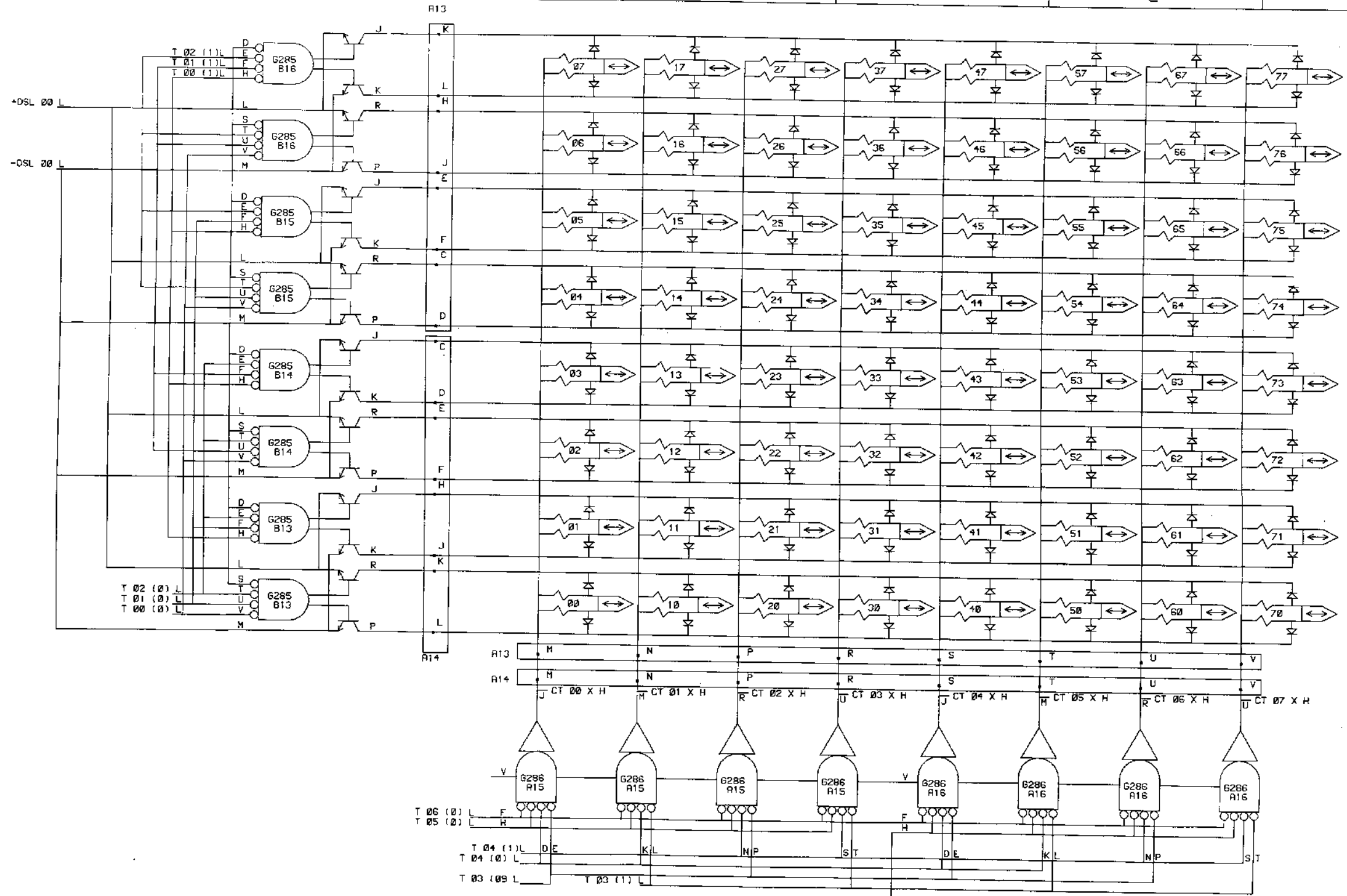
This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture of any of these without written permission.



REVISIONS		
CHK	CHANGE NO.	REV.
AV	RS09-00018	A

DRN. K 6085	DATE 9/22/68	
CHKD. N RHEAULT	DATE 9/22/68	
ENG. E KING	DATE 9/22/68	TITLE CONTROL 1
PROJ. ENG. D VONPDA	DATE 9/22/68	
PROD. E TOMPKINS	DATE 9/22/68	
FIRST USED ON RS09		
SCALE D BS	SIZE CODE RS09-0-1	NUMBER A
SHEET 1 OF 1	DIST.	

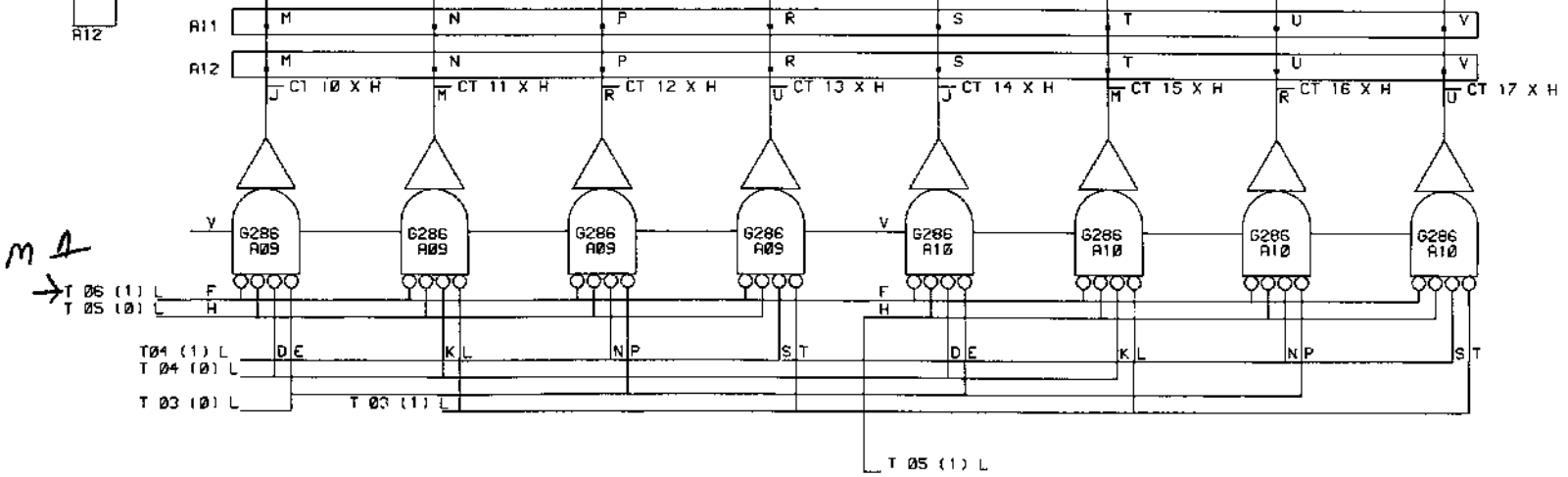
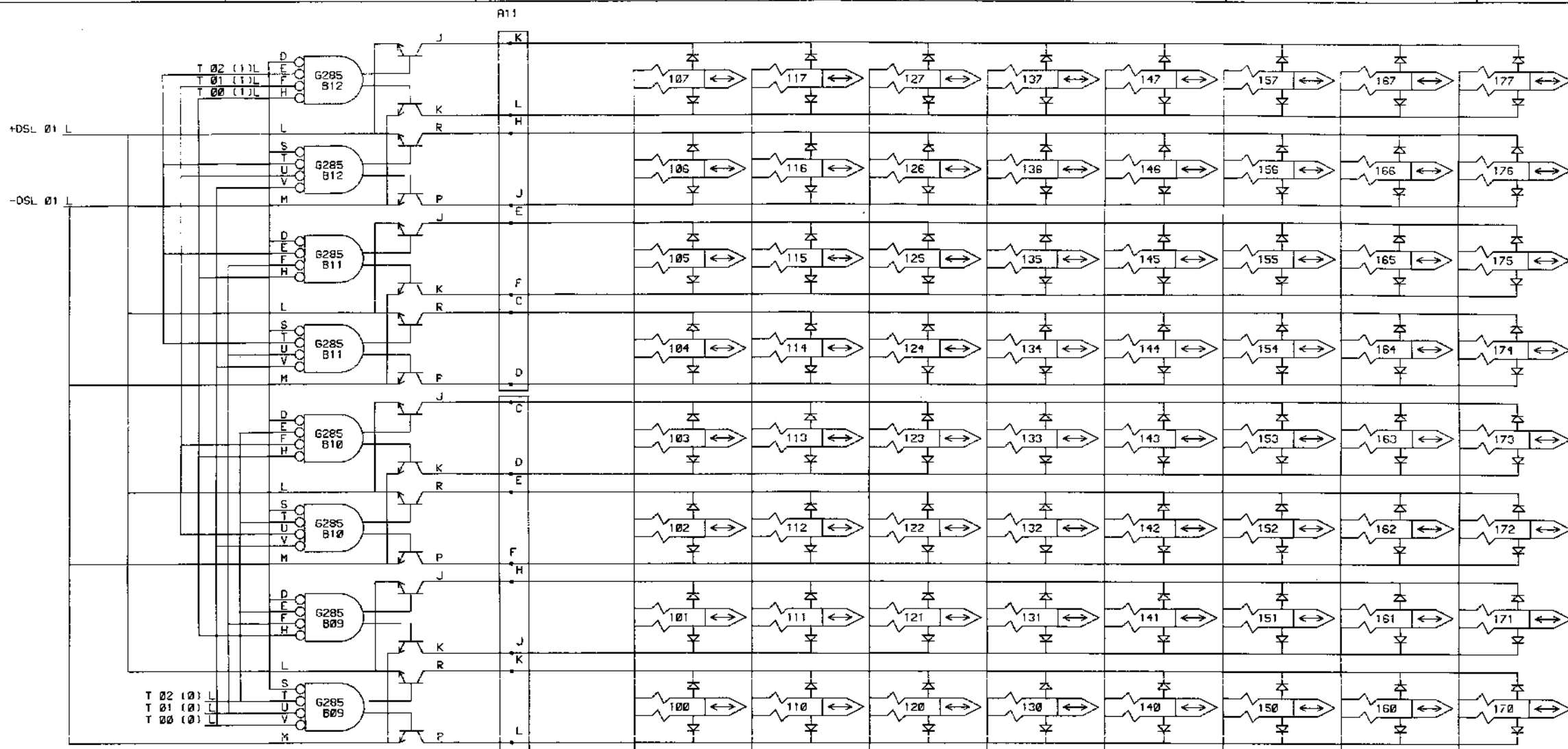
This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



REVISIONS		
CHK	CHANGE NO.	REV.

DRN	DATE	digital EQUIPMENT CORPORATION WAYNARD MASSACHUSETTS
CHK'D.	DATE	
ENG.	DATE	TITLE
PROJ. ENG.	DATE	MATRIX SELECT MATRIX 0
PROD.	DATE	
FIRST USED ON		
RS09	SIZE CODE	NUMBER
SCALE	D BS	RS09-0-2
SHEET	OF	DIST.

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of parts without written permission.

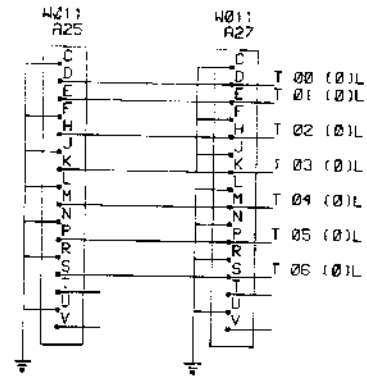


REVISIONS		
CHK	CHANGE NO.	REV.

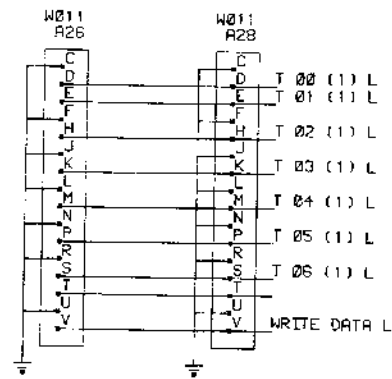
DRN.	DATE	 digital EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>
CHK'D.	DATE	
ENG.	DATE	
PROJ. ENG.	DATE	
PROD.	DATE	
FIRST USED ON		TITLE
RS09		TRACK SELECT MATRIX I
SCALE	SIZE CODE	NUMBER
D BS	RS09-0-3	REV.
SHEET	OF	DIST.

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture of any item without written permission.

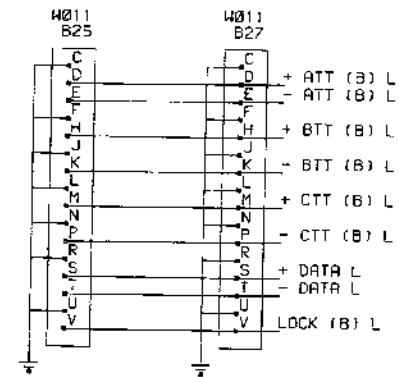
6723 CLAMPED TERMINATIONS IN LAST RS



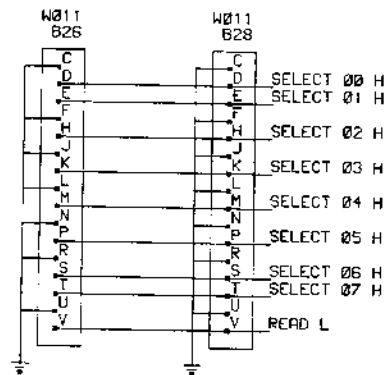
6723 CLAMPED TERMINATIONS IN LAST RS



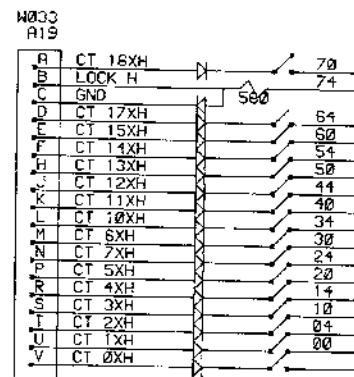
6711 130 OHM TERMINATIONS IN RF AND LAST RS



6723 CLAMPED TERMINATIONS IN LAST RS



WRITE LOCKOUT SWITCHES XY



OPEN-WRITE ENABLED
CLOSED-WRITE DISABLED

REVISIONS		
CHK	CHANGE NO.	REV.
W	RS09-0006	1
		2

DRN. K. BOGGS	DATE 3/22/68	 digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. G. RHEAULT	DATE 7/22/68	
ENGR. S. WONAGA	DATE 3/22/68	TITLE CONTROL UNIT CONNECTORS
PROJ. ENG. S. WONAGA	DATE 3/22/68	
PROD. C. H. TOMPKINS	DATE 3/22/68	
FIRST USED ON RS09		
SCALE D RS	SIZE CODE RS	NUMBER RS09-0-1
SHEET 1 OF 1	DIST.	REV. A

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or used in whole or in part as the basis for the manufacture or sale of items without written permission.

8

7

6

5

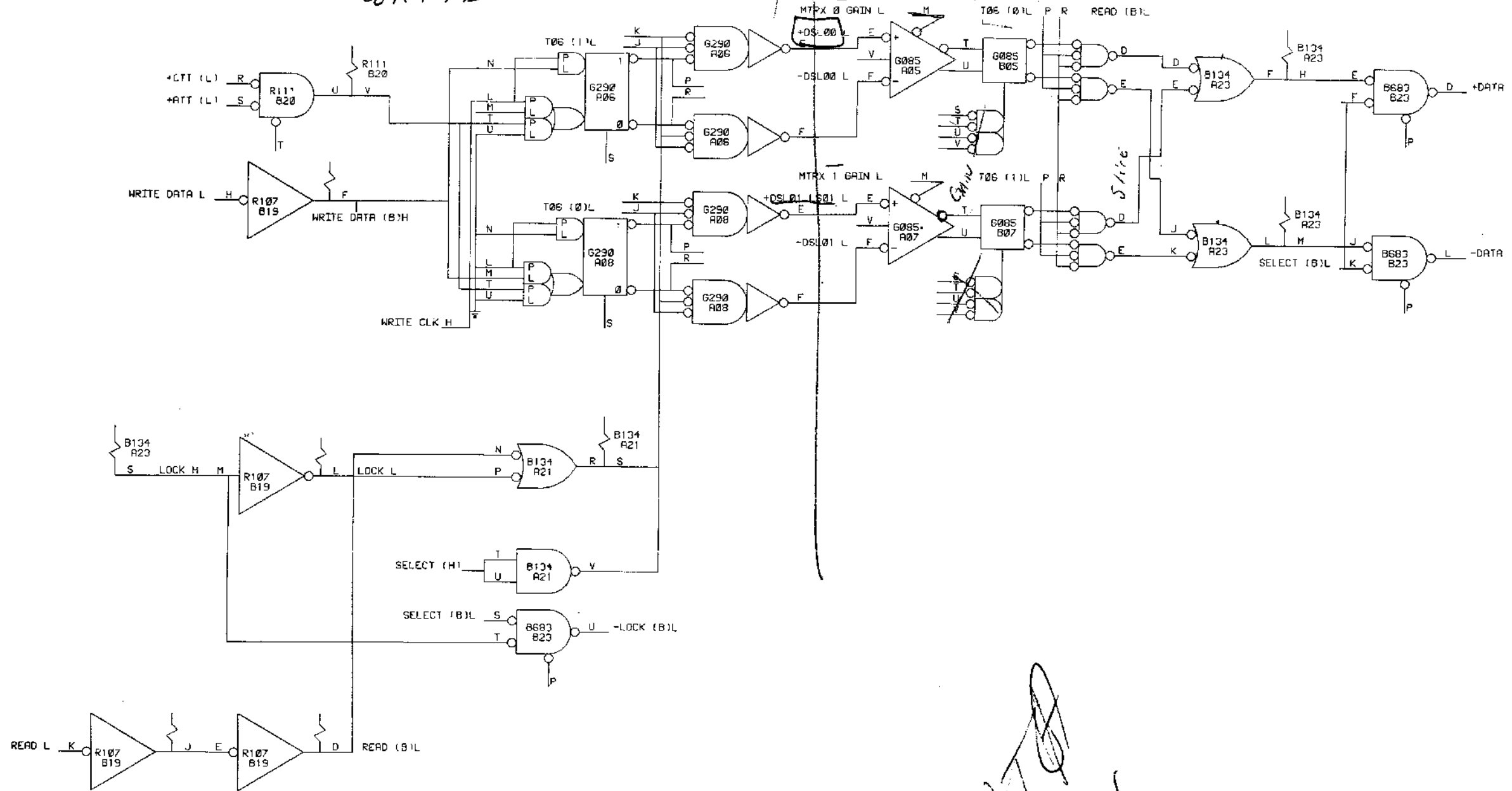
4

3

2

WRITE

READ



DATA ONLY

REVISIONS		
CHK	CHANGE NO.	REV.
7/8	RS09-00006	A
<i>George... 12-15-69</i>		

DRW. K. BOGGS	DATE 9/22/69	 digital EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>
CHK'D. N. RHEAULT	DATE 9/22/69	
ENG. ED KING	DATE 9/22/69	
PROJ. ENG. D. G. VONADA	DATE 9/22/69	
PRD. C. P. TOMPKINS	DATE 9/22/69	
FIRST USED ON		TITLE CONTROL 2
RS09	SIZE CODE	NUMBER
SCALE	D BS	RS09-0-5
SHEET 1 OF 1	DIST.	REV. A

8

7

6

5

4

3

2

1

DRWG NO	REV LTR
K-WL-RS09-0-WL	C

REVISIONS			
REV LTR	ECO NO	DATE	ENG
A	RS09-00004	11-3-69	SJY
B	00009	1-16-70	SJY
C	RS09-00013	5-11-70	SJY

FIRST USED ON OPTION/MODEL
RS09

DRAWN	DATE
<i>E. Flanigan</i>	7/21/69
CHECKED	DATE
<i>H. Hochman</i>	9/5/69
ENG	DATE
<i>C. King</i>	9-22-69
PROJ. ENG.	DATE
<i>D. Flanigan</i>	9-22-69
PROD	DATE
<i>C. King</i>	7-22-69



TITLE
WIRE LIST

FOR TAPE # FILE *

ASSY NO
A-ML-RS09-0

SIZE	CODE	DWG. NO.	REV LTR
K	WL	RS09-0-WL	C
DIST.			

SCALE SHEET OF 1

RS09.C RUN NAME	WRP144.V17(17) 76/22/72 A/P PIN ORDER PIN	Q	DRAW RV PG Y	X	Z	REMARKS	17-JAN-73 LENGTH	519 EXCEPTIONS	PAGE 3 RUN NUMBER
A21K	A01K	1-01 *	C	RS09-1	1	G085T			20
A01K	A03V	1-02 *	RS09-1				4-5/8	CABLE TERM HERE?	20
A21K		1							20
A01P	A01P	1-01 *	C	RS09-1	1	G085T			21
A01P	A04V	1-02 *	RS09-1				5-2/8	CABLE TERM HERE?	21
A01P		1							21
A21J	A21F	1-01 *	RS09-1		1	B134F			22
A21J	A21H	1-02 *	RS09-1		2	B134L			22
A21J	A21H	1-03 *	RS09-1		1	B134L			22
A21J	A22P	1-04 *	RS09-1		1	H602U			22
A21J		1					10-0/8		22
A21L	A21C	1-01 *	RS09-1		1	B134F			23
A21L	A21M	1-02 *	RS09-1		2	B134M			23
A21L	A21L	1-03 *	RS09-1		1	B134L			23
A21L	A22S	1-04 *	RS09-1		1	H602U			23
A21L		1					10-3/8		23
A21V	A06K	1-01 *	RS09-1		2	M575E			24
A21V	A08K	1-02 *	RS09-1		1	M575E			24
A21V	A21S	1-03 *	RS09-1		2	B134S			24
A21V	A21V	1-04 *	RS09-1		1	B134V			24
A21V	A21R	1-05 *	RS09-1		1	B134H			24
A21V		1					24-0/8		24
A23F	A23H	1-01 *	RS09-1		2	B134H			25
A23F	A23F	1-02 *	RS09-1		1	B134F			25
A23F	H23E	1-03 *	RS09-1		1	H683D			25
A23F		1					8-6/8		25
A23L	A23L	1-01 *	RS09-1		2	B134L			26
A23L	A23M	1-02 *	RS09-1		1	B134M			26
A23L	B23J	1-03 *				H683L			26
A23L		1					8-4/8		26
B18F	B18F	1-01 *			2				27
B18F	B18K	1-02 *			1				27
B18F	B20F	1-03 *							27
B18F		1					7-7/8		27
B18N	B18S	1-01 *			2				28
B18N	B18N	1-02 *			1				28
B18N	B20M	1-03 *							28
B18N		1					7-0/8		28

RS09.C RUN NAME	WRP144.V17(17) 76/22/72 A/P PIN ORDER PIN	Q	DRAW RV PG Y	X	Z	REMARKS	17-JAN-73 LENGTH	519 EXCEPTIONS	PAGE 4 RUN NUMBER
B19J	B19E	1-01 *			1				29
B19J	B19J	1-02 *					3-2/8		29
B19J		1							29
B19L	A21P	1-01 *			1	R107			30
B19L	B19L	1-02 *					5-4/8		30
B19L		1							30
CT 01 X	A13M	1-01 *	C	RS09-2	1	H077A			31
CT 02 X	A14M	1-02 *	C	RS09-2	2	H077A		CABLE	31
CT 03 X	A15J	1-03 *	C	RS09-2	1	G286J		CABLE	31
CT 04 X	A19D	1-04 *	C	RS09-4		H033C		CABLE	31
CT 05 X		1					12-6/8		31
CT 01 X	A13N	1-01 *	C	RS09-2	1	H077A			32
CT 02 X	A14N	1-02 *	C	RS09-2	2	H077A		CABLE	32
CT 03 X	A15M	1-03 *	C	RS09-2	1	G286J		CABLE	32
CT 04 X	A19A	1-04 *	C	RS09-4		H033C		CABLE	32
CT 05 X		1					12-0/8		32
CT 02 X	A13P	1-01 *	C	RS09-2	1	H077A			33
CT 03 X	A14P	1-02 *	C	RS09-2	2	H077A		CABLE	33
CT 04 X	A15R	1-03 *	C	RS09-2	1	G286J		CABLE	33
CT 05 X	A19E	1-04 *	C	RS09-4		H033C		CABLE	33
CT 06 X		1					12-3/8		33
CT 03 X	A13R	1-01 *	C	RS09-2	1	H077A			34
CT 04 X	A15U	1-02 *	C	RS09-2	2	G286J		CABLE	34
CT 05 X	A14R	1-03 *	C	RS09-2	1	H077A		CABLE	34
CT 06 X	A19F	1-04 *	C	RS09-4		H033C		CABLE	34
CT 07 X		1					13-1/8		34
CT 04 X	A13S	1-01 *	C	RS09-2	2	H077A			35
CT 05 X	A14S	1-02 *	C	RS09-2	1	H077A		CABLE	35
CT 06 X	A16J	1-03 *	C	RS09-2	2	G286J		CABLE	35
CT 07 X	A19H	1-04 *	C	RS09-4		H033C		CABLE	35
CT 08 X		1					12-7/8		35
CT 05 X	A13T	1-01 *	C	RS09-2	1	H077A			36
CT 06 X	A14T	1-02 *	C	RS09-2	2	H077A		CABLE	36
CT 07 X	A16M	1-03 *	C	RS09-2	1	G286J		CABLE	36
CT 08 X	A19J	1-04 *	C	RS09-4		H033C		CABLE	36
CT 09 X		1					12-7/8		36

RS091C
RUN NAME

WRP144.V17(17) 06/22/72

17-JAN-73

519

PAGE 7

RS091C RUN NAME	A/P PIN NAME	ORDER PIN	BAY ORDER	Q DRAW RV PG Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	PAGE RUN NUMBER
GND 09	A09C		1-01 *			1				54
GND 09	B09C		1-02 *							54
GND 09			1					5-7/8		54
GND 10	A10C		1-01 *			1				55
GND 10	B10C		1-02 *							55
GND 10			1					5-7/8		55
GND 15	A15C		1-01 *			1				56
GND 15	B15C		1-02 *							56
GND 15			1					5-7/8		56
GND 16	A16C		1-01 *			1				57
GND 16	B16C		1-02 *							57
GND 16			1					5-7/8		57
GND 17	A17C		1-01 *			1				58
GND 17	B17D		1-02 *			2				58
GND 17	B17C		1-03 *							58
GND 17			1					9-0/8		58
GND 18	A18C		1-01 *			1				59
GND 18	B18C		1-02 *							59
GND 18			1					5-7/8		59
GND 21	A21C		1-01 *			1				60
GND 21	B21C		1-02 *			2				60
GND 21	B21H		1-03 *			1				60
GND 21	B21M		1-04 *							60
GND 21			1					12-5/8		60
GND 25	A25C		1-01 *			1				61
GND 25	A25F		1-02 *			2				61
GND 25	A25J		1-03 *							61
GND 25	A25L		1-04 *			1				61
GND 25	A25N		1-05 *			1				61
GND 25	A25R		1-06 *			1				61
GND 25	A25U		1-07 *			2				61
GND 25	B25C		1-08 *			1				61
GND 25	B25F		1-09 *			1				61
GND 25	B25J		1-10 *			2				61
GND 25	B25L		1-11 *			1				61
GND 25	B25N		1-12 *			2				61
GND 25	B25R		1-13 *							61
GND 25	B25U		1-14 *			1				61
GND 25			1					42-1/8		61

RS091C
RUN NAME

WRP144.V17(17) 06/22/72

17-JAN-73

519

PAGE 8

RS091C RUN NAME	A/P PIN NAME	ORDER PIN	BAY ORDER	Q DRAW RV PG Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	PAGE RUN NUMBER
GND 26	A26C		1-01 *			1				62
GND 26	A26F		1-02 *			2				62
GND 26	A26J		1-03 *							62
GND 26	A26L		1-04 *			1				62
GND 26	A26N		1-05 *			1				62
GND 26	A26R		1-06 *			2				62
GND 26	A26U		1-07 *			1				62
GND 26	B26C		1-08 *			2				62
GND 26	B26F		1-09 *			1				62
GND 26	B26J		1-10 *			2				62
GND 26	B26L		1-11 *			1				62
GND 26	B26N		1-12 *			2				62
GND 26	B26R		1-13 *							62
GND 26	B26U		1-14 *			1				62
GND 26			1					42-1/8		62
GND 27	A27C		1-01 *			1				63
GND 27	A27F		1-02 *			2				63
GND 27	A27J		1-03 *							63
GND 27	A27L		1-04 *			1				63
GND 27	A27N		1-05 *			1				63
GND 27	A27R		1-06 *			2				63
GND 27	A27U		1-07 *			1				63
GND 27	B27C		1-08 *			2				63
GND 27	B27F		1-09 *			1				63
GND 27	B27J		1-10 *			2				63
GND 27	B27L		1-11 *			1				63
GND 27	B27N		1-12 *			2				63
GND 27	B27R		1-13 *							63
GND 27	B27U		1-14 *			1				63
GND 27			1					42-1/8		63
GND 28	A28C		1-01 *			1				64
GND 28	A28F		1-02 *			2				64
GND 28	A28J		1-03 *							64
GND 28	A28L		1-04 *			1				64
GND 28	A28N		1-05 *			1				64
GND 28	A28R		1-06 *			2				64
GND 28	A28U		1-07 *			1				64
GND 28	B28C		1-08 *			2				64
GND 28	B28F		1-09 *			1				64
GND 28	B28J		1-10 *			2				64
GND 28	B28L		1-11 *			1				64
GND 28	B28N		1-12 *			2				64
GND 28	B28R		1-13 *							64
GND 28	B28U		1-14 *			1				64
GND 28			1					42-1/8		64

RS09-C RUN NAME	WRP144.V17(17) 06/22/72	A/P	PIN NAME	ORDER PIN	BAY ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	17-JAN-73	LENGTH	EXCEPTIONS	PAGE 9 RUN NUMBER
GND SPECIAL			B02C	1-01 *					2					65
GND SPECIAL			B02F	1-02 *					1					65
GND SPECIAL			B03C	1-03 *					2					65
GND SPECIAL			B03F	1-04 *					1					65
GND SPECIAL			B04C	1-05 *					2					65
GND SPECIAL			B04F	1-06 *					1					65
GND SPECIAL			A24C	1-07 *					1					65
LOCK		H	A19B	1-01 *	C	RS09-4			2	W011C		31-4/8	CABLE	66
LOCK		H	A23S	1-02 *		R107			1					66
LOCK		H	B23T	1-03 *		R107			2					66
LOCK		H	919M	1-04 *		R107			1				TERM HERE?	66
LOCK				1					1					66
LOCK (B)		L	B27V	1-01 *	C	RS09-4			2	W011C			CABLE	67
LOCK (B)		L	B25V	1-02 *	C	RS09-4			1	W011C			CABLE	67
LOCK (B)		L	B23U	1-03 *		RS09-1			1	B683U			TERM HERE?	67
LOCK (B)				1					1					67
MTRX 2 GAIN			A05M	1-01 *					1					68
MTRX 2 GAIN			B20M	1-02 *					2					68
MTRX 2 GAIN			B20J	1-03 *					1					68
MTRX 2 GAIN				1					1					68
MTRX 1 GAIN			A07M	1-01 *					1					69
MTRX 1 GAIN			R20P	1-02 *					2					69
MTRX 1 GAIN			R20N	1-03 *					1					69
MTRX 1 GAIN				1					1					69
HEAD		L	R28V	1-01 *	C	RS09-4			2	W011C			CABLE	70
HEAD		L	B26V	1-02 *	C	RS09-4			1	W011C			CABLE	70
HEAD		L	B19K	1-03 *					1				TERM HERE?	70
HEAD				1					1					70
HEAD (B)		L	B07R	1-01 *		RS09-1			2	B683L				71
HEAD (B)		L	B05R	1-02 *		RS09-1			1	B683U				71
HEAD (B)		L	A21N	1-03 *		RS09-1			2	B134R				71
HEAD (B)		L	A22R	1-04 *		RS09-1			1	H602U				71
HEAD (B)		L	A22T	1-05 *		RS09-1			1	H602U				71
HEAD (B)		L	B19D	1-06 *		RS09-1			2	H602U				71
HEAD (B)				1					1					71
HEAD (B)				1					1					71

RS09-C RUN NAME	WRP144.V17(17) 06/22/72	A/P	PIN NAME	ORDER PIN	BAY ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	17-JAN-73	LENGTH	EXCEPTIONS	PAGE 10 RUN NUMBER
SEL (BA)		L	B12D	1-01 *					2					72
SEL (BA)		L	B11D	1-02 *					1					72
SEL (BA)		L	B10D	1-03 *					2					72
SEL (BA)		L	B09D	1-04 *					1					72
SEL (BA)		L	B09S	1-05 *					2					72
SEL (BA)		L	B10S	1-06 *					1					72
SEL (BA)		L	B11S	1-07 *					2					72
SEL (BA)		L	B12S	1-08 *					1					72
SEL (BA)		L	B16D	1-09 *					2					72
SEL (BA)		L	B15D	1-10 *					1					72
SEL (BA)		L	B14D	1-11 *					2					72
SEL (BA)		L	B13D	1-12 *					1					72
SEL (BA)		L	B13S	1-13 *					2					72
SEL (BA)		L	B14S	1-14 *					1					72
SEL (BA)		L	B15S	1-15 *					2					72
SEL (BA)		L	B16S	1-16 *					1					72
SEL (BA)		L	B19R	1-17 *					1					72
SEL (BA)				1					1					72
SELECT		H	A21T	1-01 *					2					73
SELECT		H	A21U	1-02 *					1					73
SELECT		H	B19P	1-03 *					2					73
SELECT		H	B19S	1-04 *					1					73
SELECT				1					1					73
SELECT (B)		L	B04R	1-01 *					1	G085D				74
SELECT (B)		L	B02R	1-02 *					2	G085D				74
SELECT (B)		L	B03R	1-03 *					1	G085D				74
SELECT (B)		L	B19N	1-04 *					2	B681K				74
SELECT (B)		L	B23F	1-05 *					1	G085D				74
SELECT (B)		L	B23K	1-06 *					2	G085D				74
SELECT (B)		L	B23S	1-07 *					1	B683U				74
SELECT (B)				1					1					74
SELECT 02		H	B26D	1-01 *	C	RS09-4			1	W011C			CABLE	75
SELECT 02		H	B28D	1-02 *	C	RS09-4			1	W011C			CABLE	75
SELECT 02				1					1					75
SELECT 01		H	B26E	1-01 *	C	RS09-4			1	W011C			CABLE	76
SELECT 01		H	B28E	1-02 *	C	RS09-4			1	W011C			CABLE	76
SELECT 01				1					1					76
SELECT 02		H	B26H	1-01 *	C	RS09-4			1	W011C			CABLE	77
SELECT 02		H	B28H	1-02 *	C	RS09-4			1	W011C			CABLE	77
SELECT 02				1					1					77

RS09 C RUN NAME	A/P PIN NAME	ORDER PIN	BAY - ORDER	Q DRAW RV PG Y	X	Z	REMARKS	17-JAN-73 LENGTH	519 EXCEPTIONS	PAGE 15 RUN NUMBER
T 06 (1)	H A27S		1-01 *	RS09-4		2	M011C			96
T 06 (1)	H A25S		1-02 *	RS09-4		1	M011C			96
T 06 (1)	H A15F		1-03 *	RS09-2		2	G206J			96
T 06 (1)	H A16F		1-04 *	RS09-2		1	G206J			96
T 06 (1)	H A06J		1-05 *	RS09-1		2	M575E			96
T 06 (1)	H B05P		1-06 *					35-1/8		96
			1							
WRITE DATA	H A28V		1-01 *	C RS09-4		2	M011C			97
WRITE DATA	H A26V		1-02 *	C RS09-4		1	M011C			97
WRITE DATA	H B19H		1-03 *							97
			1					12-3/8	CABLE CABLE TERM HERE?	97
WRITE DATA (5)	H A06M		1-01 *	RS09-1		2	M575E			98
WRITE DATA (8)	H A06N		1-02 *	RS09-1		1	M575E			98
WRITE DATA (8)	H A08M		1-03 *	RS09-1		2	M575E			98
WRITE DATA (8)	H A08N		1-04 *	RS09-1		1	M575E			98
WRITE DATA (8)	H B19F		1-05 *							98
			1					19-7/8		98
*TE CLK	H A06L		1-01 *	RS09-1		2	M575E			99
*TE CLK	H A08L		1-02 *	RS09-1		1	M575E			99
*TE CLK	H A22U		1-03 *	RS09-1			H602U			99
			1					17-2/8		99

*IRE WRAP
RUN NAME

WRP144,V17(17) 06/22/72
A/P: PIN.....ORDER: BAY -
NAME.....PIN.....ORDER

ERROR LISTING


0 DRAW RV PG Y X Z REMARKS
17-JAN-73 LENGTH EXCEPTIONS
PAGE 1
RUN NUMBER


This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
A01J	A01J	A03E	BLUE	
A01L	A01L	A03F	"	
A01N	A01N	A04E	"	
A01R	A01R	A04F	"	
A23D	A23D	B05D	"	
A23J	A23J	B05E	"	
B03D	B03D	B22T	"	
B03E	B03E	B24E	"	
B04E	B04E	B24S	"	
+CTT	B04D	B20R	"	
+CTT	B20R	B24K	"	
B07D	A23E	B07D	"	
B07E	A23K	B07E	"	
B09J	A12H	B09J	"	
B09K	A12J	B09K	"	
B09P	A12L	B09P	"	
B09R	A12K	B09R	"	

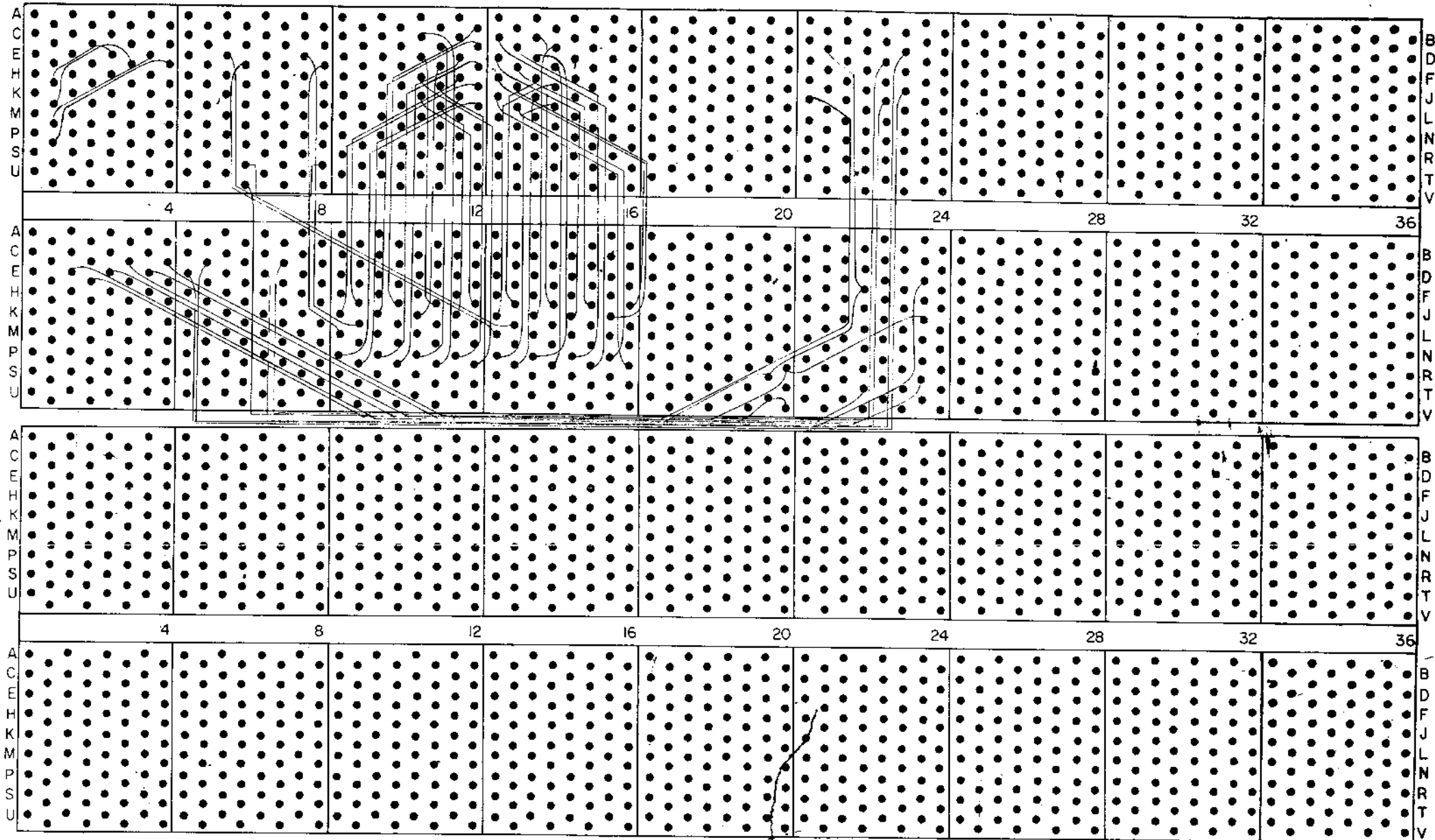
This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.


SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS
B10J	A12C	B10J	BLUE	
B10K	A12D	B10K	"	
B10P	A12F	B10P	"	
B10R	A12E	B10R	"	
B11J	A11E	B11J	"	
B11K	A11F	B11K	"	
B11P	A11D	B11P	"	
B11R	A11C	B11R	"	
B12J	A11K	B12J	"	
B12K	A11L	B12K	"	
B12P	A11J	B12P	"	
B12R	A11H	B12R	"	
B13J	A14H	B13J	"	
B13K	A14J	B13K	"	
B13P	B13P	A14L	"	
B13R	A14K	B13R	"	
B14J	A14C	B14J	"	
B14K	A14D	B14K	"	

REVISIONS				DRN. E. STEVENSON	DATE 10-20-9		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
REV.	DATE	CHG. NO.	APP'D.	CHK'D.	DATE		
				<i>W. Sutherland</i>	11-4-69	TITLE GENERAL WIRING SHEET FOR SPECIAL HAND WRAP	SIZE CODE A WL NUMBER RS09-0-10 REV.
ORIGINATED BY CO# RS09-00004				ENG.	DATE		
				<i>Cal King</i>	11-6-69		
				PROJ. ENG. <i>W. Sutherland</i>	11-5-69		
				PROD. <i>W. Sutherland</i>	11-7-69		
				FIRST USED ON			
				SCALE			
				SHEET 1 OF 4		DIST.	

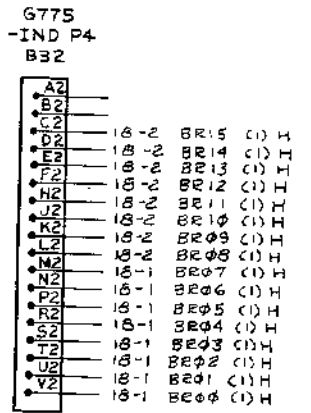
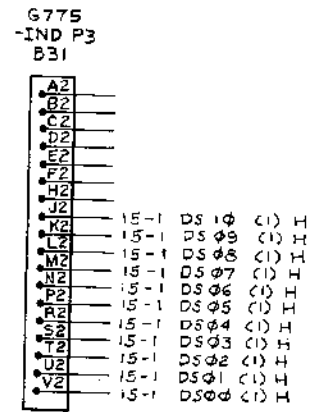
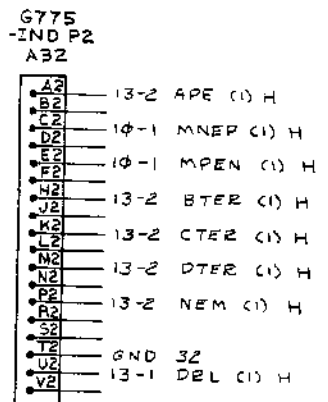
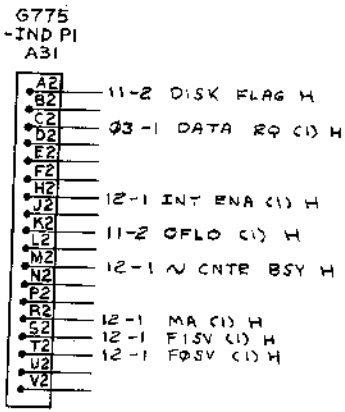
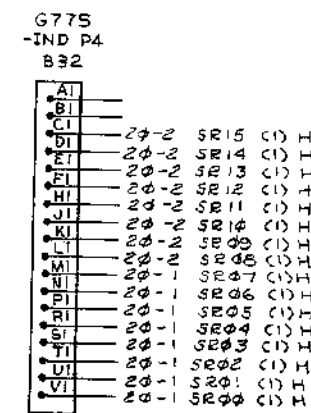
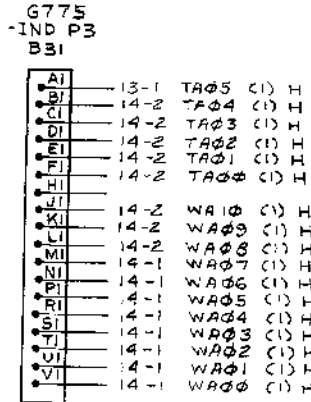
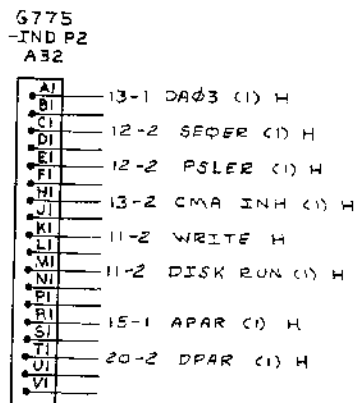
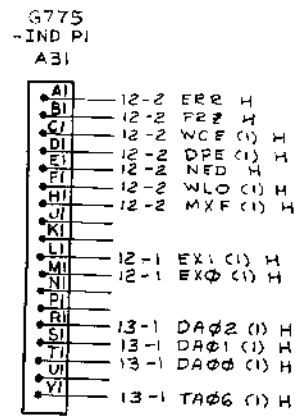
REVISIONS				DRN. E. STEVENSON	DATE 10-20-9		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
REV.	DATE	CHG. NO.	APP'D.	CHK'D.	DATE		
				<i>W. Sutherland</i>	11-6-69	TITLE GENERAL WIRING SHEET FOR SPECIAL HAND WRAP	SIZE CODE A WL NUMBER RS09-0-10 REV.
				ENG.	DATE		
				<i>Cal King</i>	11-6-69		
				PROJ. ENG. <i>W. Sutherland</i>	11-5-69		
				PROD. <i>W. Sutherland</i>	11-7-69		
				FIRST USED ON			
				SCALE			
				SHEET 2 OF 4		DIST.	

CODE WD	DRWG. NO. RS09-0-11	REVLTR A
------------	------------------------	-------------



DRAWN		DATE	 MAYNARD, MASSACHUSETTS	TITLE	HAND WRAP ROUTING FOR RS09	
CHECKED		DATE		ASSY NO		CODE
ENG		DATE		A-ML-RS09-0		WD
PROJ ENG		DATE		SCALE		SHEET
PROD		DATE		OF		REV LTR
REV LTR	NO	DATE	ENG	DRWG NO	A	
A	1			C-RS09-0-11		
ORIG	NO	DATE	ENG			
RS09-0-11	1					

This drawing is the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



REV.	CHG.	NO.

DEC FORM NO. 1024

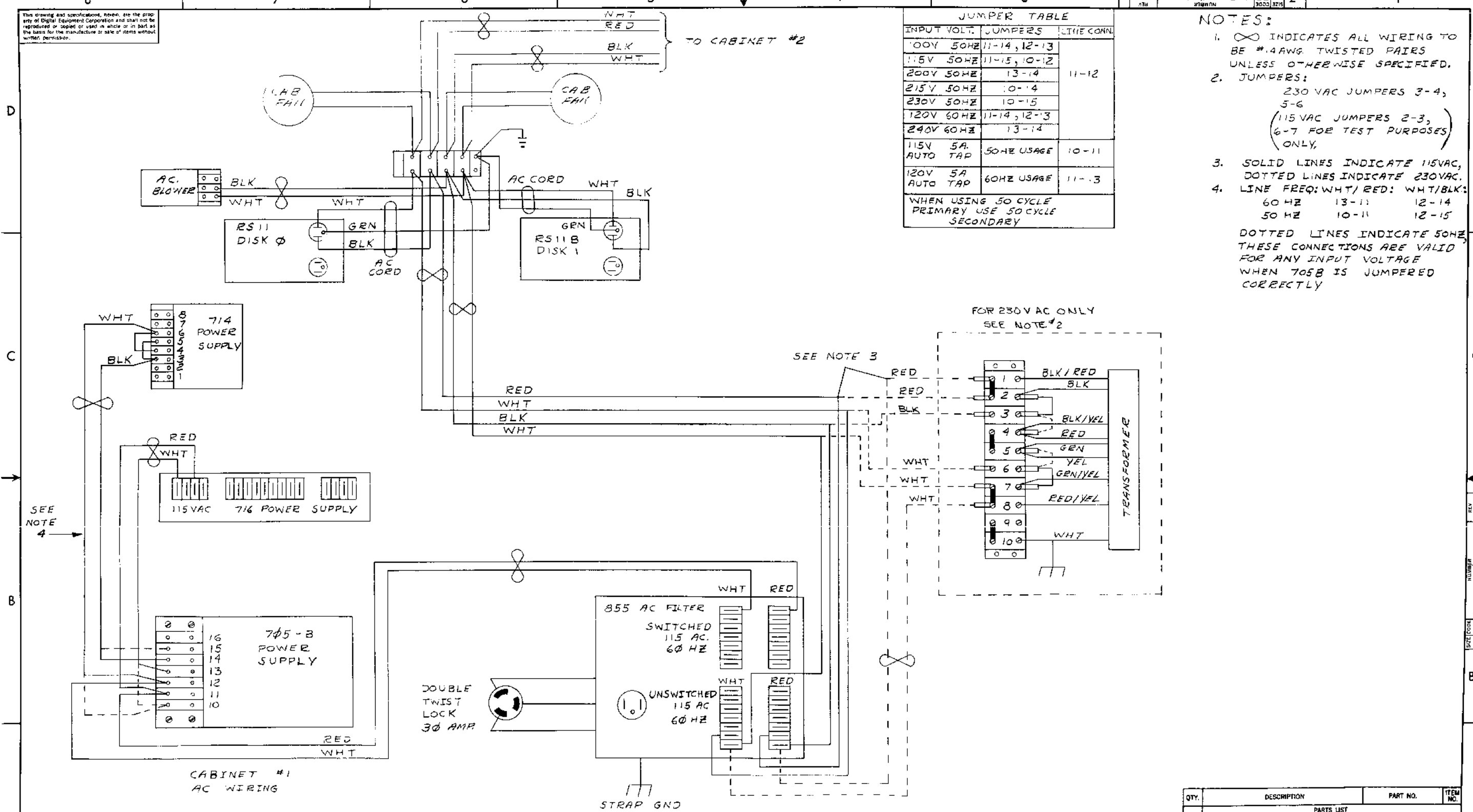
FIRST USED ON DPT/MOD RF11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	DATE 5-12-70	DATE 7-31-70	digital EQUIPMENT CORPORATION WATERTOWN, MASSACHUSETTS	
MATERIAL //	DATE 7-31-70	DATE 7-31-70	INDICATOR CABLE	
FINISH //	SCALE NONE	SCALE NONE	SIZE CODE D1C	NUMBER RF11-0-26
SHEET 1 OF 1		REV.		

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

INPUT VOLT.	JUMPERS	LINE CONN.
100V 50HZ	11-14, 12-13	
115V 50HZ	11-15, 10-12	
200V 50HZ	13-14	11-12
215V 50HZ	10-14	
230V 50HZ	10-15	
120V 60HZ	11-14, 12-13	
240V 60HZ	13-14	
115V 5A AUTO TAP	50HZ USAGE	10-11
120V 5A AUTO TAP	60HZ USAGE	11-13

WHEN USING 50 CYCLE PRIMARY USE 50 CYCLE SECONDARY

- NOTES:
- ∞ INDICATES ALL WIRING TO BE #14AWG TWISTED PAIRS UNLESS OTHERWISE SPECIFIED.
 - JUMPERS:
230 VAC JUMPERS 3-4, 5-6
(115 VAC JUMPERS 2-3, 6-7 FOR TEST PURPOSES ONLY.)
 - SOLID LINES INDICATE 115VAC, DOTTED LINES INDICATE 230VAC.
 - LINE FREQ: WHT/RED: WHT/BLK:
60 HZ 13-11 12-14
50 HZ 10-11 12-15
- DOTTED LINES INDICATE 50HZ, THESE CONNECTIONS ARE VALID FOR ANY INPUT VOLTAGE WHEN 705B IS JUMPED CORRECTLY



FIRST USED ON OPTION/MODEL
RF11/RS

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
± .005 ± .124 ± 0°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS

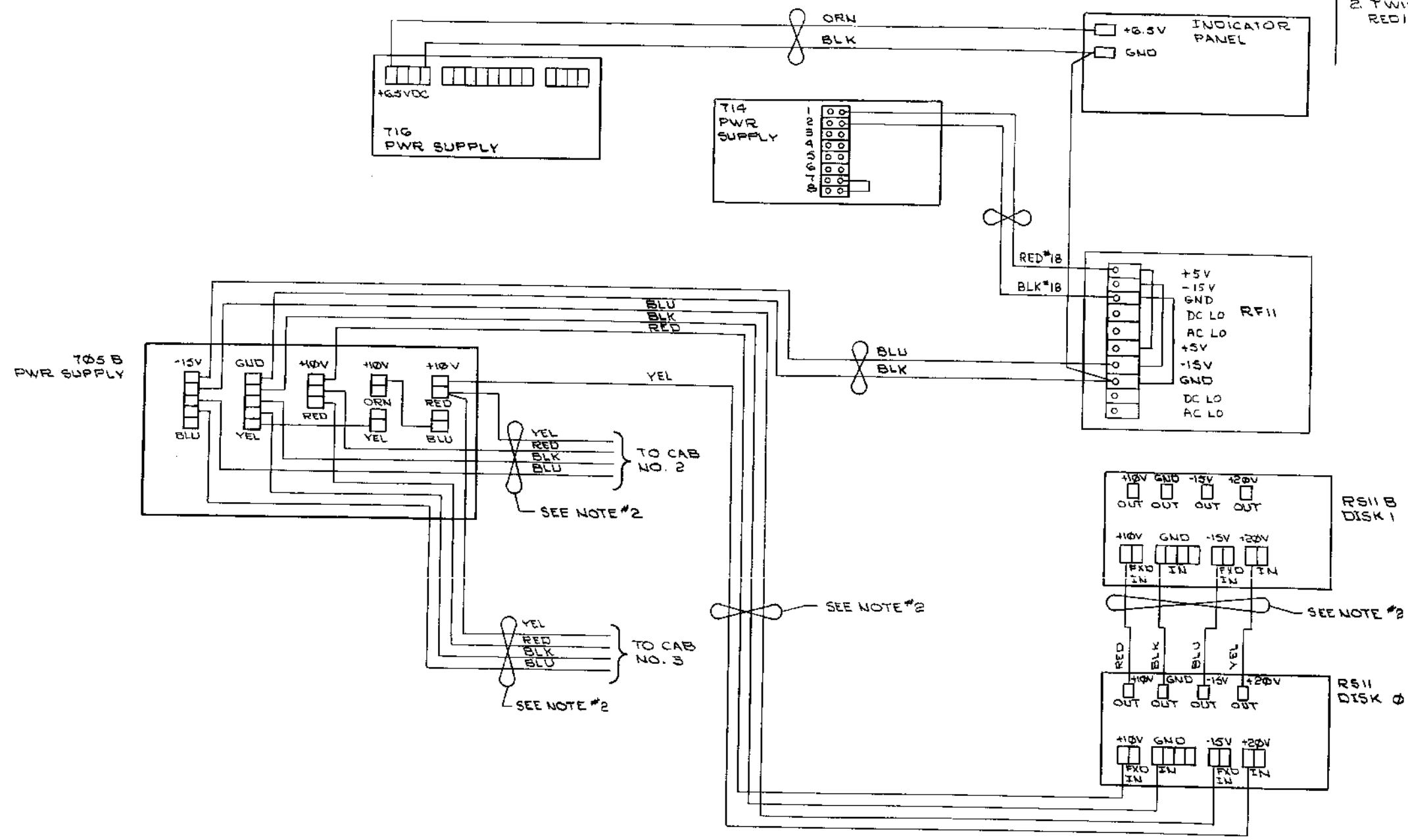
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN. <i>[Signature]</i> DATE 9-15-70		digital EQUIPMENT CORPORATION MAYFORD, MASSACHUSETTS TITLE PWR WIRING (RF11)	
CHKD. <i>[Signature]</i> DATE	DATE		
ENG. <i>[Signature]</i> DATE	DATE		
PROD. ENG. <i>[Signature]</i> DATE	DATE		
NEXT HIGHER ASSY A ML-RF11-0		SIZE/CODE	NUMBER
SCALE	1	DEC RF11-0-27	
SHEET	1 OF 4	DIST.	

REV.	CHANGE NO.

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

NOTES:
 1. ∞ SYMBOL INDICATES ALL WIRING TO BE #14 AWG TWISTED PAIRS UNLESS OTHERWISE SPECIFIED
 2. TWIST TOGETHER YEL/BLK AND RED/BLU.



REV.	
CHANGE NO.	
CHK	

DEC FORM NO. DWP 100

FIRST USED ON OPTION/MODEL
RF11/RS11

DO NOT SCALE DRAWING
 UNLESS OTHERWISE SPECIFIED
 DIMENSION IN INCHES
 TOLERANCES
 DECIMALS FRACTIONS ANGLES
 ± .005 ± 1/64 ± 0°30'
 FINAL SURFACE QUALITY
 REMOVE BURRS AND BREAK SHARP CORNERS

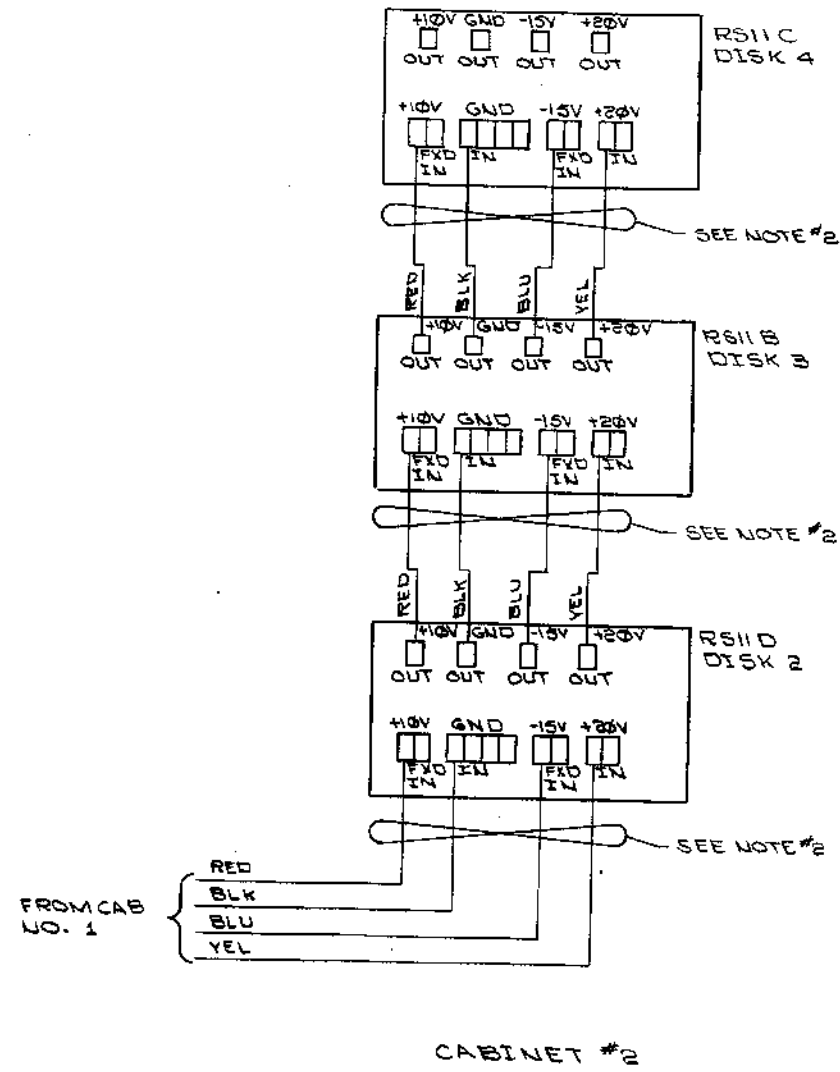
QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN	DATE	DATE	DATE
CHK'D	DATE	DATE	DATE
ENGR	DATE	DATE	DATE
PROJ ENGR	DATE	DATE	DATE
PROD	DATE	DATE	DATE
NEXT HIGHER ASSY		TITLE	
A-ML-RF11-0		PWR WIRING (RF11)	
SCALE	NONE	SIZE CODE	NUMBER
SHEET	3 OF 4	DIC	RF11-0-27
		REV.	

SIZE CODE NUMBER
 D IC RF11-0-27

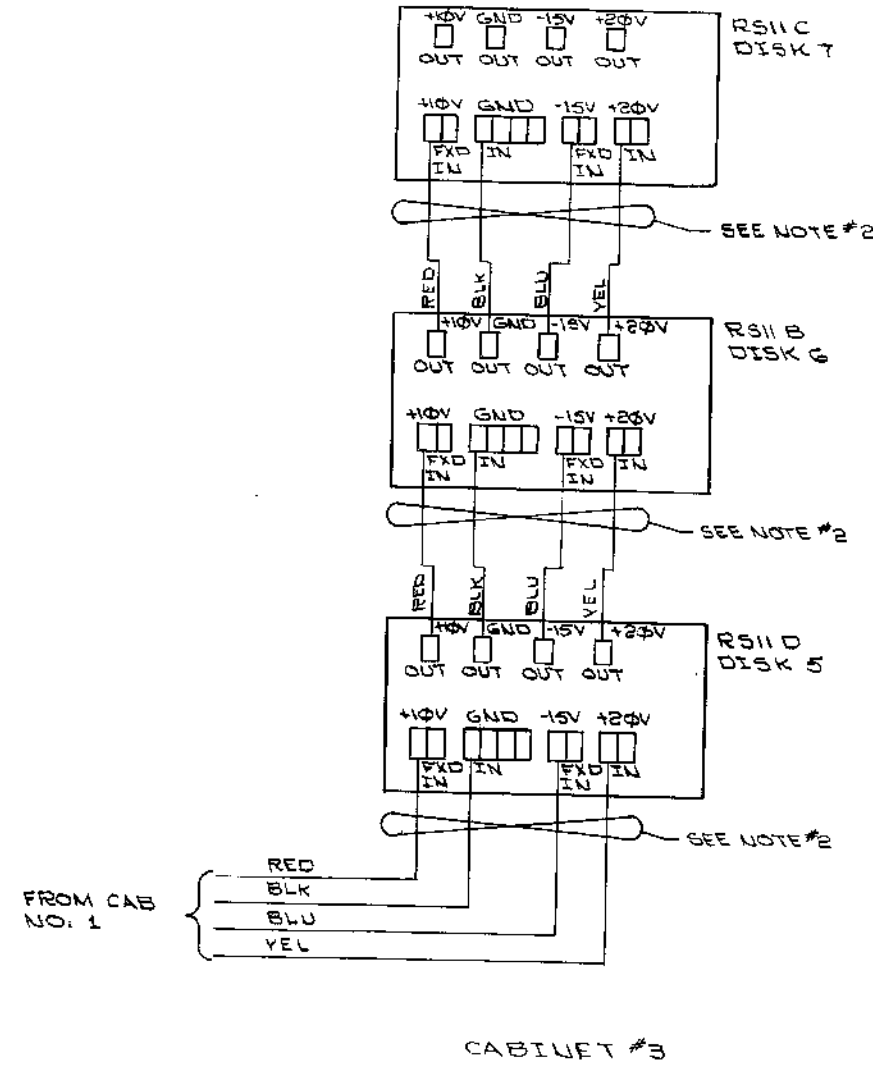
This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

27-0-11-RFII-0-27

- NOTES:
- ∞ SYMBOL INDICATES ALL WIRING TO BE #14 AWG TWISTED PAIRS UNLESS OTHERWISE SPECIFIED.
 - TWISTED PAIRS: YEL/BLK AND RED/BLU



CABINET #2



CABINET #3

DC WIRING

REV	
CHG	
CHK	

DEC FORM NO. 000 100

FIRST USED ON OPTION/MODEL
RF11/RS11

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
± .006 ± .125 ± .020
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS			
PWR WIRING (RF11)			
A ML-RF11-0		SIZE CODE	NUMBER
SCALE NONE		DIC RF11-0-27	REV.
SHEET 4 OF 4		DIST.	

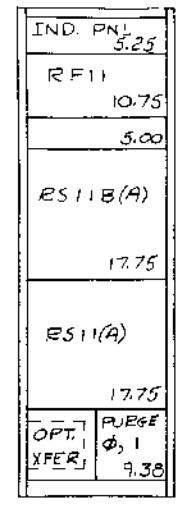
REV. NUMBER
D IC RF 11-0-27

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture of any item without written permission.

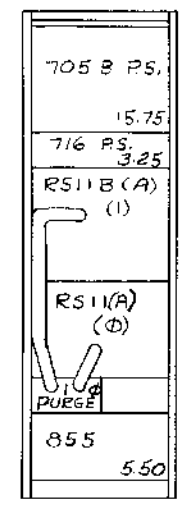
REV. 2
 PART NUMBER
 DAR RF11-0-28

- NOTES:
1. ALL DIM SHOWN ARE FOR REF. ONLY & ONLY INDICATE APPROX. SPACE USED.
 2. THE SUFFIX (A) DESIGNATES 50HZ POWER.

CABINET #1

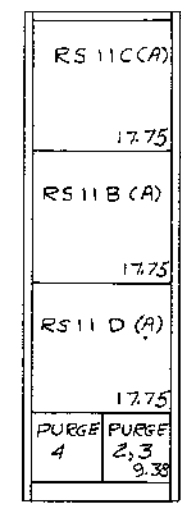


FRONT

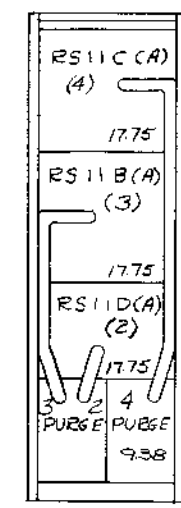


REAR

CABINET #2

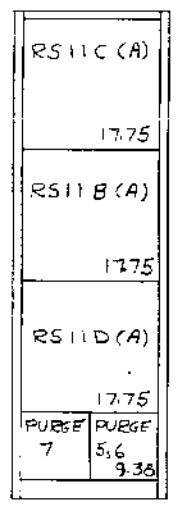


FRONT

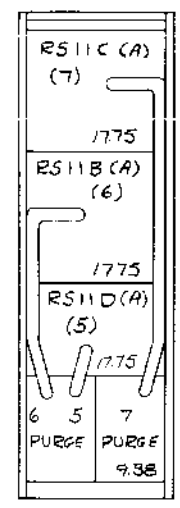


REAR

CABINET #3

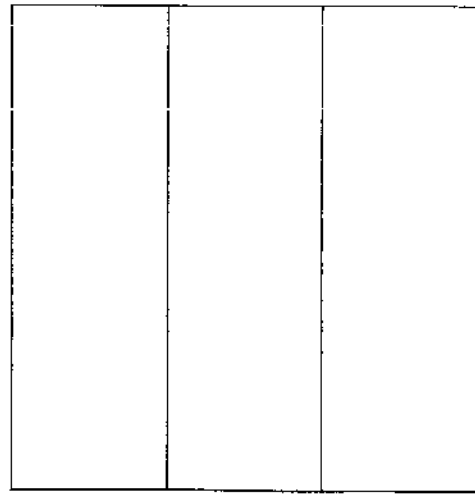


FRONT



REAR

CAB #3 CAB #2 CAB #1



FRONT SHOWING ORDER OF CAB ASSEMBLY TOGETHER

REV.	CHANGE NO.	DATE
1	A	7-17-72

REVISIONS
 CHK. JENKINS
 7-17-72


FIRST USED ON OPTION/MODEL
 RF11

DO NOT SCALE DRAWING	UNLESS OTHERWISE SPECIFIED
TOLERANCES	DECIMALS FRACTIONS ANGLES
±.005	±.004 ±.030
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	
MATERIAL	FINISH
+	+

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
TITLE RF11/RS11 ARRANGEMENT			
NEXT HIGHER ASSY A-ML-RF11-0		SIZE CODE DAR RF11-0-28	NUMBER REV. A
SCALE		SHEET 1 OF 1	

DRWG NO	REV LTR
K-WL-RF11-0-29	A

REVISIONS			
REV LTR	ECO NO	DATE	ENG
A	00008	7-5-72	S.J.

DRAWN <i>E. Blon</i>	DATE 25 SEPT 70	 digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE WIRE LIST (RF II)		
CHECKED <i>A. Hickey</i>	DATE 11/2/70		FOR TAPE* FILE*		
ENG <i>E. Eubank</i>	DATE 11/12-70		ASSY NO A-ML-RF11-0	SIZE K	CODE WL
PROJ ENG <i>E. Eubank</i>	DATE 11/12-70		DWG. NO. RF11-0-29	REV LTR A	
PROD <i>A. Hall</i>	DATE 11/12/70	SCALE —/—	SHEET 1	OF 1	
		DIST.			

RF11.8 RUN NAME	A/P PIN NAME	WRP288.V17(17) 06/22/72 ORDER PIN	BAY ORDER	G DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 3 RUN NUMBER
*3V R15U1	B16A1		1-01 *	RF11=14=2	2					11
*3V R15U1	B15A1		1-02 *		1					11
*3V R15U1	B15U1		1-03 *							11
*3V R15U1			1					8-4/8		11
*3V R21U1	B21U1		1-01 *		1					12
*3V R21U1	B22A1	B22K2	1-02 *		2					12
*3V R21U1	B22K2		1-03 *					9-6/8		12
*3V R21U1			1							12
*3V R21V1	B20A1		1-01 *	RF11=12=2	2					13
*3V R21V1	B20K2		1-02 *	RF11=12=2	1					13
*3V R21V1	B21V1		1-03 *	RF11=12=2						13
*3V R21V1			1					8-6/8		13
*3V R24U1	B24A1		1-01 *	RF11=12=2	1					14
*3V R24U1	B24B1		1-02 *	RF11=12=2	1					14
*3V R24U1	B24D2		1-03 *	RF11=13=2	1					14
*3V R24U1	B24C1		1-04 *	RF11=12=2	1					14
*3V R24U1	B24E2		1-05 *	RF11=13=2	1					14
*3V R24U1	B24F2		1-06 *	RF11=13=2	1					14
*3V R24U1	B24K2		1-07 *	RF11=13=2	1					14
*3V R24U1	B24L2		1-08 *	RF11=12=2	1					14
*3V R24U1	B24N1		1-09 *	RF11=13=1	1					14
*3V R24U1	B24M1		1-10 *	RF11=13=1	1					14
*3V R24U1	B24M2		1-11 *	RF11=12=2	1					14
*3V R24U1	B24P1		1-12 *	RF11=12=2	1					14
*3V R24U1	B24U1		1-13 *	RF11=12=2	1					14
*3V R24U1			1					32-4/8		14
*3V C06U1	C06T2		1-01 *	RF11=11	1					15
*3V C06U1	C06U1		1-02 *	RF11=11						15
*3V C06U1	C06H1		1-03 *	RF11=11						15
*3V C06U1			1					7-1/8		15
*3V C12U1	C08F1		1-01 *	RF11=21	1					16
*3V C12U1	C08B1		1-02 *	RF11=21	1					16
*3V C12U1	C12A1		1-03 *	RF11=12=2	1					16
*3V C12U1	C12H2		1-04 *	RF11=11	1					16
*3V C12U1	C12L1		1-05 *	RF11=11	1					16
*3V C12U1	C12P2		1-06 *	RF11=11	1					16
*3V C12U1	C12T2		1-07 *	RF11=11	1					16
*3V C12U1	C12U1		1-08 *	RF11=11	1					16
*3V C12U1			1					24-0/8		16

RF11.8 RUN NAME	A/P PIN NAME	WRP288.V17(17) 06/22/72 ORDER PIN	BAY ORDER	G DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 4 RUN NUMBER
*3V C13U1	C10H2		1-01 *	RF11=11	1					17
*3V C13U1	C10J2		1-02 *	RF11=11	1					17
*3V C13U1	C10N2		1-03 *	RF11=11	1					17
*3V C13U1	C10P2		1-04 *	RF11=11	1					17
*3V C13U1	C13U1		1-05 *	RF11=11	1					17
*3V C13U1			1					13-0/8		17
*3V C17U1	C21N2		1-01 *		1					18
*3V C17U1	C19K2		1-02 *	RF11=20=1	1					18
*3V C17U1	C19A1		1-03 *	RF11=10	1					18
*3V C17U1	C18A1		1-04 *	RF11=11	1					18
*3V C17U1	C18K2		1-05 *	RF11=11	1					18
*3V C17U1	C17U1		1-06 *	RF11=10	1					18
*3V C17U1			1					20-6/8		18
*3V C26U1	C25S1		1-01 *	RF11=17	2					19
*3V C26U1	C25S2		1-02 *	RF11=17	1					19
*3V C26U1	C26U1		1-03 *	RF11=17						19
*3V C26U1			1					5-4/8		19
*3V C26V1	C23K1		1-01 *	RF11=15=1	1					20
*3V C26V1	C23D1		1-02 *	RF11=15=1	1					20
*3V C26V1	C23F2		1-03 *	RF11=15=1	1					20
*3V C26V1	C24K1		1-04 *	RF11=15=1	1					20
*3V C26V1	C24D1		1-05 *	RF11=15=1	1					20
*3V C26V1	C24F2		1-06 *	RF11=15=1	1					20
*3V C26V1	C24N2		1-07 *	RF11=15=1	1					20
*3V C26V1	C24U2		1-08 *	RF11=15=1	1					20
*3V C26V1	C24R1		1-09 *	RF11=15=1	1					20
*3V C26V1	C23N2		1-10 *	RF11=15=1	1					20
*3V C26V1	C23R1		1-11 *	RF11=15=1	1					20
*3V C26V1	C23U2		1-12 *	RF11=15=1	1					20
*3V C26V1	C26V1		1-13 *	RF11=15=1	1					20
*3V C26V1			1					39-1/8		20
*3V D12U1	D11D1		1-01 *	RF11=19	1					21
*3V D12U1	D11E1		1-02 *	RF11=19	1					21
*3V D12U1	D11F1		1-03 *	RF11=19	1					21
*3V D12U1	D12U1		1-04 *	RF11=19	1					21
*3V D12U1	D14K1		1-05 *	RF11=19	1					21
*3V D12U1	D14D1		1-06 *	RF11=19	1					21
*3V D12U1	D14F2		1-07 *	RF11=19	1					21
*3V D12U1	D14N2		1-08 *	RF11=19	1					21
*3V D12U1	D14R1		1-09 *	RF11=19	1					21
*3V D12U1	D14T2		1-10 *	RF11=19	1					21
*3V D12U1			1					29-6/8		21

REF ID	RUN NAME	A/P	PIN NAME	ORDER	ORDER	BAY	PC	Y	X	Z	REMARKS	26-JAN-73	LENGTH	1151	EXCEPTIONS	PAGE 7	RUN	NUMBER
		WRP288.V17(17)				06/22/72												
	-LOCK (B)	L	D28U1	1-01 *						2					TERM HERET	35		
	-LOCK (B)	L	D29V2	1-02 *						1					CABLE	35		
	-LOCK (B)	L	D31V2	1-03 *						1						35		
	-LOCK (B)	L	D31V2	1						1						35		
	A TEST	L	C13V2	1-01 *						2						36		
	A TEST	L	D21R2	1-02 *						1						36		
	A TEST	L	D21U2	1-03 *						1						36		
	A TEST	L	D21U2	1						1						36		
	A01 IN	H	B05D2	1-01 *						1						37		
	A01 IN	H	B10C1	1-02 *						1						37		
	A01 IN	H	B10C1	1						1						37		
	A02 IN	H	B05F2	1-01 *						1						38		
	A02 IN	H	B10B1	1-02 *						1						38		
	A02 IN	H	B10B1	1						1						38		
	A03 IN	H	B05J2	1-01 *						1						39		
	A03 IN	H	B10B2	1-02 *						1						39		
	A03 IN	H	B10B2	1						1						39		
	A10D1	L	A10D1	1-01 *						1						40		
	A10D1	L	A10D2	1-02 *						1						40		
	A10D1	L	A10D2	1						1						40		
	A10M1	L	A10M1	1-01 *						1						41		
	A10M1	L	A10M2	1-02 *						1						41		
	A10M1	L	A10M2	1						1						41		
	A10J2	L	A10J2	1-01 *						1						42		
	A10J2	L	A10J1	1-02 *						2						42		
	A10J2	L	A07U1	1-03 *						1						42		
	A10J2	L	A07U1	1						1						42		
	A10N1	L	A10N1	1-01 *						1						43		
	A10N1	L	A15R1	1-02 *						1						43		
	A10N1	L	A15R1	1						1						43		
	A10U1	L	A10U1	1-01 *						1						44		
	A10U1	L	A15K2	1-02 *						1						44		
	A10U1	L	A15K2	1						1						44		

REF ID	RUN NAME	A/P	PIN NAME	ORDER	ORDER	BAY	PC	Y	X	Z	REMARKS	26-JAN-73	LENGTH	1151	EXCEPTIONS	PAGE 8	RUN	NUMBER
		WRP288.V17(17)				06/22/72												
	A10V1	L	A10N2	1-01 *						2						45		
	A10V1	L	A10P2	1-02 *						1						45		
	A10V1	L	A10R2	1-03 *						2						45		
	A10V1	L	A10V1	1-04 *						2						45		
	A10V1	L	A10V1	1						1						45		
	A13C1	L	A13C1	1-01 *						1						46		
	A13C1	L	A13E1	1-02 *						1						46		
	A13C1	L	A13E1	1						1						46		
	A13F1	L	A13F1	1-01 *						2						47		
	A13F1	L	A13E2	1-02 *						1						47		
	A13F1	L	A13J2	1-03 *						2						47		
	A13F1	L	A13J1	1-04 *						1						47		
	A13F1	L	A13M1	1-05 *						2						47		
	A13F1	L	A13M2	1-06 *						1						47		
	A13F1	L	A13R2	1-07 *						2						47		
	A13F1	L	A13R1	1-08 *						1						47		
	A13F1	L	A13U2	1-09 *						1						47		
	A13F1	L	A13U2	1						1						47		
	A13F2	L	A13F2	1-01 *						1						48		
	A13F2	L	B13D1	1-02 *						1						48		
	A13F2	L	B13D1	1						1						48		
	A13K1	L	A13K1	1-01 *						1						49		
	A13K1	L	B13F2	1-02 *						1						49		
	A13K1	L	B13F2	1						1						49		
	A13K2	L	A13K2	1-01 *						1						50		
	A13K2	L	B13K1	1-02 *						1						50		
	A13K2	L	B13K1	1						1						50		
	A13N1	L	A13N1	1-01 *						1						51		
	A13N1	L	B13N2	1-02 *						1						51		
	A13N1	L	B13N2	1						1						51		
	A13N2	L	A13N2	1-01 *						1						52		
	A13N2	L	B13R1	1-02 *						1						52		
	A13N2	L	B13R1	1						1						52		
	A13S1	L	A13S1	1-01 *						1						53		
	A13S1	L	B13U2	1-02 *						1						53		
	A13S1	L	B13U2	1						1						53		

RF11.B RUN NAME	A/P PIN	WPP288.V17(17) 06/22/72 ORDER PIN	0 DRAW RV PG Y	X	Z	REMARKS	26=JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 9 RUN NUMBER
A13S2	A13S2	1-01 *	RF11=18=1		1				54
A13S2	B15L1	1-02 *	RF11=18=1						54
A13S2		1					6-0/8		54
A13V2	A13V2	1-01 *	RF11=18=1		1				55
A13V2	B15H2	1-02 *	RF11=18=1						55
A13V2		1					5-0/8		55
A14C1	A14C1	1-01 *	RF11=18=2		1				56
A14C1	A14E1	1-02 *	RF11=18=2						56
A14C1		1					2-6/8		56
A14F1	A14F1	1-01 *	RF11=18=2		2				57
A14F1	A14E2	1-02 *	RF11=18=2		1				57
A14F1	A14J2	1-03 *	RF11=18=2		2				57
A14F1	A14J1	1-04 *	RF11=18=2		1				57
A14F1	A14M1	1-05 *	RF11=18=2		2				57
A14F1	A14M2	1-06 *	RF11=18=2		1				57
A14F1	A14R2	1-07 *	RF11=18=2		2				57
A14F1	A14R1	1-08 *	RF11=18=2		1				57
A14F1	A14U2	1-09 *	RF11=18=2		1				57
A14F1		1					22-1/8		57
A14F2	A14F2	1-01 *	RF11=18=2		1				58
A14F2	B14D1	1-02 *	RF11=18=2						58
A14F2		1					5-6/8		58
A14K1	A14K1	1-01 *	RF11=18=2		1				59
A14K1	B14F2	1-02 *	RF11=18=2						59
A14K1		1					5-6/8		59
A14K2	A14K2	1-01 *	RF11=18=2		1				60
A14K2	B14K1	1-02 *	RF11=18=2						60
A14K2		1					6-0/8		60
A14N1	A14N1	1-01 *	RF11=18=2		1				61
A14N1	B14N2	1-02 *	RF11=18=2						61
A14N1		1					6-0/8		61
A14N2	A14N2	1-01 *	RF11=18=2		1				62
A14N2	B14R1	1-02 *	RF11=18=2						62
A14N2		1					6-2/8		62
A14S1	A14S1	1-01 *	RF11=18=2		1				63
A14S1	B14U2	1-02 *	RF11=18=2						63
A14S1		1					6-2/8		63

RF11.B RUN NAME	A/P PIN	WPP288.V17(17) 06/22/72 ORDER PIN	0 DRAW RV PG Y	X	Z	REMARKS	26=JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 10 RUN NUMBER
A14S2	A14S2	1-01 *	RF11=18=2		1				64
A14S2	B15T2	1-02 *	RF11=18=2						64
A14S2		1					6-4/8		64
A14V2	A14V2	1-01 *	RF11=18=2		1				65
A14V2	B15P2	1-02 *	RF11=18=2						65
A14V2		1					5-4/8		65
A16C1	A16C1	1-01 *	RF11=14=2		1				66
A16C1	A16D1	1-02 *	RF11=14=2						66
A16C1		1					2-3/8		66
A16K2	A16H1	1-01 *	RF11=14=1		1				67
A16K2	A16K2	1-02 *	RF11=14=1						67
A16K2		1					2-6/8		67
A16S1	A16S1	1-01 *	RF11=18=2		1				68
A16S1	A16S1	1-02 *	RF11=18=2						68
A16S1		1					6-0/8		68
A16S2	A16S2	1-01 *	RF11=13=2		1				69
A16S2	A20R1	1-02 *	RF11=13=2						69
A16S2		1					5-0/8		69
A16V2	A16M1	1-01 *	RF11=18=1		1				70
A16V2	A16V2	1-02 *	RF11=18=1						70
A16V2		1					7-2/8		70
A17C1	A17C1	1-01 *	RF11=14=1		1				71
A17C1	A17D1	1-02 *	RF11=14=1		2				71
A17C1	A17E1	1-03 *	RF11=14=1		1				71
A17C1		1					4-6/8		71
A17F1	A17F1	1-01 *	RF11=14=1		2				72
A17F1	A17E2	1-02 *	RF11=14=1		1				72
A17F1	A17J2	1-03 *	RF11=14=1		2				72
A17F1	A17J1	1-04 *	RF11=14=1		1				72
A17F1	A17M1	1-05 *	RF11=14=1		2				72
A17F1	A17M2	1-06 *	RF11=14=1		1				72
A17F1	A17R2	1-07 *	RF11=14=1		2				72
A17F1	A17R1	1-08 *	RF11=14=1		1				72
A17F1	A17U2	1-09 *	RF11=14=1		1				72
A17F1		1					22-1/8		72
A17F2	A17F2	1-01 *	RF11=14=1		1				73
A17F2	B18D1	1-02 *	RF11=14=1						73
A17F2		1					5-6/8		73

RF11.B RUN NAME	A/P PIN NAME	WRP288.V17(17).06/22/72 ORDER PIN	Q DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 13 RUN NUMBER
A19K1	A19K1	1-01 *	RF11=12=1		1				94
A19K1	A20J1	1-02 *	RF11=12=1		1				94
A19K1		1					3-6/8		94
A19N1	A19N1	1-01 *	RF11=12=1		1				95
A19N1	C06H2	1-02 *	RF11=12=1		1				95
A19N1		1					13-J/8		95
A19S1	A19S1	1-01 *	RF11=12=1		1				96
A19S1	C06D1	1-02 *	RF11=12=1		1				96
A19S1		1					13-2/8		96
A19V2	A19V2	1-01 *	RF11=12=1		1				97
A19V2	A20P2	1-02 *	RF11=12=1		1				97
A19V2		1					3-6/8		97
A21E1	A21E1	1-01 *	RF11=13=2		1				98
A21E1	B21J1	1-02 *	RF11=13=2		1				98
A21E1		1					6-2/8		98
A21J2	A21J2	1-01 *	RF11=13=2		1				99
A21J2	B22M2	1-02 *	RF11=13=2		1				99
A21J2		1					6-4/8		99
A21L1	A21L1	1-01 *	RF11=12=2		1				100
A21L1	B2181	1-02 *	RF11=12=2		1				100
A21L1		1					4-6/8		100
A21S1	A21S1	1-01 *	RF11=13=2		1				101
A21S1	B22J1	1-02 *	RF11=13=2		1				101
A21S1		1					5-4/8		101
A23D2	A23D2	1-01 *	RF11=13=1		2				102
A23D2	A23F1	1-02 *	RF11=13=1		1				102
A23D2	A23J2	1-03 *	RF11=13=1		2				102
A23D2	A23J1	1-04 *	RF11=13=1		1				102
A23D2	A23M2	1-05 *	RF11=13=1		2				102
A23D2	A23M1	1-06 *	RF11=13=1		1				102
A23D2	A23R1	1-07 *	RF11=13=1		1				102
A23D2		1					16-6/8		102
A23F2	A23F2	1-01 *	RF11=13=1		1				103
A23F2	B23D1	1-02 *	RF11=13=1		1				103
A23F2		1					5-6/8		103

RF11.B RUN NAME	A/P PIN NAME	WRP288.V17(17).06/22/72 ORDER PIN	Q DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 14 RUN NUMBER
A23K1	A23K1	1-01 *	RF11=13=1		1				104
A23K1	B23U2	1-02 *	RF11=13=1		1				104
A23K1		1					7-0/8		104
A23K2	A23K2	1-01 *	RF11=13=1		1				105
A23K2	B23R1	1-02 *	RF11=13=1		1				105
A23K2		1					6-4/8		105
A23N1	A23N1	1-01 *	RF11=13=1		1				106
A23N1	B23N2	1-02 *	RF11=13=1		1				106
A23N1		1					6-0/8		106
A23N2	A23N2	1-01 *	RF11=13=1		1				107
A23N2	B23K1	1-02 *	RF11=13=1		1				107
A23N2		1					5-6/8		107
A23S1	A23S1	1-01 *	RF11=13=1		1				108
A23S1	B23F2	1-02 *	RF11=13=1		1				108
A23S1		1					5-0/8		108
A25B1	A25B1	1-01 *	RF11=12=2		1				109
A25B1	A25B1	1-02 *	RF11=12=2		1				109
A25B1		1					4-4/8		109
A25F2	A25F2	1-01 *	RF11=12=2		1				110
A25F2	A25F2	1-02 *	RF11=12=2		1				110
A25F2		1					4-6/8		110
A25J2	A19M2	1-01 *	RF11=12=1		2				111
A25J2	A20E2	1-02 *	RF11=12=1		1				111
A25J2	A20B1	1-03 *	RF11=12=1		2				111
A25J2	A25J2	1-04 *	RF11=12=1		1				111
A25J2		1					13-2/8		111
A25U1	A25U1	1-01 *	RF11=12=2		1				112
A25U1	B26M1	1-02 *	RF11=12=2		1				112
A25U1		1					5-4/8		112
A26D1	A26D1	1-01 *	RF11=12=2		1				113
A26D1	A26L2	1-02 *	RF11=12=2		1				113
A26D1		1					4-0/8		113
A26F2	A25V1	1-01 *	RF11=12=2		1				114
A26F2	A26F2	1-02 *	RF11=12=2		1				114
A26F2		1					5-2/8		114

RF11.B RUN NAME	A/P PIN NAME	WRP288.V17(17) 06/22/72 ORDER PIN ORDER	Q DRAW RV PG Y X Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 21 RUN NUMBER
B09S1	B07U2	1-01 *					175
B09S1	B09S1	1-02 *	1				175
B09S1		1			4-0/8		175
B09S2	B09S2	1-01 *					176
B09S2	C1681	1-02 *	1				176
B09S2		1			7-2/8		176
B11U1	B09V2	1-01 *					177
B11U1	B11U1	1-02 *	1				177
B11U1		1			3-6/8		177
B20R1	A25N2	1-01 *					178
B20R1	B20R1	1-02 *	2				178
B20R1	B20U2	1-03 *	1				178
B20R1		1			10-0/8		178
B21D1	B20E2	1-01 *					179
B21C1	B21C1	1-02 *	1				179
B21C1		1			2-6/8		179
B21F2	B21F2	1-01 *					180
B21F2	B22D2	1-02 *	1				180
B21F2		1			3-4/8		180
B21K1	B21K1	1-01 *					181
B21K1	B22E2	1-02 *	1				181
B21K1		1			3-7/8		181
B24J2	B24J2	1-01 *					182
B24J2	B22N2	1-02 *	2				182
B24J2	B22K1	1-03 *	1				182
B24J2	A22K1	1-04 *	1				182
B24J2	A20P1	1-05 *	1				182
B24J2	B07D2	1-06 *	1				182
B24J2		1			28-3/8		182
B24L1	A20H1	1-01 *					183
B24L1	A20L2	1-02 *	1				183
B24L1	B24L1	1-03 *	2				183
B24L1	C06D2	1-04 *	1				183
B24L1	C06A1	1-05 *	1				183
B24L1		1			26-6/8		183

RF11.B RUN NAME	A/P PIN NAME	WRP288.V17(17) 06/22/72 ORDER PIN ORDER	Q DRAW RV PG Y X Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 22 RUN NUMBER
B24V2	B24V2	1-01 *					184
B24V2	C11J2	1-02 *	2				184
B24V2	C11H2	1-03 *	1				184
B24V2		1			13-1/8		184
B25F2	B20D2	1-01 *					185
B25F2	B25F2	1-02 *	1				185
B25F2	B25P2	1-03 *	2				185
B25F2		1			9-6/8		185
B25J1	A22T2	1-01 *					186
B25J1	B25J1	1-02 *	1				186
B25J1	B26U1	1-03 *	2				186
B25J1		1			10-0/8		186
B25K1	B25K1	1-01 *					187
B25K1	B26P1	1-02 *	1				187
B25K1		1			3-6/8		187
B25K2	B23C1	1-01 *					188
B25K2	B25K2	1-02 *	1				188
B25K2		1			4-7/8		188
B25N1	B25N1	1-01 *					189
B25N1	B25R2	1-02 *	1				189
B25N1		1			2-6/8		189
B25S2	B25S2	1-01 *					190
B25S2	B25E2	1-02 *	1				190
B25S2		1			4-2/8		190
B26D1	B24M2	1-01 *					191
B26D1	B26D1	1-02 *	1				191
B26D1		1			4-2/8		191
B26H2	B20J1	1-01 *					192
B26H2	B26H2	1-02 *	1				192
B26H2		1			6-2/8		192
B26M2	B24F1	1-01 *					193
B26M2	B24J1	1-02 *	1				193
B26M2	B24H1	1-03 *	1				193
B26M2	B24K1	1-04 *	1				193
B26M2	B26M2	1-05 *	1				193
B26M2		1			12-3/8		193

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER NAME	Q	DRAW RV PG Y	X	Z	REMARKS	26=JAN=73 LENGTH	1151 EXCEPTIONS	PAGE 23 RUN NUMBER
R26N1	A25E2	1-01 *	RF11=12=2		1				194
R26N1	B26N1	1-02 *	RF11=12=2						194
		1					7=0/8		194
R27C1	A22N2	1-01 *	RF11=13=2		2				195
R27C1	A22R1	1-02 *	RF11=13=2		1				195
R27C1	A22S2	1-03 *	RF11=13=2		2				195
R27C1	B27C1	1-04 *	RF11=13=2						195
		1					11=5/8		195
R27F1	B27F1	1-01 *	RF11=24		1				196
R27F1	B29S2	1-02 *	RF11=24				4=5/8		196
		1							196
R27K1	B19M2	1-01 *	RF11=13=1		1				197
R27K1	B27K1	1-02 *	RF11=13=1				7=0/8		197
		1							197
R27K2	B22H1	1-01 *	RF11=13=2		1				198
R27K2	B22L2	1-02 *	RF11=13=2		2				198
R27K2	B27K2	1-03 *	RF11=13=2				8=3/8		198
		1							198
R27N1	B22R1	1-01 *	RF11=13=1		1				199
R27N1	B27N1	1-02 *	RF11=13=1				5=6/8		199
		1							199
R27N2	B27N2	1-01 *	RF11=14=2		1				200
R27N2	B27R1	1-02 *	RF11=14=2				2=6/8		200
		1							200
R27S1	B1801	1-01 *	RF11=14=2		1				201
R27S1	B27S1	1-02 *	RF11=14=2				9=6/8		201
		1							201
R28E1	A29J2	1-01 *	RF11=12=2		1				202
R28E1	A28H2	1-02 *	RF11=12=2		2				202
R28E1	B28E1	1-03 *	RF11=12=2				8=1/8		202
		1							202
R28P2	B28P2	1-01 *	RF11=11		1				203
R28P2	C18P1	1-02 *	RF11=11				10=6/8		203
		1							203
R28S1	A25M2	1-01 *	RF11=12=1		1				204
R28S1	R28S1	1-02 *	RF11=12=1				7=4/8		204
		1							204

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER NAME	Q	DRAW RV PG Y	X	Z	REMARKS	26=JAN=73 LENGTH	1151 EXCEPTIONS	PAGE 24 RUN NUMBER
PC 00 (0)	C13J1	1-01 *	RF11=19		1				205
PC 00 (0)	D15M1	1-02 *	RF11=19		2				205
PC 00 (0)	D19F2	1-03 *	RF11=19				13=0/8		205
		1							205
PC 00 (1)	C13M2	1-01 *	RF11=19		1				206
PC 00 (1)	D15N1	1-02 *	RF11=19				6=6/8		206
		1							206
PC 00 (0)	C13H2	1-01 *	RF11=19		2				207
PC 00 (0)	D14E1	1-02 *	RF11=19		1				207
PC 00 (0)	D14D2	1-03 *	RF11=19				8=5/8		207
		1							207
PC 00 (1)	D14P1		RF11=19					1=PIN RUN	208
PC 01 (0)	D14H1	1-01 *	RF11=19		1				209
PC 01 (0)	D14M2	1-02 *	RF11=19				2=6/8		209
		1							209
PC 01 (1)	D14E2	1-01 *	RF11=19		1				210
PC 01 (1)	D14J2	1-02 *	RF11=19				2=7/8		210
		1							210
PC 02 (0)	D14L1	1-01 *	RF11=19		1				211
PC 02 (0)	D14L2	1-02 *	RF11=19				2=6/8		211
		1							211
PC 02 (1)	D14J1	1-01 *	RF11=19		1				212
PC 02 (1)	D14M1	1-02 *	RF11=19				2=7/8		212
		1							212
PC 03 (0)	D14N1	1-01 *	RF11=19		1				213
PC 03 (0)	D14P2	1-02 *	RF11=19				2=3/8		213
		1							213
PC 03 (1)	D14M2	1-01 *	RF11=19		1				214
PC 03 (1)	D14R2	1-02 *	RF11=19				2=7/8		214
		1							214
PC 04 (0)	D14P1	1-01 *	RF11=19		2				215
PC 04 (0)	D14S2	1-02 *	RF11=19		1				215
PC 04 (0)	D14U1	1-03 *	RF11=19				5=4/8		215
		1							215
PC 04 (1)	D14S1		RF11=19					1=PIN RUN	216

RF11.8 RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER	0	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 27 RUN NUMBER
RR 09 (0)	H B14J2		RF11=18=2					1-PIN RUN	239
RR 09 (1)	H B32K2	1-01 *	RF11=02					CABLE	240
RR 09 (1)	H B12D1	1-02 *	RF11=06=2						240
RR 09 (1)	H B14H2	1-03 *	RF11=18=2					TERM HERE?	240
RR 09 (1)	H C15L2	1-04 *	RF11=20=2						240
RR 10 (0)	H B14M1	1	RF11=18=2				24=6/8	1-PIN RUN	241
RR 10 (1)	H B32J2	1-01 *	RF11=02					CABLE	242
RR 10 (1)	H B12D2	1-02 *	RF11=06=2						242
RR 10 (1)	H B14L1	1-03 *	RF11=18=2					TERM HERE?	242
RR 10 (1)	H C15L1	1-04 *	RF11=20=2						242
RR 11 (0)	H B14R2	1	RF11=18=2				23=5/8	1-PIN RUN	243
RR 11 (1)	H B32H2	1-01 *	RF11=02					CABLE	244
RR 11 (1)	H B12H1	1-02 *	RF11=06=2						244
RR 11 (1)	H B14P2	1-03 *	RF11=18=2					TERM HERE?	244
RR 11 (1)	H C15H2	1-04 *	RF11=20=2						244
RR 12 (0)	H B14U1	1	RF11=18=2				23=3/8	1-PIN RUN	245
RR 12 (1)	H B32F2	1-01 *	RF11=02					CABLE	246
RR 12 (1)	H B12M2	1-02 *	RF11=06=2						246
RR 12 (1)	H B14S1	1-03 *	RF11=18=2					TERM HERE?	246
RR 12 (1)	H C15H1	1-04 *	RF11=20=2						246
RR 13 (0)	H B14V1	1	RF11=18=2				22=4/8	1-PIN RUN	247
RR 13 (1)	H B12L1	1-01 *	RF11=06=2					TERM HERE?	248
RR 13 (1)	H B14V2	1-02 *	RF11=18=2						248
RR 13 (1)	H C15D2	1-03 *	RF11=20=2					CABLE	248
RR 13 (1)	H B32E2	1-04 *	RF11=02						248
RR 14 (0)	H B15V2	1	RF11=18=2				22=2/8	1-PIN RUN	249
RR 14 (1)	H B32D2	1-01 *	RF11=02					CABLE	250
RR 14 (1)	H B12L2	1-02 *	RF11=06=2						250
RR 14 (1)	H B15U2	1-03 *	RF11=18=2					TERM HERE?	250
RR 14 (1)	H C15D1	1-04 *	RF11=20=2						250

RF11.8 RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER	0	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 28 RUN NUMBER
RR 15 (0)	H B15S2		RF11=18=2					1-PIN RUN	251
RR 15 (1)	H B12P1	1-01 *	RF11=06=2					TERM HERE?	252
RR 15 (1)	H C15A1	1-02 *	RF11=20=2						252
RR 15 (1)	H B15R2	1-03 *	RF11=18=2					CABLE	252
RR 15 (1)	H B32C2	1-04 *	RF11=02				22=2/8		252
RR CLR (00-07)	L A15S1	1-01 *	RF11=18=1						253
RR CLR (00-07)	L B15D2	1-02 *	RF11=18=1						253
RR CLR (00-07)	L B15H1	1-03 *	RF11=18=1						253
RR CLR (00-07)	L B13K2	1-04 *	RF11=18=1						253
RR CLR (00-07)	L B13A1	1-05 *	RF11=18=1				15=7/8		253
RR CLR (08-15)	L A15P2	1-01 *	RF11=18=2						254
RR CLR (08-15)	L B15L2	1-02 *	RF11=18=2						254
RR CLR (08-15)	L B15P1	1-03 *	RF11=18=2						254
RR CLR (08-15)	L B14K2	1-04 *	RF11=18=2						254
RR CLR (08-15)	L B14A1	1-05 *	RF11=18=2				16=1/8		254
RR OUT	L A07P1	1-01 *	RF11=4						255
RR OUT	L B04J2	1-02 *	RF11=1				6=2/8		255
RR TO SR	H C14M1	1-01 *	RF11=20=1						256
RR TO SR	H C14J1	1-02 *	RF11=20=1						256
RR TO SR	H C14E1	1-03 *	RF11=20=1						256
RR TO SR	H C14B1	1-04 *	RF11=20=1						256
RR TO SR	H C14E2	1-05 *	RF11=20=1						256
RR TO SR	H C15E1	1-06 *	RF11=20=2						256
RR TO SR	H C15B1	1-07 *	RF11=20=2						256
RR TO SR	H C15E2	1-08 *	RF11=20=2						256
RR TO SR	H C15J2	1-09 *	RF11=20=2						256
RR TO SR	H C15J1	1-10 *	RF11=20=2						256
RR TO SR	H C14J2	1-11 *	RF11=20=1						256
RR TO SR	H C15M1	1-12 *	RF11=20=2						256
RR TO SR	H C15M2	1-13 *	RF11=20=2						256
RR TO SR	H C15R2	1-14 *	RF11=20=1						256
RR TO SR	H C15R1	1-15 *	RF11=20=2						256
RR TO SR	H C15U2	1-16 *	RF11=20=1						256
RR TO SR	H D22S1	1-17 *	RF11=20=1						256
RR TO SR	H D23M2	1-18 *	RF11=20=1				54=2/8		256

RF11.8 RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER PIN	Q	DRAW RV PG Y	X	Z	REMARKS	26=JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 29 RUN NUMBER
RTF (0)	H A24N1	1-01 *	RF11=12=2		1				
RTF (0)	H B22P2	1-02 *	RF11=13=2				6-6/8		257
RTF (0)		1							257
RTF (1)	H A12L1	1-01 *	RF11=06=2		2			TERM HERE?	258
RTF (1)	H B22R2	1-02 *	RF11=13=2		1			CABLE	258
RTF (1)	H A32H2	1-03 *	RF11=02		1		22-2/8		258
RTF (1)		1							
RTF (0)	H A21F2	1-01 *	RF11=13=2		1				259
RTF (0)	H B19V2	1-02 *	RF11=13=2				8-2/8		259
RTF (0)		1							259
RTF (1)	H A21D2	1-01 *	RF11=13=2		1				260
RTF (1)	H B19L2	1-02 *	RF11=13=2				7-4/8		260
RTF (1)		1							260
RTN	L B21P1	1-01 *	RF11=13=2		1				261
RTN	L C27H1	1-02 *	RF11=22				7-6/8		261
RTN		1							261
RTN (B)	H A21H2	1-01 *	RF11=13=2		1				262
RTN (B)	H B21T2	1-02 *	RF11=13=2		2				262
RTN (B)	H B21U2	1-03 *	RF11=13=2		1				262
RTN (B)	H B21S1	1-04 *	RF11=13=2		2				262
RTN (B)	H B19H1	1-05 *	RF11=13=2				16-5/8		262
RTN (B)		1							262
RTN (B)	L B21V2	1-01 *	RF11=13=2		1				263
RTN (B)	L D23B1	1-02 *	RF11=15=1				7-0/8		263
RTN (B)		1							263
RTNM	L B21R1	1-01 *	RF11=13=2		1				264
RTNM	L C08D1	1-02 *	RF11=21				10-6/8		264
RTNM		1							264
RTP	L B21L2	1-01 *	RF11=13=2		1				265
RTP	L C27D1	1-02 *	RF11=22				7-4/8		265
RTP		1							265
RTP (B)	H A21E2	1-01 *	RF11=13=2		1				266
RTP (B)	H B21N2	1-02 *	RF11=13=2		2				266
RTP (B)	H B21R2	1-03 *	RF11=13=2		1				266
RTP (B)	H B21P2	1-04 *	RF11=13=2		2				266
RTP (B)	H B19J1	1-05 *	RF11=13=2				16-4/8		266
RTP (B)		1							266

RF11.8 RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER PIN	Q	DRAW RV PG Y	X	Z	REMARKS	26=JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 30 RUN NUMBER
RTP (B)	L B21S2	1-01 *	RF11=13=2		1				267
RTP (B)	L D23A1	1-02 *	RF11=15=1				7-2/8		267
RTP (B)		1							267
RTPM	L B21M2	1-01 *	RF11=13=2		1				268
RTPM	L C08J1	1-02 *	RF11=21				11-6/8		268
RTPM		1							268
RUS A00	L A06K2	1-01 *	RF11=08		2			TERM HERE?	269
RUS A00	L B08H2	1-02 *	RF11=07		1			CABLE	269
RUS A00	L B02H2	1-03 *	RF11=01		2			CABLE	269
RUS A00	L B01H2	1-04 *	RF11=01				16-0/8		269
RUS A00		1							269
RUS A01	L A06J2	1-01 *	RF11=08		2			TERM HERE?	270
RUS A01	L B05C1	1-02 *	RF11=05		1			CABLE	270
RUS A01	L B02H1	1-03 *	RF11=01		2			CABLE	270
RUS A01	L B01H1	1-04 *	RF11=01				14-4/8		270
RUS A01		1							270
RUS A02	L A06L1	1-01 *	RF11=08		2			TERM HERE?	271
RUS A02	L B05E2	1-02 *	RF11=05		1			CABLE	271
RUS A02	L B02J2	1-03 *	RF11=01		2			CABLE	271
RUS A02	L B01J2	1-04 *	RF11=01				13-6/8		271
RUS A02		1							271
RUS A03	L A06K1	1-01 *	RF11=08		2			TERM HERE?	272
RUS A03	L B05H2	1-02 *	RF11=05		1			CABLE	272
RUS A03	L B02J1	1-03 *	RF11=01		2			CABLE	272
RUS A03	L B01J1	1-04 *	RF11=01				14-0/8		272
RUS A03		1							272
RUS A04	L B01K2	1-01 *	RF11=01		2			CABLE	273
RUS A04	L B02K2	1-02 *	RF11=01		1			CABLE	273
RUS A04	L A06V1	1-03 *	RF11=08		2			TERM HERE?	273
RUS A04	L B08U2	1-04 *	RF11=07				15-6/8		273
RUS A04		1							273
RUS A05	L B01K1	1-01 *	RF11=01		2			CABLE	274
RUS A05	L B02K1	1-02 *	RF11=01		1			CABLE	274
RUS A05	L A06S1	1-03 *	RF11=08		2			TERM HERE?	274
RUS A05	L B08V1	1-04 *	RF11=07				16-5/8		274
RUS A05		1							274

RF11-B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAM RV PG Y	X	Z	REMARKS	26=JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 31 RUN NUMBER
RUS A06	L A06R2	1-01 *	RF11E08			2				TERM HERE?	275
RUS A06	L B08U1	1-02 *	RF11E07			1					275
RUS A06	L B02L2	1-03 *	C RF11E01			2				CABLE	275
RUS A06	L B01L2	1-04 *	C RF11E01			1			16=6/8	CABLE	275
RUS A07	L A06P2	1-01 *	RF11E08			2				TERM HERE?	276
RUS A07	L B08P2	1-02 *	RF11E07			1					276
RUS A07	L B02L1	1-03 *	C RF11E01			2				CABLE	276
RUS A07	L B01L1	1-04 *	C RF11E01			1			16=6/8	CABLE	276
RUS A08	L B01M2	1-01 *	C RF11E01			2				CABLE	277
RUS A08	L R02M2	1-02 *	C RF11E01			1				CABLE	277
RUS A08	L B06K1	1-03 *	RF11E08			2				TERM HERE?	277
RUS A08	L B08N2	1-04 *	RF11E07			1			13=2/8	TERM HERE?	277
RUS A09	L B01M1	1-01 *	C RF11E01			2				CABLE	278
RUS A09	L B02M1	1-02 *	C RF11E01			1				CABLE	278
RUS A09	L B06E1	1-03 *	RF11E08			2				TERM HERE?	278
RUS A09	L B08R1	1-04 *	RF11E07			1			13=7/8	TERM HERE?	278
RUS A10	L B01N2	1-01 *	C RF11E01			2				CABLE	279
RUS A10	L B02N2	1-02 *	C RF11E01			1				CABLE	279
RUS A10	L B08P1	1-03 *	RF11E08			2				TERM HERE?	279
RUS A10	L B06D1	1-04 *	RF11E07			1			13=5/8	TERM HERE?	279
RUS A11	L B01N1	1-01 *	C RF11E01			2				CABLE	280
RUS A11	L B02N1	1-02 *	C RF11E01			1				CABLE	280
RUS A11	L B06B1	1-03 *	RF11E08			2				TERM HERE?	280
RUS A11	L B08L1	1-04 *	RF11E07			1			14=1/8	TERM HERE?	280
RUS A12	L B01P2	1-01 *	C RF11E01			2				CABLE	281
RUS A12	L B02P2	1-02 *	C RF11E01			1				CABLE	281
RUS A12	L B06P1	1-03 *	RF11E08			2				TERM HERE?	281
RUS A12	L B08C1	1-04 *	RF11E07			1			12=7/8	TERM HERE?	281
RUS A13	L B01P1	1-01 *	C RF11E01			2				CABLE	282
RUS A13	L B02P1	1-02 *	C RF11E01			1				CABLE	282
RUS A13	L B06L1	1-03 *	RF11E08			2				TERM HERE?	282
RUS A13	L B08K2	1-04 *	RF11E07			1			13=2/8	TERM HERE?	282

RF11-B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAM RV PG Y	X	Z	REMARKS	26=JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 32 RUN NUMBER
RUS A14	L B01R2	1-01 *	C RF11E01			2				CABLE	283
RUS A14	L B02R2	1-02 *	C RF11E01			1				CABLE	283
RUS A14	L B06K2	1-03 *	RF11E08			2				TERM HERE?	283
RUS A14	L B08K1	1-04 *	RF11E07			1			12=6/8	TERM HERE?	283
RUS A15	L B01R1	1-01 *	C RF11E01			2				CABLE	284
RUS A15	L B02R1	1-02 *	C RF11E01			1				CABLE	284
RUS A15	L B06J2	1-03 *	RF11E08			2				TERM HERE?	284
RUS A15	L B08D2	1-04 *	RF11E07			1			14=0/8	TERM HERE?	284
RUS A16	L A08T2	1-01 *	RF11E05			2				TERM HERE?	285
RUS A16	L B08E2	1-02 *	RF11E07			1					285
RUS A16	L B02S2	1-03 *	C RF11E01			2				CABLE	285
RUS A16	L B01S2	1-04 *	C RF11E01			1			15=2/8	CABLE	285
RUS A17	L A08F2	1-01 *	RF11E05			2				TERM HERE?	286
RUS A17	L B08D1	1-02 *	RF11E07			1					286
RUS A17	L B02S1	1-03 *	C RF11E01			2				CABLE	286
RUS A17	L B01S1	1-04 *	C RF11E01			1			16=6/8	CABLE	286
RUS AC LO	L B01F1	1-01 *	RF11E01			1					287
RUS AC LO	L B02F1	1-02 *	RF11E01			1			3=4/8		287
RUS BBSY	L A01P2	1-01 *	C RF11E01			2				CABLE	288
RUS BBSY	L A02P2	1-02 *	C RF11E01			1				CABLE	288
RUS BBSY	L A07D1	1-03 *	RF11E04			1			10=0/8	TERM HERE?	288
RUS RG4 IN	H B01E2	1-01 *	C RF11E01			1				CABLE	289
RUS RG4 IN	H B04S2	1-02 *	RF11E01			1			5=0/8	TERM HERE?	289
RUS RG4 OUT	H B02E2	1-01 *	RF11E1			1				TERM HERE?	290
RUS RG4 OUT	H B04T2	1-02 *	C RF11E1			1			4=6/8	CABLE	290
RUS RG5 IN	H B01B1	1-01 *	C RF11E01			1				CABLE	291
RUS RG5 IN	H B04P2	1-02 *	RF11E01			1			5=1/8	TERM HERE?	291

RF11.B RUN NAME	A/P PIN	NAME	ORDER PIN	SAY ORDER	Q	DRAW RV	PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 37 RUN NUMBER
RUS PB	L	A01N2	1-01 *	1	C	RF11=01			1			CABLE	327
RUS PB	L	A02N2	1-02 *	1	C	RF11=01					3-4/8	CABLE	327
RUS PB	L	A02N2	1-02 *	1	C	RF11=01							327
BUS SACK	L	A01R2	1-01 *	1	C	RF11=01			2			CABLE	328
BUS SACK	L	A02R2	1-02 *	1	C	RF11=01			1			CABLE	328
BUS SACK	L	A07T2	1-03 *	1	C	RF11=04			1		9-2/8	TERM HERE?	328
BUS SACK	L	A07T2	1-03 *	1	C	RF11=04							328
BUS SSVN	L	A07C1	1-01 *	1	C	RF11=04			1			TERM HERE?	329
BUS SSVN	L	A08N2	1-02 *	1	C	RF11=05			2				329
BUS SSVN	L	B05K2	1-03 *	1	C	RF11=05			1				329
BUS SSVN	L	B02U1	1-04 *	1	C	RF11=01			2			CABLE	329
BUS SSVN	L	B01U1	1-05 *	1	C	RF11=01						CABLE	329
BUS SSVN	L	B01U1	1-05 *	1	C	RF11=01					20-3/8	CABLE	329
C09C1		C09C1	1-01 *	1	C	RF11=21			1				330
C09C1		C09D1	1-02 *	1	C	RF11=21			2				330
C09C1		C09E1	1-03 *	1	C	RF11=21					4-6/8		330
C09C1		C09E1	1-03 *	1	C	RF11=21							330
C09F1		C07H1	1-01 *	1	C	RF11=21			2				331
C09F1		C07B1	1-02 *	1	C	RF11=21			1				331
C09F1		C07D2	1-03 *	1	C	RF11=21			2				331
C09F1		C09F1	1-04 *	1	C	RF11=21					10-4/8		331
C09F1		C09F1	1-04 *	1	C	RF11=21							331
C09F2		C07A1	1-01 *	1	C	RF11=21			1				332
C09F2		C09F2	1-02 *	1	C	RF11=21					5-0/8		332
C09F2		C09F2	1-02 *	1	C	RF11=21							332
C09K1		C07K2	1-01 *	1	C	RF11=21			1				333
C09K1		C09K1	1-02 *	1	C	RF11=21					3-6/8		333
C09K1		C09K1	1-02 *	1	C	RF11=21							333
C09S2		C09S2	1-01 *	1	C	RF11=21			1				334
C09S2		C09T2	1-02 *	1	C	RF11=21			2				334
C09S2		C09U2	1-03 *	1	C	RF11=21					4-6/8		334
C09S2		C09U2	1-03 *	1	C	RF11=21							334
C09V2		C08L1	1-01 *	1	C	RF11=21			1				335
C09V2		C08R1	1-02 *	1	C	RF11=21			2				335
C09V2		C09V2	1-03 *	1	C	RF11=21					7-3/8		335
C09V2		C09V2	1-03 *	1	C	RF11=21							335

RF11.B RUN NAME	A/P PIN	NAME	ORDER PIN	SAY ORDER	Q	DRAW RV	PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 38 RUN NUMBER
C10E2		C10D2	1-01 *	1	C	RF11=11			1				336
C10E2		C10E2	1-02 *	1	C	RF11=11					2-3/8		336
C10E2		C10E2	1-02 *	1	C	RF11=11							336
C10R2		C10R2	1-01 *	1	C	RF11=11			1				337
C10R2		C10V2	1-02 *	1	C	RF11=11					3-4/8		337
C10R2		C10V2	1-02 *	1	C	RF11=11							337
C11T2		C11T2	1-01 *	1	C	RF11=11			1				338
C11T2		C13R2	1-02 *	1	C	RF11=11					4-2/8		338
C11T2		C13R2	1-02 *	1	C	RF11=11							338
C13C1		B1901	1-01 *	1	C	RF11=13=2			1				339
C13C1		B19E1	1-02 *	1	C	RF11=13=2			2				339
C13C1		C13C1	1-03 *	1	C	RF11=13=2					10-0/8		339
C13C1		C13C1	1-03 *	1	C	RF11=13=2							339
C13F1		C13F1	1-01 *	1	C	RF11=19			1				340
C13F1		D15E2	1-02 *	1	C	RF11=19					6-6/8		340
C13F1		D15E2	1-02 *	1	C	RF11=19							340
C13F2		C13F2	1-01 *	1	C	RF11=19			1				341
C13F2		D2202	1-02 *	1	C	RF11=19					10-0/8		341
C13F2		D2202	1-02 *	1	C	RF11=19							341
C13K1		C13K1	1-01 *	1	C	RF11=19			1				342
C13K1		D15N2	1-02 *	1	C	RF11=19					7-4/8		342
C13K1		D15N2	1-02 *	1	C	RF11=19							342
C13K2		C13K2	1-01 *	1	C	RF11=19			1				343
C13K2		D14C1	1-02 *	1	C	RF11=19					5-2/8		343
C13K2		D14C1	1-02 *	1	C	RF11=19							343
C13N1		C13N1	1-01 *	1	C	RF11=19			1				344
C13N1		D19P1	1-02 *	1	C	RF11=19					7-1/8		344
C13N1		D19P1	1-02 *	1	C	RF11=19							344
C13N2		C13N2	1-01 *	1	C	RF11=19			1				345
C13N2		D19R1	1-02 *	1	C	RF11=19					7-1/8		345
C13N2		D19R1	1-02 *	1	C	RF11=19							345
C14C1		C14C1	1-01 *	1	C	RF11=20=1			1				346
C14C1		C22D1	1-02 *	1	C	RF11=20=1					7-2/8		346
C14C1		C22D1	1-02 *	1	C	RF11=20=1							346

RF11.B RUN NAME	MRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	151 EXCEPTIONS	PAGE 39 RUN NUMBER
C14F1	C14F1	1-01 *	RF11#20=1		1				347
C14F1	C22F2	1-02 *	RF11#20=1						347
C14F1		1					7-2/8		347
C14F2	C14F2	1-01 *	RF11#20=1		1				348
C14F2	C22K1	1-02 *	RF11#20=1						348
C14F2		1					7-0/8		348
C14K1	C14K1	1-01 *	RF11#20=1		1				349
C14K1	C22N2	1-02 *	RF11#20=1						349
C14K1		1					7-6/8		349
C14K2	C14K2	1-01 *	RF11#20=1		1				350
C14K2	C22R1	1-02 *	RF11#20=1						350
C14K2		1					7-4/8		350
C14N1	C14N1	1-01 *	RF11#20=1		1				351
C14N1	C22U2	1-02 *	RF11#20=1						351
C14N1		1					7-6/8		351
C14N2	C14N2	1-01 *	RF11#11		1				352
C14N2	C14R2	1-02 *	RF11#11						352
C14N2		1					2-6/8		352
C14U2	C14U2	1-01 *	RF11#10		1				353
C14U2	D18P2	1-02 *	RF11#10						353
C14U2		1					6-0/8		353
C14V2	C14V2	1-01 *	RF11#10		2				354
C14V2	D18K2	1-02 *	RF11#10		1				354
C14V2		1					9-2/8		354
C15C1	C15C1	1-01 *	RF11#20=2		1				355
C15C1	C20U2	1-02 *	RF11#20=2						355
C15C1		1					7-4/8		355
C15F1	C15F1	1-01 *	RF11#20=2		1				356
C15F1	C20R1	1-02 *	RF11#20=2						356
C15F1		1					6-4/8		356
C15F2	C15F2	1-01 *	RF11#20=2		1				357
C15F2	C20N2	1-02 *	RF11#20=2						357
C15F2		1					6-2/8		357

RF11.B RUN NAME	MRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	151 EXCEPTIONS	PAGE 40 RUN NUMBER
C15K1	C15K1	1-01 *	RF11#20=2		1				358
C15K1	C20K1	1-02 *	RF11#20=2						358
C15K1		1					5-4/8		358
C15K2	C15K2	1-01 *	RF11#20=2		1				359
C15K2	C20F2	1-02 *	RF11#20=2						359
C15K2		1					6-0/8		359
C15N1	C15N1	1-01 *	RF11#20=2		1				360
C15N1	C21D1	1-02 *	RF11#20=2						360
C15N1		1					7-0/8		360
C15N2	C15N2	1-01 *	RF11#20=2		1				361
C15N2	C21F2	1-02 *	RF11#20=2						361
C15N2		1					6-6/8		361
C15S1	C15S1	1-01 *	RF11#20=2		1				362
C15S1	C21K1	1-02 *	RF11#20=2						362
C15S1		1					6-6/8		362
C15S2	C15S2	1-01 *	RF11#20=1		1				363
C15S2	C21R1	1-02 *	RF11#20=1						363
C15S2		1					6-6/8		363
C15V2	C15V2	1-01 *	RF11#20=1		1				364
C15V2	C21U2	1-02 *	RF11#20=1						364
C15V2		1					6-0/8		364
C16E1	C20B1	1-01 *	RF11#16=1		1				365
C16E1	C16E1	1-02 *	RF11#16=1						365
C16E1		1					7-3/8		365
C16J2	C16J2	1-01 *	RF11#16=1		1				366
C16J2	D18B1	1-02 *	RF11#16=1						366
C16J2		1					5-6/8		366
C16L1	C16L1	1-01 *	RF11#16=1		1				367
C16L1	D18C1	1-02 *	RF11#16=1						367
C16L1		1					5-6/8		367
C16P2	C16P2	1-01 *	RF11#16=1		1				368
C16P2	D18D1	1-02 *	RF11#16=1						368
C16P2		1					5-4/8		368
C16S1	C16S1	1-01 *	RF11#16=1		1				369
C16S1	D18M1	1-02 *	RF11#16=1						369
C16S1		1					6-2/8		369

RF11.8 RUN NAME	A/P PIN	WRP288.V17(17) 06/22/72 ORDER PIN	Q DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 41 RUN NUMBER
C16V2		1-01 *	RF11E16E1		1				370
C16V2		1-02 *	RF11E16E1				4-0/8		370
C16V2		1							370
C17E1		1-01 *	RF11E16E1		1				371
C17E1		1-02 *	RF11E16E1				7-2/8		371
C17E1		1							371
C17J2		1-01 *	RF11E16E1		1				372
C17J2		1-02 *	RF11E16E1				6-6/8		372
C17J2		1							372
D17L1		1-01 *	RF11E16E1		1				373
D17L1		1-02 *	RF11E16E1				5-6/8		373
D17L1		1							373
C17P2		1-01 *	RF11E16E1		1				374
C17P2		1-02 *	RF11E16E1				5-4/8		374
C17P2		1							374
C17S1		1-01 *	RF11E16E1		1				375
C17S1		1-02 *	RF11E16E1				5-4/8		375
C17S1		1							375
C17V2		1-01 *	RF11E16E1		1				376
C17V2		1-02 *	RF11E16E1				5-2/8		376
C17V2		1							376
D24C1		1-01 *	RF11E15E1		1				377
D24C1		1-02 *	RF11E15E1		2				377
D24C1		1-03 *	RF11E15E1		1				377
D24C1		1-04 *	RF11E15E1		2				377
D24C1		1-05 *	RF11E15E1		1				377
D24C1		1-06 *	RF11E15E1				21-1/8		377
D24C1		1							377
CHT	H	1-01 *	RF11E19		1				378
CHT	H	1-02 *	RF11E20E2				5-3/8		378
CHT		1							378

RF11.8 RUN NAME	A/P PIN	WRP288.V17(17) 06/22/72 ORDER PIN	Q DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 42 RUN NUMBER
CHT	L	C19R1	RF11E20E2		2				379
CHT	L	D17S2	RF11E19		1				379
CHT	L	D16V2	RF11E19		2				379
CHT	L	D15R1	RF11E19		1				379
CHT	L	D15M2	RF11E19		2				379
CHT	L	D15J1	RF11E19		1				379
CHT	L	D14K2	RF11E19		2				379
CHT	L	D14A1	RF11E19				26-3/8		379
CHT	L								379
CLEAR	H	A06D1	RF11E09		1				380
CLEAR	H	B07J1	RF11E03E2		2				380
CLEAR	H	C09D2	RF11E21		1				380
CLEAR	H	C09E2	RF11E21		2				380
CLEAR	H	C09H1	RF11E21		1				380
CLEAR	H	C09J1	RF11E21		2				380
CLEAR	H	D22B1	RF11E11		1				380
CLEAR	H	D21M1	RF11E11		2				380
CLEAR	H	B24H2	RF11E13E2		1				380
CLEAR	H	B24D1	RF11E12E2		2				380
CLEAR	H	B25C1	RF11E12E2				51-0/8		380
CLEAR	H								380
CLEAR	L	B24E1	RF11E12E2		2				381
CLEAR	L	B26P1	RF11E12E1		1				381
CLEAR	L	A27L1	RF11E13E1		2				381
CLEAR	L	A20D2	RF11E12E1		1				381
CLEAR	L	A20A1	RF11E12E1		2				381
CLEAR	L	A16E1	RF11E14E2		1				381
CLEAR	L	A16J1	RF11E14E1		2				381
CLEAR	L	A10K2	RF11E03E1		1				381
CLEAR	L	A10L1	RF11E18E2		2				381
CLEAR	L	A10R1	RF11E18E1		1				381
CLEAR	L	B09L2	RF11E03E1		2				381
CLEAR	L	C12D1	RF11E12E2		1				381
CLEAR	L	D15A1	RF11E10		2				381
CLEAR	L	D15D2	RF11E11		1				381
CLEAR	L	C18R1	RF11E11		2				381
CLEAR	L	C19K1	RF11E10		1				381
CLEAR	L	C19F2	RF11E10		2				381
CLEAR	L						74-7/8		381

RF11-B RUN NAME	WPP288.V17(17) 06/22/72 A/P PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26=JAN=73 LENGTH	1151 EXCEPTIONS	PAGE 43 RUN NUMBER
CLR + GO CLR	A22D1		1-01 *		RF11=12=2		1				382
CLR + GO CLR	A22F2		1-02 *		RF11=12=2		2				382
CLR + GO CLR	A27U2		1-03 *		RF11=12=2		1				382
CLR + GO CLR	B24R2		1-04 *		RF11=12=2		1				382
CLR + GO CLR	B22F2		1-05 *		RF11=12=2		1				382
CLR + GO CLR	B22D1		1-06 *		RF11=13=2		1				382
CLR + GO CLR	B20F2		1-07 *		RF11=12=2		1				382
CLR + GO CLR	B20K1		1-08 *		RF11=12=2		1				382
CLR + GO CLR	B20N2		1-09 *		RF11=12=2		1				382
CLR + GO CLR	C06L1		1-10 *		RF11=12=2		1				382
CLR + GO CLR			1		RF11=11				45=3/8		382
CLR BBSY	A10T2		1-01 *		RF11=13=2		1				383
CLR BBSY	B07P2		1-02 *		RF11=03=2		1				383
CLR BBSY			1						6=6/8		383
CLR BBSY	A10L2		1-01 *		RF11=03=1		1				384
CLR BBSY	A07V1		1-02 *		RF11=03=1		2				384
CLR BBSY	B07N2		1-03 *		RF11=03=2		1				384
CLR BBSY			1						11=0/8		384
CLR DAE LG	B23A1		1-01 *		RF11=13=1		2				385
CLR DAE LG	B23K2		1-02 *		RF11=13=1		1				385
CLR DAE LG	B24S1		1-03 *		RF11=13=1		1				385
CLR DAE LG	B24R2		1-04 *		RF11=11		1				385
CLR DAE LG	B22U2		1-05 *		RF11=13=1		1				385
CLR DAE LG	D16L2		1-06 *		RF11=10		1				385
CLR DAE LG			1						24=7/8		385
CLR DATA RJ	B07M1				RF11=03=2					1-PIN RUN	386
CLR DATA RJ	B07N1		1-01 *		RF11=03=2		1				387
CLR DATA RJ	B09M2		1-02 *		RF11=03=1		1				387
CLR DATA RJ			1						4=2/8		387
CMA CARRY OUT	B06P2		1-01 *		RF11=08		1				388
CMA CARRY OUT	C06B1		1-02 *		RF11=12=1		1				388
CMA CARRY OUT			1						4=2/8		388
CMA CLK	A06A1		1-01 *		RF11=8		1				389
CMA CLK	A10S2		1-02 *		RF11=13=2		1				389
CMA CLK			1						6=2/8		389
CMA IN HI	B09H1		1-01 *		RF11=08		1				390
CMA IN HI	B10S1		1-02 *		96+		1				390
CMA IN HI			1						4=4/8		390

RF11-B RUN NAME	WPP288.V17(17) 06/22/72 A/P PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26=JAN=73 LENGTH	1151 EXCEPTIONS	PAGE 44 RUN NUMBER
CMA IN LG	B09D2		1-01 *		RF11=08		1				391
CMA IN LG	B10R2		1-02 *		96+		1				391
CMA IN LG			1						4=6/8		391
CMA INH (0)	A10U2		1-01 *		RF11=13=2		1				392
CMA INH (0)	A10V2		1-02 *		RF11=13=2		2				392
CMA INH (0)	A20V2		1-03 *		RF11=13=2		1				392
CMA INH (0)			1						10=3/8		392
CMA INH (1)	A12A1		1-01 *		RF11=6=2		2				393
CMA INH (1)	A20U2		1-02 *		RF11=13=2		1				393
CMA INH (1)	A32M1		1-03 *		RF11=2		1				393
CMA INH (1)			1						19=2/8		393
CMA OUT	A06D2		1-01 *		RF11=08		1				394
CMA OUT	B10K2		1-02 *		RF11=07		1				394
CMA OUT			1						8=2/8		394
CNTR BSY	B28V2		1-01 *		RF11=12=1		2				395
CNTR BSY	B28B1		1-02 *		RF11=12=2		1				395
CNTR BSY	B26K1		1-03 *		RF11=12=2		1				395
CNTR BSY	A25H1		1-04 *		RF11=12=1		1				395
CNTR BSY	B09H2		1-05 *		RF11=11		1				395
CNTR BSY			1						27=7/8		395
CNTR BSY	A31M2		1-01 *	C	RF11=02		2			CABLE	396
CNTR BSY	A27J2		1-02 *		RF11=11		1				396
CNTR BSY	A25S1		1-03 *		RF11=12=1		1				396
CNTR BSY	A11R1		1-04 *		RF11=06=1		1				396
CNTR BSY	C19C1		1-05 *		RF11=11		1			TERM HERE?	396
CNTR BSY	D21L2		1-06 *		RF11=11		1				396
CNTR BSY			1						36=7/8		396
CTER (0)	A24M1		1-01 *		RF11=12=2		1				397
CTER (0)	B22L1		1-02 *		RF11=13=2		1				397
CTER (0)			1						6=4/8		397
CTER (1)	A12H2		1-01 *		RF11=06=2		2			TERM HERE?	398
CTER (1)	B22M1		1-02 *		RF11=13=2		1				398
CTER (1)	A35K2		1-03 *	C	RF11=02		1			CABLE	398
CTER (1)			1						22=0/8		398
CTF (0)	A21P1		1-01 *		RF11=13=2		1				399
CTF (0)	B19Y2		1-02 *		RF11=13=2		1				399
CTF (0)			1						6=6/8		399

RF11-B RUN NAME	A/P PIN	NAME	ORDER PIN	BAY - ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 47 RUN NUMBER
D00 OUT	L	A06E1	1-01 *	1		RF11E06=1					2				419
D00 OUT	L	A09B1	1-02 *	1		RF11E06=1					2				419
D00 OUT	L	A11C1	1-03 *	1		RF11E06=1					2				419
D00 OUT	L	B11C1	1-04 *	1		RF11E06=1					1				419
D00 OUT	L	A29D1	1-05 *	1		RF11E24							29-4/8		419
D01 IN	H	A23L2	1-01 *	1		RF11E13=1					2				420
D01 IN	H	A20F2	1-02 *	1		RF11E12=1					1				420
D01 IN	H	A17H1	1-03 *	1		RF11E14=1					2				420
D01 IN	H	A13H1	1-04 *	1		RF11E18=1					1				420
D01 IN	H	A06H1	1-05 *	1		RF11E08					2				420
D01 IN	H	A05E1	1-06 *	1		RF11E05					1				420
D01 IN	H	C08K1	1-07 *	1		RF11E21							35-2/8		420
D01 OUT	L	A06J1	1-01 *	1		RF11E08					2				421
D01 OUT	L	A09L2	1-02 *	1		RF11E06=1					1				421
D01 OUT	L	B11F1	1-03 *	1		RF11E06=1					2				421
D01 OUT	L	A11F1	1-04 *	1		RF11E06=1					1				421
D01 OUT	L	A29E1	1-05 *	1		RF11E24							28-6/8		421
D02 IN	H	A23L1	1-01 *	1		RF11E13=1					2				422
D02 IN	H	A20C1	1-02 *	1		RF11E12=1					1				422
D02 IN	H	A17H2	1-03 *	1		RF11E14=1					2				422
D02 IN	H	A13H2	1-04 *	1		RF11E18=1					1				422
D02 IN	H	A09H1	1-05 *	1		RF11E08					2				422
D02 IN	H	A06H1	1-06 *	1		RF11E05					1				422
D02 IN	H	C08E1	1-07 *	1		RF11E21							34-6/8		422
D02 OUT	L	A06L2	1-01 *	1		RF11E08					1				423
D02 OUT	L	A07E2	1-02 *	1		RF11E04					2				423
D02 OUT	L	A09E1	1-03 *	1		RF11E06=1					1				423
D02 OUT	L	A11F2	1-04 *	1		RF11E06=1					2				423
D02 OUT	L	B11F2	1-05 *	1		RF11E06=1					1				423
D02 OUT	L	A29K1	1-06 *	1		RF11E24							31-6/8		423

RF11-B RUN NAME	A/P PIN	NAME	ORDER PIN	BAY - ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 48 RUN NUMBER
D03 IN	H	A23H2	1-01 *	1		RF11E13=1					2				424
D03 IN	H	A19T2	1-02 *	1		RF11E12=1					1				424
D03 IN	H	A17L1	1-03 *	1		RF11E14=1					2				424
D03 IN	H	A13L1	1-04 *	1		RF11E18=1					1				424
D03 IN	H	A06F2	1-05 *	1		RF11E08					2				424
D03 IN	H	A05K1	1-06 *	1		RF11E05					1				424
D03 IN	H	C08A1	1-07 *	1		RF11E21							35-5/8		424
D03 OUT	L	A29L1	1-01 *	1		RF11E24					2				425
D03 OUT	L	A07L1	1-02 *	1		RF11E04					1				425
D03 OUT	L	A06H2	1-03 *	1		RF11E08					2				425
D03 OUT	L	A09F2	1-04 *	1		RF11E06=1					1				425
D03 OUT	L	A11K1	1-05 *	1		RF11E06=1					2				425
D03 OUT	L	B11K1	1-06 *	1		RF11E06=1							31-1/8		425
D04 IN	H	A23H1	1-01 *	1		RF11E13=1					2				426
D04 IN	H	A19P1	1-02 *	1		RF11E12=1					1				426
D04 IN	H	A17L2	1-03 *	1		RF11E14=1					2				426
D04 IN	H	A13L2	1-04 *	1		RF11E18=1					1				426
D04 IN	H	A05M1	1-05 *	1		RF11E08					2				426
D04 IN	H	A06T2	1-06 *	1		RF11E05					1				426
D04 IN	H	C09P1	1-07 *	1		RF11E21							35-1/8		426
D04 OUT	L	A29R1	1-01 *	1		RF11E24					1				427
D04 OUT	L	A11K2	1-02 *	1		RF11E06=1					2				427
D04 OUT	L	A09M1	1-03 *	1		RF11E06=1					1				427
D04 OUT	L	A07N2	1-04 *	1		RF11E04					2				427
D04 OUT	L	B06R2	1-05 *	1		RF11E08					1				427
D04 OUT	L	B11K2	1-06 *	1		RF11E08							33-4/8		427
D05 IN	H	A19L1	1-01 *	1		RF11E12=1					1				428
D05 IN	H	A17P1	1-02 *	1		RF11E14=1					2				428
D05 IN	H	A13P1	1-03 *	1		RF11E18=1					1				428
D05 IN	H	A06N2	1-04 *	1		RF11E08					2				428
D05 IN	H	A05P1	1-05 *	1		RF11E05					1				428
D05 IN	H	C09L2	1-06 *	1		RF11E21							30-0/8		428

RF11.B RUN NAME	A/P PIN NAME	W/P PIN NAME	ORDER PIN	BAY ORDER	06/22/72	G	DRAM RV	PG	Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 49 RUN NUMBER
D05 OUT	L	A06R1		1-01 *			RF11E08				1				429
D05 OUT	L	A07F1		1-02 *			RF11E04				2				429
D05 OUT	L	A09M1		1-03 *			RF11E06E1				1				429
D05 OUT	L	A11N1		1-04 *			RF11E06E1				2				429
D05 OUT	L	B11S1		1-05 *			RF11E06E1				1				429
D05 OUT	L	A29S1		1-06 *			RF11E24				1		32-7/8		429
D06 IN	H	A19H1		1-01 *			RF11E12E1				1				430
D06 IN	H	A17P2		1-02 *			RF11E14E1				2				430
D06 IN	H	A13P2		1-03 *			RF11E18E1				1				430
D06 IN	H	A05S1		1-04 *			RF11E05				2				430
D06 IN	H	A06U1		1-05 *			RF11E08				1				430
D06 IN	H	C09L1		1-06 *			RF11E21				1		29-1/8		430
D06 OUT	L	A29H2		1-01 *			RF11E24				1				431
D06 OUT	L	A07F2		1-02 *			RF11E04				2				431
D06 OUT	L	A06S2		1-03 *			RF11E08				1				431
D06 OUT	L	A09R2		1-04 *			RF11E06E1				2				431
D06 OUT	L	A11N2		1-05 *			RF11E06E1				1				431
D06 OUT	L	B11S2		1-06 *			RF11E06E1				1		33-3/8		431
D07 IN	H	A23E2		1-01 *			RF11E13E1				1				432
D07 IN	H	A17T2		1-02 *			RF11E14E1				2				432
D07 IN	H	A13T2		1-03 *			RF11E18E1				1				432
D07 IN	H	A06M2		1-04 *			RF11E08				2				432
D07 IN	H	A05U1		1-05 *			RF11E05				1				432
D07 IN	H	C09H2		1-06 *			RF11E21				1		32-7/8		432
D07 OUT	L	A29J2		1-01 *			RF11E24				1				433
D07 OUT	L	A07H1		1-02 *			RF11E04				2				433
D07 OUT	L	A06P1		1-03 *			RF11E08				1				433
D07 OUT	L	A09T2		1-04 *			RF11E06E1				2				433
D07 OUT	L	A11S1		1-05 *			RF11E06E1				1				433
D07 OUT	L	B11S1		1-06 *			RF11E06E1				1		33-1/8		433
D08 IN	H	B06F1		1-01 *			RF11E08				2				434
D08 IN	H	A05D2		1-02 *			RF11E05				1				434
D08 IN	H	A14D2		1-03 *			RF11E18E2				2				434
D08 IN	H	A18D2		1-04 *			RF11E14E2				1				434
D08 IN	H	A20S1		1-05 *			RF11E13E2				2				434
D08 IN	H	B26E1		1-06 *			RF11E12E2				1		31-2/8		434

RF11.B RUN NAME	A/P PIN NAME	W/P PIN NAME	ORDER PIN	BAY ORDER	06/22/72	G	DRAM RV	PG	Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 50 RUN NUMBER
D09 OUT	L	A29M2		1-01 *			RF11E24				1				435
D09 OUT	L	B12C1		1-02 *			RF11E06E2				2				435
D09 OUT	L	A12C1		1-03 *			RF11E06E2				1				435
D09 OUT	L	A09S1	A07K1	1-04 *			RF11E06E2				2				435
D09 OUT	L	A07K1		1-05 *			RF11E06E2				1				435
D09 OUT	L	B06N2		1-06 *			RF11E08				1		35-0/8		435
D09 IN	H	A06V2		1-01 *			RF11E08				2				436
D09 IN	H	A05F2		1-02 *			RF11E05				1				436
D09 IN	H	A14H1		1-03 *			RF11E18E2				2				436
D09 IN	H	A18H1		1-04 *							1		17-2/8		436
D09 OUT	L	A29P2		1-01 *			RF11E24				1				437
D09 OUT	L	A09D2		1-02 *			RF11E06E2				2				437
D09 OUT	L	A12F1		1-03 *			RF11E06E2				1				437
D09 OUT	L	B12F1		1-04 *			RF11E06E2				2				437
D09 OUT	L	B06C1		1-05 *			RF11E08				1		30-6/8		437
D10 IN	H	A18H2		1-01 *			RF11E14E2				1				438
D10 IN	H	A14H2		1-02 *			RF11E18E2				2				438
D10 IN	H	A05J2		1-03 *			RF11E05				1				438
D10 IN	H	B06E2		1-04 *			RF11E08				2				438
D10 IN	H	C07K1		1-05 *			RF11E21				1				438
D10 IN	H	C07J1		1-06 *			RF11E21				1		26-7/8		438
D10 OUT	L	A29U2		1-01 *			RF11E24				1				439
D10 OUT	L	B12F2		1-02 *			RF11E06E2				2				439
D10 OUT	L	A12F2		1-03 *			RF11E06E2				1				439
D10 OUT	L	A09J2		1-04 *			RF11E06E2				2				439
D10 OUT	L	B06D2		1-05 *			RF11E08				1		29-6/8		439
D10E1		C14P2		1-01 *			RF11E11				1				440
D10E1		D10E1		1-02 *			RF11E11				1		6-2/8		440
D10J2		A10F2		1-01 *			RF11E03E1				1				441
D10J2		D10J2		1-02 *			RF11E03E1				1		11-2/8		441

RF11.8 RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER NAME	C	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 53 RUN NUMBER
D15 OUT	L 812S1	1-01 *	RF11=06=2		1				459
D15 OUT	L A12S1	1-02 *	RF11=06=2		2				459
D15 OUT	L A09P1	1-03 *	RF11=06=2		1				459
D15 OUT	L 806J1	1-04 *	RF11=08				16-7/8		459
D17B1	D17B1	1-01 *	RF11=16=1		1		4-0/8		460
D17B1	D18D2	1-02 *	RF11=16=1		1		4-0/8		460
D17D2	D17D2	1-01 *	RF11=16=1		1		3-4/8		461
D17D2	D18F2	1-02 *	RF11=16=1		1		4-0/8		461
D17E1	D17E1	1-01 *	RF11=16=1		1		4-0/8		462
D17E1	D18H2	1-02 *	RF11=16=1		1		4-0/8		462
D17J1	D17J1	1-01 *	RF11=19		1		4-6/8		463
D17J1	D20U1	1-02 *	RF11=19		1		4-6/8		463
D17L1	D17L1	1-01 *	RF11=19		1		5-4/8		464
D17L1	D20U2	1-02 *	RF11=19		1		5-4/8		464
D17P1	D17P1	1-01 *	RF11=19		2		7-4/8		465
D17P1	D16U2	1-02 *	RF11=19		1				465
D17P1	D18U2	1-03 *			1				465
D18E1	D17A1	1-01 *	RF11=16=1		1		3-6/8		466
D18E1	D18E1	1-02 *	RF11=16=1		1		4-4/8		466
D18E1	D18E1	1-02 *	RF11=16=1		1		4-4/8		466
D18J2	D18J2	1-01 *	RF11=16=1		1		3-7/8		467
D18J2	D21H2	1-02 *	RF11=16=1		1		4-4/8		467
D18J2	D18J2	1-02 *	RF11=16=1		1		4-4/8		467
D18L1	D17D1	1-01 *	RF11=16=1		1		5-0/8		468
D18L1	D18L1	1-02 *	RF11=16=1		1		5-0/8		468
D18L1	D18L1	1-02 *	RF11=16=1		1		5-0/8		468
D18S1	D17C1	1-01 *	RF11=16=1		1				469
D18S1	D18S1	1-02 *	RF11=16=1		1				469
D18S1	D18S1	1-02 *	RF11=16=1		1				469

RF11.8 RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER NAME	C	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 54 RUN NUMBER
D19H2	D19H2	1-01 *	RF11=19		1		4-2/8		470
D19H2	D19S1	1-02 *	RF11=19		1		4-2/8		470
D19H2	D19H2	1-02 *	RF11=19		1				470
D19J1	D16P1	1-01 *	RF11=19		1		8-0/8		471
D19J1	D16K2	1-02 *	RF11=19		2				471
D19J1	D19J1	1-03 *	RF11=19		1				471
D19J1	D19J1	1-03 *	RF11=19		1				471
D19M2	C18E2	1-01 *	RF11=11		1		7-0/8		472
D19M2	D19M2	1-02 *	RF11=11		1		7-0/8		472
D19M2	D19M2	1-02 *	RF11=11		1		7-0/8		472
D19N1	D17N1	1-01 *	RF11=19		1		4-0/8		473
D19N1	D19N1	1-02 *	RF11=19		1		4-0/8		473
D19N1	D19N1	1-02 *	RF11=19		1		4-0/8		473
D19U1	D19U1	1-01 *	RF11=19		1		6-3/8		474
D19U1	D18T2	1-02 *	RF11=19		2				474
D19U1	D16T2	1-03 *	RF11=19		1				474
D19U1	D16T2	1-03 *	RF11=19		1				474
D19V1	C18M2	1-01 *	RF11=11		1		7-0/8		475
D19V1	D19V1	1-02 *	RF11=11		1		7-0/8		475
D19V1	D19V1	1-02 *	RF11=11		1		7-0/8		475
D21C1	B19F1	1-01 *	RF11=15=1		1		8-6/8		476
D21C1	D21C1	1-02 *	RF11=15=1		1		8-6/8		476
D21C1	D21C1	1-02 *	RF11=15=1		1		8-6/8		476
D21F1	B19N1	1-01 *	RF11=15=1		1		8-4/8		477
D21F1	D21F1	1-02 *	RF11=15=1		1		8-4/8		477
D21F1	D21F1	1-02 *	RF11=15=1		1		8-4/8		477
D21F2	C19S2	1-01 *	RF11=20=2		1		5-3/8		478
D21F2	D21F2	1-02 *	RF11=20=2		1		5-3/8		478
D21F2	D21F2	1-02 *	RF11=20=2		1		5-3/8		478
D21K1	C19U2	1-01 *	RF11=20=2		1		5-4/8		479
D21K1	D21K1	1-02 *	RF11=20=2		1		5-4/8		479
D21K1	D21K1	1-02 *	RF11=20=2		1		5-4/8		479
D21N2	C19D1	1-01 *	RF11=11		1		6-0/8		480
D21N2	D21N2	1-02 *	RF11=11		1		6-0/8		480
D21N2	D21N2	1-02 *	RF11=11		1		6-0/8		480

RF11-B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME PIN ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS	26-JAN-73 LENGTH	151 EXCEPTIONS	PAGE 55 RUN NUMBER
D21S2	C19D2		RF11	10			1					481
D21S2	D21S2		RF11	10								481
D21S2										8-0/8		481
D21V2	C19H1		RF11	10			1					482
D21V2	D21V2		RF11	10								482
D21V2										8-4/8		482
D22E1	C23H1		RF11	15	1		1					483
D22E1	C23B1		RF11	15	1		2					483
D22E1	C23D2		RF11	15	1		1					483
D22E1	C24H1		RF11	15	1		1					483
D22E1	C24B1		RF11	15	1		1					483
D22E1	C24D2		RF11	15	1		1					483
D22E1	C24L2		RF11	15	1		1					483
D22E1	C24S2		RF11	15	1		1					483
D22E1	C24N1		RF11	15	1		1					483
D22E1	C23L2		RF11	15	1		1					483
D22E1	C23N1		RF11	15	1		1					483
D22E1	C23S2		RF11	15	1		1					483
D22E1	D22E1		RF11	15	1		1					483
D22E1										39-7/8		483
D23E2	D23E2		RF11	10			1					484
D23E2	D23K2		RF11	10								484
D23E2										3-4/8		484
D23F2	D23F2		RF11	10			1					485
D23F2	D23H2		RF11	10			2					485
D23F2	D15C1		RF11	10								485
D23F2										10-1/8		485
D23N2	D22M1		RF11	20	1		1					486
D23N2	D23N2		RF11	20	1							486
D24D1	D24D1		RF11	10			1					487
D24D1	D24L2		RF11	10								487
D24D1										4-0/8		486
D24F2	D23D1		RF11	10			1					487
D24F2	D23E1		RF11	10			2					488
D24F2	D24F2		RF11	10								488
D24F2										6-3/8		488

RF11-B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME PIN ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS	26-JAN-73 LENGTH	151 EXCEPTIONS	PAGE 56 RUN NUMBER
D24N1	D24N1		RF11	10			1					489
D24N1	D24S2		RF11	10								489
D24N1										2-7/8		489
D24T2	D23H1		RF11	10			1					490
D24T2	D23J1		RF11	10			2					490
D24T2	D24T2		RF11	10								490
D24T2										6-5/8		490
D25D2	D25D2		RF11	10			1					491
D25D2	D25E2		RF11	10								491
D25D2										2-3/8		491
D25F2	D22R2		RF11	10			1					492
D25F2	D21P2		RF11	10			2					492
D25F2	D23D2		RF11	10			1					492
D25F2	D24H2		RF11	10			2					492
D25F2	D25F2		RF11	10								492
D25F2										15-0/8		492
D25K2	D25K2		RF11	10			2					493
D25K2	D25F1		RF11	10			1					493
D25K2	D16F1		RF11	10								493
D25K2										11-0/8		493
D25L2	D21T2		RF11	10			1					494
D25L2	D23S2		RF11	10			2					494
D25L2	D23J2		RF11	10			1					494
D25L2	D24M2		RF11	10			2					494
D25L2	D25L2		RF11	10								494
D25L2										13-5/8		494
D25M2	D16H1		RF11	10			1					495
D25M2	D16K1		RF11	10			2					495
D25M2	D23K1		RF11	10			1					495
D25M2	D25M2		RF11	10								495
D25M2										13-6/8		495
D25S2	D25R2		RF11	10			1					496
D25S2	D25S2		RF11	10								496
D25S2										2-3/8		496
DA 00 (0)	B23M2		RF11	13	1		2					497
DA 00 (0)	B23R2		RF11	13	1		1					497
DA 00 (0)	B23N1		RF11	13	1							497
DA 00 (0)										5-5/8		497

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER PIN NAME	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 57 RUN NUMBER
DA 00 (1)	A11D2		RF11506=1		1				498
DA 00 (1)	A31T1	C	RF11502		2			TERM HERE? CABLE	498
DA 00 (1)	B23P2		RF11513=1		1				498
DA 00 (1)	C25V1		RF11517		1		30=4/8	TERM HERE?	498
DA 01 (0)	B23P1		RF11513=1		2				499
DA 01 (0)	B23S2		RF11513=1		1				499
DA 01 (0)	B23U1		RF11513=1		1		5=4/8		499
DA 01 (1)	A11H1		RF11506=1		1				500
DA 01 (1)	A31S1	C	RF11502		2			TERM HERE? CABLE	500
DA 01 (1)	B23S1		RF11513=1		1				500
DA 01 (1)	C25U2		RF11517		1		30=4/8	TERM HERE?	500
DA 02 (0)	B23T2		RF11513=1		1				501
DA 02 (0)	B23V1		RF11513=1		2				501
DA 02 (0)	B22S2		RF11513=1		1		5=5/8		501
DA 02 (1)	A11H2		RF11506=1		1				502
DA 02 (1)	A31R1	C	RF11502		2			TERM HERE? CABLE	502
DA 02 (1)	B23V2		RF11513=1		1				502
DA 02 (1)	C25V2		RF11517		1		28=5/8	TERM HERE?	502
DA 02 (1)	B22V2		RF11513=1		1				503
DA 03 (0)	C25T2		RF11517		1		6=4/8		503
DA 03 (0)	A11U1		RF11506=1		2				504
DA 03 (1)	B22V1		RF11513=1		1				504
DA 03 (1)	A32A1	C	RF11502		1		22=1/8	TERM HERE? CABLE	504
DA 03 (1)	A10H2		RF11517		1				504
DAE IN HI	907V2				1		8=4/8		505
DAE IN HI	A15P2		RF11513=2		1				506
DAE IN HI	B10U2		RF11507		1		7=3/8		506

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER PIN NAME	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 58 RUN NUMBER
DAE IN LO	A27H1		RF11513=1		2				507
DAE IN LO	A23A1		RF11513=1		1				507
DAE IN LO	B10J1		RF11507		1		18=6/8		507
DAE OUT	A12U2		RF11506=2		2				508
DAE OUT	A11U2		RF11506=1		1		8=3/8		508
DAE OUT	B10E1		RF11507		1				508
DAR CLR (00-07)	A15D2		RF11514=1		1				509
DAR CLR (00-07)	A16K1		RF11514=1		2				509
DAR CLR (00-07)	B27P1		RF11514=2		1		15=4/8		509
DAR CLR (00-07)	A15J2		RF11514=1		2				510
DAR CLR (00-07)	B16P1		RF11514=1		1				510
DAR CLR (00-07)	B16L2		RF11514=1		2				510
DAR CLR (00-07)	B18K2		RF11514=1		1				510
DAR CLR (00-07)	B18A1		RF11514=1		1				510
DAR CLR (08-15)	B27J1		RF11513=1		1		17=5/8		511
DAR CLR (08-15)	A16F1		RF11514=2		2				511
DAR CLR (08-15)	A15D1		RF11514=2		1				511
DAR CLR (08-15)	D12E1		RF11514=2I		1				511
DAR CLR (08-15)	A15E1		RF11514=2		2				512
DAR CLR (08-15)	B16H1		RF11514=2		1				512
DAR CLR (08-15)	B16D2		RF11514=2		2				512
DAR CLR (08-15)	B17A1		RF11514=2		1				512
DAR CLR (08-15)	B17K2		RF11514=2		1				512
DAR CLR (08-15)	B24S2		RF11514=2		2		23=6/8		512
DAR IN HI	A18A1		RF11514=2		2				513
DAR IN HI	A16A1		RF11514=2		1				513
DAR IN HI	B10P1		96+		1		13=7/8		513
DAR IN LO	A17A1		RF11514=1		2				514
DAR IN LO	A16H2		RF11514=1		1				514
DAR IN LO	B10L1		RF11507		1		11=4/8		514

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - PIN ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 61 RUN NUMBER
DEV SELD*STRT XTIM	L A19D2				1				535
DEV SELD*STRT XTIM	L A19E2				2				535
DEV SELD*STRT XTIM	L A23V2				1				535
DEV SELD*STRT XTIM	L C10K2				1				535
DEV SSVN (0)	H B20E1		RF11=11			1-PIN RUN	22-2/8		536
DEV SSVN (1)	H A08L2		RF11=09		1				537
DEV SSVN (1)	H B20F1		RF11=11		1		11-0/8		537
DISK CLEAR	L B25A1		RF11=12=2		2				538
DISK CLEAR	L B26A1		RF11=12=2		1				538
DISK CLEAR	L B26J1		RF11=12=2		2				538
DISK CLEAR	L B26K2		RF11=12=1		1		9-7/8		538
DISK FLAG	H A31A2		RF11=02		1	CABLE			539
DISK FLAG	H A07K2		RF11=04		2				539
DISK FLAG	H B09K2		RF11=11		1	TERM HERE?	22-6/8		539
DISK FLAG	H B27J2		RF11=13=2		1				540
DISK RUN (0)	H C19E1		RF11=11		2				540
DISK RUN (0)	H C19B1		RF11=13=2		1				540
DISK RUN (0)	H C13A1		RF11=13=2		2				540
DISK RUN (0)	H C14T2		RF11=13=2		1				540
DISK RUN (0)	H D21B1		RF11=10		1				540
DISK RUN (0)	H D21J2		RF11=15=1		2				540
DISK RUN (0)	H A32M1		RF11=16=1		1		35-1/8		540
DISK RUN (1)	H B27L1		RF11=02		2	CABLE			541
DISK RUN (1)	H C19F1		RF11=13=1		1				541
DISK RUN (1)	H D13J2		RF11=11		2				541
DISK RUN (1)	H D13H2		RF11=10		1	TERM HERE?			541
DISK RUN (1)	H C19S1		RF11=10		1		25-0/8		541
OPAR (0)	H A32T1		RF11=20=2			1-PIN RUN			542
OPAR (1)	H R26D2		RF11=02		1				543
OPAR (1)	H C19P1		RF11=12=2		2	CABLE			543
OPAR (1)	H C19U1		RF11=20=2		1				543
OPAR (1)	H C19U1		RF11=20=2		1	TERM HERE?	16-7/8		543

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - PIN ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 62 RUN NUMBER
DPE (0)	H A24J1		RF11=12=2		2				544
DPE (0)	H A23P2		RF11=12=2		1				544
DPE (0)	H B20L1		RF11=12=2		2				544
DPE (0)	H B28H1		RF11=12=2		1		17-6/8		544
DPE (0)	H A31D1		RF11=02		1				545
DPE (1)	H B20M1		RF11=12=2		1	CABLE			545
DPE (1)	H B27H1		RF11=12=2		1	TERM HERE?	12-2/8		545
DR DLY	H C13T2		RF11=13=1		1				546
DR DLY	H D13T2		RF11=10		2				546
DR DLY	H D13T2		RF11=10		1		19-0/8		546
DR DLY	L D12D1		RF11=14=2		1				547
DR DLY	L D13S2		RF11=10=1		1		5-0/8		547
DR DLY	H B23F1		RF11=13=1			1-PIN RUN			548
DR L (1)	H A32U2		RF11=13=1		2				549
DR L (1)	H B23E1		RF11=13=1		1				549
DR L (1)	H A11P1		RF11=06=1		1		19-6/8		549
DR L (1)	H C17P1		RF11=16=1		1				550
DS 00 (0)	H C23F1		RF11=15=1		1		7-0/8		550
DS 00 (0)	H B30C1		RF11=24		2	TERM HERE?			551
DS 00 (1)	H B31V2		RF11=02		1	CABLE			551
DS 00 (1)	H C24T2		RF11=15=1		2				551
DS 00 (1)	H C23E1		RF11=15=1		1				551
DS 00 (1)	H C17M1		RF11=16=1		1	TERM HERE?	26-2/8		551
DS 00 (1)	H C17M1		RF11=16=1		1				551
DS 00 (0)	H C17P1		RF11=16=1		1				552
DS 00 (0)	H C23F1		RF11=15=1		1		6-4/8		552
DS 01 (0)	H C17M2		RF11=16=1		1				553
DS 01 (0)	H C23J2		RF11=15=1		1				553
DS 01 (1)	H B30E2		RF11=24		1	TERM HERE?			553
DS 01 (1)	H B31U2		RF11=02		2	CABLE			553
DS 01 (1)	H C23C1		RF11=15=1		1				553
DS 01 (1)	H C23H2		RF11=15=1		1				553
DS 01 (1)	H C17K2		RF11=16=1		2	TERM HERE?	22-6/8		553
DS 01 (1)	H C17K2		RF11=16=1		1				553

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER PIN	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 69 RUN NUMBER
GND 02	A02B2	1-01 *	RF11=01		1				603
GND 02	A02C2	1-02 *			1				603
GND 02	A02N1	1-03 *	RF11=01		1				603
GND 02	A02R1	1-04 *			1				603
GND 02	A02P1	1-05 *	RF11=01		1				603
GND 02	A02S1	1-06 *			1				603
GND 02	A02T1	1-07 *			1				603
GND 02	A02V2	1-08 *	RF11=01		1				603
GND 02	B02B2	1-09 *	RF11=01		1				603
GND 02	B02D1	1-10 *	RF11=01		1				603
GND 02	B02C2	1-11 *			1				603
GND 02	B02E1	1-12 *	RF11=01		1				603
GND 02	B02T1	1-13 *			1				603
GND 02	B02V2	1-14 *	RF11=01		1				603
GND 02	C02C2	1-15 *			1				603
GND 02	C02T1	1-16 *			1				603
GND 02	D02C2	1-17 *			1				603
GND 02	D02T1	1-18 *			1				603
GND 03	A03C2	1-01 *			2		36=0/8		604
GND 03	A03T1	1-02 *			1				604
GND 03	B03C2	1-03 *			1				604
GND 03	B03T1	1-04 *			1				604
GND 03	C03C2	1-05 *			1				604
GND 03	C03T1	1-06 *			1				604
GND 03	D03C2	1-07 *			1				604
GND 03	D03T1	1-08 *			1				604
GND 04	A04C2	1-01 *			2		31=4/8		605
GND 04	A04T1	1-02 *			1				605
GND 04	B04C2	1-03 *			1				605
GND 04	B04T1	1-04 *			1				605
GND 04	C04C2	1-05 *			1				605
GND 04	C04T1	1-06 *			1				605
GND 04	D04C2	1-07 *			1				605
GND 04	D04T1	1-08 *			1				605

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER PIN	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 70 RUN NUMBER
GND 05	A05C2	1-01 *			2				606
GND 05	A05T1	1-02 *			1				606
GND 05	B05C2	1-03 *			2				606
GND 05	B05T1	1-04 *			1				606
GND 05	C05C2	1-05 *			2				606
GND 05	C05T1	1-06 *			1				606
GND 05	D05C2	1-07 *			1				606
GND 05	D05T1	1-08 *			1		31=4/8		606
GND 06	A06C2	1-01 *			1				607
GND 06	A06F1	1-02 *	RF11=08		1				607
GND 06	A06T1	1-03 *			1				607
GND 06	B06C2	1-04 *			1				607
GND 06	B06T1	1-05 *			1				607
GND 06	C06C2	1-06 *			1				607
GND 06	C06K1	1-07 *	RF11=08		1				607
GND 06	C06T1	1-08 *			1				607
GND 06	D06C2	1-09 *			1				607
GND 06	D06T1	1-10 *			1				607
GND 07	A07C2	1-01 *			1				608
GND 07	A07J2	1-02 *	RF11=04		1				608
GND 07	A07R1	1-03 *	RF11=03=1		1				608
GND 07	A07T1	1-04 *			1				608
GND 07	B07C2	1-05 *			1				608
GND 07	B07C1	1-06 *	RF11=03=2		1				608
GND 07	B07H1	1-07 *	RF11=03=2		1				608
GND 07	B07P1	1-08 *	RF11=03=2		1				608
GND 07	B07R1	1-09 *	RF11=03=2		1				608
GND 07	B07T1	1-10 *			1				608
GND 07	C07C2	1-11 *			1				608
GND 07	C07T1	1-12 *			1				608
GND 07	D07C2	1-13 *			1				608
GND 07	D07F2	1-14 *			1				608
GND 07	D07L2	1-15 *			1				608
GND 07	D07J2	1-16 *	RF11=23		1				608
GND 07	D07N2	1-17 *	RF11=23		1				608
GND 07	D07R2	1-18 *	RF11=23		1				608
GND 07	D07T1	1-19 *			1				608
GND 07	D07U2	1-20 *	RF11=23		1				608

RF11.8 RUN NAME	A/P PIN NAME	ORDER PIN	BAY ORDER	06/22/72	Q	DRAW RV	PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 71 RUN NUMBER
GND 08	A08C2	1-01 *											609
GND 08	A08T1	1-02 *											609
GND 08	B08A1	1-03 *	RF11=07										609
GND 08	B08C2	1-04 *											609
GND 08	B08T1	1-05 *											609
GND 08	B08V2	1-06 *	RF11=07										609
GND 08	C08C2	1-07 *											609
GND 08	C08T1	1-08 *											609
GND 08	D08C2	1-09 *											609
GND 08	D08T1	1-10 *									36=4/8		609
GND 09	A09C2	1-01 *											610
GND 09	A09T1	1-02 *											610
GND 09	B09C2	1-03 *											610
GND 09	B09T1	1-04 *											610
GND 09	C09C2	1-05 *											610
GND 09	C09T1	1-06 *											610
GND 09	D09C2	1-07 *											610
GND 09	D09T1	1-08 *											610
GND 10	A10C2	1-01 *											611
GND 10	A10T1	1-02 *											611
GND 10	B10C2	1-03 *											611
GND 10	B10T1	1-04 *											611
GND 10	B10V2	1-05 *											611
GND 10	C10C2	1-06 *											611
GND 10	C10T1	1-07 *											611
GND 10	D10C2	1-08 *											611
GND 10	D10T1	1-09 *											611
GND 11	A11B1	1-01 *	RF11=06=1										612
GND 11	A11C2	1-02 *											612
GND 11	A11L2	1-03 *	RF11=06=1										612
GND 11	A11T1	1-04 *											612
GND 11	B11C2	1-05 *											612
GND 11	B11T1	1-06 *											612
GND 11	C11C2	1-07 *											612
GND 11	C11T1	1-08 *											612
GND 11	D11C2	1-09 *											612
GND 11	D11T1	1-10 *											612
GND 11		1									37=1/8		612

RF11.8 RUN NAME	A/P PIN NAME	ORDER PIN	BAY ORDER	06/22/72	Q	DRAW RV	PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 72 RUN NUMBER
GND 12	A12C2	1-01 *											613
GND 12	A12B1	1-02 *											613
GND 12	A12D1	1-03 *	RF11=06=2										613
GND 12	A12H1	1-04 *	RF11=06=2										613
GND 12	A12T1	1-05 *											613
GND 12	B12C2	1-06 *											613
GND 12	B12T1	1-07 *											613
GND 12	C12C2	1-08 *											613
GND 12	C12T1	1-09 *											613
GND 12	D12C2	1-10 *											613
GND 12	D12T1	1-11 *											613
GND 13	A13C2	1-01 *											614
GND 13	A13T1	1-02 *											614
GND 13	B13C2	1-03 *											614
GND 13	B13T1	1-04 *											614
GND 13	C13C2	1-05 *											614
GND 13	C13T1	1-06 *											614
GND 13	D13C2	1-07 *											614
GND 13	D13T1	1-08 *											614
GND 14	A14C2	1-01 *											615
GND 14	A14T1	1-02 *											615
GND 14	B14C2	1-03 *											615
GND 14	B14T1	1-04 *											615
GND 14	C14C2	1-05 *											615
GND 14	C14T1	1-06 *											615
GND 14	D14C2	1-07 *											615
GND 14	D14T1	1-08 *											615
GND 15	A15C2	1-01 *											616
GND 15	A15T1	1-02 *											616
GND 15	B15C2	1-03 *											616
GND 15	B15T1	1-04 *											616
GND 15	C15C2	1-05 *											616
GND 15	C15T1	1-06 *											616
GND 15	D15C2	1-07 *											616
GND 15	D15T1	1-08 *											616
GND 15		1-09 *											616
GND 15		1-10 *											616
GND 15		1									36=7/8		616

RF11.B RUN NAME	A/P PIN NAME	WRP288.V17(17) 06/22/72 ORDER PIN	BAY ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 73 RUN NUMBER
GND 16	A16C2		1-01 *							1				617
GND 16	A16T1		1-02 *							2				617
GND 16	B16C2		1-03 *							1				617
GND 16	B16C1		1-04 *							2				617
GND 16	B16T1		1-05 *							1				617
GND 16	C16C2		1-06 *							2				617
GND 16	C16T1		1-07 *							1				617
GND 16	D16C2		1-08 *							2				617
GND 16	D16T1		1-09 *							1				617
GND 17			1									34-2/8		617
GND 17	A17C2		1-01 *							2				618
GND 17	A17T1		1-02 *							1				618
GND 17	B17C2		1-03 *							2				618
GND 17	B17T1		1-04 *							1				618
GND 17	C17C2		1-05 *							2				618
GND 17	C17T1		1-06 *							1				618
GND 17	D17C2		1-07 *							2				618
GND 17	D17T1		1-08 *							1				618
GND 17			1									31-4/8		618
GND 18	A18C2		1-01 *							1				619
GND 18	A18T1		1-02 *							2				619
GND 18	B18C2		1-03 *							1				619
GND 18	B18T1		1-04 *							2				619
GND 18	C18C2		1-05 *							1				619
GND 18	C18C1		1-06 *							2				619
GND 18	C18T1		1-07 *							1				619
GND 18	D18C2		1-08 *							2				619
GND 18	D18T1		1-09 *							1				619
GND 18			1									34-2/8		619
GND 19	A19C2		1-01 *							1				620
GND 19	A19T1		1-02 *							2				620
GND 19	B19A1		1-03 *							1				620
GND 19	B19C2		1-04 *							2				620
GND 19	B19P1		1-05 *							1				620
GND 19	B19R1		1-06 *							2				620
GND 19	B19T1		1-07 *							1				620
GND 19	C19C2		1-08 *							2				620
GND 19	C19T1		1-09 *							1				620
GND 19	D19C2		1-10 *							2				620
GND 19	D19T1		1-11 *							1				620
GND 19			1									38-7/8		620

RF11.B RUN NAME	A/P PIN NAME	WRP288.V17(17) 06/22/72 ORDER PIN	BAY ORDER	Q	DRAW	RV	PG	Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 74 RUN NUMBER
GND 20	A20C2		1-01 *							1				621
GND 20	A20M2		1-02 *							2				621
GND 20	A20T1		1-03 *							1				621
GND 20	B20C2		1-04 *							2				621
GND 20	B20C1		1-05 *							1				621
GND 20	B20T1		1-06 *							2				621
GND 20	C20C2		1-07 *							1				621
GND 20	C20T1		1-08 *							2				621
GND 20	D20C2		1-09 *							1				621
GND 20	D20T1		1-10 *							2				621
GND 20			1-11 *							1				621
GND 20			1									39-3/8		621
GND 21	A21C2		1-01 *							2				622
GND 21	A21T1		1-02 *							1				622
GND 21	B21C2		1-03 *							2				622
GND 21	B21T1		1-04 *							1				622
GND 21	C21C2		1-05 *							2				622
GND 21	C21T1		1-06 *							1				622
GND 21	D21C2		1-07 *							2				622
GND 21	D21T1		1-08 *							1				622
GND 21			1									31-4/8		622
GND 22	A22C2		1-01 *							2				623
GND 22	A22T1		1-02 *							1				623
GND 22	B22C2		1-03 *							2				623
GND 22	B22P1		1-04 *							1				623
GND 22	B22T1		1-05 *							2				623
GND 22	B22T2		1-06 *							1				623
GND 22	C22C2		1-07 *							2				623
GND 22	C22T1		1-08 *							1				623
GND 22	D22C2		1-09 *							2				623
GND 22	D22T1		1-10 *							1				623
GND 22			1									36-7/8		623
GND 23	A23C2		1-01 *							2				624
GND 23	A23T1		1-02 *							1				624
GND 23	B23C2		1-03 *							2				624
GND 23	B23T1		1-04 *							1				624
GND 23	C23C2		1-05 *							2				624
GND 23	C23T1		1-06 *							1				624
GND 23	D23C2		1-07 *							2				624
GND 23	D23T1		1-08 *							1				624
GND 23			1									31-4/8		624

RF11.B RUN NAME	4 P PIN NAME	WPP288.V17(17) 06/22/72 ORDER PIN	BAY - ORDER	Q DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 75 RUN NUMBER
GND 24	A24C2	1-01 *				2				625
GND 24	A24T1	1-02 *				1				625
GND 24	B24C2	1-03 *				2				625
GND 24	B24T1	1-04 *				1				625
GND 24	C24C2	1-05 *				2				625
GND 24	C24T1	1-06 *				1				625
GND 24	D24C2	1-07 *				2				625
GND 24	D24T1	1-08 *				1				625
GND 24		1						31-4/8		625
GND 25	A25C2	1-01 *				2				626
GND 25	A25T1	1-02 *				1				626
GND 25	B25C2	1-03 *				2				626
GND 25	B25T1	1-04 *				1				626
GND 25	C25C2	1-05 *				2				626
GND 25	C25T1	1-06 *				1				626
GND 25	C25U1	1-07 *				2				626
GND 25	D25C2	1-08 *				1				626
GND 25	D25T1	1-09 *				2				626
GND 25		1						33-7/8		626
GND 26	A26C2	1-01 *				2				627
GND 26	A26E2	1-02 *				1				627
GND 26	A26T1	1-03 *				2				627
GND 26	B26C2	1-04 *				1				627
GND 26	B26T1	1-05 *				2				627
GND 26	C26C2	1-06 *				1				627
GND 26	C26T1	1-07 *				2				627
GND 26	D26C2	1-08 *				1				627
GND 26	D26T1	1-09 *				2				627
GND 26		1						34-0/8		627

RF11.B RUN NAME	4 P PIN NAME	WPP288.V17(17) 06/22/72 ORDER PIN	BAY - ORDER	Q DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 76 RUN NUMBER
GND 27	A27C2	1-01 *				2				628
GND 27	A27T1	1-02 *				1				628
GND 27	B27C2	1-03 *				2				628
GND 27	B27T1	1-04 *				1				628
GND 27	C27C2	1-05 *				2				628
GND 27	C27T1	1-06 *				1				628
GND 27	D27C2	1-07 *				2				628
GND 27	D27F2	1-08 *				1				628
GND 27	D27L2	1-09 *				2				628
GND 27	D27R2	1-10 *				1				628
GND 27	D27V1	1-11 *				2				628
GND 27	D27S1	1-12 *				1				628
GND 27	D27U2	1-13 *				2				628
GND 27	D27T1	1-14 *				1				628
GND 27	D27P1	1-15 *				2				628
GND 27	D27N2	1-16 *				1				628
GND 27	D27M1	1-17 *				2				628
GND 27	D27K1	1-18 *				1				628
GND 27	D27J2	1-19 *				2				628
GND 27	D27H1	1-20 *				1				628
GND 27		1-21 *						68-0/8		628
GND 28	A28C2	1-01 *				2				629
GND 28	A28T1	1-02 *				1				629
GND 28	B28C2	1-03 *				2				629
GND 28	B28T1	1-04 *				1				629
GND 28	C28C2	1-05 *				2				629
GND 28	C28F2	1-06 *				1				629
GND 28	C28J2	1-07 *				2				629
GND 28	C28L2	1-08 *				1				629
GND 28	C28R2	1-09 *				2				629
GND 28	C28N2	1-10 *				1				629
GND 28	C28M1	1-11 *				2				629
GND 28	C28H1	1-12 *				1				629
GND 28	C28E1	1-13 *				2				629
GND 28	C28K1	1-14 *				1				629
GND 28	C28P1	1-15 *				2				629
GND 28	C28S1	1-16 *				1				629
GND 28	C28U2	1-17 *				2				629
GND 28	D28C2	1-18 *				1				629
GND 28	D28T1	1-19 *				2				629
GND 28		1-20 *				1				629
GND 28		1-21 *						68-0/8		629

RF11.B RUN NAME	A/P PIN NAME	WRP288.V17(17) 06/22/72 ORDER PIN	BAY - ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 77 RUN NUMBER
GND 29	A29C2		1-01 *								630
GND 29	A29T1		1-02 *								630
GND 29	B29C2		1-03 *								630
GND 29	B29T1		1-04 *								630
GND 29	C29C1		1-05 *								630
GND 29	C29C2		1-06 *								630
GND 29	C29F2		1-07 *								630
GND 29	C29J2		1-08 *								630
GND 29	C29L2		1-09 *								630
GND 29	C29N2		1-10 *								630
GND 29	C29M1		1-11 *								630
GND 29	C29H1		1-12 *								630
GND 29	C29E1		1-13 *								630
GND 29	C29K1		1-14 *								630
GND 29	C29P1		1-15 *								630
GND 29	C29T1		1-16 *								630
GND 29	C29R2		1-17 *								630
GND 29	C29U2		1-18 *								630
GND 29	C29S1		1-19 *								630
GND 29	C29V1		1-20 *								630
GND 29	D29C2		1-21 *								630
GND 29	D29T1		1-22 *								630
			1						70-5/8		
GND 30	A30C2		1-01 *								631
GND 30	A30T1		1-02 *								631
GND 30	B30C2		1-03 *								631
GND 30	B30T1		1-04 *								631
GND 30	C30C2		1-05 *								631
GND 30	C30T1		1-06 *								631
GND 30	D30C2		1-07 *								631
GND 30	D30T1		1-08 *								631
			1						31-4/8		

RF11.B RUN NAME	A/P PIN NAME	WRP288.V17(17) 06/22/72 ORDER PIN	BAY - ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 78 RUN NUMBER
GND 31	B31C2		1-01 *								632
GND 31	C31C2		1-02 *								632
GND 31	C31F2		1-03 *								632
GND 31	C31L2		1-04 *								632
GND 31	C31J2		1-05 *								632
GND 31	C31N2		1-06 *								632
GND 31	C31R2		1-07 *								632
GND 31	C31T1		1-08 *								632
GND 31	C31U2		1-09 *								632
GND 31	D31C2		1-10 *								632
GND 31	D31F2		1-11 *								632
GND 31	D31L2		1-12 *								632
GND 31	D31J2		1-13 *								632
GND 31	D31N2		1-14 *								632
GND 31	D31R2		1-15 *								632
GND 31	D31T1		1-16 *								632
GND 31	D31U2		1-17 *								632
			1						50-4/8		
GND 32	A32T2		1-01 *								633
GND 32	C32C2		1-02 *								633
GND 32	C32F2		1-03 *								633
GND 32	C32L2		1-04 *								633
GND 32	C32J2		1-05 *								633
GND 32	C32N2		1-06 *								633
GND 32	C32R2		1-07 *								633
GND 32	C32T1		1-08 *								633
GND 32	C32U2		1-09 *								633
GND 32	D32C2		1-10 *								633
GND 32	D32F2		1-11 *								633
GND 32	D32J2		1-12 *								633
GND 32	D32N2		1-13 *								633
GND 32	D32L2		1-14 *								633
GND 32	D32R2		1-15 *								633
GND 32	D32T1		1-16 *								633
GND 32	D32U2		1-17 *								633
			1						51-6/8		
G0	A10C1		1-01 *								634
G0	A19K2		1-02 *								634
G0			1						8-4/8		

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER PIN	Q	DRAW RV PG Y	X	Z	REMARKS	26=JAN=73 LENGTH	1151 EXCEPTIONS	PAGE 79 RUN NUMBER
GO	A1942	1-01 *			2				635
GO	A19J2	1-02 *			2				635
GO	A19S2	1-03 *			2				635
GO	B20N1	1-04 *			2				635
GO	B20S2	1-05 *			2				635
GO		1			1		15=0/8		635
GO CLR	A19N2	1-01 *	RF11=12=1		1				636
GO CLR	B26B1	1-02 *	RF11=12=2		1				636
GO CLR		1					7=6/8		636
IN	B08M1	1-01 *	RF11=07		2				637
IN	B09P2	1-02 *	RF11=11		2				637
IN	B09R2	1-03 *	RF11=11		2				637
IN	C16C1	1-04 *	RF11=11		2				637
IN		1			1		13=5/8		637
INC DA (0)	A26K2	1-01 *	RF11=12=2		2				638
INC DA (0)	B22S1	1-02 *	RF11=13=1		2				638
INC DA (0)	D18M2	1-03 *	RF11=10		2				638
INC DA (0)		1			1		18=2/8		638
INC DA (1)	B22U1	1-01 *	RF11=13=1		1				639
INC DA (1)	B23L2	1-02 *	RF11=13=1		1				639
INC DA (1)		1					4=3/8		639
INC DAE (0)	B19N2		RF11=13=1					1-PIN RUN	640
INC DAE (1)	B19D2	1-01 *	RF11=13=1		1				641
INC DAE (1)	B23D2	1-02 *	RF11=13=1		1				641
INC DAE (1)		1					5=0/8		641
INC DAR HI (0)	B16E1		RF11=14=2					1-PIN RUN	642
INC DAR HI (1)	B16F1	1-01 *	RF11=14=2		1				643
INC DAR HI (1)	B17B1	1-02 *	RF11=14=2		1				643
INC DAR HI (1)		1					3=6/8		643
INC TA (0)	B15E1	1-01 *	RF11=14=2		2				644
INC TA (0)	B16E2	1-02 *	RF11=14=2		1				644
INC TA (0)	B24T2	1-03 *	RF11=11		1				644
INC TA (0)		1					12=2/8		644
INC TA (1)	B15F1		RF11=14=2					1-PIN RUN	645

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER PIN	Q	DRAW RV PG Y	X	Z	REMARKS	26=JAN=73 LENGTH	1151 EXCEPTIONS	PAGE 80 RUN NUMBER
INC WA	A06C1	1-01 *	RF11=09		1				646
INC WA	A16F2	1-02 *	RF11=14=1		2				646
INC WA	B18B1	1-03 *	RF11=14=1		2				646
INC WA		1					14=6/8		646
INIT	B05N2	1-01 *	RF11=05		1				647
INIT	B27E2	1-02 *	RF11=12=2		1				647
INIT		1					14=6/8		647
INIT + DC (0)	B25B1	1-01 *	RF11=12=2		1				648
INIT + DC (0)	B26C1	1-02 *	RF11=12=2		2				648
INIT + DC (0)	B26J2	1-03 *	RF11=12=1		1				648
INIT + DC (0)	B27F2	1-04 *	RF11=12=1		1				648
INIT + DC (0)		1					10=1/8		648
INT ENA (0)	A20N1		RF11=12=1					1-PIN RUN	649
INT ENA (1)	A0742	1-01 *	RF11=04		1			TERM HERE?	650
INT ENA (1)	A11M2	1-02 *	RF11=06=1		2				650
INT ENA (1)	A20M1	1-03 *	RF11=12=1		1				650
INT ENA (1)	A31H2	1-04 *	RF11=02		1			CABLE	650
INT ENA (1)		1					22=0/8		650
INTR CLR	A07M2	1-01 *	RF11=04		1				651
INTR CLR	A07S1	1-02 *	RF11=04		1				651
INTR CLR		1					3=4/8		651
INTR MASTER	A07P2	1-01 *	RF11=04		1				652
INTR MASTER	A07S2	1-02 *	RF11=04		1				652
INTR MASTER		1					2=6/8		652
ID STR 1	A27J1	1-01 *	RF11=13=1		1				653
ID STR 1	A27E2	1-02 *	RF11=12=1		2				653
ID STR 1	A16B1	1-03 *	RF11=14=2		1				653
ID STR 1	A16J2	1-04 *	RF11=14=1		2				653
ID STR 1	A16R2	1-05 *	RF11=13=2		1				653
ID STR 1	A16R1	1-06 *	RF11=18=2		1				653
ID STR 1	A16U2	1-07 *	RF11=18=1		1				653
ID STR 1	C16D1	1-08 *	RF11=11		1				653
ID STR 1	C10F2	1-09 *	RF11=11		1				653
ID STR 1	C10M2	1-10 *	RF11=11		1				653
ID STR 1	C09B1	1-11 *	RF11=21		1				653
ID STR 1		1					46=3/8		653

RF11.B RUN NAME	MRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME PIN ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 81 RUN NUMBER
ID STR 2	A23B1	1-01 *	RF11s13=1		1				654
ID STR 2	A19B1	1-02 *	RF11s12=1		1				654
ID STR 2	A18B1	1-03 *	RF11s14=2		1				654
ID STR 2	A17B1	1-04 *	RF11s14=1		1				654
ID STR 2	A14B1	1-05 *	RF11s18=2		1				654
ID STR 2	A13B1	1-06 *	RF11s18=1		1				654
ID STR 2	B09B1	1-07 *	RF11s08		1				654
ID STR 2	B09E2	1-08 *	RF11s08		1				654
ID STR 2	B09E1	1-09 *	RF11s08		1				654
ID STR 2	B09J1	1-10 *	RF11s08		1				654
ID STR 2	C07N1	1-11 *	RF11s21		1				654
ID STR 2	C09B2	1-12 *	RF11s21		1				654
ID STR 2	C10T2	1-13 *	RF11s11		1				654
ID STR 2	C16A1	1-14 *	RF11s11		1				654
ID STR 2		1					57-6/8		654
IOB TO DAE	A23C1	1-01 *	RF11s13=1		2				655
IOB TO DAE	A23D1	1-02 *	RF11s13=1		1				655
IOB TO DAE	A23E1	1-03 *	RF11s13=1		2				655
IOB TO DAE	A29H2	1-04 *	RF11s12=2		1				655
IOB TO DAE		1					10-2/8		655
LD LY (0)	B23U2	1-01 *	RF11s12=1		1				656
LD LY (0)	C12E1	1-02 *	RF11s12=1		1				656
LD LY (0)		1					10-6/8		656
LD LY (1)	C12F1		RF11s12=1					1-PIN RUN	657
LD SR (0)	B28U2	1-01 *	RF11s12=1		1				658
LD SR (0)	C12C1	1-02 *	RF11s12=1		2				658
LD SR (0)	D17H1	1-03 *	RF11s11		1				658
LD SR (0)		1					19-7/8		658
LD SR (1)	B21A1	1-01 *	RF11s12=2		1				659
LD SR (1)	D23T2	1-02 *	RF11s11		2				659
LD SR (1)	D19S2	1-03 *	RF11s11		1				659
LD SR (1)	D17F1	1-04 *	RF11s11		2				659
LD SR (1)	D10M1	1-05 *	RF11s11		1				659
LD SR (1)		1					28-5/8		659
LOCK	C14R1	1-01 *	RF11s11		1				660
LOCK	C28V1	1-02 *	RF11s22		2				660
LOCK	D28V2	1-03 *	RF11s22		1				660
LOCK		1					16-4/8		660

RF11.B RUN NAME	MRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME PIN ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 82 RUN NUMBER
LOCK	C14L2	1-01 *	RF11s11		1				661
LOCK	D28V1	1-02 *	RF11s22		1				661
LOCK		1					13-4/8		661
LS EN	C14S2	1-01 *	RF11s11		1				662
LS EN	D17M2	1-02 *	RF11s11		2				662
LS EN	D19K2	1-03 *	RF11s11		1				662
LS EN		1					10-6/8		662
LS EN	C18J1	1-01 *	RF11s11		1				663
LS EN	D17N2	1-02 *	RF11s11		1				663
LS EN		1					6-4/8		663
LSTE (0)	B25J2	1-01 *	RF11s13=1		1				664
LSTE (0)	C18L1	1-02 *	RF11s11		1				664
LSTE (0)		1					8-7/8		664
LSTE (1)	C18M1		RF11s11					1-PIN RUN	665
MA (0)	B28D1	1-01 *	RF11s12=2		2				666
MA (0)	A20S2	1-02 *	RF11s12=1		1				666
MA (0)	C13P2	1-03 *	RF11s11		2				666
MA (0)	D16J1	1-04 *	RF11s10		1				666
MA (0)		1					25-6/8		666
MA (1)	A11J1	1-01 *	RF11s06=1		2				667
MA (1)	A20R2	1-02 *	RF11s12=1		1			TERM HERE?	667
MA (1)	A31R2	1-03 *	RF11s02		1			CABLE	667
MA (1)		1					17-0/8		667
MA IN HI	B10N2	1-01 *	96+ 7		1				668
MA IN HI	C09A1	1-02 *	RF11s21		2				668
MA IN HI	C07P1	1-03 *	RF11s21		1				668
MA IN HI	C07R1	1-04 *	RF11s21		1				668
MA IN HI		1					12-0/8		668
MA IN LD	B10M2	1-01 *	RF11s07		1				669
MA IN LD	C09J2	1-02 *	RF11s21		2				669
MA IN LD	C09M2	1-03 *	RF11s21		1				669
MA IN LD	C09R1	1-04 *	RF11s21		2				669
MA IN LD	C09P2	1-05 *	RF11s21		1				669
MA IN LD	C09M1	1-06 *	RF11s21		2				669
MA IN LD	C08H1	1-07 *	RF11s21		1				669
MA IN LD	C08C1	1-08 *	RF11s21		1				669
MA IN LD		1					23-5/8		669

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME PIN ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 87 RUN NUMBER
SBM	B27B1		RF11=13=2		1				714
SBM	D17R2		RF11=19				14=1/8		714
SBM	A22U2		RF11=13=2		2				715
SBM	B26S1		RF11=13=2		1				715
SBM	C18N1		RF11=11		2				715
SBM	D18S2		RF11=19		2				715
SBM	D17P2		RF11=19		2				715
SBM	D16S2		RF11=19		2				715
SBM	D15T2		RF11=19		2				715
SBM	D15P2		RF11=19		2				715
SBM	D15L1		RF11=19		2				715
SBM	D16E1		RF11=19		2				715
SBM	C12B1		RF11=12=2		1				715
SEL DSK 0	B11V1		RF11=06=1		1		49=4/8		716
SEL DSK 0	B11U2		RF11=06=1		2				716
SEL DSK 0	B12U2		RF11=06=2				5=7/8		716
SEL DSK 0	C25D1		RF11=17		1				717
SEL DSK 0	D26A1		RF11=17						717
SEL DSK 1	C25E1		RF11=17		1				718
SEL DSK 1	D26C1		RF11=17				5=6/8		718
SEL DSK 2	C25J1		RF11=17		1				719
SEL DSK 2	D26E1		RF11=17						719
SEL DSK 3	C25N1		RF11=17		1				719
SEL DSK 3	D26H1		RF11=17				5=6/8		720
SEL DSK 4	C25F1		RF11=17		1				720
SEL DSK 4	D26K1		RF11=17						720
SEL DSK 5	C25M1		RF11=17		1				721
SEL DSK 5	D26M1		RF11=17				6=4/8		721
SEL DSK 5									721
SEL DSK 5									722
SEL DSK 5									722
SEL DSK 5									722

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME PIN ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 88 RUN NUMBER
SEL DSK 6	C25H1		RF11=17		1				723
SEL DSK 6	D26P1		RF11=17						723
SEL DSK 6							7=0/8		723
SEL DSK 7	C25L1		RF11=17		1				724
SEL DSK 7	D26S1		RF11=17						724
SEL DSK 7							6=6/8		724
SEL DSK A	C26F1		RF11=17		1				725
SEL DSK A	D26D2		RF11=17		2				725
SEL DSK A	D27U1		RF11=22						725
SEL DSK A							10=4/8		725
SEL DSK H	C26H1		RF11=17		1				726
SEL DSK H	D26F2		RF11=17		2				726
SEL DSK H	D27R1		RF11=22						726
SEL DSK H							10=2/8		726
SEL DSK C	C26J1		RF11=17		2				727
SEL DSK C	D26J2		RF11=17		1				727
SEL DSK C	D27N1		RF11=22						727
SEL DSK C							9=4/8		727
SEL DSK D	C26K1		RF11=17		2				728
SEL DSK D	D26L2		RF11=17		1				728
SEL DSK D	D27L1		RF11=22						728
SEL DSK D							9=0/8		728
SEL DSK E	C26K2		RF11=17		1				729
SEL DSK E	D27J1		RF11=22		2				729
SEL DSK E	D26N2		RF11=17						729
SEL DSK E							9=4/8		729
SEL DSK F	C26L2		RF11=17		1				730
SEL DSK F	D27F1		RF11=22		2				730
SEL DSK F	D26S2		RF11=17						730
SEL DSK F							10=0/8		730
SEL DSK H	C26M2		RF11=17		2				731
SEL DSK H	D27D1		RF11=22		1				731
SEL DSK H	D26T2		RF11=17						731
SEL DSK H							10=0/8		731
SEL DSK J	C26N2		RF11=17		2				732
SEL DSK J	D27B1		RF11=22		1				732
SEL DSK J	D26V2		RF11=17						732
SEL DSK J							10=0/8		732

RF11.B RUN NAME	A/P PIN NAME	WRP288.V17(17) 06/22/72 ORDER PIN	BAY - ORDER	Q	DRAW RV	PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 89 RUN NUMBER
SEL ERR	L A22C1	1-01 *	RF11E12=2					1				733
SEL ERR	L A22E2	1-02 *	RF11E12=2					2				733
SEL ERR	L C26P2	1-03 *	RF11E17							14=0/8		733
SEL ERR		1										733
SELECT 00	H D27V2	1-01 *	RF11E22					1			TERM HERE? CABLE	734
SELECT 00	H D32D2	1-02 *	RF11E23							6=7/8		734
SELECT 00		1										734
SELECT 01	H D27S2	1-01 *	RF11E22					1			TERM HERE? CABLE	735
SELECT 01	H D32E2	1-02 *	RF11E23							6=6/8		735
SELECT 01		1										735
SELECT 02	H D27P2	1-01 *	RF11E22					1			TERM HERE? CABLE	736
SELECT 02	H D32H2	1-02 *	RF11E23							6=2/8		736
SELECT 02		1										736
SELECT 03	H D27M2	1-01 *	RF11E22					1			TERM HERE? CABLE	737
SELECT 03	H D32K2	1-02 *	RF11E23							5=6/8		737
SELECT 03		1										737
SELECT 04	H D27K2	1-01 *	RF11E22					1			TERM HERE? CABLE	738
SELECT 04	H D32M2	1-02 *	RF11E23							5=6/8		738
SELECT 04		1										738
SELECT 05	H D27H2	1-01 *	RF11E22					1			TERM HERE? CABLE	739
SELECT 05	H D32P2	1-02 *	RF11E23							6=2/8		739
SELECT 05		1										739
SELECT 06	H D27E2	1-01 *	RF11E22					1			TERM HERE? CABLE	740
SELECT 06	H D32S2	1-02 *	RF11E23							6=6/8		740
SELECT 06		1										740
SELECT 07	H D27D2	1-01 *	RF11E22					1			TERM HERE? CABLE	741
SELECT 07	H D32T2	1-02 *	RF11E23							7=0/8		741
SELECT 07		1										741
SEGER (0)	H A22H2	1-01 *	RF11E12=2					1				742
SEGER (0)	H A27D1	1-02 *	RF11E12=2							5=6/8		742
SEGER (0)		1										742
SEGER (1)	H A22J2	1-01 *	RF11E12=2					1			TERM HERE? CABLE	743
SEGER (1)	H A32C1	1-02 *	RF11E02							8=2/8		743
SEGER (1)		1										743

RF11.B RUN NAME	A/P PIN NAME	WRP288.V17(17) 06/22/72 ORDER PIN	BAY - ORDER	Q	DRAW RV	PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 90 RUN NUMBER
SR 00 (0)	H C21M2	1-01 *	RF11E20=1					1				744
SR 00 (0)	H C22V1	1-02 *	RF11E20=1							4=2/8		744
SR 00 (0)		1										744
SR 00 (1)	H B32V1	1-01 *	RF11E02					2			CABLE	745
SR 00 (1)	H C22V2	1-02 *	RF11E20=1					1			TERM HERE?	745
SR 00 (1)	H B13C1	1-03 *	RF11E18=1							20=2/8		745
SR 00 (1)		1										745
SR 01 (0)	H C22U1		RF11E20=1								1-PIN RUN	746
SR 01 (1)	H B32U1	1-01 *	RF11E02					2			CABLE	747
SR 01 (1)	H C22T2	1-02 *	RF11E20=1					1				747
SR 01 (1)	H C22S1	1-03 *	RF11E20=1					2				747
SR 01 (1)	H B13E2	1-04 *	RF11E18=1							22=0/8		747
SR 01 (1)		1										747
SR 02 (0)	H C22R2		RF11E20=1								1-PIN RUN	748
SR 02 (1)	H B32T1	1-01 *	RF11E02					2			CABLE	749
SR 02 (1)	H C22P2	1-02 *	RF11E20=1					1				749
SR 02 (1)	H C22P1	1-03 *	RF11E20=1					2				749
SR 02 (1)	H B13J1	1-04 *	RF11E18=1							22=6/8		749
SR 02 (1)		1										749
SR 03 (0)	H C22M1		RF11E20=1								1-PIN RUN	750
SR 03 (1)	H B32S1	1-01 *	RF11E02					2			CABLE	751
SR 03 (1)	H C22M2	1-02 *	RF11E20=1					1				751
SR 03 (1)	H C22L1	1-03 *	RF11E20=1					2			TERM HERE?	751
SR 03 (1)	H B13M2	1-04 *	RF11E18=1							21=7/8		751
SR 03 (1)		1										751
SR 04 (0)	H C22J2		RF11E20=1								1-PIN RUN	752
SR 04 (1)	H B13P1	1-01 *	RF11E18=1					2				753
SR 04 (1)	H C22J1	1-02 *	RF11E20=1					1			TERM HERE?	753
SR 04 (1)	H C22H2	1-03 *	RF11E20=1					2				753
SR 04 (1)	H B32R1	1-04 *	RF11E02							21=3/8		753
SR 04 (1)		1									CABLE	753
SR 05 (0)	H C22F1		RF11E20=1								1-PIN RUN	754

RF11.5 RUN NAME	A/P PIN NAME	WPR288.V17(17) 06/22/72 ORDER PIN	BAY ORDER	Q DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 95 RUN NUMBER
SRD (0)	H	A10E2	1-01 *	RF11E14E1		1				786
SRD (0)	H	A16D2	1-02 *	RF11E18E1		2				786
SRD (0)	H	A15R2	1-03 *	RF11E11		1				786
SRD (0)	H	D15H2	1-04 *	RF11E11		2				786
SRD (0)	H	C18U2	1-05 *	RF11E11		1				786
SRD (0)	H	C18P2	1-06 *	RF11E11		1				786
SRD (1)	H	C18R2	1	RF11E11				30-0/8	1-PIN RUN	786
SSYN IN	H	B07A1	1-01 *	RF11E03E2		2				787
SSYN IN	H	B05L2	1-02 *	RF11E05		1				788
SSYN IN	H	C13D1	1-03 *	RF11E11		1				788
STROBE	H	B25M1	1-01 *	RF11E13E2		2				789
STROBE	H	B27A1	1-02 *	RF11E19		1				789
STROBE	H	D17L2	1-03 *	RF11E19		2				789
STROBE	H	D11D2	1-04 *	RF11E19		1				789
STROBE	L	D18V2	1-01 *	RF11E19		2				789
STROBE	L	D17K2	1-02 *	RF11E19		1				790
STROBE	L	D14B1	1-03 *	RF11E19		1				790
STRT XTIM	L	B10H1	1-01 *			1				791
STRT XTIM	L	D12R1	1-02 *			1				791
T00 (0)	H	C28S2	1-01 *	RF11E22		1			TERM HERE? CABLE	792
T00 (0)	H	C32D2	1-02 *	RF11E23		1				792
T00 (0)	H	C29S2	1-01 *	RF11E22		1			TERM HERE? CABLE	792
T00 (1)	H	C31D2	1-02 *	RF11E23		1				793
T01 (0)	H	C28P2	1-01 *	RF11E22		1			TERM HERE? CABLE	794
T01 (0)	H	C32E2	1-02 *	RF11E23		1				794
T01 (0)	H	C29P2	1-01 *	RF11E22		1			TERM HERE? CABLE	794
T01 (1)	H	C31E2	1-02 *	RF11E23		1				795
T01 (1)	H	C31E2	1	RF11E23		1			TERM HERE? CABLE	795
T01 (1)	H	C31E2	1	RF11E23		1			TERM HERE? CABLE	795

RF11.5 RUN NAME	A/P PIN NAME	WPR288.V17(17) 06/22/72 ORDER PIN	BAY ORDER	Q DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 96 RUN NUMBER
T02 (0)	H	C28M2	1-01 *	RF11E22		1			TERM HERE? CABLE	796
T02 (0)	H	C32H2	1-02 *	RF11E23		1				796
T02 (0)	H	C32H2	1	RF11E23		1		5-4/8		796
T02 (1)	H	C29M2	1-01 *	RF11E22		1			TERM HERE? CABLE	797
T02 (1)	H	C31H2	1-02 *	RF11E23		1				797
T02 (1)	H	C31H2	1	RF11E23		1		4-4/8		797
T03 (0)	H	C28K2	1-01 *	RF11E22		1			TERM HERE? CABLE	798
T03 (0)	H	C32K2	1-02 *	RF11E23		1				798
T03 (0)	H	C29K2	1-01 *	RF11E22		1			TERM HERE? CABLE	798
T03 (1)	H	C31K2	1-02 *	RF11E23		1				799
T03 (1)	H	C31K2	1	RF11E23		1		4-0/8		799
T04 (0)	H	C28M2	1-01 *	RF11E22		1			TERM HERE? CABLE	800
T04 (0)	H	C32M2	1-02 *	RF11E23		1				800
T04 (0)	H	C32M2	1	RF11E23		1		5-4/8		800
T04 (1)	H	C29H2	1-01 *	RF11E22		1			TERM HERE? CABLE	801
T04 (1)	H	C31M2	1-02 *	RF11E23		1				801
T04 (1)	H	C31M2	1	RF11E23		1		4-4/8		801
T05 (0)	H	C28E2	1-01 *	RF11E22		1			TERM HERE? CABLE	802
T05 (0)	H	C32P2	1-02 *	RF11E23		1				802
T05 (0)	H	C32P2	1	RF11E23		1		6-0/8		802
T05 (1)	H	C29E2	1-01 *	RF11E22		1			TERM HERE? CABLE	803
T05 (1)	H	C31P2	1-02 *	RF11E23		1				803
T05 (1)	H	C31P2	1	RF11E23		1		4-4/8		803
T06 (0)	H	C30H2	1-01 *	RF11E22		2			TERM HERE? CABLE	804
T06 (0)	H	C28D2	1-02 *	RF11E23		1				804
T06 (0)	H	C32S2	1-03 *	RF11E23		1				804
T06 (0)	H	C32S2	1	RF11E23		1		10-0/8		804
T06 (1)	H	C30J2	1-01 *	RF11E22		2			TERM HERE? CABLE	805
T06 (1)	H	C29D2	1-02 *	RF11E23		1				805
T06 (1)	H	C31S2	1-03 *	RF11E23		1				805
T06 (1)	H	C31S2	1	RF11E23		1		8-6/8		805
TA 00 (0)	H	B16F2	1-01 *	RF11E14E2		2				806
TA 00 (0)	H	B16J1	1-02 *	RF11E14E2		1				806
TA 00 (0)	H	B16K2	1-03 *	RF11E14E2		2				806
TA 00 (0)	H	C29R1	1-04 *	RF11E22		2				806
TA 00 (0)	H	C29R1	1	RF11E22		1		17-5/8		806

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER PIN	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 97 RUN NUMBER
TA 00 (1)	B12J1	1-01 *	RF11=06=2		2			TERM HERE?	807
TA 00 (1)	B16J2	1-02 *	RF11=14=2		1				807
TA 00 (1)	B31F1	1-03 *	RF11=02	C	2			CABLE	807
TA 00 (1)	C28R1	1-04 *	RF11=22				23-6/8	TERM HERE?	807
TA 01 (0)	B16M1	1-01 *	RF11=14=2		1				808
TA 01 (0)	B16M1	1-02 *	RF11=14=2		2				808
TA 01 (0)	B17L2	1-03 *	RF11=14=2		1				808
TA 01 (0)	C29N1	1-04 *	RF11=22				18-3/8		808
TA 01 (0)	B12J2	1-01 *	RF11=06=2		2			TERM HERE?	809
TA 01 (1)	B16M1	1-02 *	RF11=14=2		1				809
TA 01 (1)	B31F1	1-03 *	RF11=02	C	2			CABLE	809
TA 01 (1)	C28R1	1-04 *	RF11=22				24-0/8	TERM HERE?	809
TA 02 (0)	B17M2	1-01 *	RF11=14=2		2				810
TA 02 (0)	B17N1	1-02 *	RF11=14=2		1				810
TA 02 (0)	B17R2	1-03 *	RF11=14=2		2				810
TA 02 (0)	C29L1	1-04 *	RF11=22				15-7/8		810
TA 02 (1)	B12M1	1-01 *	RF11=06=2		2			TERM HERE?	811
TA 02 (1)	B17P2	1-02 *	RF11=14=2		1				811
TA 02 (1)	C28L1	1-03 *	RF11=22		2				811
TA 02 (1)	B31D1	1-04 *	RF11=02	C			24-2/8	CABLE	811
TA 03 (0)	B17P1	1-01 *	RF11=14=2		2				812
TA 03 (0)	B17S2	1-02 *	RF11=14=2		1				812
TA 03 (0)	B17U1	1-03 *	RF11=14=2		2				812
TA 03 (0)	C29J1	1-04 *	RF11=22				16-0/8		812
TA 03 (1)	B12M2	1-01 *	RF11=06=2		2			TERM HERE?	813
TA 03 (1)	B17S1	1-02 *	RF11=14=2		1				813
TA 03 (1)	C28J1	1-03 *	RF11=22		2				813
TA 03 (1)	B31C1	1-04 *	RF11=02	C			23-4/8	CABLE	813
TA 04 (0)	B17T2	1-01 *	RF11=14=2		1				814
TA 04 (0)	B17V1	1-02 *	RF11=14=2		2				814
TA 04 (0)	C29F1	1-03 *	RF11=22				12-6/8		814

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER PIN	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 98 RUN NUMBER
TA 04 (1)	B12P1	1-01 *	RF11=06=2		1			TERM HERE?	815
TA 04 (1)	B17V2	1-02 *	RF11=14=2		2				815
TA 04 (1)	B19P2	1-03 *	RF11=13=1		1				815
TA 04 (1)	C28F1	1-04 *	RF11=22		2				815
TA 04 (1)	B31B1	1-05 *	RF11=02	C			26-7/8	CABLE	815
TA 05 (0)	B23H1	1-01 *	RF11=13=1		2				816
TA 05 (0)	B23E2	1-02 *	RF11=13=1		1				816
TA 05 (0)	B23J2	1-03 *	RF11=13=1		2				816
TA 05 (0)	C29D1	1-04 *	RF11=22				12-7/8		816
TA 05 (1)	A11A1	1-01 *	RF11=06=1		1			TERM HERE?	817
TA 05 (1)	B23H2	1-02 *	RF11=13=1		2				817
TA 05 (1)	C28D1	1-03 *	RF11=22		1				817
TA 05 (1)	B31A1	1-04 *	RF11=02	C			26-2/8	CABLE	817
TA 06 (0)	B22N1	1-01 *	RF11=13=1		2				818
TA 06 (0)	B23M1	1-02 *	RF11=13=1		1				818
TA 06 (0)	B23J1	1-03 *	RF11=13=1		2				818
TA 06 (0)	C29B1	1-04 *	RF11=22				13-4/8		818
TA 06 (1)	A31V1	1-01 *	RF11=02	C	1			CABLE	819
TA 06 (1)	C28B1	1-02 *	RF11=22		2				819
TA 06 (1)	B23L1	1-03 *	RF11=13=1		1				819
TA 06 (1)	A11D1	1-04 *	RF11=06=1				27-2/8	TERM HERE?	819
TPI	C19D2	1-01 *	RF11=11		1				820
TPI	C13L2	1-02 *	RF11=19		2				820
TPI	D16C1	1-03 *	RF11=19		1				820
TPI	D16D1	1-04 *	RF11=19		2				820
TPI	D17K1	1-05 *	RF11=19		1				820
TPI	D20D2	1-06 *	RF11=19				23-7/8		820
TPI + 50	D19L1	1-01 *	RF11=19		1				821
TPI + 50	D20L2	1-02 *	RF11=19				3-6/8		821

RF11.8
RUN NAME

MRP288.V17(17) 06/22/72
A/P PIN ORDER BAY -
NAME ORDER PIN

Q DRAW RV PG Y X Z REMARKS

26=JAN-73 LENGTH EXCEPTIONS
PAGE 99
RUN NUMBER

RF11.8 RUN NAME	MRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER PIN	Q DRAW RV PG Y X Z REMARKS	26=JAN-73 LENGTH EXCEPTIONS	PAGE 99 RUN NUMBER
TP2	H D11C1	1-01 *	RF11=19	822
TP2	H D10H2	1-02 *	RF11=03=1	822
TP2	H D17M1	1-03 *	RF11=19	822
TP2	H D19A1	1-04 *	RF11=19	822
TP2	H D19D2	1-05 *	RF11=19	822
TP2	H D22F1	1-06 *	RF11=20=2	822
TP2	H D22K2	1-07 *	RF11=20=1	822
TP2 + 50	L D11K1	1-01 *	RF11=19	822
TP2 + 50	L D19M1	1-02 *	RF11=19	823
TP2 + 50	L D19M1	1		823
TP3	L C18N2	1-01 *	RF11=11	824
TP3	L D11S1	1-02 *	RF11=19	824
TP3	L D11S1	1		824
UPD ADS (U)	H A30K1	1-01 *	RF11=24	825
UPD ADS (O)	H B29V1	1-02 *	RF11=24	825
UPD ADS (O)	H B29V1	1		825
UPD ADS (..)	H B29V2		RF11=24	826
WA 00 (O)	H B27L2	1-01 *		827
WA 00 (O)	H B18D2	1-02 *		827
WA 00 (O)	H B18F1	1-03 *		827
WA 00 (O)	H B18C1	1-04 *		827
WA 00 (O)	H C17N1	1-05 *		827
WA 00 (O)	H C17N1	1		827
WA 00 (1)	H B11B1	1-01 *		827
WA 00 (1)	H B18E1	1-02 *		828
WA 00 (1)	H C17R1	1-03 *		828
WA 00 (1)	H B31V1	1-04 *		828
WA 00 (1)	H B31V1	1		828
WA 01 (O)	H B18J2	1-01 *		829
WA 01 (O)	H B18E2	1-02 *		829
WA 01 (O)	H B18M1	1-03 *		829
WA 01 (O)	H C17L2	1-04 *		829
WA 01 (O)	H C17L2	1		829

RF11.8
RUN NAME

MRP288.V17(17) 06/22/72
A/P PIN ORDER BAY -
NAME ORDER PIN

Q DRAW RV PG Y X Z REMARKS

26=JAN-73 LENGTH EXCEPTIONS
PAGE 100
RUN NUMBER

RF11.8 RUN NAME	MRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER PIN	Q DRAW RV PG Y X Z REMARKS	26=JAN-73 LENGTH EXCEPTIONS	PAGE 100 RUN NUMBER
WA 01 (1)	H B11E1	1-01 *	RF11=06=1	830
WA 01 (1)	H B18H2	1-02 *	RF11=14=1	830
WA 01 (1)	H C17N2	1-03 *	RF11=16=1	830
WA 01 (1)	H B27M2	1-04 *	RF11=14=2	830
WA 01 (1)	H B31U1	1-05 *	RF11=02	830
WA 01 (1)	H B31U1	1		830
WA 02 (O)	H B18J1	1-01 *	RF11=14=1	831
WA 02 (O)	H B18L2	1-02 *	RF11=14=1	831
WA 02 (O)	H B18M1	1-03 *	RF11=14=1	831
WA 02 (O)	H C17H1	1-04 *	RF11=16=1	831
WA 02 (O)	H C17H1	1		831
WA 02 (1)	H B11E2	1-01 *	RF11=06=1	832
WA 02 (1)	H B18L1	1-02 *	RF11=14=1	832
WA 02 (1)	H C17K1	1-03 *	RF11=16=1	832
WA 02 (1)	H B31T1	1-04 *	RF11=02	832
WA 02 (1)	H B31T1	1		832
WA 03 (G)	H B18M2	1-01 *	RF11=14=1	833
WA 03 (O)	H B18R2	1-02 *	RF11=14=1	833
WA 03 (O)	H B18N1	1-03 *	RF11=14=1	833
WA 03 (O)	H C17E2	1-04 *	RF11=16=1	833
WA 03 (O)	H C17E2	1		833
WA 03 (1)	H B11J1	1-01 *	RF11=06=1	834
WA 03 (1)	H C17H2	1-02 *	RF11=16=1	834
WA 03 (1)	H B18P2	1-03 *	RF11=14=1	834
WA 03 (1)	H B31S1	1-04 *	RF11=02	834
WA 03 (1)	H B31S1	1		834
WA 04 (O)	H B18P1	1-01 *	RF11=14=1	835
WA 04 (O)	H B18S2	1-02 *	RF11=14=1	835
WA 04 (O)	H B18U1	1-03 *	RF11=14=1	835
WA 04 (O)	H C17B1	1-04 *	RF11=16=1	835
WA 04 (O)	H C17B1	1		835
WA 04 (1)	H B11J2	1-01 *	RF11=06=1	836
WA 04 (1)	H C17O1	1-02 *	RF11=16=1	836
WA 04 (1)	H B18S1	1-03 *	RF11=14=1	836
WA 04 (1)	H B31R1	1-04 *	RF11=02	836
WA 04 (1)	H B31R1	1		836

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER PIN	NAME	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 101 RUN NUMBER
WA 05 (0)	H	B16R1		RF11=14=1		2				837
WA 05 (0)	H	B16T2		RF11=14=1		1				837
WA 05 (0)	H	B18V1		RF11=14=1		2				837
WA 05 (0)	H	C17S2		RF11=16=1				12-6/8		837
WA 05 (1)	H	B11M1		RF11=06=1		1			TERM HERE?	838
WA 05 (1)	H	C17U2		RF11=16=1		1				838
WA 05 (1)	H	B18V2		RF11=14=1		1				838
WA 05 (1)	H	B31P1	C	RF11=02		1		23-3/8	CABLE	838
WA 06 (0)	H	B16M2		RF11=14=1		2				839
WA 06 (0)	H	B16S1		RF11=14=1		1				839
WA 06 (0)	H	B16V2		RF11=14=1		2				839
WA 06 (0)	H	C16N1		RF11=16=1		1		11-3/8		839
WA 06 (1)	H	B31M1	C	RF11=02		1			CABLE	840
WA 06 (1)	H	B11M2		RF11=06=1		2				840
WA 06 (1)	H	B16S1		RF11=14=1		1				840
WA 06 (1)	H	B16U2		RF11=14=1		1				840
WA 06 (1)	H	C16R1		RF11=16=1		1		24-4/8	TERM HERE?	840
WA 06 (1)	H	B16M1		RF11=16=1		1				840
WA 07 (0)	H	B16B1		RF11=14=2		2				841
WA 07 (0)	H	B16N2		RF11=14=1		1				841
WA 07 (0)	H	B16S2		RF11=14=1		2				841
WA 07 (0)	H	C16L2		RF11=16=1		1		12-3/8		841
WA 07 (1)	H	B11R1		RF11=06=1		1			TERM HERE?	842
WA 07 (1)	H	B16R2		RF11=14=1		2				842
WA 07 (1)	H	C16N2		RF11=16=1		1				842
WA 07 (1)	H	B31M1	C	RF11=02		1		23-6/8	CABLE	842
WA 08 (0)	H	B17D2		RF11=14=2		2				843
WA 08 (0)	H	B17C1		RF11=14=2		1				843
WA 08 (0)	H	B17F1		RF11=14=2		2				843
WA 08 (0)	H	C16H1		RF11=16=1		1		12-0/8		843
WA 08 (1)	H	B31L1	C	RF11=02		1			CABLE	844
WA 08 (1)	H	B17E1		RF11=14=2		2				844
WA 08 (1)	H	B12B1		RF11=06=2		1				844
WA 08 (1)	H	C16K1		RF11=16=1		1		24-6/8	TERM HERE?	844
WA 08 (1)	H	C16K1		RF11=16=1		1				844

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER PIN	NAME	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 102 RUN NUMBER
WA 09 (0)	H	B17J2		RF11=14=2		2				845
WA 09 (0)	H	B17E2		RF11=14=2		1				845
WA 09 (0)	H	B17H1		RF11=14=2		2				845
WA 09 (0)	H	C16E2		RF11=16=1		1		11-1/8		845
WA 09 (1)	H	B12E1		RF11=06=2		1			TERM HERE?	846
WA 09 (1)	H	C16H2		RF11=16=1		2				846
WA 09 (1)	H	B17H2		RF11=14=2		1				846
WA 09 (1)	H	B31K1	C	RF11=02		1		23-0/8	CABLE	846
WA 10 (0)	H	B15B1		RF11=14=2		2				847
WA 10 (0)	H	B17J1		RF11=14=2		1				847
WA 10 (0)	H	B17M1		RF11=14=2		2				847
WA 10 (0)	H	C16S2		RF11=16=1		1		13-3/8		847
WA 10 (1)	H	B31J1	C	RF11=02		1		25-4/8	TERM HERE?	848
WA 10 (1)	H	B12E2		RF11=06=2		2			CABLE	848
WA 10 (1)	H	B17L1		RF11=14=2		1				848
WA 10 (1)	H	C16U2		RF11=16=1		1			TERM HERE?	848
WA 10 (1)	H	C16U2		RF11=16=1		1				848
WB FULL (0)	H	A10A1		RF11=03=1		1		12-4/8		849
WB FULL (0)	H	C18E1		RF11=11		1				849
WB FULL (1)	H	C18F1		RF11=11		1		6-6/8		850
WB FULL (1)	H	D19J2		RF11=11		1				850
WB FULL (1)	H	C18L2		RF11=11		1		11-6/8		851
WB FULL (1)	H	D17J2		RF11=19		2				851
WB FULL (1)	H	D12H2		RF11=11		1				851
WB FULL (1)	L	C18S2		RF11=11		2		9-0/8		852
WB FULL (1)	L	D19D1		RF11=19		1				852
WB FULL (1)	L	D17H2		RF11=19		1				852
WB FULL (1)	L	B28M1		RF11=12=1		1				853
WB FULL (1)	L	B28N1		RF11=12=1		2				853
WB FULL (1)	L	B06S2		RF11=09		1				853
WB FULL (1)	L	C06J1		RF11=11		1		21-3/8		853

RF11.8 RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY NAME ORDER PIN	Q	DRAM RV PG Y	X	Z	REMARKS	26=JAN=73 LENGTH	1151 EXCEPTIONS	PAGE.103 RUN NUMBER
WC IN HI	H B09D1		RF11=08		1				854
WC IN HI	H B10U1		96*	7					854
WC IN HI									854
WC IN LO	H B09A1		RF11=08		1		5-0/8		855
WC IN LO	H B10N1		96*	7					855
WC IN LO									855
WC OUT	L B06T2		RF11=09		1		5-0/8		856
WC OUT	L B10J2		RF11=07						856
WC OUT									856
WCE (0)	H A24K1	B25L1	RF11=12=2		1		6-0/8		857
WCE (0)	H B25L1		1-02 *		2				857
WCE (0)	H B20H2		1-03 *		1				857
WCE (0)	H D10N1		1-04 *		1				857
WCE (0)									857
WCE (1)	H A12M1		RF11=06=2		2		23=7/8	TERM HERE?	858
WCE (1)	H B20J2		RF11=12=2		1				858
WCE (1)	H A31C1		1-03 * C		1				858
WCE (1)									858
WLO (0)	H A24F1		RF11=12=2		2		21=2/8	CABLE	859
WLO (0)	H B28F1		RF11=12=2		1				859
WLO (0)	H B20P2		RF11=12=2		1				859
WLO (0)									859
WLO (1)	H A12E2		RF11=06=2		2		15-0/8	TERM HERE?	860
WLO (1)	H B20R2		RF11=12=2		1				860
WLO (1)	H A31F1		1-03 * C		1				860
WLO (1)									860
WLO EN	L B20M2		RF11=12=2		1		20-1/8	CABLE	861
WLO EN	L C14S1		RF11=11						861
WLO EN									861
WR DA (0)	H C19P2						7-3/8		862
WR DA (1)	H C19R2								863
WR DA (1)	H C29U1		RF11=22		1				863
WR DA (1)									863
WRITE	H A32K1		RF11=02		1		8-0/8	CABLE	864
WRITE	H D23S2		RF11=11						864
WRITE									864
							16=0/8	TERM HERE?	864

RF11.8 RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY NAME ORDER PIN	Q	DRAM RV PG Y	X	Z	REMARKS	26=JAN=73 LENGTH	1151 EXCEPTIONS	PAGE.104 RUN NUMBER
WRITE	L B24U2		RF11=11		1				865
WRITE	L C28U1		RF11=22		2				865
WRITE	L D23P2		RF11=11		1				865
WRITE	L D23R2		RF11=11		2				865
WRITE	L D23V2		RF11=11		1				865
WRITE									865
WRITE DATA	L C29V2		RF11=22		1		19=0/8	TERM HERE?	866
WRITE DATA	L C32V2		1-02 * C		1				866
WRITE DATA									866
XFER GPLT	H A25K1		RF11=11				4=4/8	CABLE	867
XFER GPLT	L A25J1								868
XFER GPLT	L A27K2		RF11=11		1				868
XFER GPLT									868
							4=2/8		868

ERROR LISTING

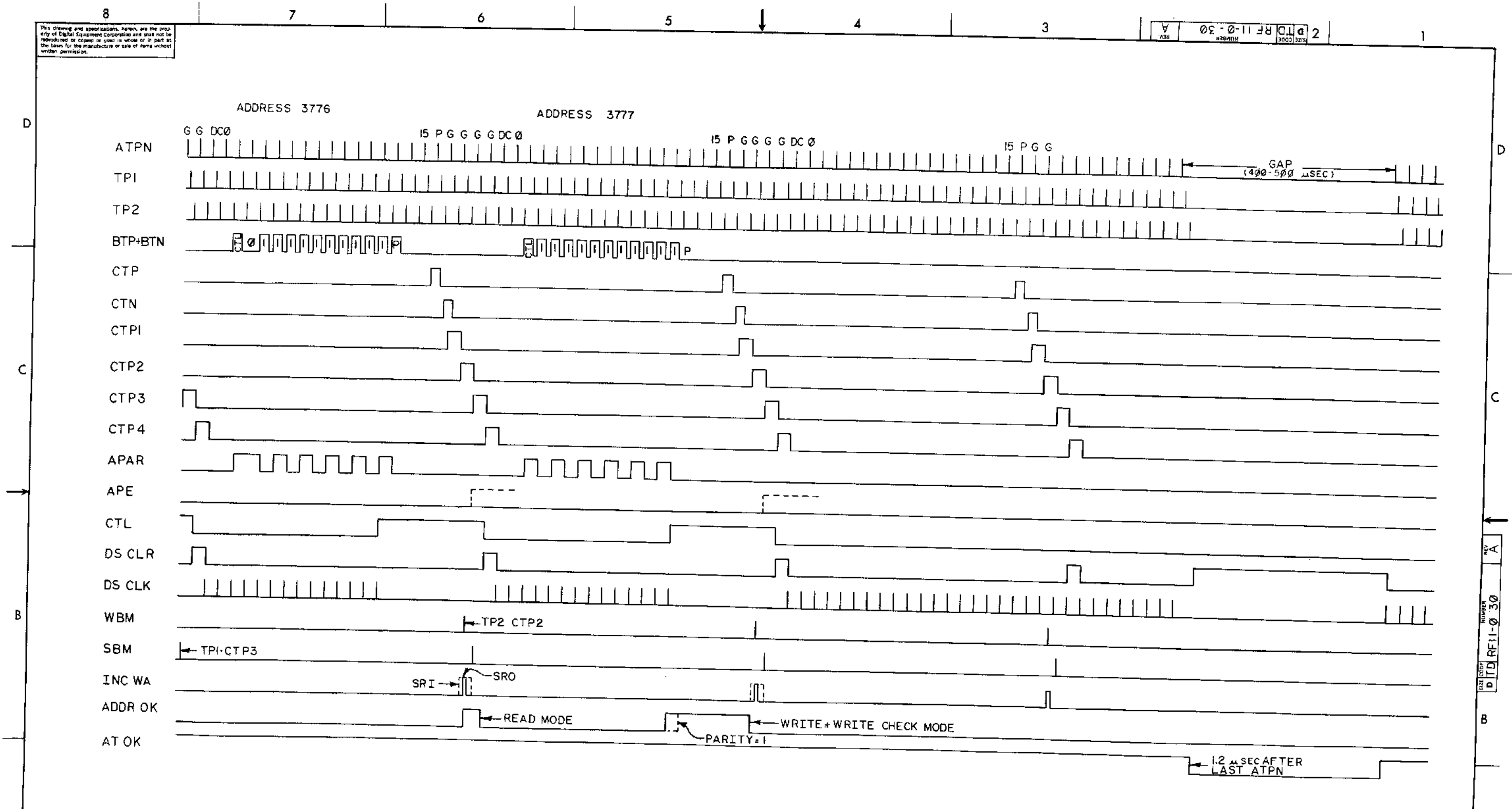
WIRE WRAP RUN NAME	A/P	PIN NAME	ORDER PIN	BAY ORDER	0	DRAM	RV	PG	Y	X	Z	REMARKS	26=JAN=73 LENGTH	1151 EXCEPTIONS	PAGE 1 RUN NUMBER
ADS 00 (0)	H	B30F1												1-PIN RUN	127
ADS 01 (0)	H	B30J2												1-PIN RUN	129
ADS 02 (0)	H	B30M1												1-PIN RUN	131
ADS 03 (0)	H	B30R2												1-PIN RUN	133
ADS 04 (0)	H	B30U1												1-PIN RUN	135
ADS 05 (0)	H	B30V1												1-PIN RUN	137
ADS 06 (0)	H	B29F1												1-PIN RUN	139
ADS 07 (0)	H	B29J2												1-PIN RUN	141
ADS 08 (0)	H	B29M1												1-PIN RUN	143
ADS 09 (0)	H	B29R2												1-PIN RUN	145
ADS 10 (0)	H	B29U1												1-PIN RUN	147
RC 00 (1)	H	D14F1												1-PIN RUN	209
RC 04 (1)	H	D14S1												1-PIN RUN	214
RC 00 (0)	H	B13F1												1-PIN RUN	221
RR 01 (0)	H	B13J2												1-PIN RUN	223
RR 02 (0)	H	B13M1												1-PIN RUN	225
RR 03 (0)	H	B13R2												1-PIN RUN	227
RR 04 (0)	H	B13U1												1-PIN RUN	229
RR 05 (0)	H	B13V1												1-PIN RUN	231
RR 06 (0)	H	B15M1												1-PIN RUN	233
RR 07 (0)	H	B15K2												1-PIN RUN	235
RR 08 (0)	H	B14F1												1-PIN RUN	237
RR 09 (0)	H	B14J2												1-PIN RUN	239
RR 10 (0)	H	B14M1												1-PIN RUN	241
RR 11 (0)	H	B14R2												1-PIN RUN	243
RR 12 (0)	H	B14U1												1-PIN RUN	245
RR 13 (0)	H	B14V1												1-PIN RUN	247
RR 14 (0)	H	B15V2												1-PIN RUN	249
RR 15 (0)	H	B15S2												1-PIN RUN	251
CLR DATA RQ	H	B07M1												1-PIN RUN	386
CTN	H	D28F1												1-PIN RUN	403
CTP1 (0)	H	C12V2												1-PIN RUN	409
CTP2 (0)	H	C12S2												1-PIN RUN	411
DEV SSYN (0)	H	B2DE1												1-PIN RUN	536
DPAR (0)	H	C19S1												1-PIN RUN	542
DRL (0)	H	B23F1												1-PIN RUN	548
INC DAE (0)	H	B19N2												1-PIN RUN	640
INC DAR HI (0)	H	B16E1												1-PIN RUN	642
INC TA (1)	H	B15F1												1-PIN RUN	643
INT ENA (0)	H	A20M1												1-PIN RUN	649
LD LY (1)	H	C12F1												1-PIN RUN	657
LSTE (1)	H	C18M1												1-PIN RUN	665
MAT (1)	H	C07S1												1-PIN RUN	671
MBT (1)	H	C07L1												1-PIN RUN	673
MCT (1)	H	C07H2												1-PIN RUN	675
MOT (1)	H	C07E1												1-PIN RUN	677
NPC STR=1	H	B07R2												1-PIN RUN	691
PB FULL (1)	H	D15J2												1-PIN RUN	704
RSTE (1)	H	C18V1												1-PIN RUN	713
SR 01 (0)	H	C22U1												1-PIN RUN	746
SR 02 (0)	H	C22R2												1-PIN RUN	748
SR 03 (0)	H	C22M1												1-PIN RUN	750
SR 04 (0)	H	C22J2												1-PIN RUN	752

ERROR LISTING

RF11.R RUN NAME	A/P	PIN NAME	ORDER PIN	BAY ORDER	0	DRAM	RV	PG	Y	X	Z	REMARKS	26=JAN=73 LENGTH	1151 EXCEPTIONS	PAGE 2 RUN NUMBER
SR 05 (0)	H	C22F1												1-PIN RUN	754
SR 04 (0)	H	C21V1												1-PIN RUN	756
SR 07 (0)	H	C21U1												1-PIN RUN	758
SR 08 (0)	H	C21M1												1-PIN RUN	760
SR 09 (0)	H	C21J2												1-PIN RUN	762
SR 10 (0)	H	C21F1												1-PIN RUN	764
SR 11 (0)	H	C20J2												1-PIN RUN	766
SR 12 (0)	H	C20M1												1-PIN RUN	768
SR 13 (0)	H	C20R2												1-PIN RUN	770
SR 14 (0)	H	C20U1												1-PIN RUN	772
SR 15 (0)	H	C20V1												1-PIN RUN	774
SRID (0)	H	C06V2												1-PIN RUN	784
SRD (1)	H	C18R2												1-PIN RUN	787
UPD ADS (1)	H	B29V2												1-PIN RUN	826
WR DA (0)	H	C19P2												1-PIN RUN	862
XFER CPLT	H	A25K1												1-PIN RUN	867

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part as the basis for the manufacture or sale of items without written permission.

SIZE CODE NUMBER
DITD RF11-0-30 2

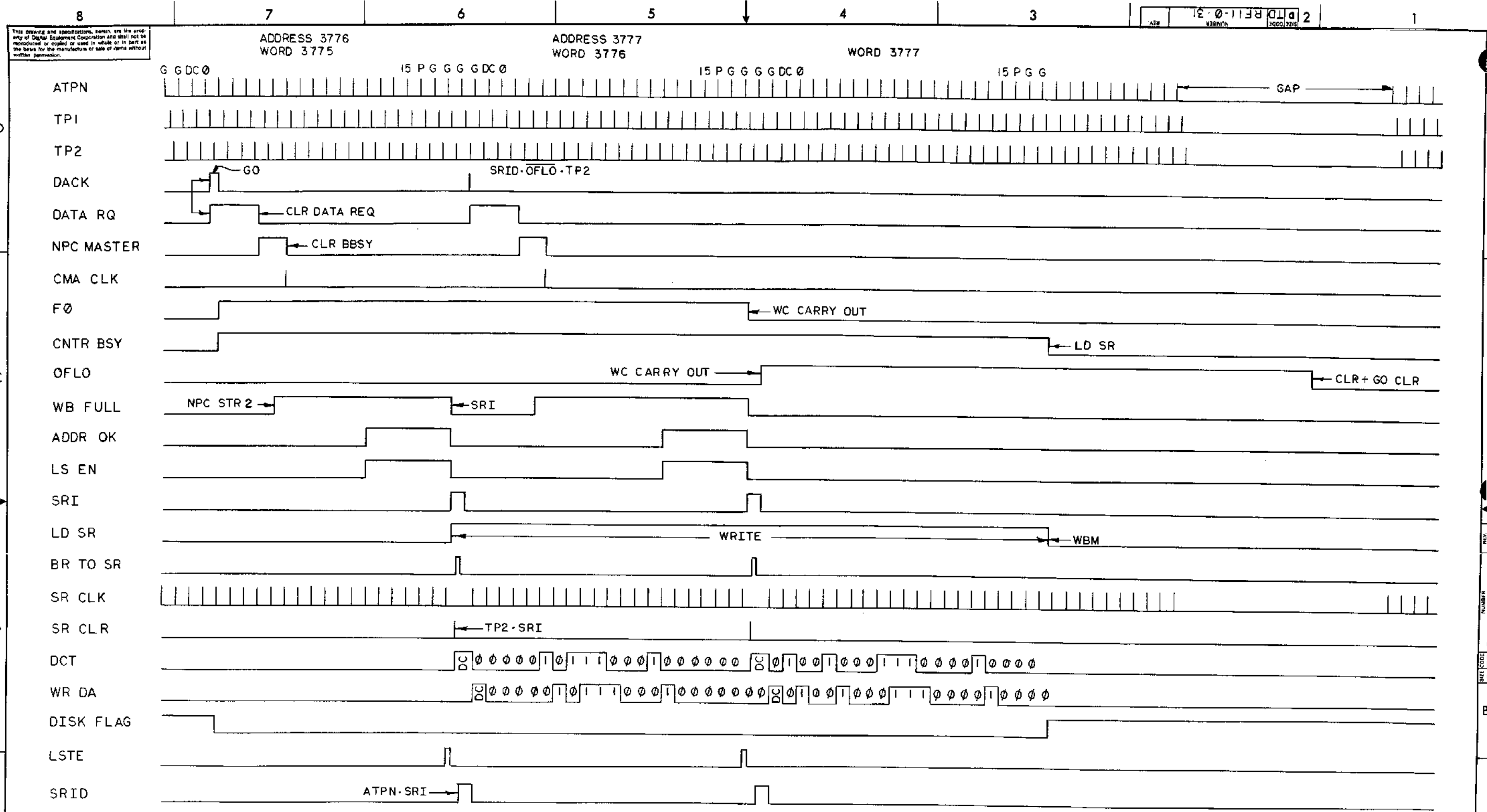


REV	NO	DATE	BY
1	A	11/11/72	JNK
2	A	11/11/72	JNK

FIRST USED ON OPTION/MODEL
RF 11

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
±.005 ±.004 ±.003
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
ADDRESS TIMING			
NEXT HIGHER ASSY A-ML-RF11-0		SCALE NONE	REV. A
SHEET 2 OF 2		DITD RF11-0-30	



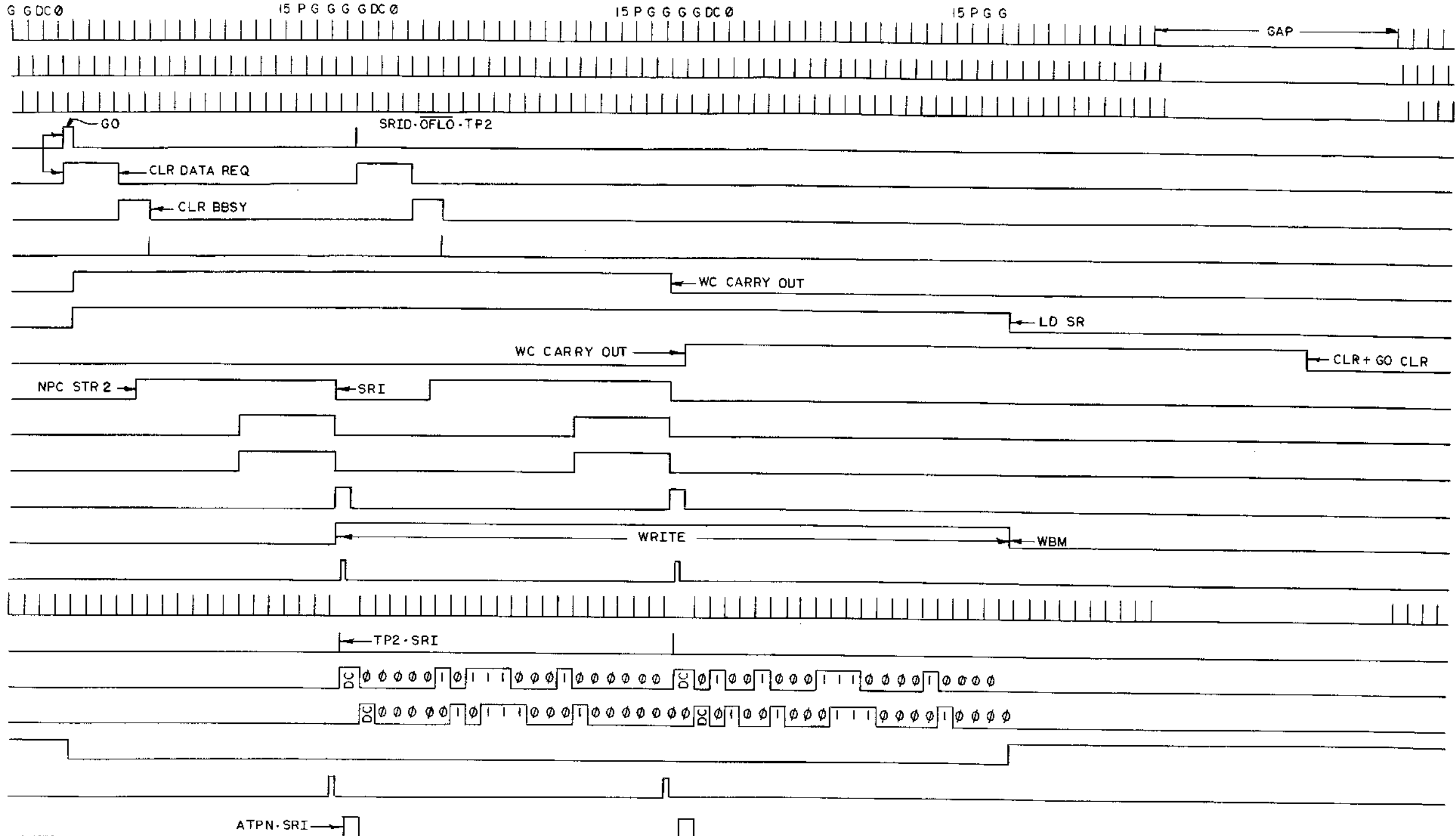
This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture of any item without written permission.

1
2
3
4
5
6
7
8

ADDRESS 3776
WORD 3775

ADDRESS 3777
WORD 3776

WORD 3777

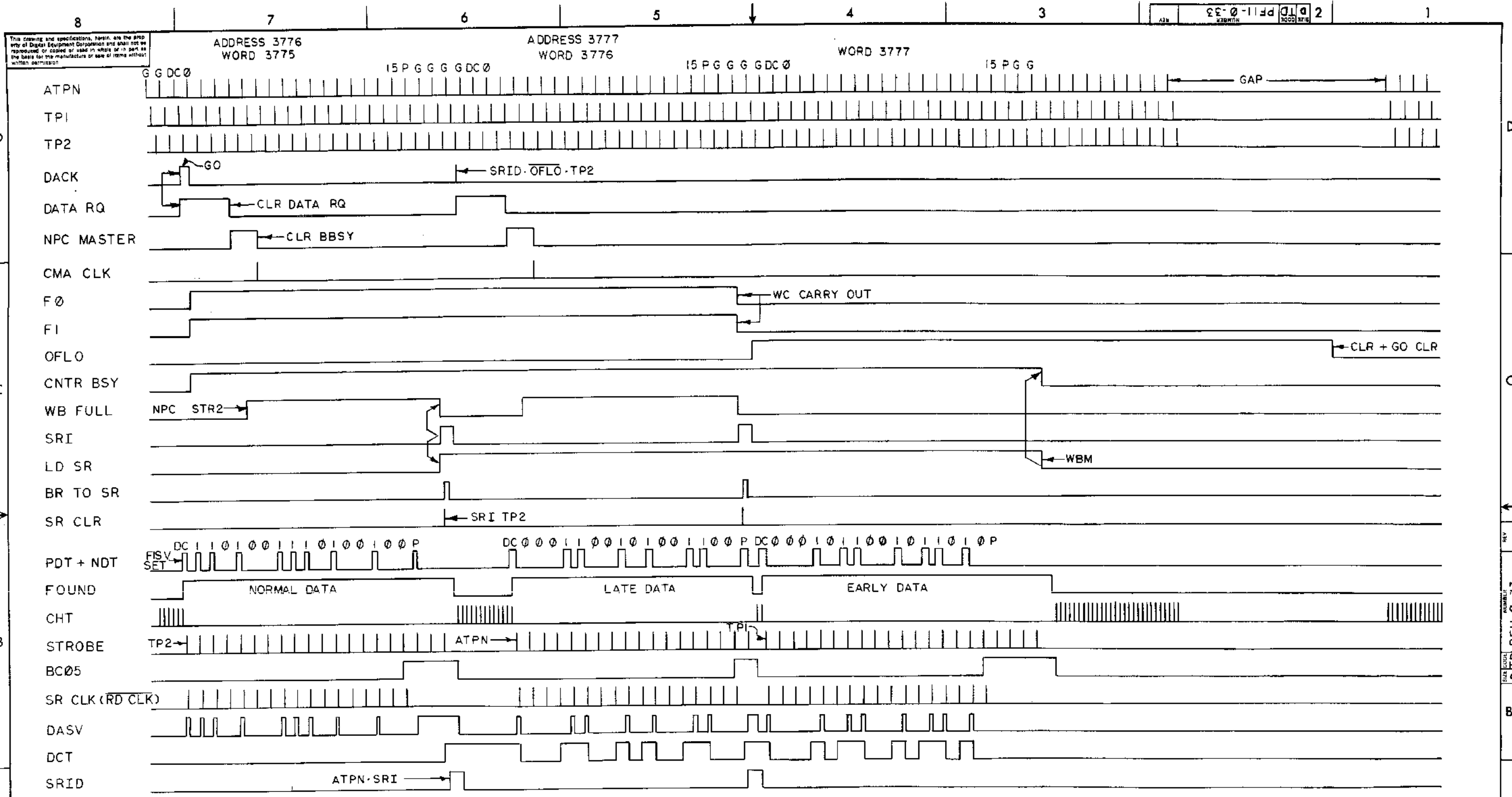


REV	
CHG	
NO.	

FIRST USED ON OPTION/MODEL
RF11

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
± .005 ± .004 ± .020
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
	PARTS LIST		
	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
	TITLE WRITE MODE		
	NEXT HIGHER ASSY A-ML-RF11-0	SIZE/CODE D1TD RF11-0-31	NUMBER REV.
	SCALE NONE	SHEET 1 OF 1	DIST.



REV.	
CHG. NO.	
DATE	

FIRST USED ON OPTION / MODEL
RF11

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
± .005 ± 1/64 ± 0°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL #
FINISH #

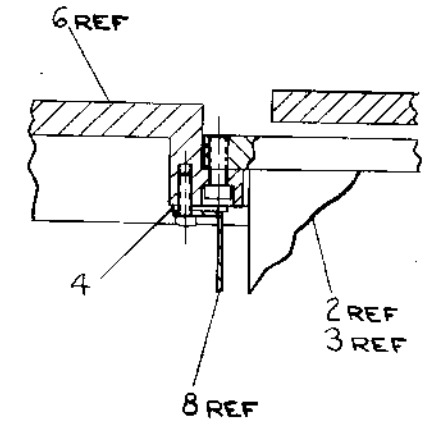
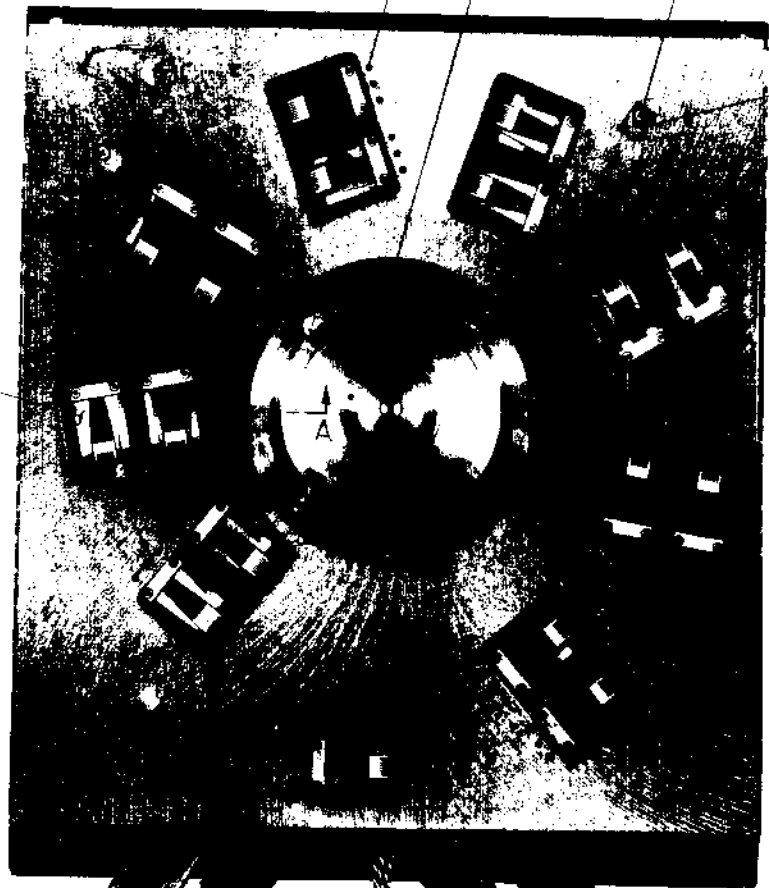
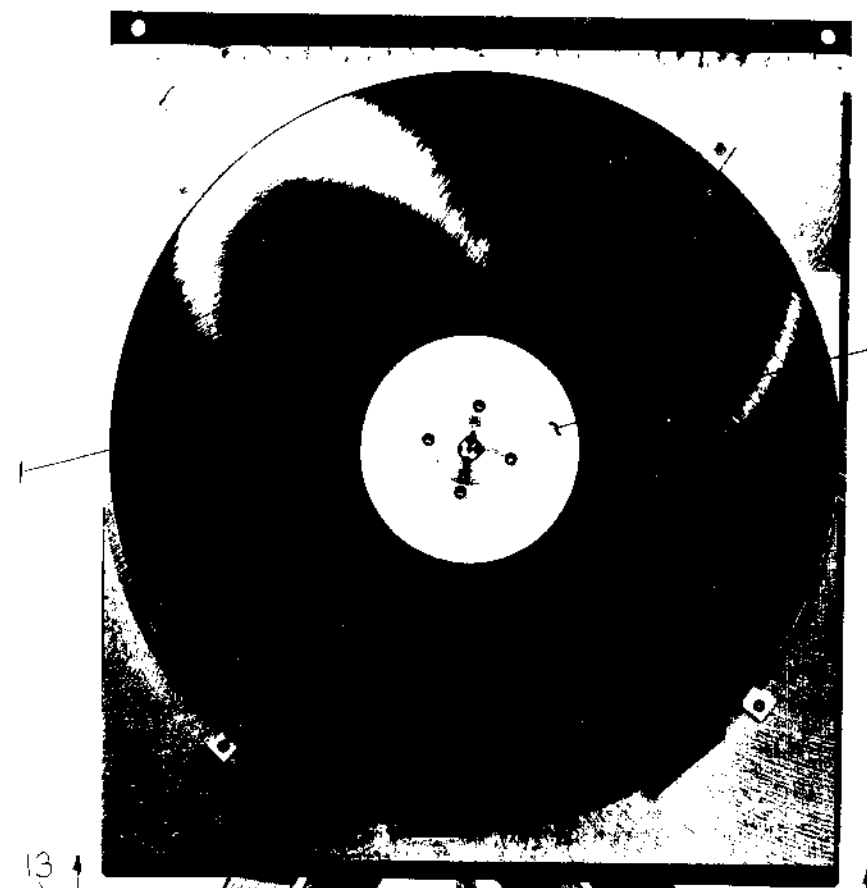
QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRW. <i>[Signature]</i>	DATE <i>11/20/70</i>	digital EQUIPMENT CORPORATION NATHAN, MASSACHUSETTS TITLE WRITE CHECK MODE	
CHK'D. <i>[Signature]</i>	DATE <i>11/20/70</i>		
ENG. <i>[Signature]</i>	DATE <i>11/20/70</i>		
PROJ. ENG. <i>[Signature]</i>	DATE <i>11/20/70</i>		
PROD. <i>[Signature]</i>	DATE <i>11/20/70</i>		
NEXT HIGHER ASSY A-ML-RF11-0		SIZE/CODE D1TD	NUMBER RF11-0-33
SCALE NONE		REV.	
SHEET OF 1		DIST.	

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

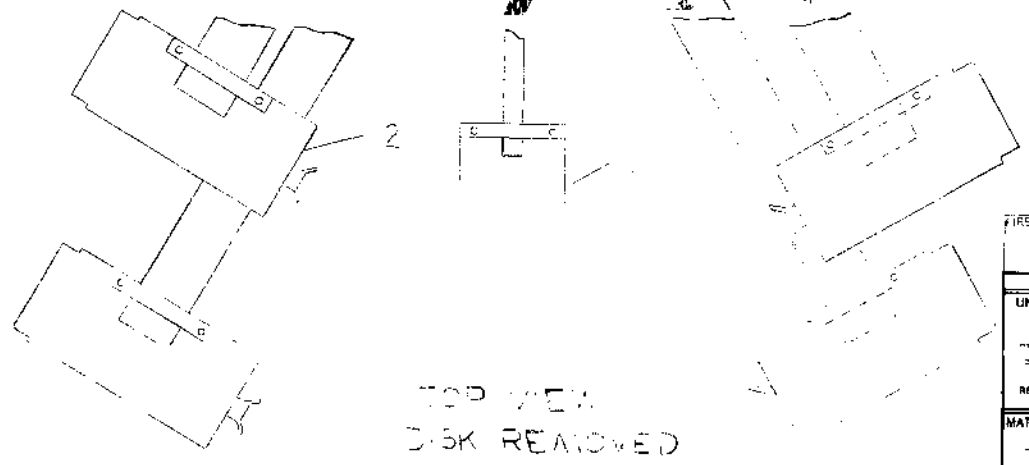
W-808-M-0 2

LEGEND	
NUMBER	VARIATION
RS08-M	60 HZ
RS08-MA	50 HZ

- NOTES:
- FOR DWG INDEX LIST REFER TO D-DI-RS08-M-1.
 - APPLY TORQUE SEAL (BLUE) 2 PLACES IN SCREW LOCATIONS ON SIDES OPPOSITE.
 - AIR COVER (ITEM 36) TO BE ATTACHED TO DECK (ITEM 6) WITH RTV (ITEM 35) MUST BE AN AIR-TIGHT SEAL.
 - MOTOR LOCK (ITEM 41) TO BE REMOVED AND ROTATED 180° AND REATTACHED TO MOTOR HOUSING WITH BRUSH ASSEMBLY IN CONTACT WITH MOTOR SHAFT EXTENSION BEFORE STARTING MOTOR.
 - BRUSH ASSEMBLY (ITEM 42) TO BE ASSEMBLED TO MOTOR LOCK (ITEM 41) USING ITEMS 43 & 44 (SEE DETAIL "A").



SECTION A-A

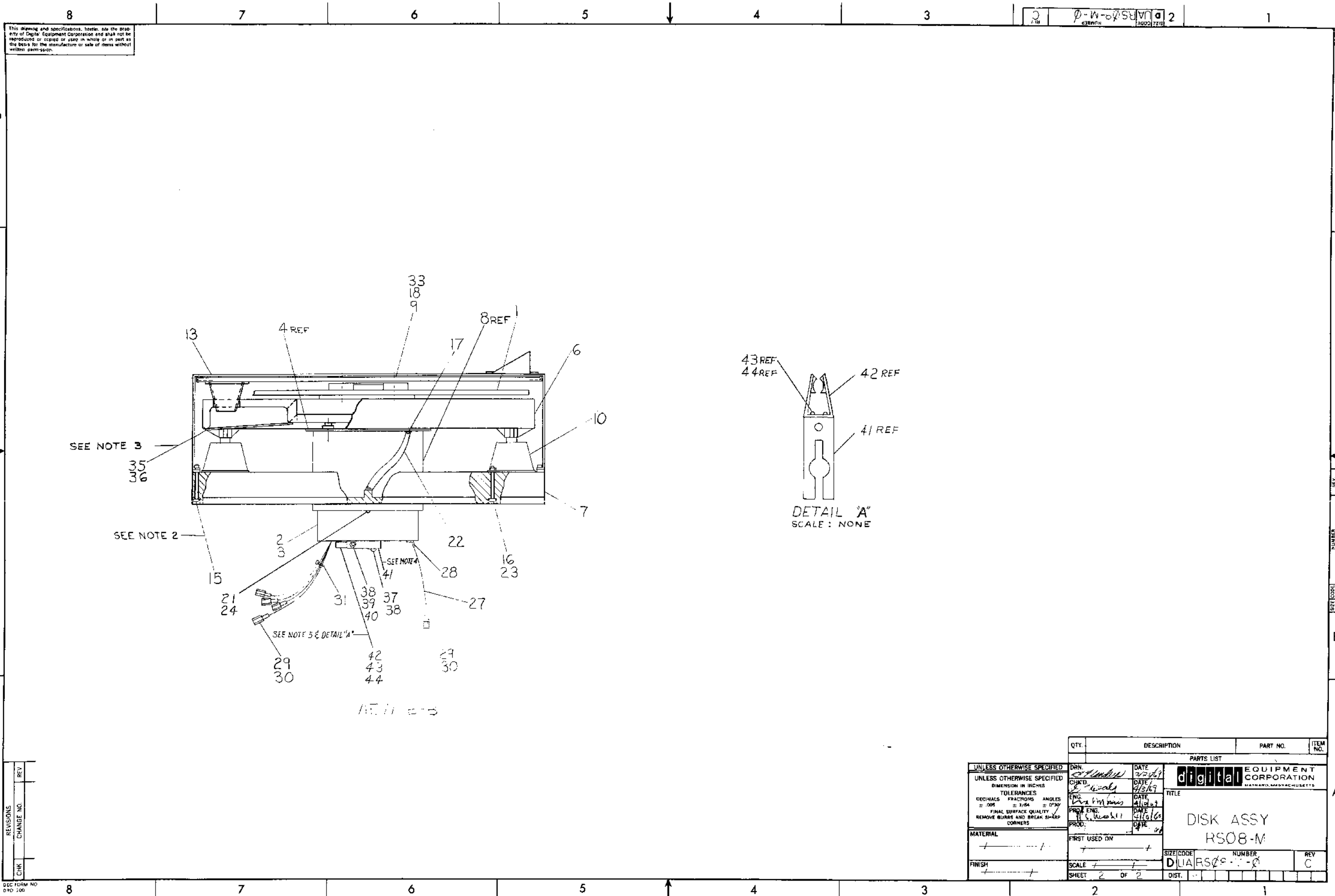


TOP VIEW DISK REMOVED

REV.	CHG.	NO.	DATE	BY	APP.	DESCRIPTION
1						
2						
3						
4						
5						
6						
7						
8						

FIRST USED ON DRAWING NO.	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RS08-M				
PARTS LIST				
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				
TITLE DISK ASSY RS08-M				
SCALE D UA RS08-M-0				
SHEET 1 OF 2				
REV. C				

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part as the basis for the manufacture or sale of items without written permission.

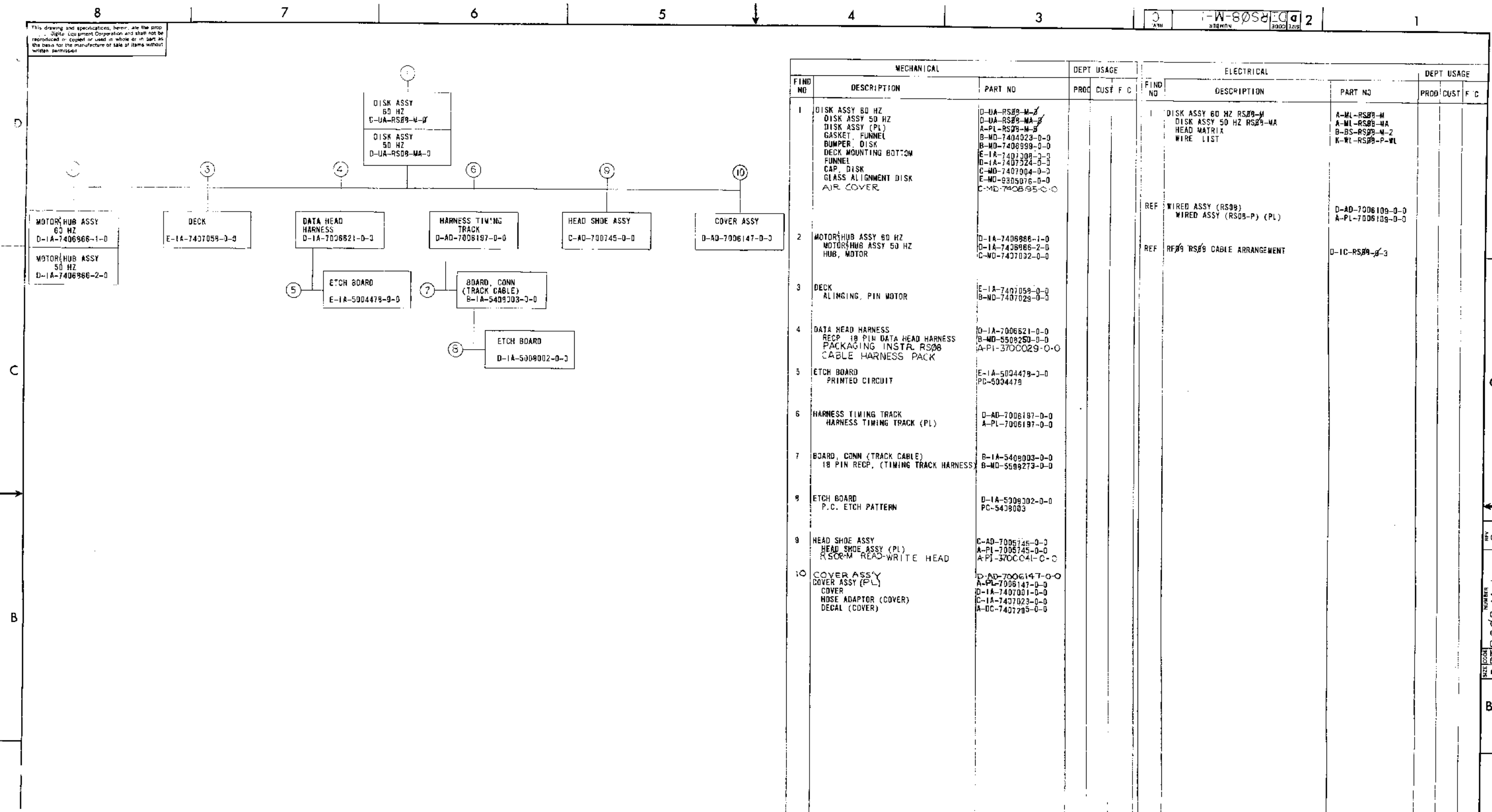


QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED		DRN. <i>et/indus</i> DATE <i>2/25/69</i> CHK'D. <i>et/indus</i> DATE <i>4/2/69</i> TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± 1/64 ± 0°30' FINAL SURFACE QUALITY REMOVE BURNS AND BREAK SHARP CORNERS	
MATERIAL		ENG. <i>et/indus</i> DATE <i>4/10/69</i> PROJ. ENG. <i>et/indus</i> DATE <i>4/10/69</i> PROD. DATE	
FINISH		TITLE DISK ASSY RS08-M digital EQUIPMENT CORPORATION BOSTON, MASSACHUSETTS	
FIRST USED ON		SIZE/CODE NUMBER REV D UARS08-M-0 C	
SCALE		SHEET 2 OF 2	

REVISIONS	REV
CHANGE NO.	
CHK	

DEC FORM NO. 200

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced in whole or in part without written permission.



MECHANICAL				ELECTRICAL			
FIND NO	DESCRIPTION	PART NO	DEPT USAGE	FIND NO	DESCRIPTION	PART NO	DEPT USAGE
1	DISK ASSY 60 HZ DISK ASSY 50 HZ DISK ASSY (PL) GASKET, FUNNEL BUMPER, DISK DECK MOUNTING BOTTOM FUNNEL CAP, DISK GLASS ALIGNMENT DISK AIR COVER	D-UA-RS08-M- 1 D-UA-RS08-MA- 1 A-PL-RS08-M- 1 B-MD-7404023-0-0 B-MD-7406999-0-0 E-1A-7407308-2-0 D-1A-7407324-0-0 C-MD-7407004-0-0 E-MD-8305076-0-0 C-MD-7406995-0-0		1	DISK ASSY 60 HZ RS08-M DISK ASSY 50 HZ RS08-MA HEAD MATRIX WIRE LIST	A-ML-RS08-M A-ML-RS08-MA B-B5-RS08-M-2 K-WL-RS08-P-WL	
2	MOTOR HUB ASSY 60 HZ MOTOR HUB ASSY 50 HZ HUB, MOTOR	D-1A-7406986-1-0 D-1A-7406986-2-0 C-MD-7407032-0-0		REF	WIRED ASSY (RS08) WIRED ASSY (RS08-P) (PL)	D-AD-7006109-0-0 A-PL-7006109-0-0	
3	DECK ALIGNING, PIN MOTOR	E-1A-7407059-0-0 B-MD-7407029-0-0		REF	RS08 CABLE ARRANGEMENT	D-1C-RS08- 1 -3	
4	DATA HEAD HARNESS RECP, 18 PIN DATA HEAD HARNESS PACKAGING INSTR, RS08 CABLE HARNESS PACK	D-1A-7006621-0-0 B-MD-5508250-0-0 A-PL-3700029-0-0					
5	ETCH BOARD PRINTED CIRCUIT	E-1A-5004478-0-0 PC-5004478					
6	HARNESS TIMING TRACK HARNESS TIMING TRACK (PL)	D-AD-7006187-0-0 A-PL-7006187-0-0					
7	BOARD, CONN (TRACK CABLE) 18 PIN RECP, (TIMING TRACK HARNESS)	B-1A-5408003-0-0 B-MD-5508273-0-0					
9	ETCH BOARD P.C. ETCH PATTERN	D-1A-5008302-0-0 PC-5408003					
9	HEAD SHOE ASSY HEAD SHOE ASSY (PL) RS08-M READ-WRITE HEAD	C-AD-7006145-0-0 A-PL-7006145-0-0 A-PL-3700041-0-0					
10	COVER ASSY COVER ASSY (PL) COVER HOSE ADAPTOR (COVER) DECAL (COVER)	D-AD-7006147-0-0 A-PL-7006147-0-0 D-1A-7407001-0-0 C-1A-7407023-0-0 A-DC-7407285-0-0					

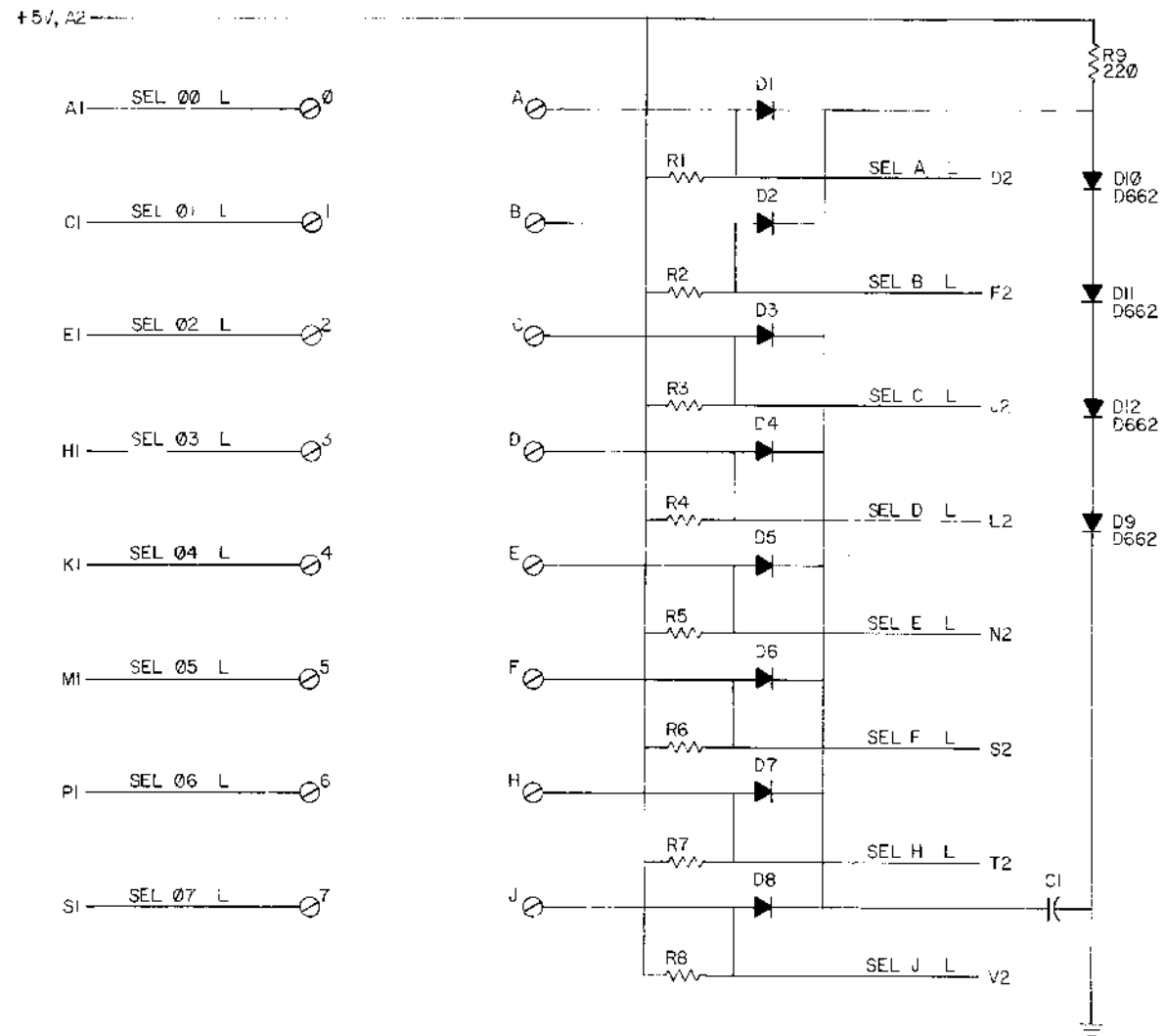
REV	NO	DATE	BY	CHKD
1	1	2/25/71	RS08-M	
2	1	3/25/71	RS08-M	
3	1	3/25/71	RS08-M	
4	1	3/25/71	RS08-M	
5	1	3/25/71	RS08-M	
6	1	3/25/71	RS08-M	
7	1	3/25/71	RS08-M	
8	1	3/25/71	RS08-M	

UNLESS OTHERWISE SPECIFIED	DRN	DATE	3/25/71
UNLESS OTHERWISE SPECIFIED	CHKD	DATE	3/10/69
TOLERANCES	ENG	DATE	4/16/69
DECIMALS FRACTIONS ANGLES	PROG. ENG.	DATE	4/15/69
± .005 ± .004 ± .030	PROG. MGR.	DATE	
FINAL SURFACE QUALITY	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL	A-ML-RS08-M	SIZE CODE	D D I R S 0 8 - M - 1
FINISH	SCALE	SHEET	OF 1

digital EQUIPMENT CORPORATION
MAYFIELD MASSACHUSETTS
DWS INUEA
RS08-M
REV C

REV C
NUMBER
D D I R S 0 8 - M - 1

THIS SCHEMATIC IS THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION
 CIRCUITS ARE PROPRIETARY AND 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.
 COPYRIGHT 1970 BY DIGITAL EQUIPMENT CORPORATION



UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 10K, 1/4W, 5%
 CAPACITORS ARE .01UF, 100V, 20%
 DIODES ARE D664
 ⊕ = SPLIT LUG
 GND= C2, T1

SIZE CODE NUMBER REV
 C CS G740-C-1

REVISIONS	CHK	ENG	NO	REV

DRN	jeanne french	DATE	8/27/70
CHK'D		DATE	
ENG'D		DATE	
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART			

digital
 EQUIPMENT CORPORATION
 MAINTARD MASSACHUSETTS

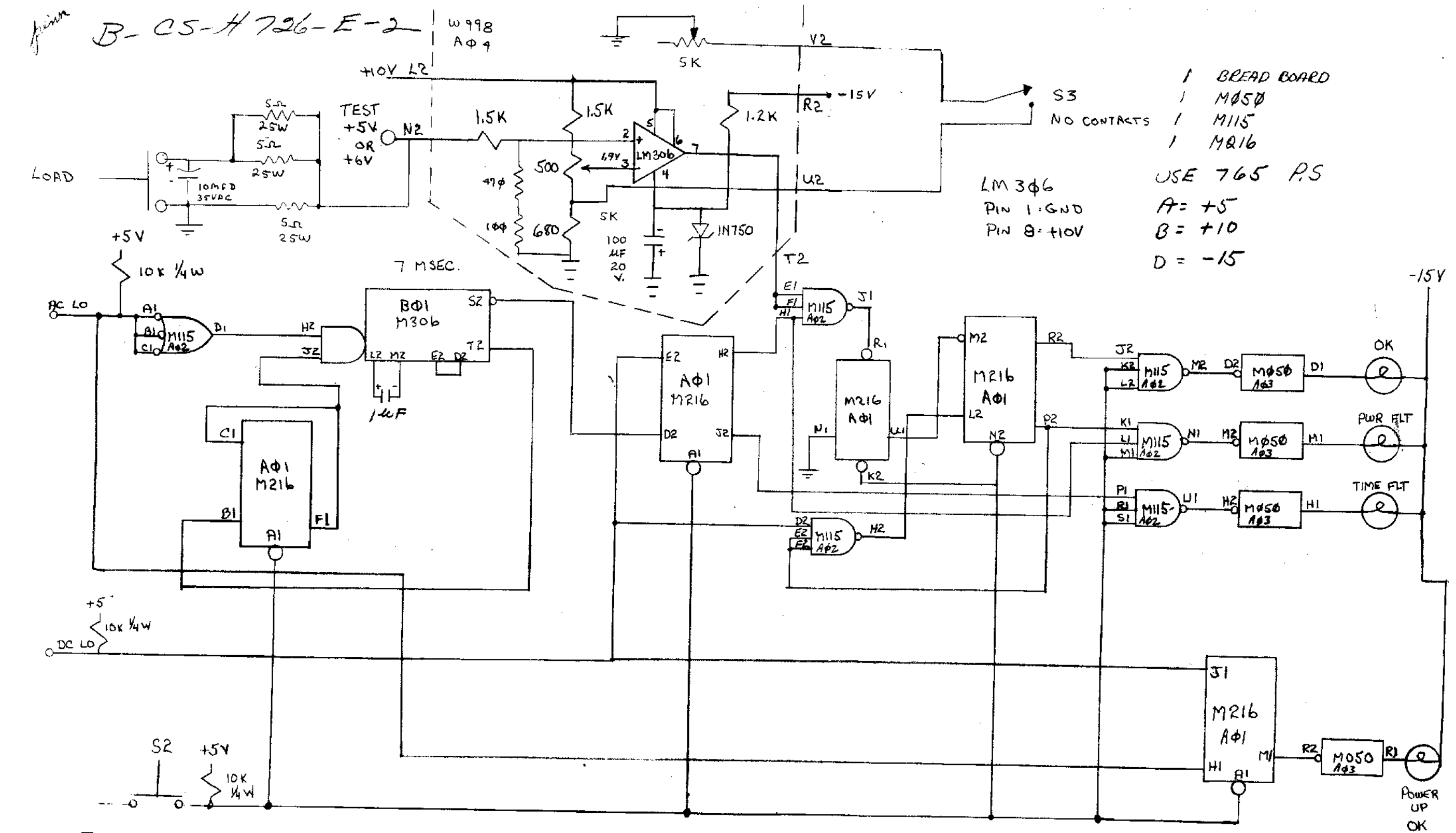
TITLE DISK SELECTION G740			
SIZE	CODE	NUMBER	REV
C	CS	G740-C-1	
PRINTED CIRCUIT REV			A

DEC FORM NO DRC 192

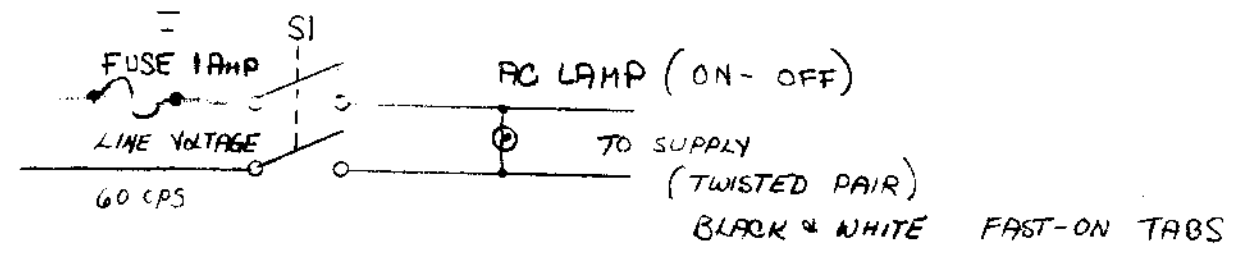
PRINTED CIRCUIT REV A 2 PINK

pin B-C5-H726-E-2

W998
AΦ4



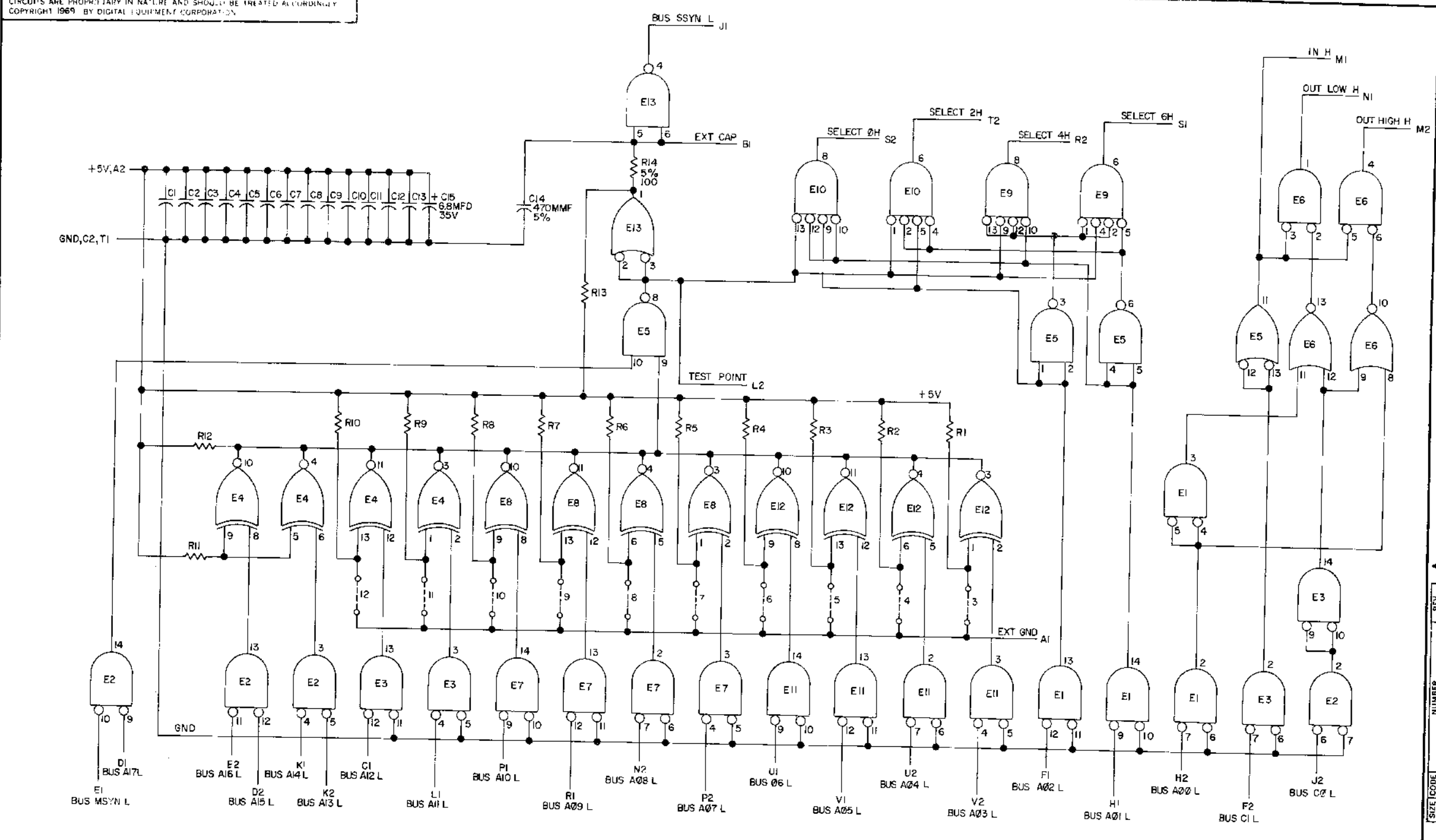
- 1 BREAD BOARD
 - 1 M050
 - 1 M115
 - 1 M216
- USE 765 P.S
- A = +5
B = +10
D = -15



MODIFIED FOR
H726-F SUPPLY
2/1/72 J. VAGAN

B-C5-H726-E-02 Power
FAIL TEST
DAVID DIGIROLAMO, ONLY
E11 07174
EXT 2719

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



UNLESS OTHERWISE INDICATED:
 ○---○ INDICATES JUMPERS
 RESISTORS ARE 1K, 1/4W, 5%
 CAPACITORS ARE 0.1MFD, 100V, 20%
 E1, E2, E3, E7, E11 ARE DEC380
 E4, E8, E12 ARE DEC242
 E9, E10 ARE DEC8815
 E5 IS DEC7400
 E6 IS DEC7402
 E13 IS DEC8881
 PIN 1 ON E1, E2, E3, E7, E11 = GND
 PIN 8 ON E1, E2, E3, E7, E11 = +5V
 PIN 7 ON E4, E8, E9, E10, E12, E13 = +5V
 PIN 14 ON E4, E5, E6, E8, E9, E10, E12, E13 = +5V

REV	NO	REV	A	B
CHK	00002			
DES				
APP				
TEST				

SEE FORM NO DRC 102

CPM	DATE
<i>D. Hiley</i>	11-26-69
CHK D	DATE
ENG	DATE
PROD	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

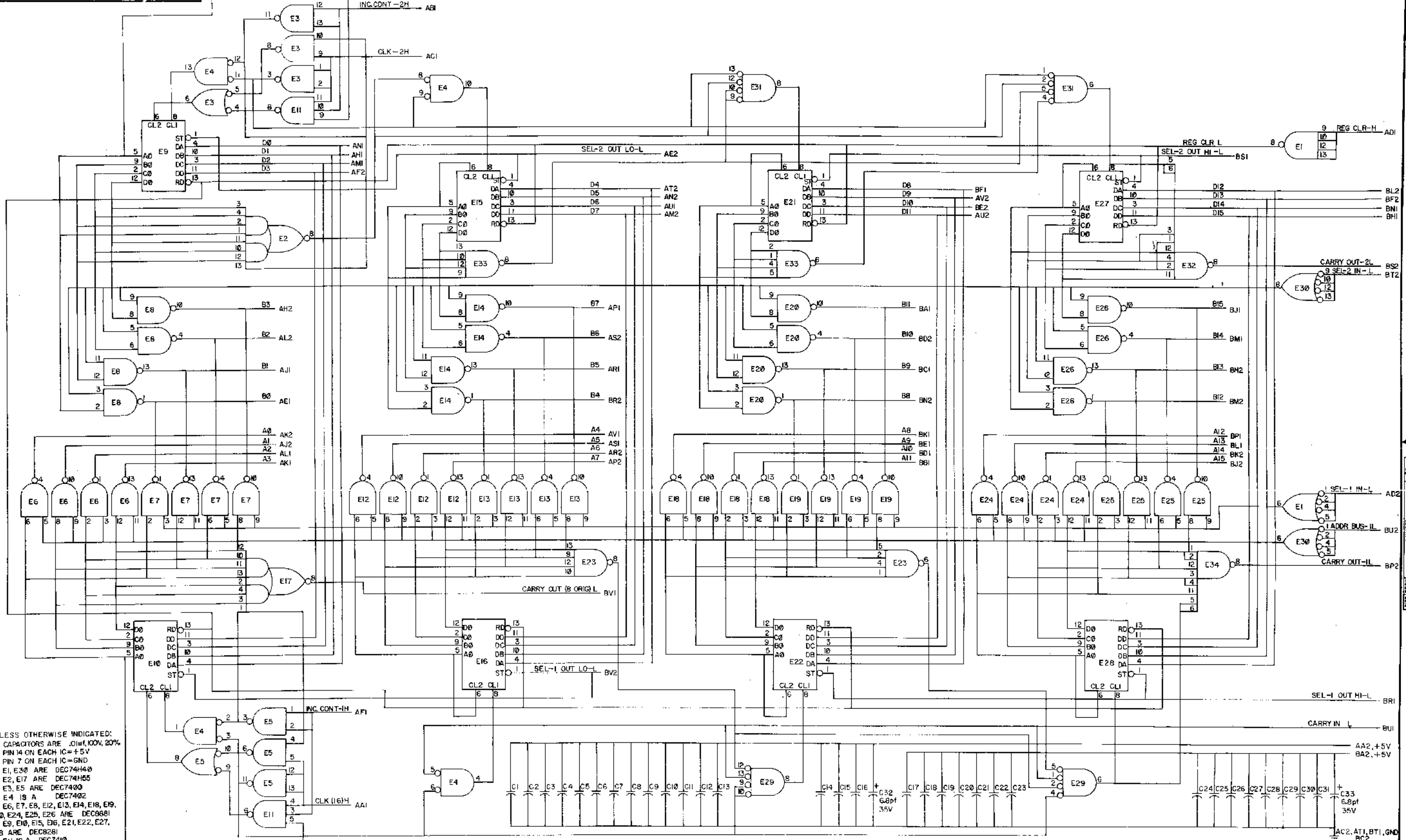
TIT. E
 ADDRESS SELECTOR MI05

SIZE	CODE	NUMBER	REV
C	CS	MI05-0-1	B

PRINTED CIRCUIT REV C

REV B
 NUMBER MI05-0-1
 SIZE CODE C CS

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



UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01µf, 100V, 20%
PIN 14 ON EACH IC = +5V
PIN 7 ON EACH IC = GND
E1, E30 ARE DEC74H40
E2, E17 ARE DEC74H55
E3, E5 ARE DEC7400
E4 IS A DEC7402
E6, E7, E8, E12, E13, E14, E18, E19,
E20, E24, E25, E26 ARE DEC0881
E9, E10, E15, E16, E21, E22, E27,
E28 ARE DEC8281
E11 IS A DEC7410
E33, E23 ARE DEC7420
E29, E31 ARE DEC8815
E32, E34 ARE DEC7430

REV.	DATE	BY	CHKD.
1			
2			
3			
4			

DESIGNED BY	DATE	CHKD. BY	DATE
J. B. French	7-8-70		

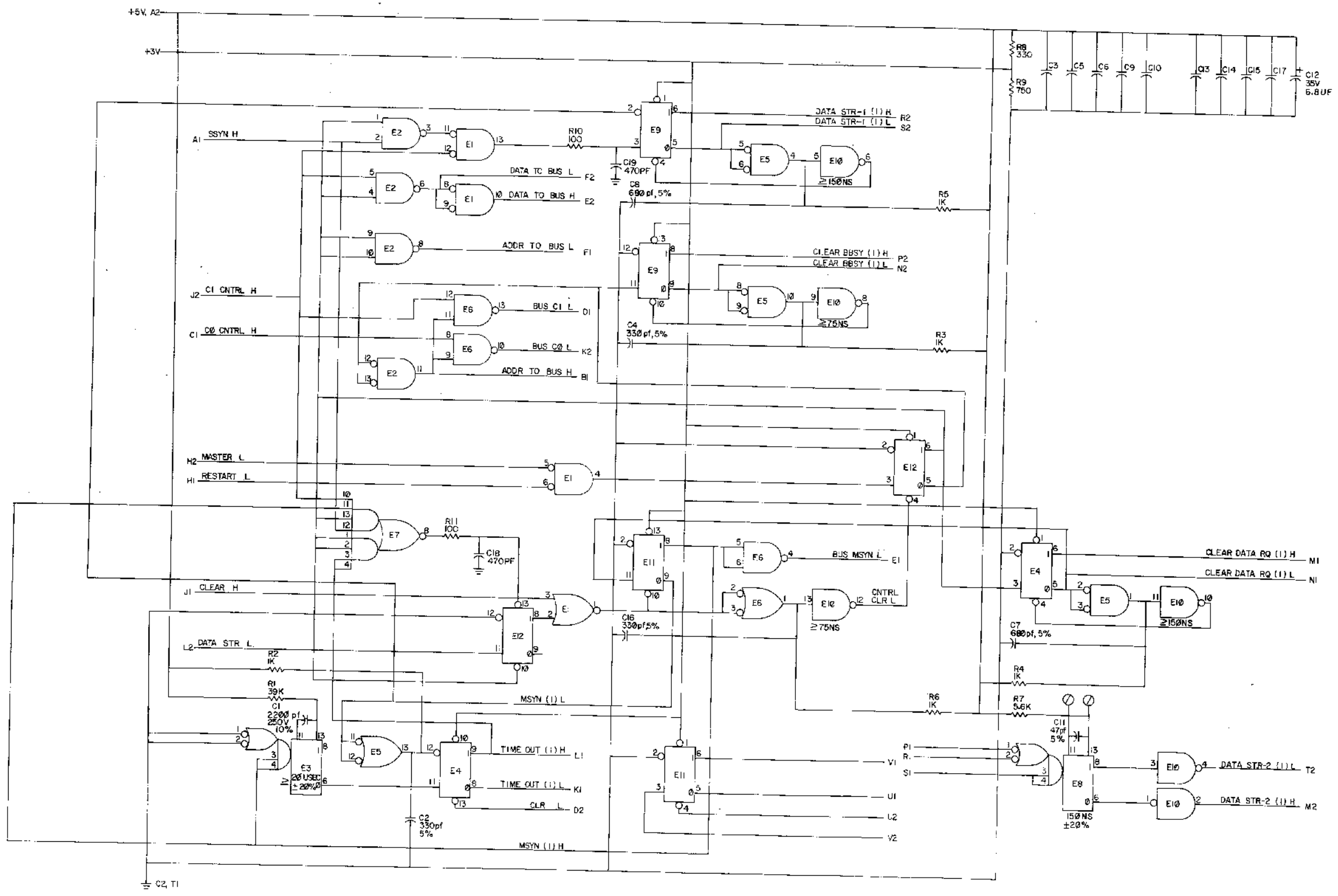
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

		TITLE: WC AND CMA MODULE M795	
SIZE	CODE	NUMBER	REV.
D	CS	M795-0-1	B
PRINTED CIRCUIT BY		A B C	

SIZE NUMBER
 D CS M795-0-1

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

0 1-0-962W S3 0
A38 3000 3/75



UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01uf, 100V, 20%
E1 IS DEC7402
E2 IS DEC7400
E3, E8 ARE DEC9601
E4, E9, E11, E12 ARE DEC7474
E5 IS DEC7401
E6 IS DEC8881
E7 IS DEC7445
E10 IS DE7404
⊗ = SPLIT LUGS

SERIAL NUMBER M796-0-1 REV. C

REV.	DATE	BY	CHKD.
1	10-29-70	...	...
2	7-24-71	...	...
3	8-21-71	...	...

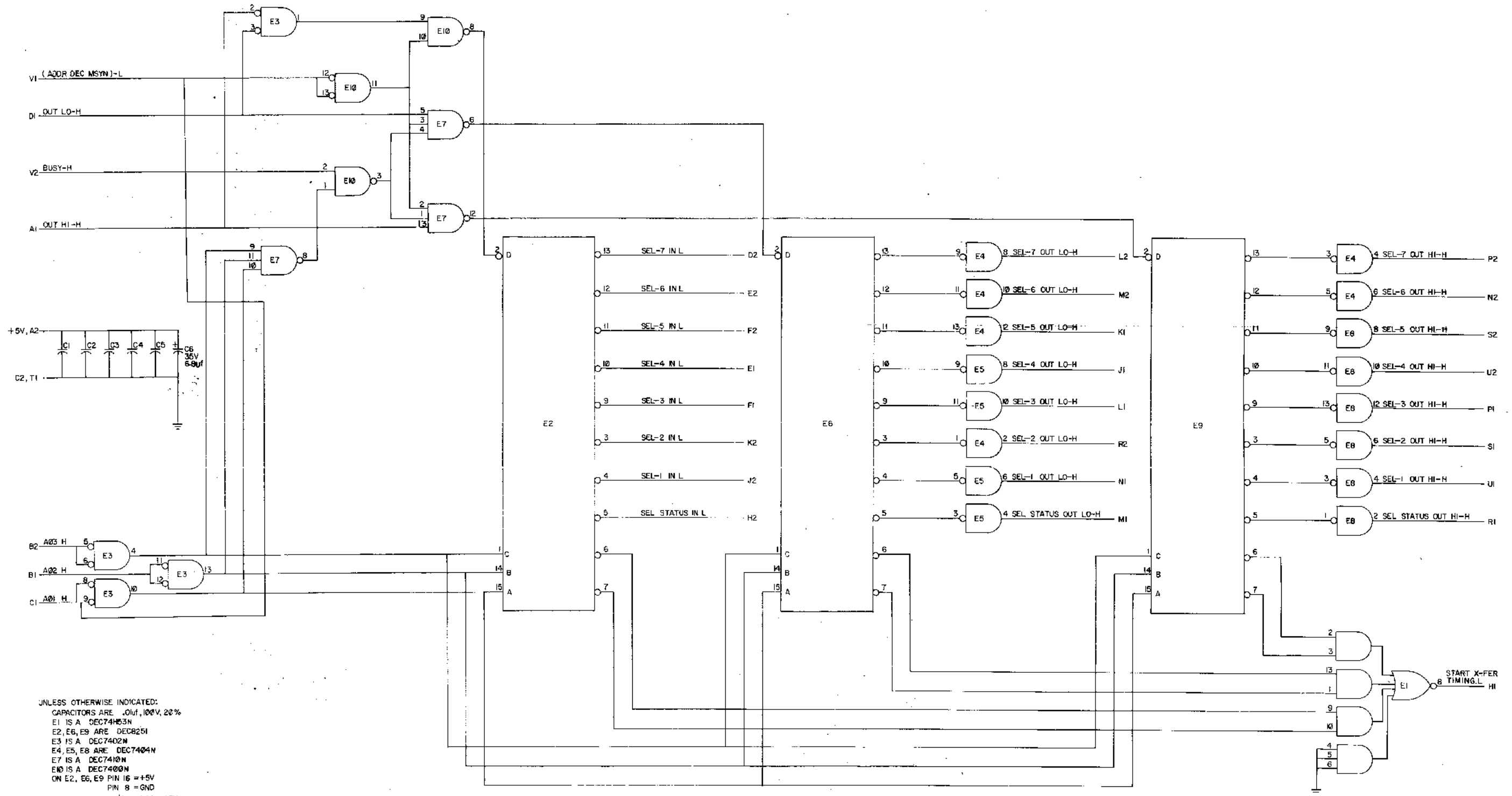
DATE	BY	CHKD.
10-29-70
7-24-71
8-21-71

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: UNIBUS MASTER CONTROL M796
REV. C
PART NUMBER: M796-0-1
PRINTED CIRCUIT REV. C

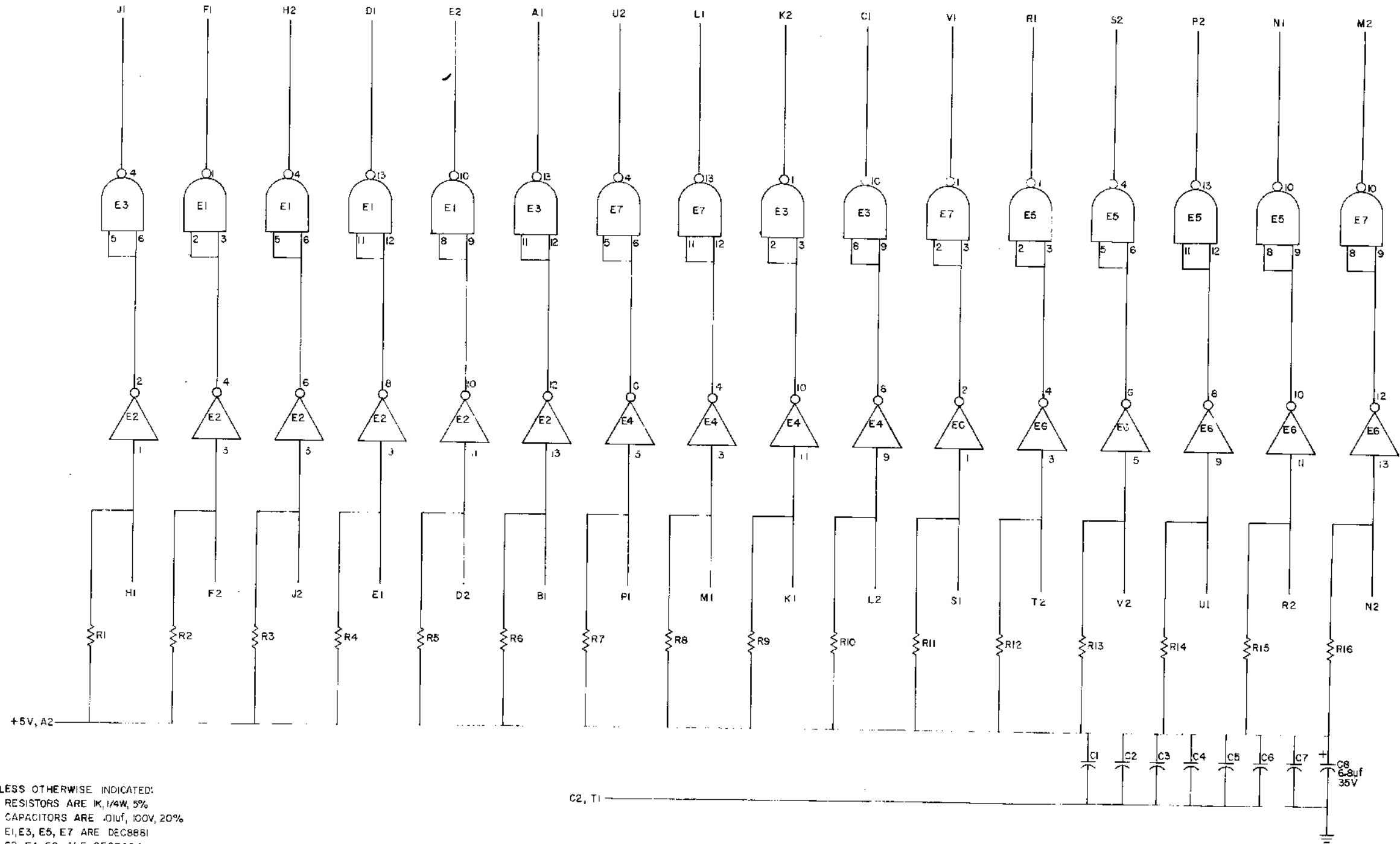
THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY COPYRIGHT 1970 BY DIGITAL EQUIPMENT CORPORATION



UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01uf, 100V, 20%
 E1 IS A DEC7400N
 E2, E6, E9 ARE DEC74251
 E3 IS A DEC7402N
 E4, E5, E8 ARE DEC7404N
 E7 IS A DEC7410N
 E10 IS A DEC7400N
 ON E2, E6, E9 PIN 16 = +5V
 PIN 8 = GND
 ON ALL OTHER IC'S PIN 14 = +5V
 PIN 7 = GND

REVISIONS CHG NO. REV. DATE 57 10000 1 4		TRANSISTOR & DIODE CONVERSION CHART DEC EIA DEC EIA _____ _____ _____ _____ _____ _____ _____ _____				TITLE REGISTER SELECT M797 MODULE	
DATE 7/11/70 DRAWN BY [Signature] CHECKED BY [Signature] DATE 7-27-70 DESIGNED BY [Signature] DATE 8/20/70 PROD. DATE		SIZE CODE NUMBER D CS M797-0-1		REV A		PRINTED CIRCUIT REV. 8	

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



UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1K, 1/4W, 5%
 CAPACITORS ARE .01µf, 100V, 20%
 E1, E3, E5, E7 ARE DEC8881
 E2, E4, E6 ARE DEC7404

REV. A
 NUMBER 0-1
 M798
 CS

REV.	NO.	DATE
A	0001	

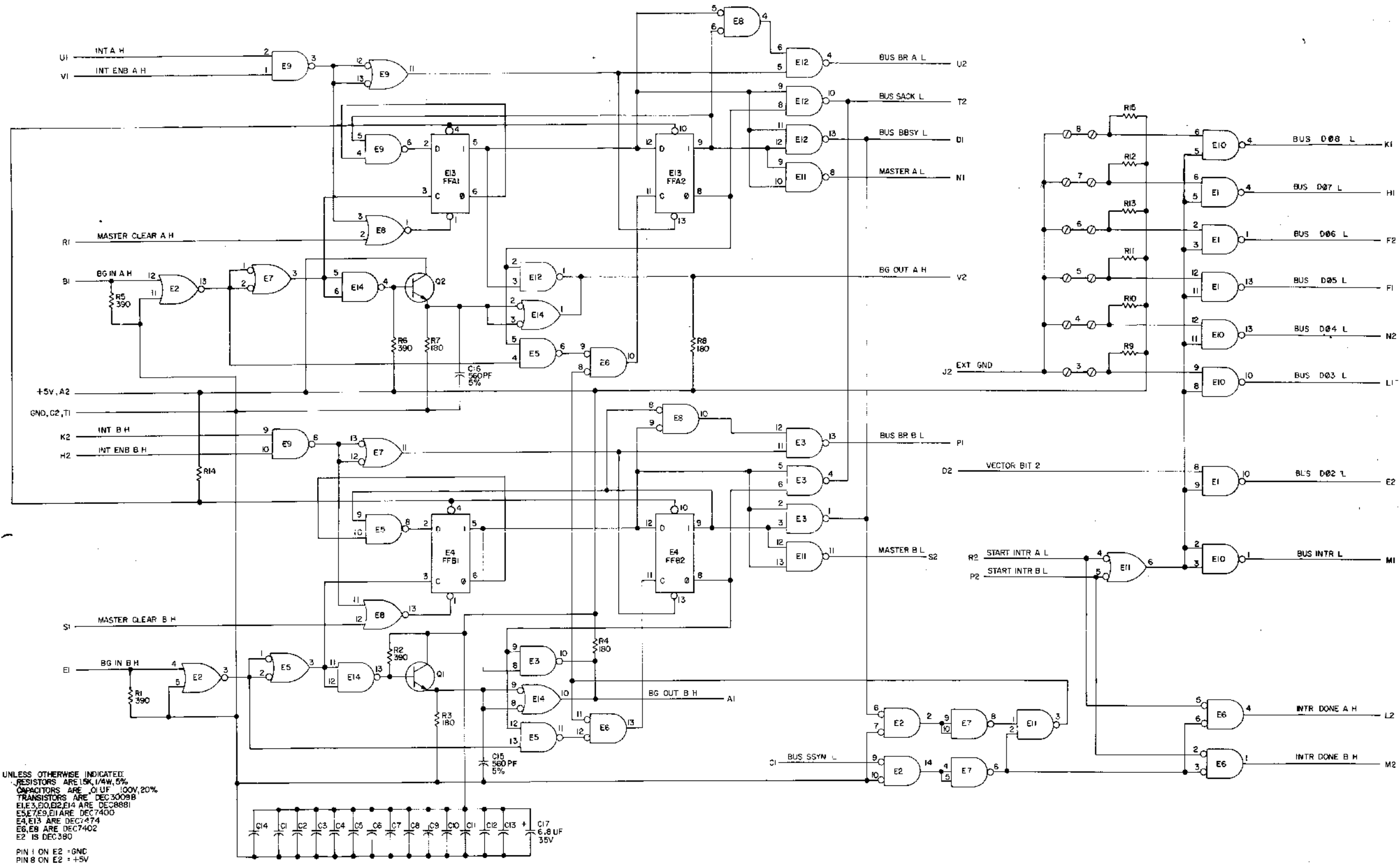
DRN	DATE
James Smith	7/1/70
CHK'D	DATE
W. J. Smith	7-10-70
ENG	DATE
PROD	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

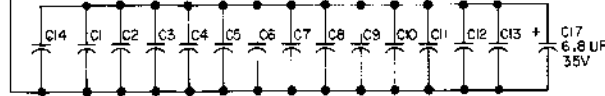
digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE			REV.
UNIBUS DRIVER			A
M798			
SIZE	CODE	NUMBER	REV.
C	CS	M798-0-1	A
PRINTED CIRCUIT REV.			B

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



UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 5%
 CAPACITORS ARE .01UF, 100V, 20%
 TRANSISTORS ARE DEC 3009B
 E1, E3, E10, E12, E14 ARE DEC 8881
 E5, E7, E9, E11 ARE DEC 7400
 E4, E13 ARE DEC 7474
 E6, E8 ARE DEC 7402
 E2 IS DEC 390
 PIN 1 ON E2 = GND
 PIN 8 ON E2 = +5V
 PIN 7 ON E1, E3 - E14 = GND
 PIN 14 ON E1, E3 - E14 = +5V
 ⊗ = SPLIT LUGS
 — = JUMPERS



REV	DATE	BY	CHKD
1			
2			
3			

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital		TITLE	
EQUIPMENT CORPORATION		INTERRUPT CONTROL M7820	
REV. 1	CODE D CS	NUMBER M7820-0-1	REV. B
PRINTED CIRCUIT REV.		DIST. 12-4-70/4111	

REV. B
M7820-0-1

The drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part in any form without the written permission of Digital Equipment Corporation.

CS M7821-0-1

PARTS REFERENCE

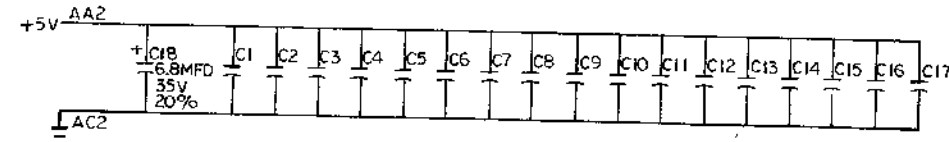
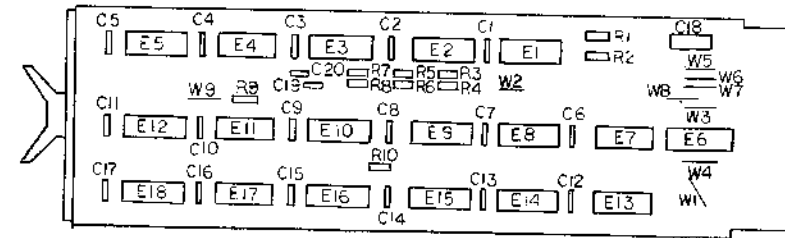
ITEM NO.	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	E12, E18	I.C. DEC 7474	1905547	2
2	E4, E7, E17	I.C. DEC 7400	1905575	2
3	E6, E13, E14	I.C. DEC 7402	1909004	3
4	E1, E11	I.C. DEC 380	1909485	2
5	E5	I.C. DEC 74H74	1909567	1
6	E2, E8, E9, E15, E16	I.C. DEC 8881	1909705	5
7	E3	I.C. DEC 74H04	1909931	1
8	E10	I.C. DEC 7408	1910155	1
9	C19, C20	CAP. 330PF, 100V, 5% DM	1000023	2
10	C18	CAP. 6.8MFD, 35V, 20% TANT	1000067	2
11	C1 THRU C17	CAP. 0.1MFD, 100V, 20% DISC.	1001610	17
12	R7, R8	RES. 47 Ω , 1/4W, 5% Ω	1300202	2
13	R1, R2	RES. 390 Ω , 1/4W, 5% Ω	1300309	2
14	R4, R10	RES. 180 Ω , 1/4W, 5% Ω	1301322	2
15	R3, R5, R6, R9	RES. 1k Ω , 1/4W, 5% Ω	1300365	4

NOTES:

- VECTOR BIT JUMPERS MUST BE CUT FOR A "ZERO" AND MUST BE INSERTED FOR A "ONE".
- NPR JUMPER (W9) MUST BE CUT FOR SOME PDP-11 PROCESSORS; IF THE RIGHT HALF REQUEST CIRCUIT IS USED FOR NPR'S; OR IF PIN J1 IS NOT WIRED ON THE M7821 SLOT.
- DETAILS ON COMPONENTS ARE NOTED IN THE PARTS REFERENCE. PLACEMENT IS NOTED IN THE COMPONENT PLACEMENT DIAGRAM.
- GND AND +5V ARE USUALLY PIN 7 AND PIN 14, RESPECTIVELY EXCEPTS ARE:

I.C. TYPE	GND	+5V
DEC 380	PIN 1	PIN 8
- UNLESS OTHERWISE NOTED RESISTANCE IS IN OHMS, CAPACITANCE IS IN PICOFARADS, CAPACITORS WITHOUT ANY NOTED VALUES ARE .01MFD.

COMPONENT PLACEMENT

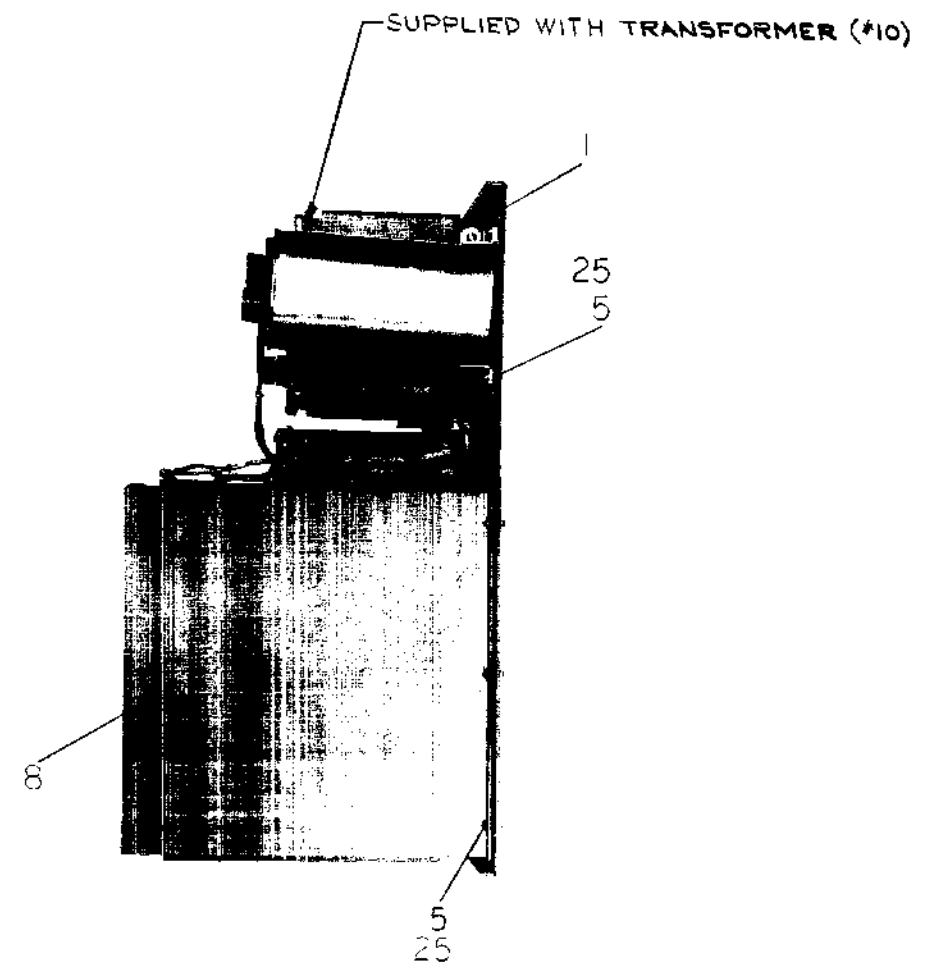
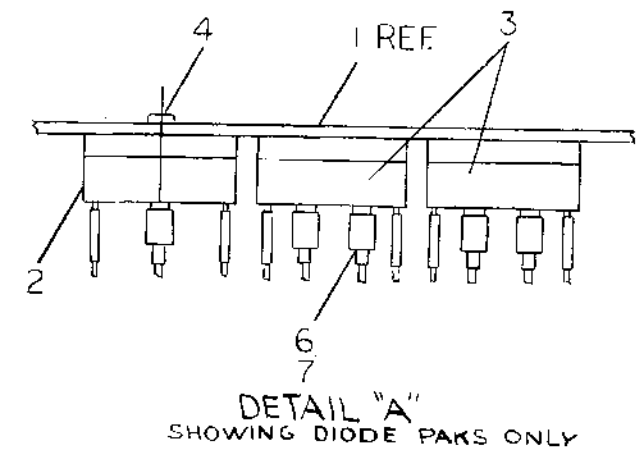
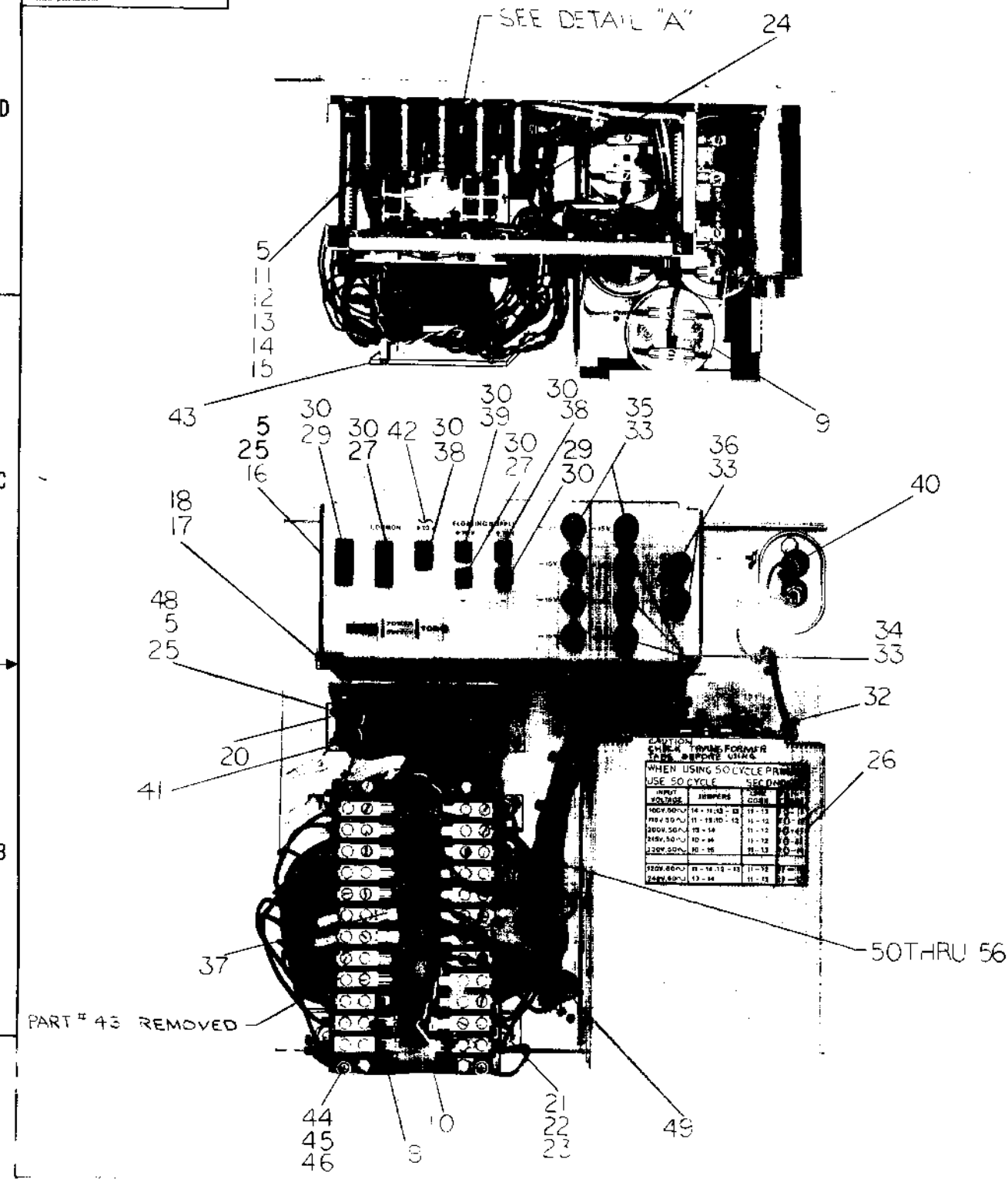


REV. NO.	CHANGE NO.	REV.
1	1	B
2	1	B

FIRST USED OR OPT/MOD 11/20	QTY	DESCRIPTION	PART NO	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ENG. IS = .005 ± 1.64 ± 0.30 FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	DRN DATE CHK'D DATE ENG DATE PROJ. ENG DATE PROJ. MGR DATE	DATE DATE DATE DATE DATE DATE	digital EQUIPMENT CORPORATION MAYFORD, MASSACHUSETTS	
MATERIAL FINISH	TITLE INTERRUPT CONTROL M7821		SIZE CODE DCS	NUMBER M7821-0-1
NEXT HIGHER ASSY		SCALE 1 OF 2	REV. B	

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

- NOTES:
1. ALL WIRES TO BE #14 AWG TEFLON INS. STRD UNLESS OTHERWISE SPECIFIED.
 2. * ASTERISK INDICATES WIRES THAT ARE SUPPLIED WITH TRANSFORMER
 3. TWIST WIRES TOGETHER, ONE TWIST PER INCH MIN.



REV. NO.	DATE	BY
1	7/12/69	...
2	...	...

REV. NO.	DATE	BY	DESCRIPTION	PART NO.	ITEM NO.
1	7/12/69	...	...	...	...
2	...	...	...	...	...

UNLESS OTHERWISE SPECIFIED		DIMENSION IN INCHES	
DECIMALS	FRACTIONS	ANGLES	
±.005	± 1/64	± 0.30	
MATERIAL		FINISH	
+		+	
SCALE NONE		SHEET 1 OF 2	

PARTS LIST	
digital EQUIPMENT CORPORATION	TITLE
MAINTARD, MASSACHUSETTS	POWER SUPPLY
705-B	NUMBER
DUA 705-B-0	REV. A

DUA 705-B-0

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY K. GULICK
DATE 3/12/69
ENG
DATE *F.H. Amavis*
CHECKED K. RUSS
DATE 3/24/69
SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
R/LF	C-CS-705-B-1	705-B P/S CIRCUIT SCHEMATIC	
1	E-IA-508234-0-0	CHASSIS	1
2	1105799	DM-15 DIODE PAK	1
3	1102932	DM-1 DIODE PAK	2
4	9006027-1	SCR PHL HD PAN #6-32 x 7/8 LG	6
5	9006633	WASH INT TOOTH #6 HOLE	21
6	9006997	SLDLESS CONN 42025-1 AMP	35
7	9107305	HY SHRINK TUBING #14 RED	A/R
8	D-MD-5304483-0-0	RETAINER CAPACITOR	1
9	1004874	CAP 160,000 20 VDC	5
10	1605802	TRANSFORMER T-65238 ACME	1
11	9007925	ADAPTER #300H21A ARK-LES	5
12	1300190	RESISTOR 25F25 W.L.	5
13	9006033-1	SCR PHL HD PAN 6-32 x 2 1/2 LG	5
14	9006674	CTR. WASH #916 CORE TYPE 2A W.L.	10
15	9006829	SPACER 1/2 AF C 3/8 LG x #10 HOLE	5
16	D-MD-5304499-0-0	BRACKET, TERMINAL	1
17	9006024-1	SCR PHL HD PAN #6-32 x 5/8 SST	4
18	9006560	NUT KEPS #6-32 SST	4
19	9107253	TUBING SHRINKABLE WHT 1/4	A/R
20	1205751	FAN BOXER/ROTRON 50/60 CPS	1
21	9006568	NUT KEPS #5/16-18 SST	4

TITLE
POWER SUPPLY 705-B
ASSY NO. D-UA-705-B-0
SIZE CODE A PL
NUMBER 705-B-0
REV. ECO NO. 705B-A
SHEET 1 OF 3

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

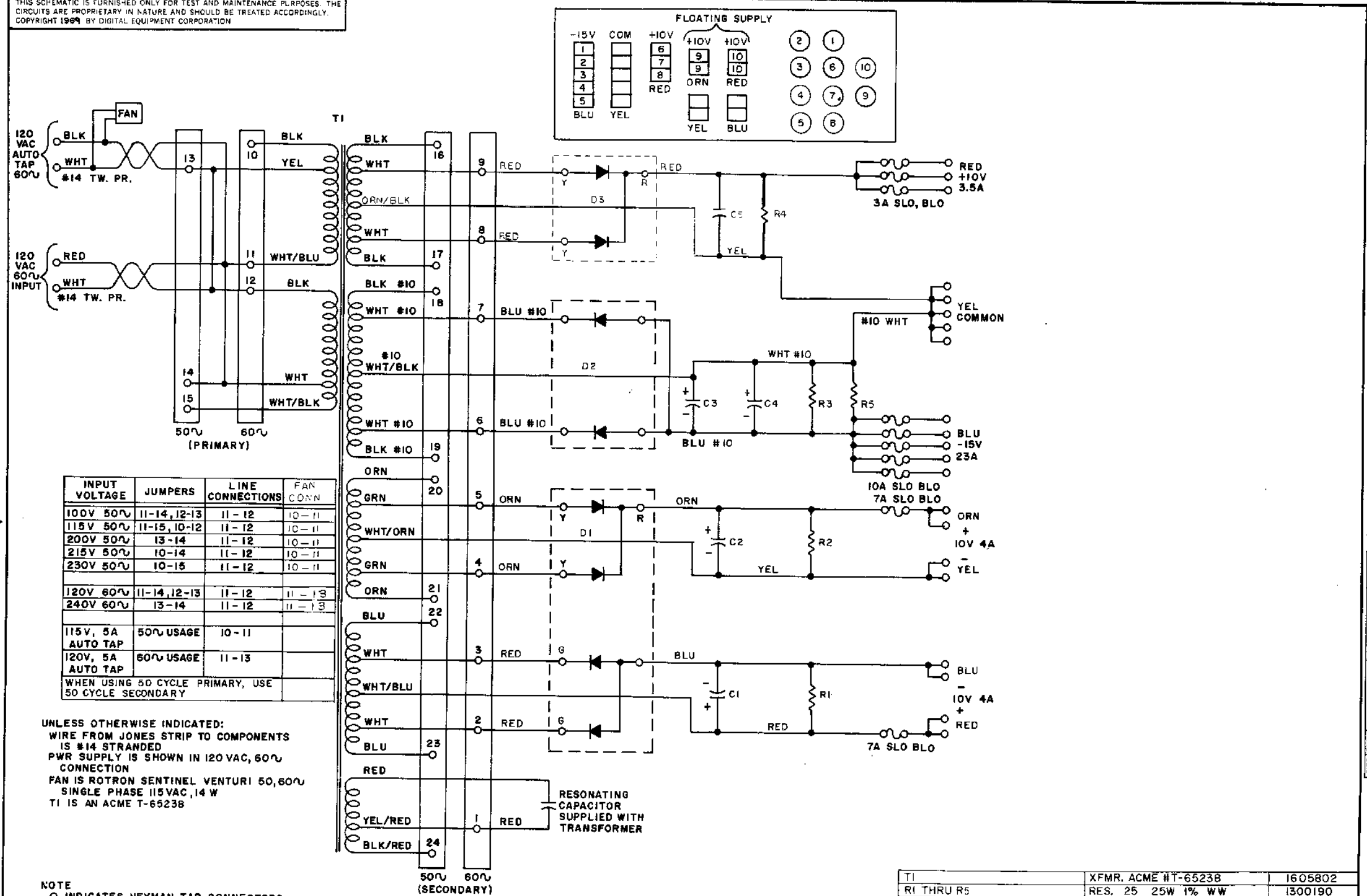
PARTS LIST

MADE BY KEN GULICK
DATE 3/12/69
ENG
DATE *F.H. Amavis*
CHECKED K. RUSS
DATE 3/24/69
SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
22	9006255	CAP SCR HEX HD 5/16-18 x 3/4 LG	4
23	9007858	WASH. FLAT 11/16 O.D. x 3/8 I.D.x1/16 THK	4
24	C-MD-7404881-0-0	SCREEN, FAN	1
25	9006022-1	SCR PHL HD PAN #6-32 x 3/8 LG SST	16
26	A-DC-5304512-0-0	CAUTION CHECK LABEL	1
27	9007233	BUSHING #DC-202-1 YEL HEYMAN	1
28	9006776	CONN. #31889 AMP	2
29	9007232	BUSHING #DC-202-1 BLU HEYMAN	1
30	9007238	SOLDER TAB #T-202-S HEYMAN	1
31	9007613	ADAPTER #3000C27-1N3	21
32	9007031	TIE WRAP SST-1-B PANDUIT	7
33	9007242	FUSE HOLDER TYPE HKP BUSS	A/R
34	9007218	FUSE 3AG 3 AMP S.B.	10
35	9007225	FUSE 3AG 10 AMP S.B.	3
36	9007224	FUSE 3AG 7 AMP S.B.	5
37	9006779	SLDLESS CONN #329509 AMP	2
38	9007231	BUSHING #DC-202-1 RED HEYMAN	11
39	9007234	BUSHING #DC-202-1 ORN HEYMAN	5
40	9006999	SLDLESS CONN #41829 AMP	2
41	9107430-2	WIRE #18AWG TWP RED/WHY	2
42	B-DC-5308155-0-0	DECALS POWER SUPPLY	A/R
43	C-MD-5304458-0-0	COVER PROTECTION	1

TITLE
POWER SUPPLY 705-B
ASSY NO. D-UA-705-B-0
SIZE CODE A PL
NUMBER 705-B-0
REV. ECO NO. A
SHEET 2 OF 3

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



INPUT VOLTAGE	JUMPERS	LINE CONNECTIONS	FAN CONN
100V 50 ϕ	11-14, 12-13	11-12	10-11
115V 50 ϕ	11-15, 10-12	11-12	10-11
200V 50 ϕ	13-14	11-12	10-11
215V 50 ϕ	10-14	11-12	10-11
230V 50 ϕ	10-15	11-12	10-11
120V 60 ϕ	11-14, 12-13	11-12	11-13
240V 60 ϕ	13-14	11-12	11-13
115V, 5A AUTO TAP	50 ϕ USAGE	10-11	
120V, 5A AUTO TAP	60 ϕ USAGE	11-13	

WHEN USING 50 CYCLE PRIMARY, USE 50 CYCLE SECONDARY

UNLESS OTHERWISE INDICATED:
 WIRE FROM JONES STRIP TO COMPONENTS IS #14 STRANDED
 PWR SUPPLY IS SHOWN IN 120VAC, 60 ϕ CONNECTION
 FAN IS ROTRON SENTINEL VENTURI 50, 60 ϕ SINGLE PHASE 115VAC, 14 W
 T1 IS AN ACME T-65238

NOTE
 O INDICATES HEYMAN TAB CONNECTORS
 INDICATES FUSES

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
T1	XFMR. ACME #T-65238	1605802
R1 THRU R5	RES. 25 25W 1% WW	1300190
D2	DIO. PACK DM-15	1105799
D1, D3	DIO. PACK DM-1	1102933
C1 THRU C5	CAP. 160,000 MFD 20V	1004874
PARTS LIST		A-PL-705-0-0

REVISIONS	CHK	ENG NO.	REV

DRN	DATE
<i>John L. ...</i>	3/13/69
<i>...</i>	3/26/69
<i>...</i>	3/23/69
<i>...</i>	2/11/69

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

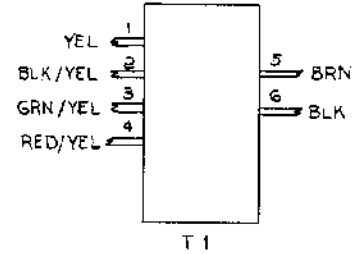
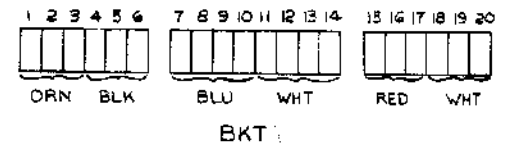
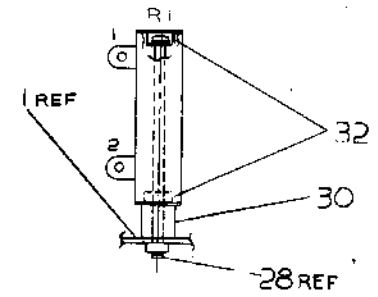
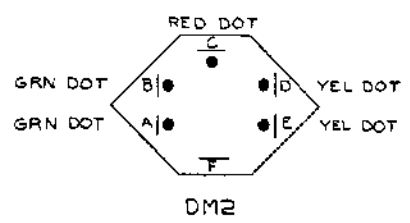
TITLE: **POWER SUPPLY 705-B**

SIZE: C CODE: CS NUMBER: 705-B-1 REV: 1

PRINTED CIRCUIT REV.

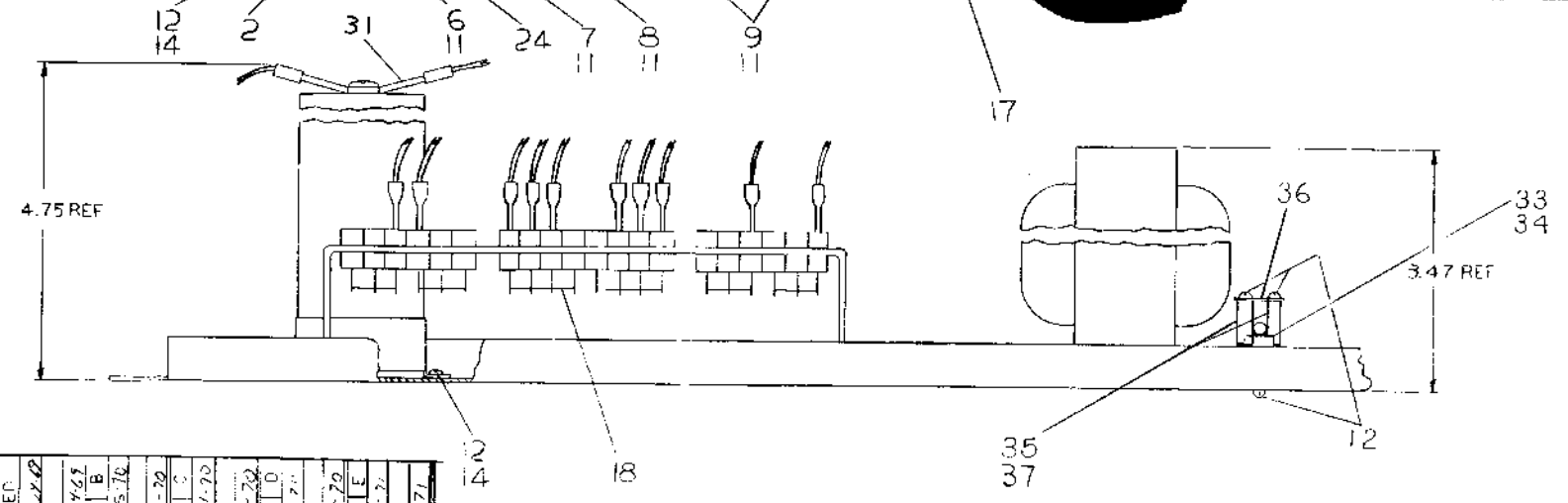
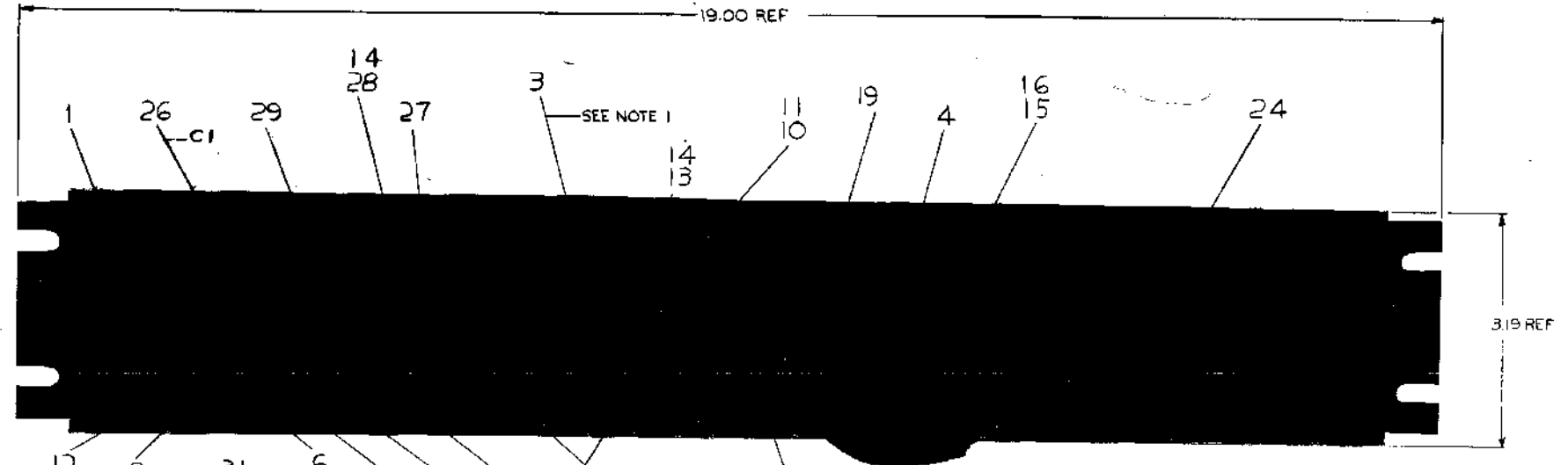
REV. NUMBER 705-B-1

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture of any of items without written permission.



ITEM NO	DESCRIPTION	CONNECTIONS		EQUIP FROM WITH ITEMS	EQUIP TO WITH ITEMS	REMARKS
		FROM	TO			
-	YEL	TI-1	BKT-9	-	5	
-	RED/YEL	TI-4	BKT-14	-	5	
-	BRN	TI-5	F1	-	5	SOLDER F1
-	BLK	TI-6	BKT-17	-	5	
20	#14 WHT	DM2-A	BKT-12	5	5	
21	#14 BLU	DM2-B	BKT-7	5	5	
22	#14 ORN	DM2-C	R1-1	5	-	SOLDER R1-1
21	#14 BLU	DM2-D	BKT-8	5	5	
20	#14 WHT	DM2-E	BKT-13	5	5	
23	#14 BLK	DM2-F	R1-2	5	-	SOLDER R1-1
18	#22 -	BKT-1	BKT-3	-	-	1 THRU 3
18	#22 -	BKT-4	BKT-6	-	-	4 THRU 6
18	#22 -	BKT-7	BKT-10	-	-	7 THRU 10
18	#22 -	BKT-11	BKT-14	-	-	11 THRU 14
18	#22 -	BKT-15	BKT-17	-	-	15 THRU 17
18	#22 -	BKT-18	BKT-20	-	-	18 THRU 20
-	GRN/YEL	TI-3	-	-	19	TIE END
-	BLK/YEL	TI-2	-	-	19	TIE END
22	#14 ORN	R1-1	C1-A	-	31	SOLDER R1-1
22	#14 ORN	C1-A	BKT-3	31	5	
23	#14 BLK	R1-2	C1-B	-	31	SOLDER R1-2
23	#14 BLK	C1-B	BKT-4	31	5	
-	#14 BRN	F1	BKT-20	-	5	

NOTES:
 1 APPLY THERMAL COMPOUND ITEM #25 #340 DOW CORNING OR EQUIV TO CONTACTING SURFACES OF ITEM #1 & ITEM #3.



REV.	CHANGE NO.	DATE	BY	CHK'D
A	1	3-25-70	D. VONADA	D. VONADA
B	2	3-25-70	D. VONADA	D. VONADA
C	3	3-25-70	D. VONADA	D. VONADA
D	4	3-25-70	D. VONADA	D. VONADA
E	5	3-25-70	D. VONADA	D. VONADA

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

FIRST USED ON OP 17/M06 R=09	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED	DRN. ROBICHAUD	DATE 6-5-69	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHK'D D. HEALY	DATE 6-10-69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	ENG. ZNAMIEROWSKI	DATE 6-10-69	TITLE INDICATOR POWER SUPPLY 716	
MATERIAL	PROD. D. VONADA	DATE 6-10-69	FIRST USED ON D-UA-RF09-0-0	
FINISH	PROD. ANTONUCCIO	DATE 6-12-69	SCALE 1/1	
SHEET 1 OF 1		SIZE CODE D UA 716-0-0		REV. E

716-0-0
 PUA
 716-0-0

**DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST**

BY ROBERT G. ZNAMEROWSKI
6/5/69
DATE 6/6/69
CHECKED D. HEALEY
DATE 6/6/69
SECTION 1
ISSUED SECT. 1

NO.	DWG NO. / PART NO.	DESCRIPTION	SECTION	ISSUED SECT.	716-0	QUANTITY / VARIATION
1	D-MD-5308466-0-0	PANEL, MTG 716 P.S.			1	
2	R-MD-5308465-0-0	BRACKET MTG. TERMINAL			1	
3	110539	DIODE PACK DM-2			1	
4	1G09588	TRANSFORMER #F64-U TRIAD			1	
5	9007919	CONN SOLDERLESS #50906 ARKLESS			20	
6	9007234	BUSHING JUNC TERM ORN #DC-202-1 HEYMAN			3	
7	900723	BUSHING JUNC TERM BLK, #DC-202-1 HEYMAN			3	
8	900723	BUSHING JUNC TERM BLU, #DC-202-1 HEYMAN			4	
9	900723	BUSHING JUNC TERM WHT, #DC-202-1 HEYMAN			7	
10	900723	BUSHING JUNC TERM RED, #DC-202-1 HEYMAN			3	
11	9007238	TERM TAB T-202-S HEYMAN			20	
12	9006022-1	SCR PHL, HD PAN #6-32 x 3/8 LG SST			9	
13	9007794-1	SCR PHL, HD PAN #6-32 x 11/16 LG SST			2	
14	9006635	WASH INT TOOTH LOCK #6 SST			8	
15	9006071-1	SCR PHL, HD PAN #10-32 x 3/8 LG SST			4	
16	9006635	WASH INT TOOTH LOCK #10 SST			4	
17	9007031	TEE WRAP SST-1B PANDUIT			4	
18	9107560-1	WIRE BUSSING #22 AWG			PAR	
19	9107305-02	TUBING, SHRINKABLE, RED 3/16 D x 9/16 LG			2	
20	9107370-99	WIRE, STRANDED #14 TEF INS WHT			PAR	
21	9107370-66	WIRE, STRANDED #14 TEF INS BLU			PAR	
22	9107370-33	WIRE, STRANDED #14 TEF INS ORN			PAR	

INDICATOR POWER SUPPLY 716
ASSY NO. D-UA-716-0-0
SHEET 1 OF 2

SIZE CODE A PL
NUMBER 716-0-0
REV. ECO NO. E 716-00007

**DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST**

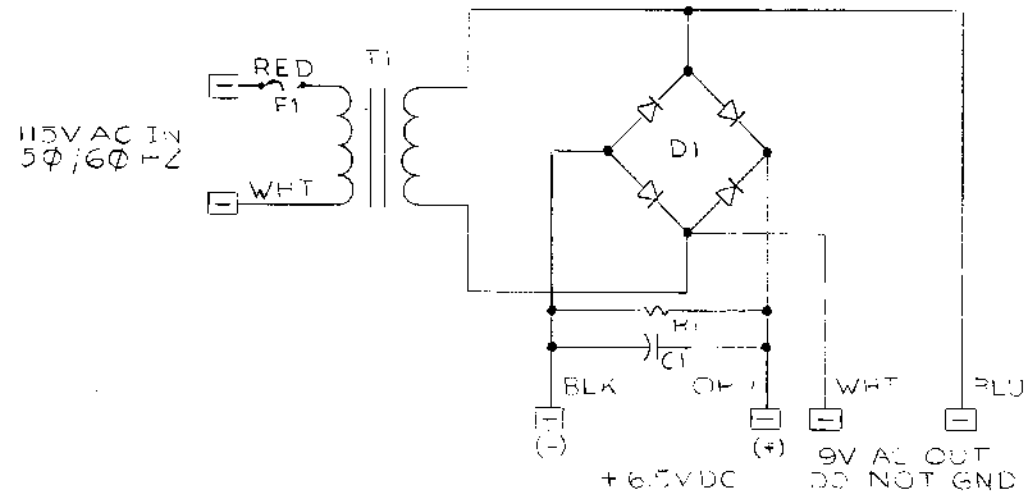
MADE BY ROBERT G. ZNAMEROWSKI
DATE 6/5/69
CHECKED D. HEALEY
DATE 6/6/69
SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	SECTION	ISSUED SECT.	716-0	QUANTITY / VARIATION
23	9107370-00	WIRE, STRANDED #14 TEF INS BLK			PAR	
24	A-DC-F308448-0-0	DECAL, 716 POWER SUPPLY			PAR	
25		THERMAL COMPOUND #340 DOW CORNING			PAR	
26	1009437	CAP 18000 MED 10V			1	
27	1300165	RESISTOR 50hm 25W 5%			1	
28	9006033	SCR PHL PAN HD 6-32 x 2-1/2 SST			1	
29	9009052	CAP MOUNTING BRACKET			1	
30	9006829	SPACER 1/2" x 3/8" x 10 HOLE AL			1	
31	9007776	TAB #61349-1 AMP			2	
32	9006674	WASH #916 CORE WARD LEONARD			2	
33	9006996	#4405 FUSE HOLDER			1	
34	9007209	1/2 AMP S.B. FUSE			1	
35	9006859	THREADED STAND OFF 3/4 6-32			2	
36	7404508	FIBER COVER PLATE			1	
37	9006633	A6 INTERNAL LOCK WASHER			2	

INDICATOR POWER SUPPLY
ASSY NO. D-UA-716-0-0
SHEET 2 OF 2

SIZE CODE A PL
NUMBER 716-0-0
REV. ECO NO. E 716-00007

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



F1	1/2 AMP S.F. FUSE	9007209
R1	5ohm.25W RES	1300165
C1	18000MFD 10V DC CAP	1009437
	PARTS LIST	D-UA-716-0-0
T1	X MFR*E64-U TRIAD	1609588
D1	DIODE PACK DM-2	1105397
REF DESIGNATION	DESCRIPTION	PART NO

PARTS LIST

REV	ENG	NO	REV
1	CHRY	0001	A
2	CHRY	0001	V
3	CHRY	0001	SIZE

DRN	RAYMOND	DATE	1-18-69
CHK'D	HEALY	DATE	8-27-69
ENG.	VONADA	DATE	7-21-69
PROD	ANTONUCCIO	DATE	7-25-69

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: CIRCUIT SCHEMATIC
716

SIZE: C CODE: CS NUMBER: 716-0-1 REV: C

PRINTED CIRCUIT REV.

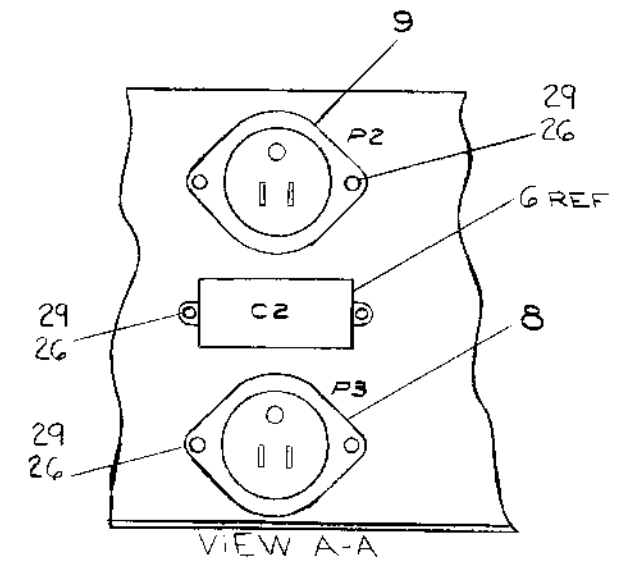
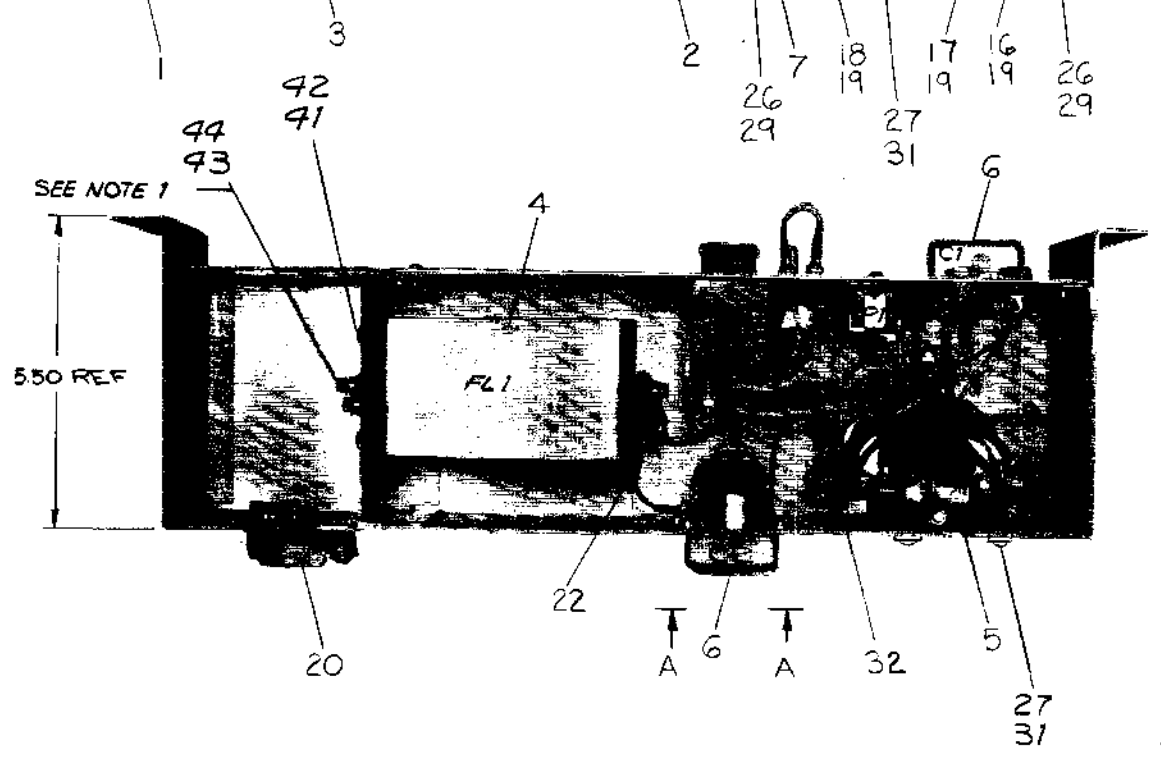
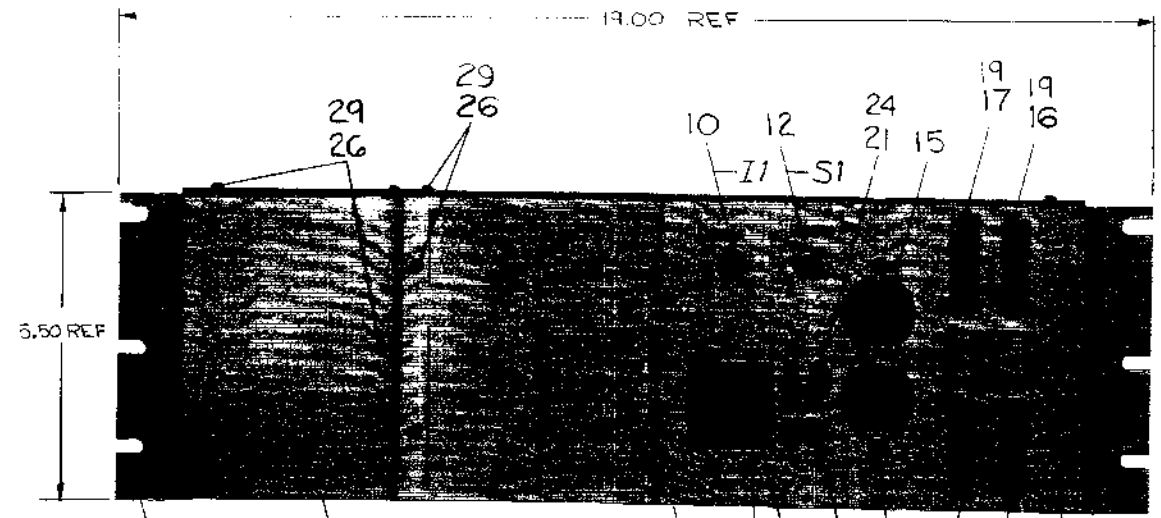
SIZE CODE NUMBER REV
C CS 716-0-1 C

pink

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of parts without written permission.

7 0-0-998 7 D 2 1

NOTES:
 1. REPLACE 5 * 8-32 x 5/16 LG PAN HD SCREWS SUPPLIED WITH ITEM * 4 WITH ITEMS * 43 & 44



REV.	CHG	NO.	DATE
A		002	8/23/69
QUALITY CONTROL VONAI 8/23/69			

TOLERANCES DECIMALS
 .XXX = ± 0.05
 .XX = ± 0.02
 .X = ± 0.1

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	R509-0		
PARTS LIST			
UNLESS OTHERWISE SPECIFIED		DRN. <i>W. J. ...</i> DATE <i>6/1/69</i> CHG'D <i>X. X. X.</i> DATE <i>6/23/69</i> ENG. <i>...</i> DATE <i>...</i> PROJ. ENG. <i>...</i> DATE <i>...</i> PROJ. MGR. <i>...</i> DATE <i>...</i>	
UNLESS OTHERWISE SPECIFIED		digital EQUIPMENT CORPORATION WATYARD, MASSACHUSETTA	
MATERIAL FINISH		TITLE LINE FILTER & PWR CONT 855	
DIMENSION IN INCHES TOLERANCES FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		SIZE CODE DUA855-0-0	
SCALE SHEET 1 OF 2		NUMBER 855-0-0	
DIST. G		REV. A	

REV. A
 NUMBER
 DUA855-0-0
 SHEET NO.

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

V 339 3-5-98 MNA 2

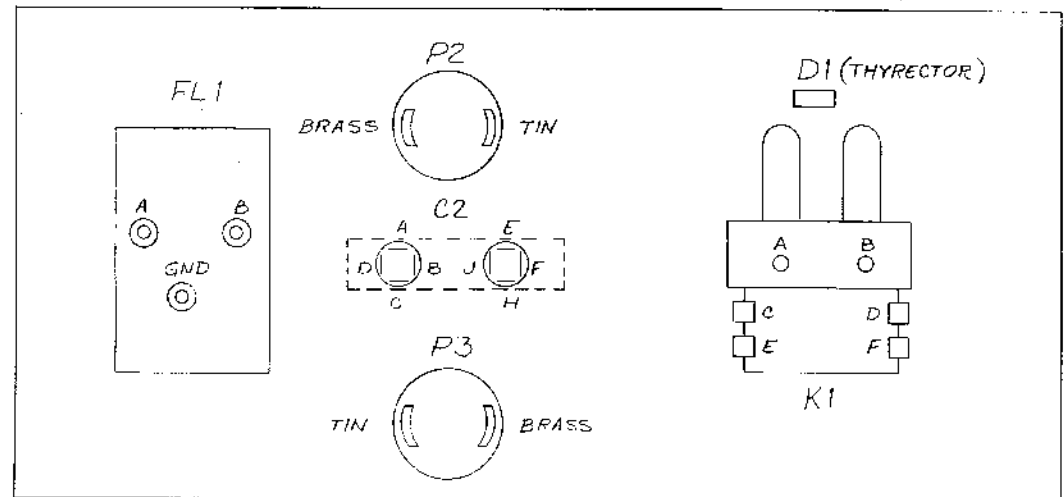
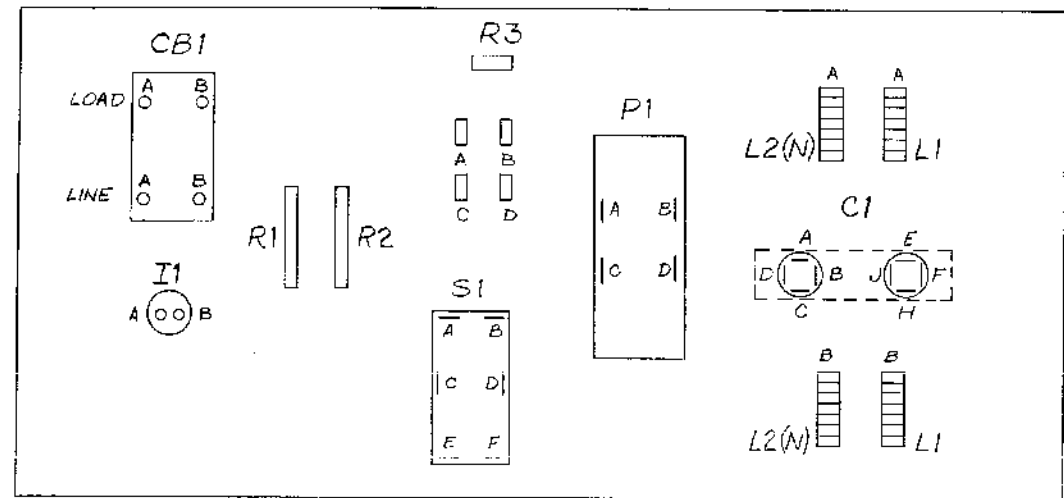
WIRE TABLE

ITEM NO	DESCRIPTION	CONNECT TO	FROM	TO	EQUIP FROM WITH ITEMS	EQUIP TO WITH ITEMS	REMARKS
40	*10 WHT	FL1-A	CB1-LOAD-B		23	23	
39	*10 WHT	FL1-B	CB1-LINE-A		23	23	
36	*14 BLK	FL1-END	P3-GND		22	22	
35	*14 WHT	CB1-LOAD-A	115V-B		22	*A	
46	*12 WHT	CB1-LOAD-A	P1-C		23	38	
35	*14 WHT	CB1-LOAD-A	S1-E		22	21	
46	*12 WHT	CB1-LOAD-A	K1-C		23	-	
33	*14 RED	CB1-LOAD-B	S1-F		22	21	
47	*12 RED	CB1-LOAD-B	K1-E		23	-	
47	*12 RED	CB1-LOAD-B	P1-D		23	21	
10	- RED	IA-A	CB1-LOAD-B		-	45	LIGHT (L1)
10	- BLK	II-B	115V-A		-	*A	
35	14 WHT	S1-A	C2-D		21	21	
33	RED	S1-B	C2-F		21	21	
35	WHT	S1-C	115V-C		21	*A	
38	14 RED	S1-D	K1-B		21	22	

WIRE TABLE

ITEM NO	DESCRIPTION	FROM	TO	EQUIP FROM WITH ITEMS	EQUIP TO WITH ITEMS	REMARKS
35	*14 WHT	115V-D	K1-A	*A	22	
46	*12 WHT	P1-A	L2(N)-A	38	*A	
47	*12 RED	P1-B	L1-A	38	*A	
47	*12 RED	C1-A	K1-F	38	-	
47	*12 RED	C1-C	L1-B	38	*A	
46	*12 WHT	C1-E	K1-D	38	-	
46	*12 WHT	C1-H	L2(N)-B	38	*A	
33	*14 RED	P2-ERASS	C2-E	*A	21	
35	WHT	P2-TIN	C2-A	*A	21	
35	WHT	P3-TIN	C2-C	*A	21	
33	RED	P3-BRASS	C2-H	*A	21	
34	ORN	115V-A	115V-B	21,24	21,24	
34	*14 ORN	115V-C	115V-D	21,24	21,24	
11	-	K1-A	K1-B	45,25	45,25	THYRECTOR(D)
13	-	115V-A	115V-B	*A	*A	RES (R3)
14	-	115V-C	115V-D	37*A	37*A	RES (R1)
14	-	115V-C	115V-D	37*A	37*A	RES (R2)

NOTE: ORIENT PANELS AS SHOWN FOR WIRING.



REV	
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL RS09-0

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

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN	FLANDERS	DATE 10-11-67	digital EQUIPMENT CORPORATION WATUAG MASSACHUSETTS TITLE LINE FILTER & PWR CONT 855 SIZE/CODE D U A NUMBER 855-0-0 REV. A
CHK'D	PEALY	DATE 6-26-69	
ENG	ZNAMIEROWSKI	DATE 1-20-67	
PROJ. ENG.	VONADA	DATE 2-21-69	
PROD.	ANTONUCCIO	DATE 7-27-67	
NEXT HIGHER ASSY			
SCALE	SHEET 2 OF 2		DIST.

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

PACKAGING INSTRUCTION

REV: _____ DATE: _____

TITLE PDP-14 Accessory; MR14 Memory and G924 Module,
MR14B Braids

MATERIAL REQUIREMENTS

Quantity	Identification No.	Purchase Specification	Description
1	16-1108-0708 0500-0	99-05003	Republic Compres-o-Carton complete with EPE foam divider.

PACKAGING INSTRUCTIONS

Procedure for MR14 Memory and G924 Module

Step	Procedure
1	Remove the loose EPE foam divider.
2	Set the MR14 memory into the bottom of the Compres-o-Carton (see Figure 1).
3	Set the foam divider, with "fingers" down, on top of the memory unit.
4	Place the G924 module into the remaining space in the Compres-o-Carton.
5	Close the carton cover and apply a small piece of tape to the lid.

Procedure for MR14B Braid

Step	Procedure
1	Remove the loose foam divider.
2	Set the MR14B braid into the bottom of the Compres-o-Carton.
3	Set the foam divider, with "fingers" down, on top of the MR14B unit.
4	Close the carton cover and apply a small piece of tape to the lid.

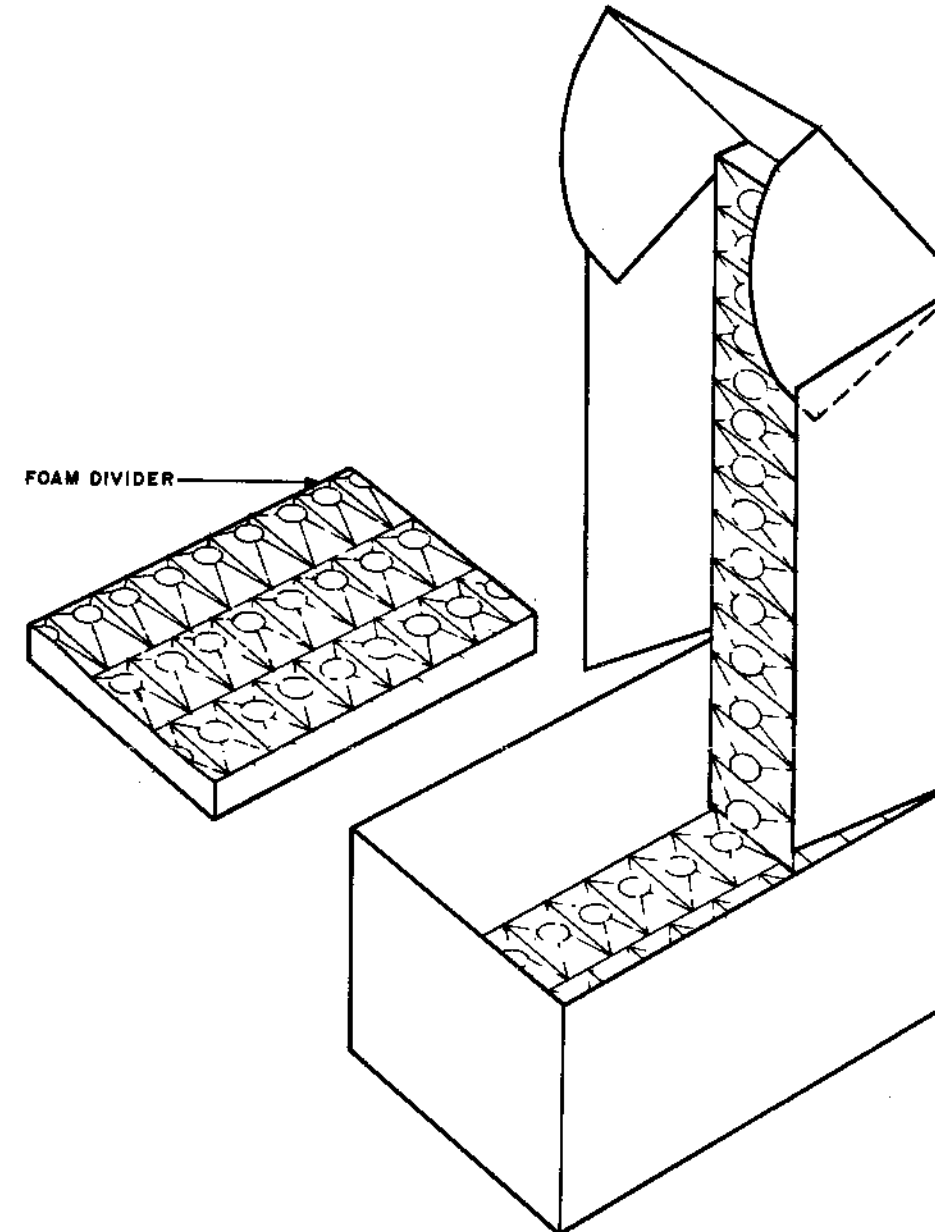
ENG *R. E. Bernier* 8/30/71 APPD *R. E. Bernier* 8/30/71 SIZE **A** CODE **PI** NUMBER 3700004-0-0

PACKAGING INSTRUCTION

REV: _____ DATE: _____

TITLE PDP-14 ACCESSORY; MR14 MEMORY AND G924 MODULE; MR14B BRAIDS

FIGURE 1



NOTE
MAKE CHANGES TO "C" SIZE ORIGINAL ONLY AND REPHOTOGRAPH.

ENG *R. E. Bernier* 8/30/71 APPD *R. E. Bernier* 8/30/71 SIZE **A** CODE **PI** NUMBER 3700004-0

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

PACKAGING INSTRUCTION

TITLE RS08 Cabinet-Mounted Disk
Dry Packaging of Disk Assembly

REV: A DATE: 4/30/70
B 7/10/70

MATERIAL REQUIREMENTS

Quantity	Identification No.	Purchase Specification	Description
1	--	99-05007	RS08 desiccant pan (1)
A/R	--	90-07834	3M Double-sided tape 1/2" wide (Scotch #4032)
1	--	99-05006	Bag of DRIERITE desiccant (3)
1	--	--	Plastic air inlet cap
As required	676	--	PERMACEL silver cloth tape
1	CMD7605746-0-0	--	Shipping bracket
2	90-06073-1	--	10-32 x 1/2 lg. machine screws
2	90-07651	--	External star washers

PACKAGING INSTRUCTIONS

Step	Procedure
1	Install and tighten Disk drive motor lock.
2	Disconnect blue, green, red, yellow, and black Disk drive motor leads.
3	Wrap leads around motor housing, and tape in place as shown in Figure 1.
4	Assemble the shipping bracket to the disk casting. Secure the disk motor to the bracket by using same motor-lock screw provided with motor lock.
5	Thoroughly clean dust and foreign matter from the desiccant pan.
6	Cut four strips of double-sided tape; then place them on the top side of the desiccant pan flange to form a gasket.
7	Place one 8-ounce bag of DRIERITE desiccant into the pan.
8	Remove the remaining backing from the gasket, place the pan over the disk motor, and affix the pan firmly to the disk casting. Be certain to offset the desiccant pan so that it does not interfere with the mercury relay in the logic section.
9	Using PERMACEL silver cloth tape, cut as shown in Figure 1, tape the entire flange area to secure and seal the pan to the disk casting.
10	Remove the air filtration hose, and cap the air access opening to seal the disk from the outside environment.

J. W. Lawrence App. J. W. Lawrence SIZE A CODE PI NUMBER 3700006-0-0

MATERIAL HANDLING INSTRUCTION

REV: B DATE:

TITLE RS08 CABINET-MOUNTED DISK etc.

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

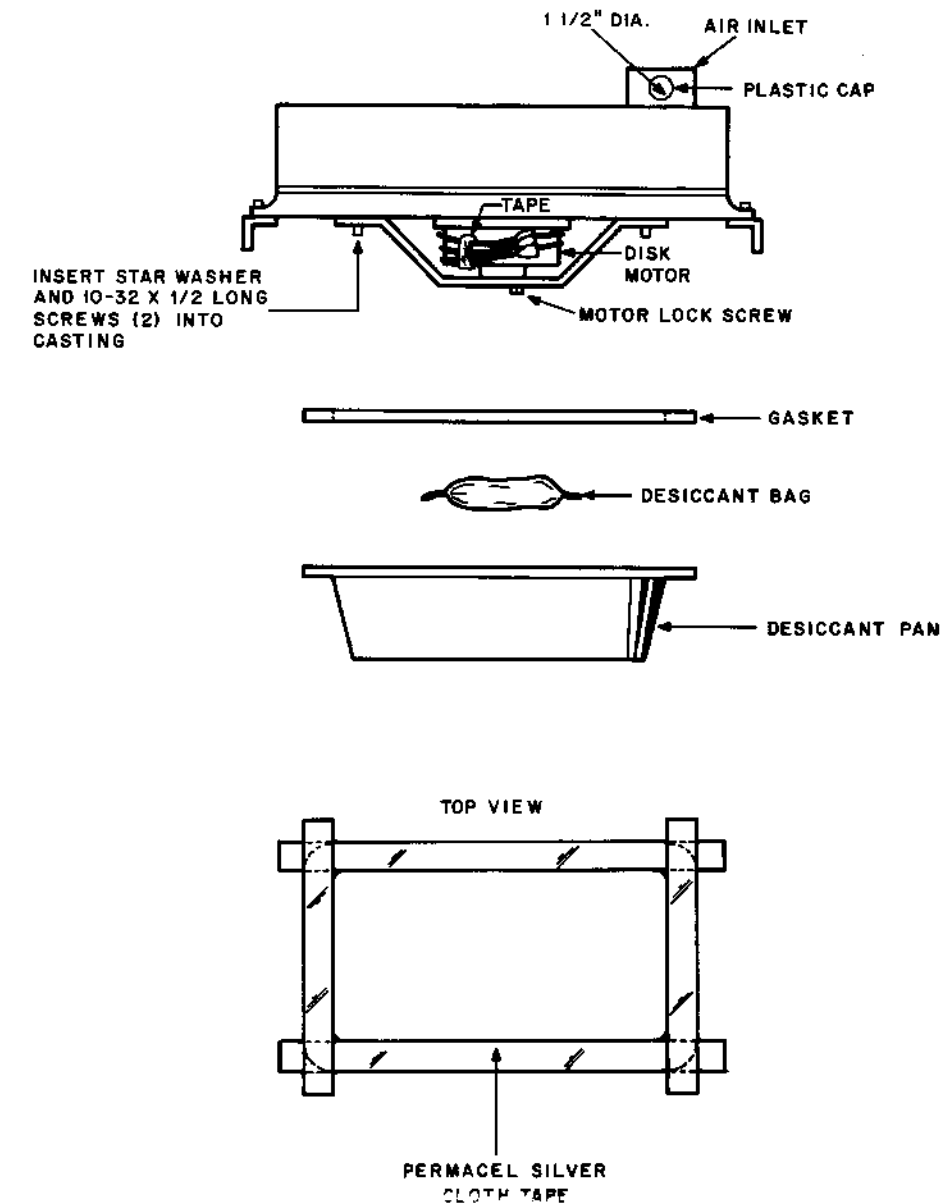
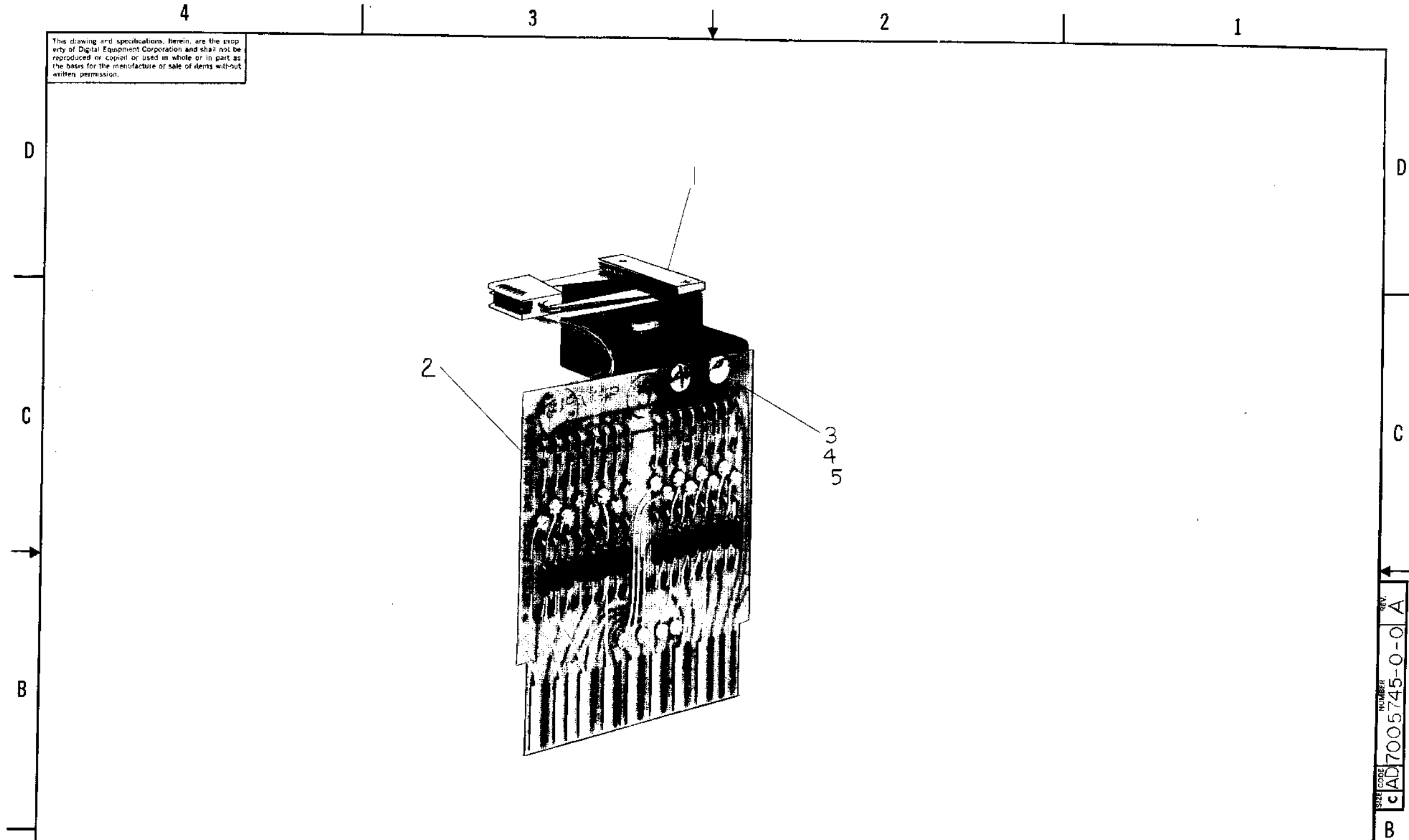


FIGURE 1

ENG. J. W. Lawrence APPD. J. W. Lawrence SIZE A CODE PI NUMBER 3700006-0-0

The drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



REV.	A
CHANGE NO.	RS08-00002
CHK	IRRA MORRIS
DATE	1/3/68
BY	R.W. WILSON

DEC FORM NO. 500

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RS08-M					
UNLESS OTHERWISE SPECIFIED					
UNLESS OTHERWISE SPECIFIED		DRN.	G.F.	DATE	
DIMENSION IN INCHES		R. COOK		2/5/68	
TOLERANCES		CHK'D.	D.H.	DATE	
DECIMALS FRACTIONS ANGLES		J. MOLSHEFSKI		3/6/68	
+ .005 .001 .010 ± .030		ENG.		DATE	
FINISH QUALITY /		K. E. FITZGERALD		4-12-68	
REMOVE BURRS AND BREAK SHARP CORNERS		PROJ. ENG.		DATE	
		S. F. LAMBERT		4-12-68	
MATERIAL		PROD.		DATE	
+ ——— /		R. W. ANTONUCCI		5-12-68	
		NEXT HIGHER ASSY			
FINISH		D-UA-RS08-M-0		SIZE CODE	NUMBER
+ ——— /		SCALE + ——— +		CAD	7005745-0-0
		SHEET 1 OF 1		DIST.	REV. A

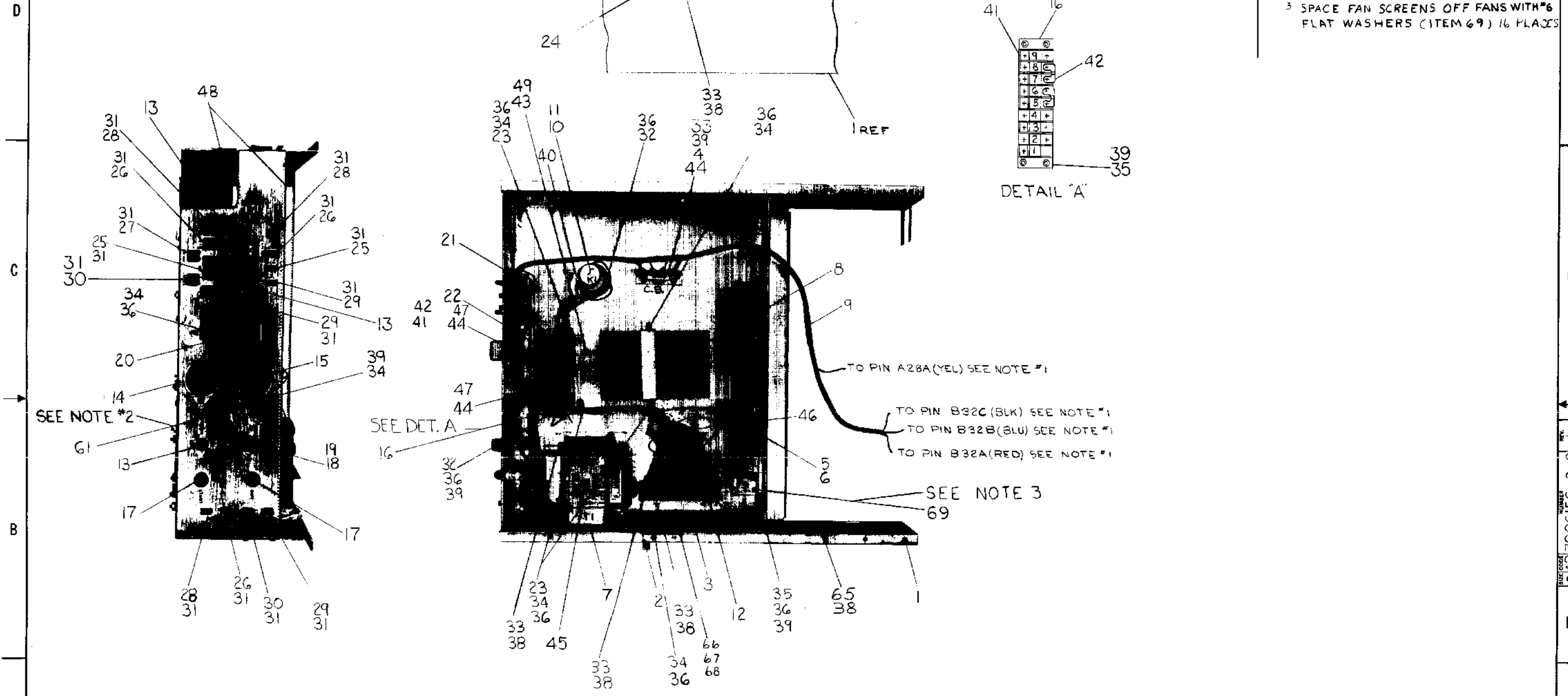
digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

HEAD SHOE ASSY

SIZE CODE NUMBER REV.
CAD7005745-0-0 A

The drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part as the basis for the manufacture or sale of items without written permission.

- NOTES:**
- 1 TAG END OF WIRES AS INDICATED.
 - 2 PLACE PROPER DECAL *A-DC-7406707-0-0 (50 OR 60 HZ) AT TIME OF INSTALLATION IN SYSTEM CABINET AS SHOWN.
 - 3 SPACE FAN SCREENS OFF FANS WITH *6 FLAT WASHERS (ITEM 69) 16 PLACES



REV.	CHANGE NO.	DATE	BY	CHKD.
1	RS08-00002			
2	RS08-00007	6/9/69		
3	RS08P-00004			
4	RS08P-00005			
5	RS08P-00006			
6	RS08P-00007			
7	RS08P-00008			
8	RS08P-00009			

REV.	CHANGE NO.	DATE	BY	CHKD.
1	RS08-P			
2	RS08-P			
3	RS08-P			
4	RS08-P			
5	RS08-P			
6	RS08-P			
7	RS08-P			
8	RS08-P			

UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	
TOLERANCES	ENG.	DATE	
DECIMALS FRACTIONS ANGLES	PROL ENG	DATE	
±.005 ±.004 ±.030	PROD.	DATE	TITLE CHASSIS ASSY W/O LOGIC
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS			SIZE CODE D AD 7006156-0-0
MATERIAL	FIRST VERSION		NUMBER 1 OF 2
FINISH	SCALE		REV. J
	SHEET		DIST.

DEC 7006156-0-0 J

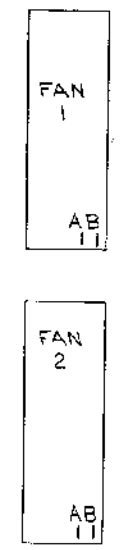
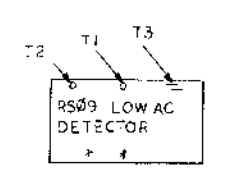
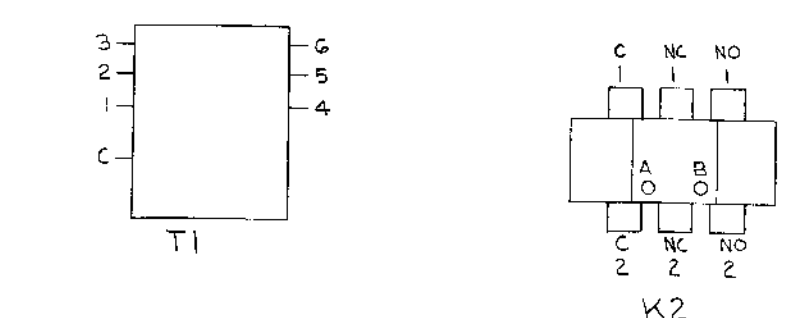
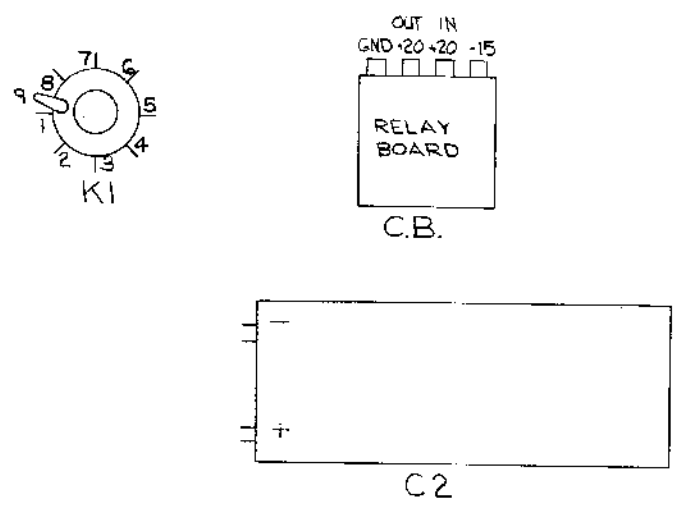
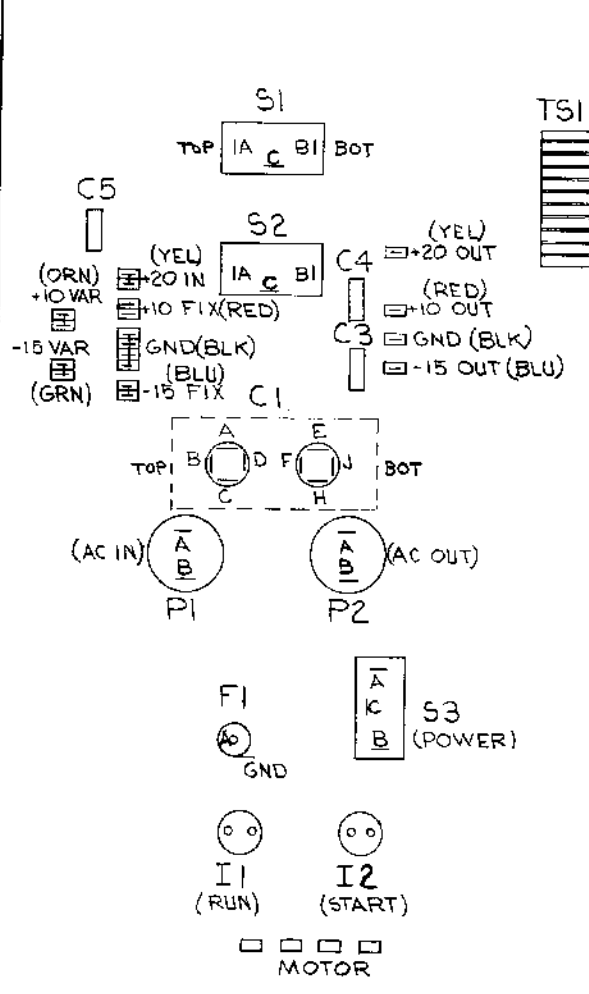
This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

0-0-9919002012

WIRE TABLE

ITEM NO	DESCRIPTION	CONNECTIONS FROM	TO	EQUIP FROM WITH ITEMS	EQUIP TO WITH ITEMS
51	18 RED	T1-	3 TSI-	8 *A	44,47
56	WHT	T1-C	TSI-	6 *A	44,47
52	ORN	T1-G	TSI-	9 *A	44,47
57	GRY/RED	K2-NC-1	K1-	2	
66	RES R1	K2-NC-1	K2-NO-1	*A	*A
58	GRY/GRN	K2-C-1	K2-	B	46
58	GRY/GRN	RS09-T3	K1-	7 43,47	*A
59	GRY/WHT	RS09-T1	K1-	3 46	*A
59	GRY/WHT	K2	A C1-	F 46	44,47
52	ORN	K2-NO-2	TSI-	9	44,47
51	RED	K2-NC-2	TSI-	7	44,47
51	RED	TSI-	7 K1-	5 44,47	*A
51	RED	K2-NC-2	K2-C-2		
60	RED	FAN-1-A	FAN-2-A	*A,47	*A,47
60	WHT	FAN-1-B	FAN-2-B	*A,47	*A,47
60	RED	FAN-1-A	TSI-	8 *A,47	44,47
60	WHT	FAN-1-B	TSI-	6 *A,47	44,47
53	YEL	C2+	MOTOR-YEL	43,47	*A
51	RED	C2-	MOTOR-RED	43,47	*A
57	GRY/RED	C2-	K1-	2 43,47	*A
50	BLK	C.B.-GND	GND	44,47	*A
50	BLK	C.B.-GND	SEE NOTE 1	44,47	*A
53	YEL	C.B.-OUT+20	+20 OUT	44,47	*A
53	YEL	C.B.-OUT+20	SEE NOTE 1	44,47	*A
53	YEL	C.B.-IN+20	+20 IN	44,47	*A
55	BLU	C.B.-(-)15	SEE NOTE 1	44,47	*A
55	BLU	C.B.-(-)15	-15 OUT	44,47	*A
50	18 BLK	K1-	1 K1-	9 *A	*A
-	RED	I1(RUN)	F1- GND		*A
-	BLK	I1(RUN)	MOTOR-GRN		*A
-	RED	I2(START)	MOTOR-RED		*A
-	BLK	I2(START)	MOTOR-GRN		*A
56	18 WHT	MOTOR-GRN	TSI-	6 *A	*A
51	RED	F1- GND	TSI-	8 *A	*A
51	RED	F1- A	S3-C(POWER)	*A	*A
51	RED	S3- B	C1- D	*A	43,47
56	WHT	P1-A(BRASS)	P2-A(BRASS)	*A	*A
51	RED	P2-A(BRASS)	TSI-	3 *A	*A
56	WHT	P2-B(TIN)	TSI-	1 *A	*A
63	RED	C1- B	TSI-	3 44,47,22	44,47,22
62	WHT	C1- E	TSI-	1 44,47,22	44,47,22
56	WHT	C1- J	TSI-	G 43,47	*A
54	GRN	S2- A	-15 VAR	*A	*A
55	BLU	S2- B	-15 FIX	*A	*A
55	BLU	S2- C	-15 OUT	*A	*A
52	ORN	S1- A	+10 VAR	*A	*A
51	RED	S1- B	+10 FIX	*A	*A
51	RED	S1- C	+10 OUT	*A	*A
21	CAP	C3	-15 OUT	*A,64	*A
21	CAP	C4	GND	*A,64	*A
21	CAP	C4	GND	*A,64	*A
21	CAP	C4	+10 OUT	*A,64	*A
21	CAP	C5	+20 IN	*A,64	*A
21	CAP	C5	GND	*A,64	*A
51	RED	C.B.-(-)10 OUT	SEE NOTE 1	*A	*A
50	18 BLK	GND	GND	*A	*A
56	18 WHT	MOTOR-BLU	MOTOR-GRN	*A	*A

TWP
TWP
TWP



** MOUNT ON K2, T2 TO A & T1 TO B
* LETTER DESIGNATION "A" INDICATES WIRE IS TO BE SOLDERED PER ABOVE TABLE

REV	
CHANGE NO.	
CHK	

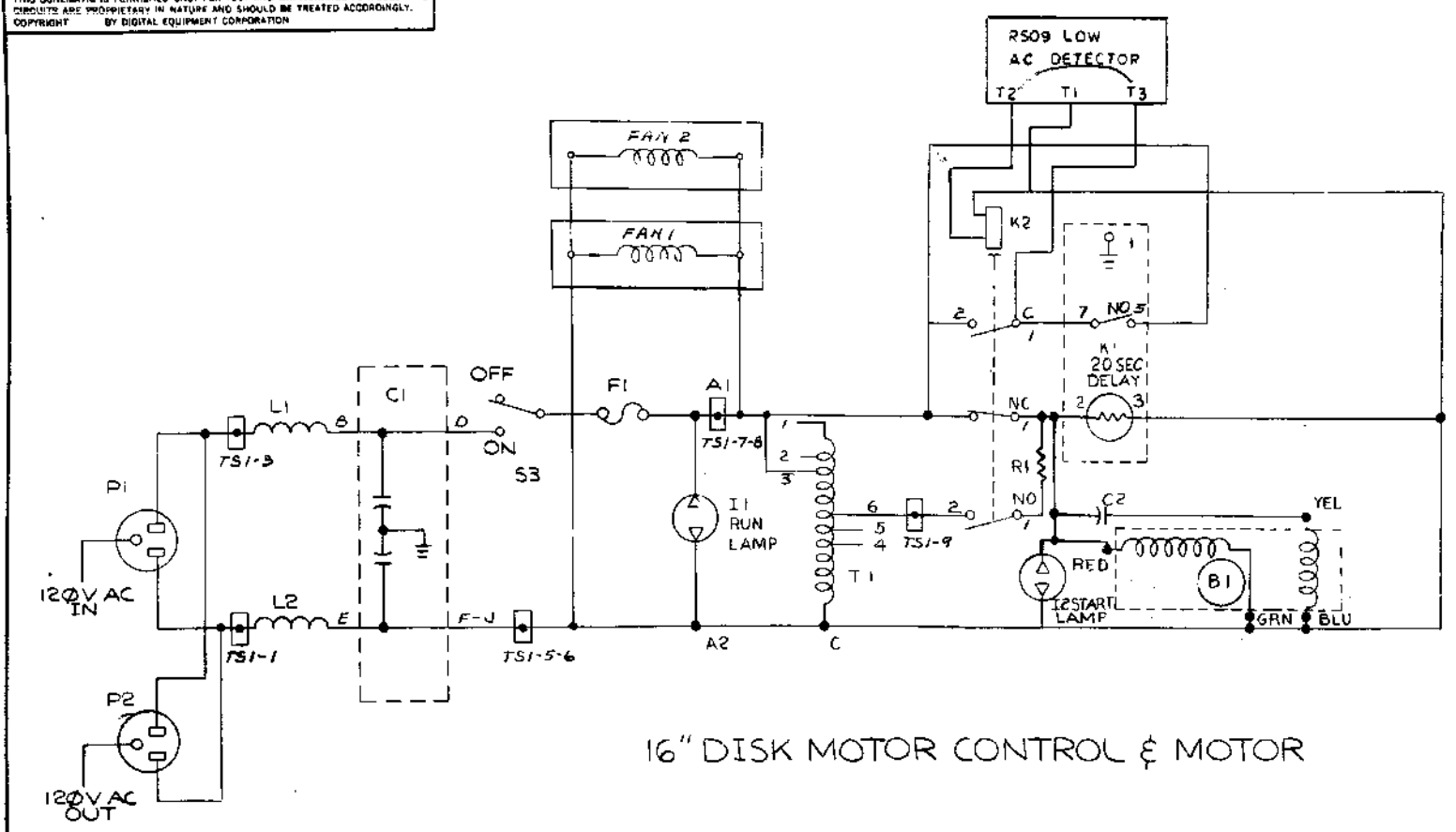
UNLESS OTHERWISE SPECIFIED	DRN	DATE	9/17/69
UNLESS OTHERWISE SPECIFIED	CHK	DATE	9/17/69
DIMENSION IN INCHES	ENG	DATE	9/17/69
TOLERANCES	PROJ ENG	DATE	9/17/69
DECIMALS FRACTIONS ANGLES	PROD	DATE	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL	FIRST USED ON		
FINISH	SCALE		
	SHEET	2 OF 2	

DESCRIPTION	PART NO	ITEM NO
CHASSIS ASSY W/O LOGIC		
SIZE CODE	NUMBER	REV
DAD7006156-0-0		
DIST		

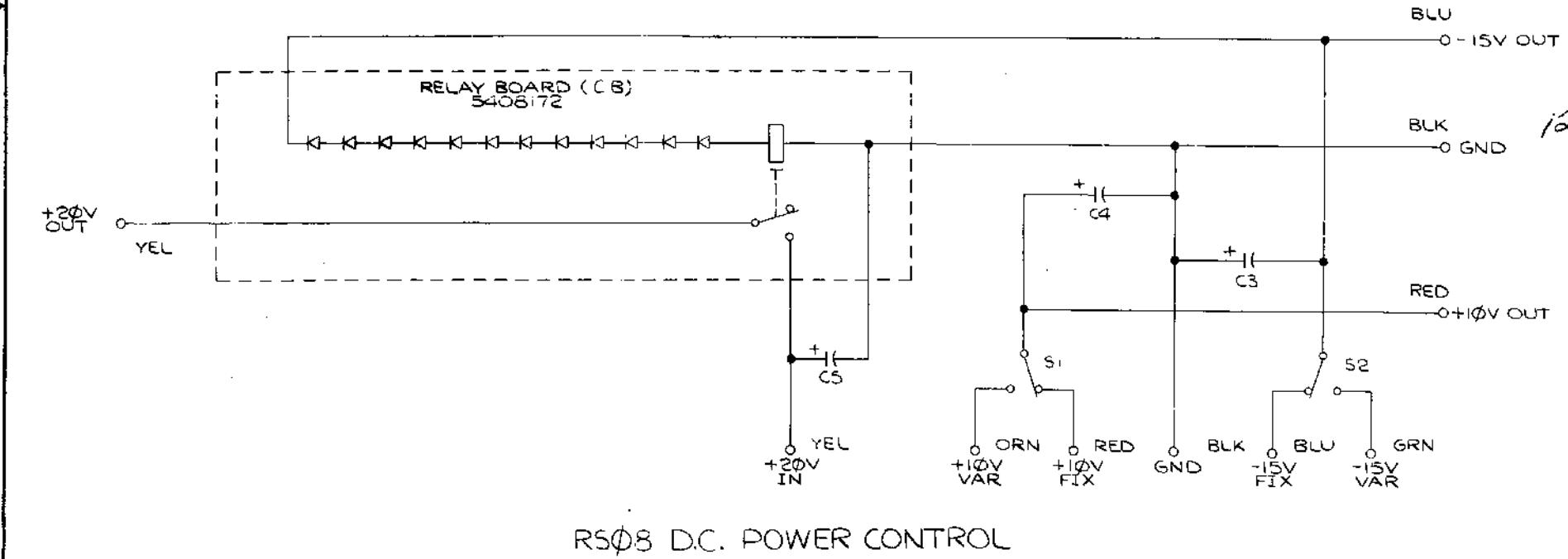
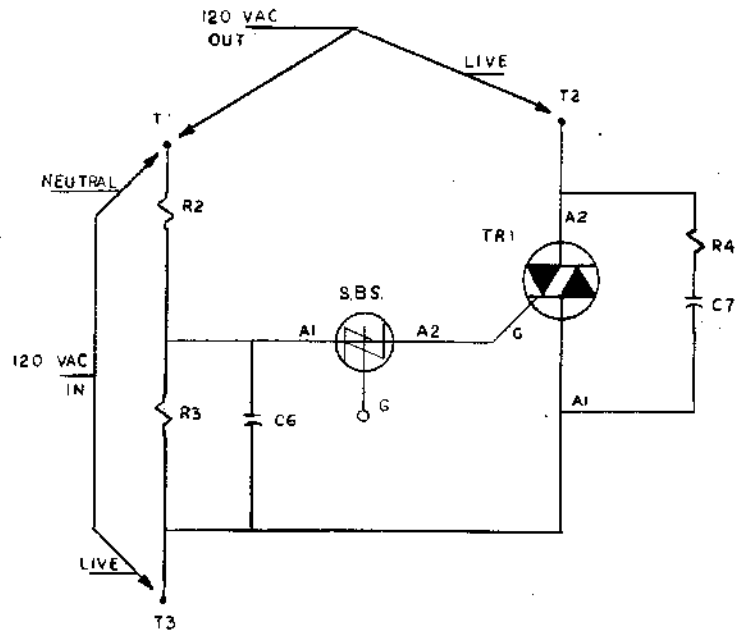
NUMBER DAD7006156-0-0

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

1-0-951900Z SO D



16" DISK MOTOR CONTROL & MOTOR



RS08 D.C. POWER CONTROL

REF DESIGNATION	DESCRIPTION	PART NO.
RS09 LOW AC DET	MODULE	5409920
RS09 LOW AC DET	CIRCUIT BOARD	5009919
R2	RES 5K 3.5W 5%	1310911
R3	RES 360Ω 1/2W 5%CC	1302383
R4	RES 10K 1/4W 5%CC	1300479
C6	CAP 1MFD 100V 20%	1000030
C7	CAP .033MFD 100V 10%	1000050
SBS	2N4992 TRIAC TRIGGER	1510910
TR1	TRIAC DEC 40669	1510070
FAN1, FAN2	FAN, MUFFIN ROTRON	1205033
TS1	TERM STRIP #3-540 BUNCH JONES	9006912
R1	RES 1.5Ω .55W	1302702
C1	CAP 2.1MFD 600VDC	1002153
C2	CAP 30MFD 370V	1009122
C3,C4,C5	CAP 50MFD 50V	1000080
K1	TIMING RELAY	1209121
K2	EBERT RELAY	1209491
B1	MOTOR 50 HZ	1209003-21
B1	MOTOR 60 HZ	1209003-20
I1,I2	LIGHT PILOT 110V	1205458
T1	2:1 AUTO XMFR	1609313
S1,S2,S3	SWITCH SPDT	1202279
L1,L2	TUBE FERROXCUBE	1605147
F1	7AMP S.B. FUSE	9007224
CB	RELAY BOARD	5408172
P1	SOC 3 PIN AC MALE	1201252
P2	SOC 3 PIN FEMALE	1201251

PARTS LIST

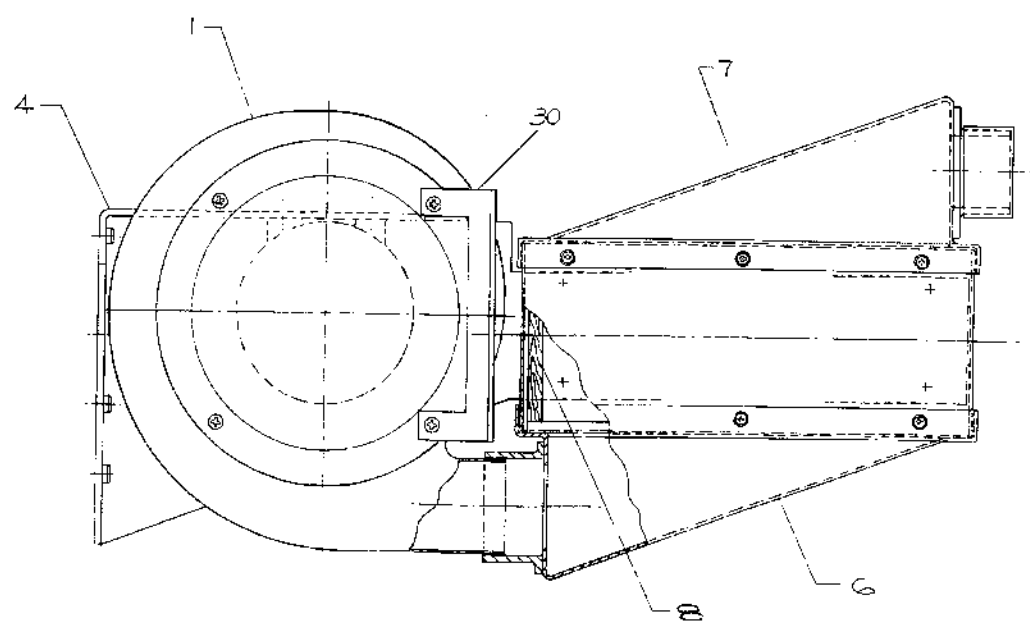
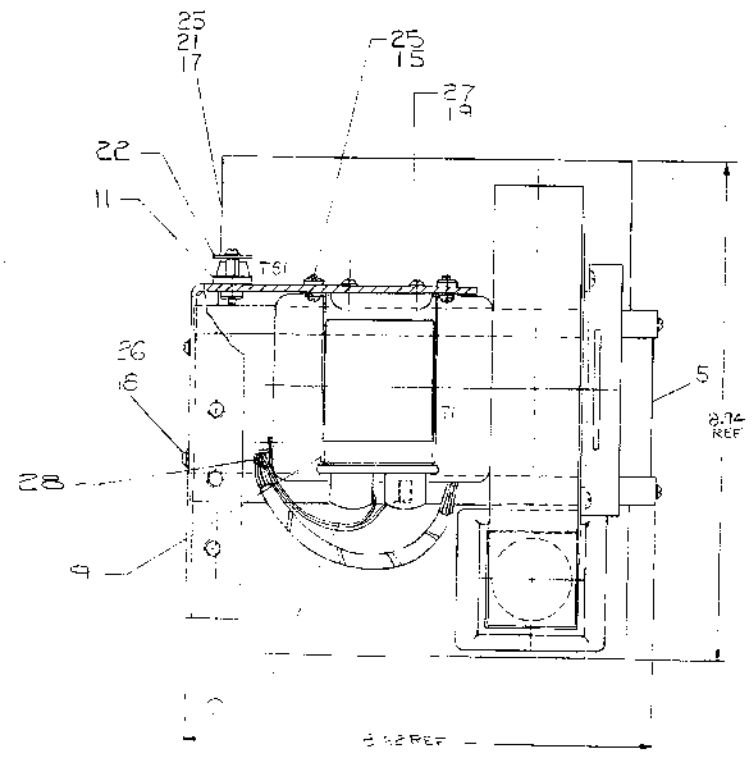
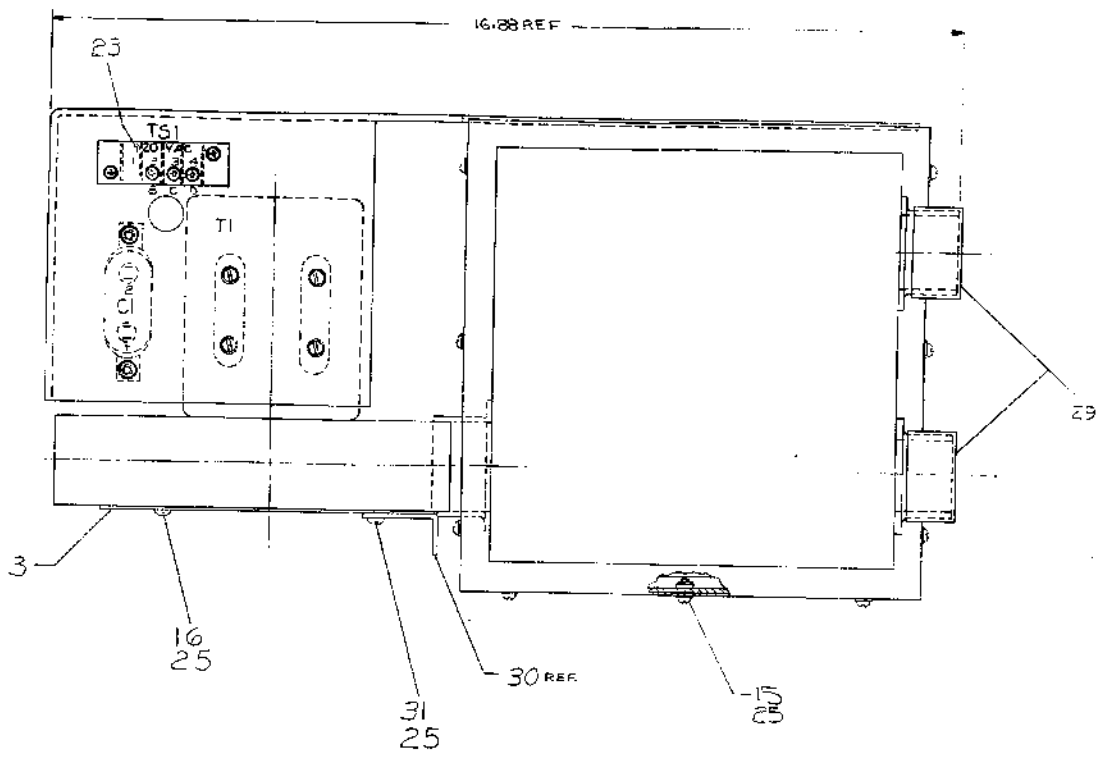
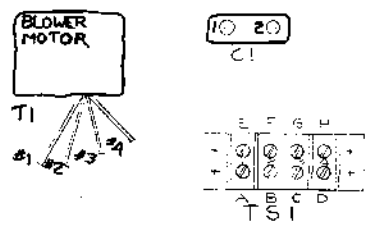
REV	DATE	BY	CHKD
1			

DATE	DATE
12-10-68	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
 TITLE: POWER CONTROL AND MOTOR CONTROL
 NUMBER: D CS 7006156-0-1
 PRINTED CIRCUIT REV

ITEM NO	DESCRIPTION	COLOR	CONNECTIONS		EQUIP. PART NO.	EQUIP. TO
			FROM	TO			WITH ITEMS	WITH ITEMS
12	RED	C1-2	TS1-4		13 20	14
1	WHT	Q1-1	TS1-3C		13 20	14
1	GRN	T1-1	TS1-2B		24	14
1	BLU	T1-2	TS1-2B		24	14
1	WHT	T1-3	TS1-3C		24	14
1	RED	T1-4	TS1-4D		24	14



1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES.
 2. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.
 3. DIMENSIONS IN BRACKETS ARE FOR INFORMATION ONLY.
 4. DIMENSIONS IN SQUARE BRACKETS ARE FOR INFORMATION ONLY.
 5. DIMENSIONS IN CIRCLES ARE FOR INFORMATION ONLY.
 6. DIMENSIONS IN TRIANGLES ARE FOR INFORMATION ONLY.
 7. DIMENSIONS IN DIAMOND SHAPES ARE FOR INFORMATION ONLY.
 8. DIMENSIONS IN PARALLELOGRAMS ARE FOR INFORMATION ONLY.
 9. DIMENSIONS IN OVALS ARE FOR INFORMATION ONLY.
 10. DIMENSIONS IN OTHER SHAPES ARE FOR INFORMATION ONLY.

TOLEANCE	DECIMALS
XX	± .005
XX	± .002
X	± .001

REV.	DESCRIPTION	DATE	BY	CHKD.
1	ISSUED FOR PRODUCTION	10/23/49		
2	REVISED	11/15/49		
3	REVISED	12/15/49		
4	REVISED	1/15/50		
5	REVISED	2/15/50		
6	REVISED	3/15/50		
7	REVISED	4/15/50		
8	REVISED	5/15/50		
9	REVISED	6/15/50		
10	REVISED	7/15/50		
11	REVISED	8/15/50		
12	REVISED	9/15/50		
13	REVISED	10/15/50		
14	REVISED	11/15/50		
15	REVISED	12/15/50		

EQUIPMENT CORPORATION
 BLOWER FILTER ASSY (RS09)
 PART NO. 1006255-0-0
 SCALE 1:1
 SHEET 1 OF 1

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST

MADE BY WM. HENDRICKS
 DATE 3/22/69
 ENG *Wm Hendricks*
 DATE 6/10/69

CHECKED D. HEALY
 DATE 4/22/69
 PROD *D. Healy*
 DATE *4/22/69*

SECTION 1
 ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
1	1209389-1	BLOWER 115V 50/60 HZ # EC2918B TMC MAGNETICS CORP	1
2	9-MD-7407181-0-0	SCREEN, PREFILTER	
3	B-MD-7407182-0-0	SCREEN, PREFILTER	1
4	D-IA-7407237-0-0	PLATE, MTG SIDE	1
5	D-IA-7407236-0-0	CONTAINER, FILTER	1
6	C-IA-7407503-0-0	FILTER COVER ASSY (BLOWER)	1
7	C-IA-7407504-0-0	FILTER COVER ASSY (DOUBLE)	1
8	1209388	AIR FILTER ABSOLUTE CAMBRIDGE MODEL # 16-25-2	1
9	1009397	CAPACITOR MOTOR RUN 5 MFD 370 VAC (CORNELL DUBLER)	1
10	9006901	CAP, CAPACITOR #41611 ACME TERM STRIP BARRIER #4-140 CINCH JONES	2
12	9107430-29	#18 AWG TEF INS. TWPR RED/WHT	1/R
13	9006998	CONN, FLAG #41898 AMP INC	2
14	9006780	CONN, SOLDERLESS #34144 AMP INC	6
15	9006022-1	SCR PH HD PAN 6-32 x 3/8 SST	26
16	9006025-1	SCR PH HD PAN 6-32 x 5/8 SST	2
17	9006028-1	SCR PH HD PAN 6-32 x 1" SST	2
18	9006021-1	SCR PH HD PAN 6-32 x 5/16 SST	4
19	9006071-1	SCR PH HD PAN 10-32 x 3/8 SST	4
20	9107305	HY SHRINK TUBING 3/16 DIA x 9/16 RED	2
21	9006800	SPACER 1/4 HEX x 1/4 LG #6 CL HOLE	2

TITLE BLOWER FILTER ASSY (RS09)
 ASSY NO. E-AD-7006255-0-0
 SIZE CODE A PL
 NUMBER 7006255-0-0
 DIST. G

REV. ECO NO. C RS09-00019

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST

MADE BY WM. HENDRICKS
 DATE 3/22/69
 ENG *Wm Hendricks*
 DATE 6/10/69

CHECKED D. HEALY
 DATE 4/22/69
 PROD *D. Healy*
 DATE *4/22/69*

SECTION 1
 ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
22	B-100204	PROT PLATE (140 TERM STRIP) 4 TERM	1
23		DECAL (120 VAC)	1
24	9107240	SPIRAL WRAP 1/4 O.D. x 7" LG	1
25	9006633	WASH INT TOOTH LOCK #6	32
26	9006634	WASH INT TOOTH LOCK #8	4
27	9006635	WASH INT TOOTH LOCK #10	4
28	9007081	CLAMP, CABLE 1/4 WHT NYLON HOLUB	1
29	9006940	CAP, TUBE	2
30	C-MD-7409014-0-0	FILTER FRAME RETAINER	1
31	9006025-2	SCR PHL HD FLAT 6-32 X 5/8	2

REV. ECO NO. C RS09-00019

TITLE BLOWER FILTER ASSY (RS09)
 ASSY NO. E-AD-7006255-0-0
 SIZE CODE A PL
 NUMBER 7006255-0-0
 DIST. G

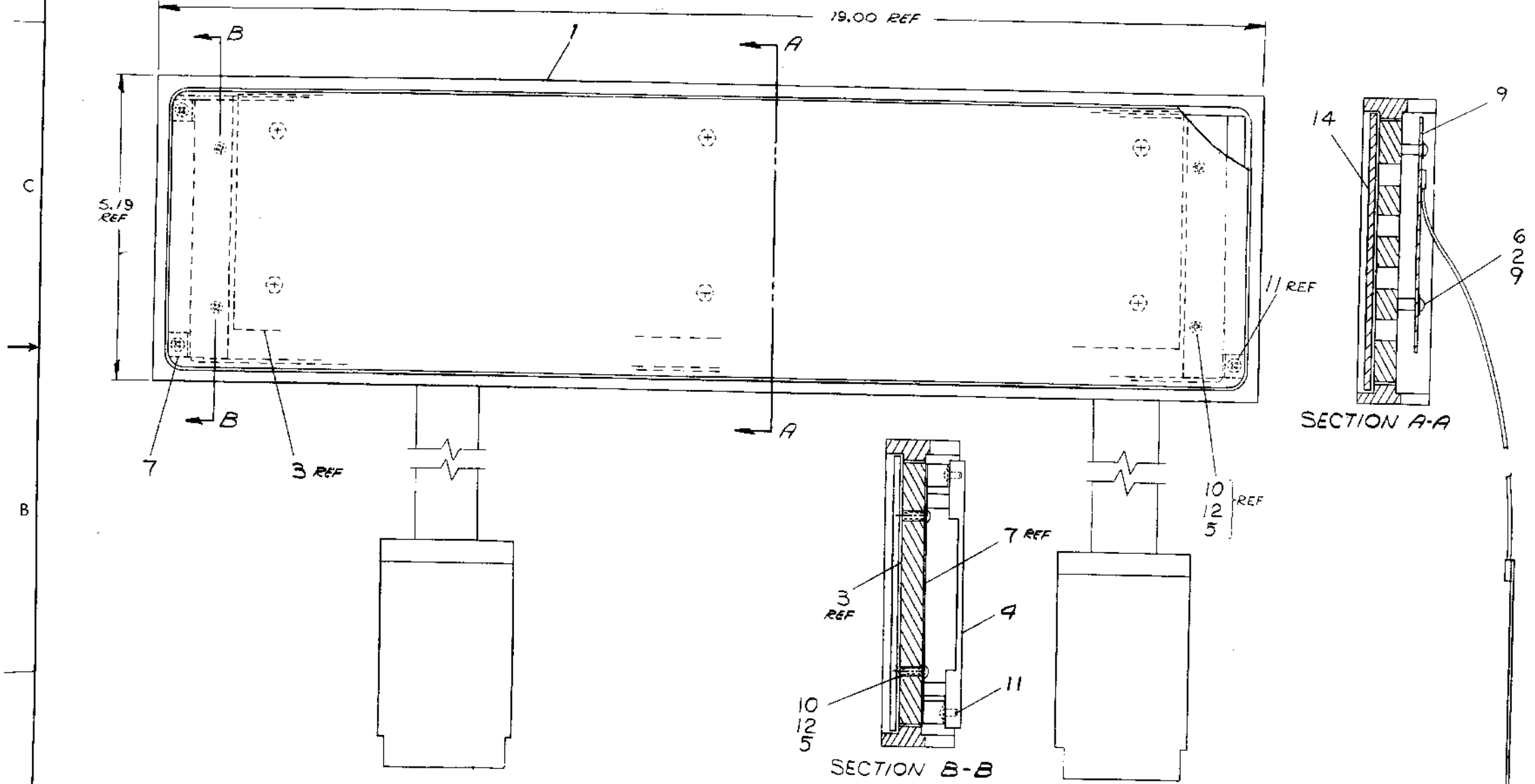
REV. ECO NO. C

This drawing and specifications are the property of Digital Equipment Corporation and shall not be reproduced or copied in any form without the express written permission of Digital Equipment Corporation, 1972

8
0-0-122900/0A 2
138888 30003216

LEGEND	NUMBER	ASSY NO
	7006331-1	D-VA-RF09-0-0
	7006331-2	D-VA-V715-A-0
	7006331-3	D-VA-V715-B-0
	7006331-4	D-VA-RK08-0-0
	7006331-5	D-VA-H963-F-0
	7006331-6	D-VA-TC08-0-0
	7006331-7	NOT USED
	7006331-B	NOT USED
	7006331-9	D-VA-H963-F-0
	7006331-10	D-VA-H963-M-0
	7006331-11	D-VA-RP15-0-0
	7006331-12	D-VA-RP15-0-0
	7006331-13	D-VA-RP11-0-0
	7006331-14	D-VA-DX38-0-0
	7006331-15	D-VA-BD15-0-0
	7006331-16	D-VA-RP11-0-0
	7006331-17	D-VA-7605-95-0-0
	7006331-18	D-VA-DA26-0-0
	7006331-19	D-VA-7005-07-0-0
	7006331-20	D-VA-H963-F-0
	7006331-21	D-VA-7605-95-0-0
	7006331-22	D-VA-7605-95-0-0
	7006331-23	D-VA-7605-95-0-0
	7006331-24	D-VA-DA28-0-0
	7006331-25	D-VA-DA28-0-0
	7006331-26	A-ML-760612-0
	7006331-27	D-VA-DX11-B
	7006331-28	D-VA-TC10-C
	7006331-29	D-VA-D532-0-0
	7006331-30	D-VA-RP11-0-0

NOTES:
 1 REMOVE ENERGY DIRECTORS (PLASTIC PROTRUSIONS) FROM BEZEL (ITEM 1) BY SCRAPING WITH PAINT SCRAPER. SECURE INLAY (ITEM 13) TO BEZEL (ITEM 1) WITH STRUCTURAL ADHESIVE (ITEM 8) USING EQUAL PARTS OF 2216A & 2216B. CARE MUST BE TAKEN NOT TO ALLOW ADHESIVE TO SHOW ON FRONT SIDE OF INDICATOR PANEL.



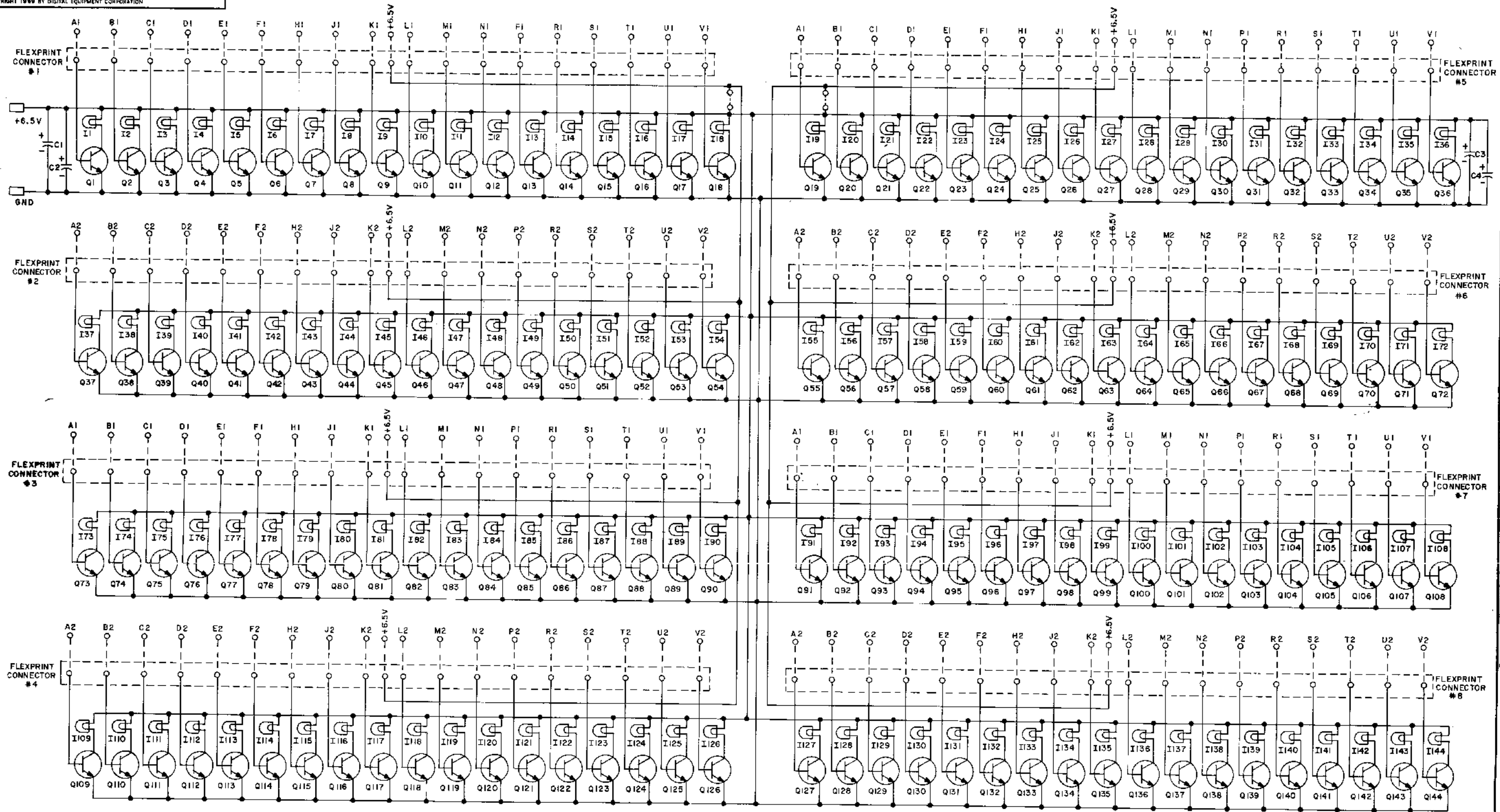
REV	NO	DESCRIPTION	DATE
1	0001	REVISED - REDRAWN	5-11-69
2	0002	REVISED - REDRAWN	5-11-69
3	0003	REVISED - REDRAWN	5-11-69
4	0004	REVISED - REDRAWN	5-11-69
5	0005	REVISED - REDRAWN	5-11-69
6	0006	REVISED - REDRAWN	5-11-69
7	0007	REVISED - REDRAWN	5-11-69
8	0008	REVISED - REDRAWN	5-11-69
9	0009	REVISED - REDRAWN	5-11-69
10	0010	REVISED - REDRAWN	5-11-69
11	0011	REVISED - REDRAWN	5-11-69
12	0012	REVISED - REDRAWN	5-11-69
13	0013	REVISED - REDRAWN	5-11-69
14	0014	REVISED - REDRAWN	5-11-69
15	0015	REVISED - REDRAWN	5-11-69
16	0016	REVISED - REDRAWN	5-11-69
17	0017	REVISED - REDRAWN	5-11-69
18	0018	REVISED - REDRAWN	5-11-69
19	0019	REVISED - REDRAWN	5-11-69
20	0020	REVISED - REDRAWN	5-11-69
21	0021	REVISED - REDRAWN	5-11-69
22	0022	REVISED - REDRAWN	5-11-69
23	0023	REVISED - REDRAWN	5-11-69
24	0024	REVISED - REDRAWN	5-11-69
25	0025	REVISED - REDRAWN	5-11-69
26	0026	REVISED - REDRAWN	5-11-69
27	0027	REVISED - REDRAWN	5-11-69
28	0028	REVISED - REDRAWN	5-11-69
29	0029	REVISED - REDRAWN	5-11-69
30	0030	REVISED - REDRAWN	5-11-69
31	0031	REVISED - REDRAWN	5-11-69
32	0032	REVISED - REDRAWN	5-11-69
33	0033	REVISED - REDRAWN	5-11-69
34	0034	REVISED - REDRAWN	5-11-69
35	0035	REVISED - REDRAWN	5-11-69
36	0036	REVISED - REDRAWN	5-11-69
37	0037	REVISED - REDRAWN	5-11-69
38	0038	REVISED - REDRAWN	5-11-69
39	0039	REVISED - REDRAWN	5-11-69
40	0040	REVISED - REDRAWN	5-11-69
41	0041	REVISED - REDRAWN	5-11-69
42	0042	REVISED - REDRAWN	5-11-69
43	0043	REVISED - REDRAWN	5-11-69
44	0044	REVISED - REDRAWN	5-11-69
45	0045	REVISED - REDRAWN	5-11-69
46	0046	REVISED - REDRAWN	5-11-69
47	0047	REVISED - REDRAWN	5-11-69
48	0048	REVISED - REDRAWN	5-11-69
49	0049	REVISED - REDRAWN	5-11-69
50	0050	REVISED - REDRAWN	5-11-69

QTY	DESCRIPTION	PART NO.	ITEM NO.
	PARTS LIST		
	EQUIPMENT CORPORATION		
	INDICATOR PANEL ASSY		
	DAD7006331-0-0		
	AB		

DAD7006331-0-0 AB

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.

D 1-0-558458-01



UNLESS OTHERWISE INDICATED:
 TRANSISTORS ARE DEC3009B
 ○-○ INDICATES JUMPER
 CAPACITORS ARE 39MFD 10V 10%
 LAMPS ARE 1209219

REV. 10/69 CS 5408458-01

REVISIONS	DATE	BY

ORN	DATE	BY

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		

digital
EQUIPMENT CORPORATION

TITLE PERIPHERAL INDICATOR
 PANEL 5408458
 SIZE CODE NUMBER
 D CS 5408458-01 REV P