

**RF11/RS11
DECdisk system
engineering drawings**

RF11/RS11 DECdisk System

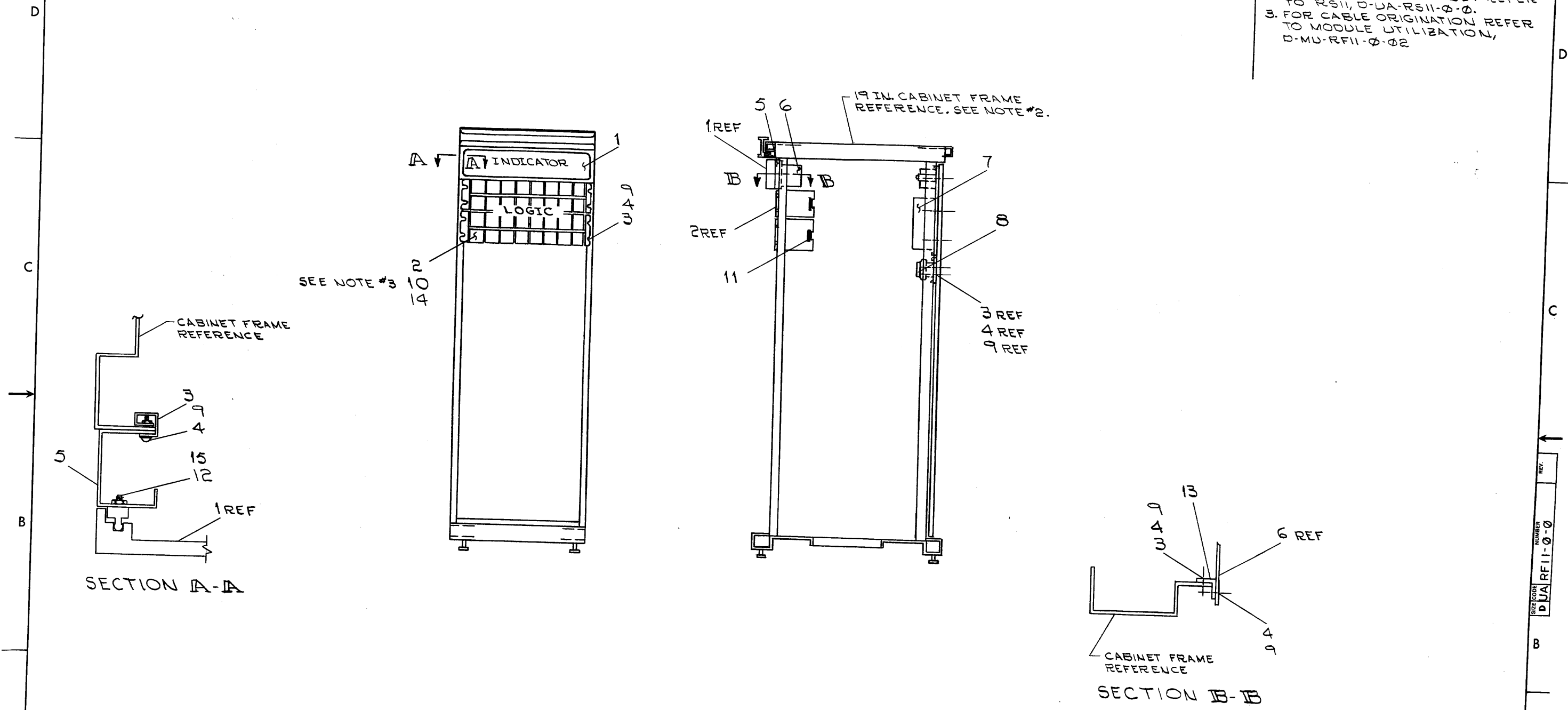
Engineering Drawings

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

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REV. NUMBER 0-0-1113 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 ORIGINATION REFER TO MODULE UTILIZATION, D-MU-RF11-0-02



REV. NO.	
CHANGE NO.	
CHK	

DEC FORM NO. DRD 100

FIRST USED ON OPTION/MODEL
RF 11

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
PERMITS FINISH TO 0.005
ANGLES TO 0.030
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN: <i>[Signature]</i> DATE: <i>3/20/70</i> CHK'D: <i>[Signature]</i> DATE: <i>7/24/70</i> ENG: <i>[Signature]</i> DATE: <i>7/24/70</i> PROD. ENG.: <i>[Signature]</i> DATE: <i>7/24/70</i> PROD.: <i>[Signature]</i> DATE: <i>7/24/70</i>		digital EQUIPMENT CORPORATION <small>MAYHARD, MASSACHUSETTS</small>	
DEC DISK CONTROL (RF11)			
NEXT HIGHER ASSY D-UA-RS11-0-0		SIZE CODE DUA RF11-0-0	NUMBER REV.
SCALE NONE		DIST.	
SHEET OF			

REV. NUMBER 0-0-1113-0-0

SIZE CODE DUA RF11-0-0

A

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY P. J. LeBlanc	CHECKED <i>R. Call</i>	SECTION
DATE 9-8-70	DATE 10/5/70	
ENG <i>S. Eiksen</i>	PROD <i>R. Call</i>	ISSUED SECT.
DATE 10/2-70	DATE 10/5/70	

QUANTITY / VARIATION

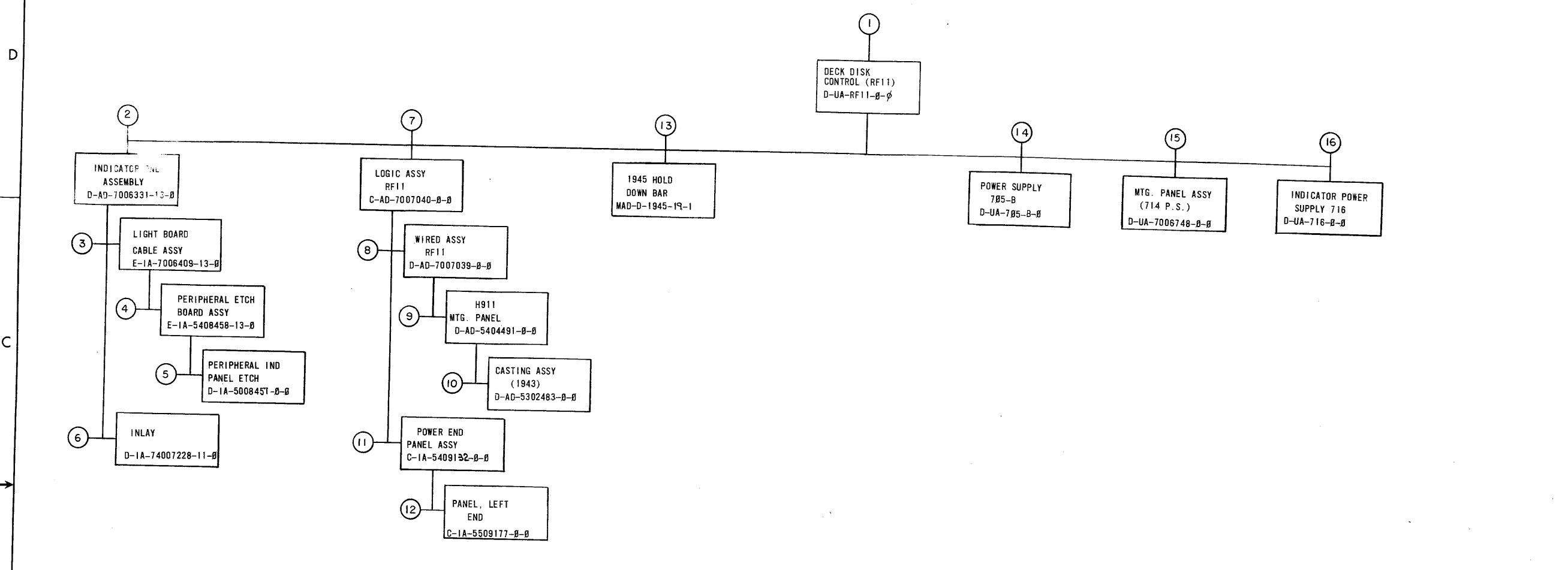
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY	UNIT	REMARKS	OTHER	REVISION	DATE
1	D-AD-7006331-13-0	INDICATOR PANEL ASSEMBLY	1					
2	C-AD-7007040-0-0	LOGIC ASSY (RF11)	1					
3	9007786	NUT, TINNERMAN #C31758-1032-27	30					
4	9006073-3	SCR PHL HD TRUSS #10-32X 1/2 LG SST	30					
5	C-IA-7407488-0-0	BEZEL STANDOFF	2					
6	D-AD-7006748-0-0	MTG PANEL ASSY, 714P.S.	1					
7	D-UA-705-B-0	705B POWER SUPPLY	1					
8	D-UA-716-0-0	INDICATOR POWER SUPPLY, 716	1					
9	9007651	WASHER EXT TOOTH #10	30					
10	D-UA-BC11A-8-0	CABLE, BC11A	1					
11	D-MAD-1945-19-1	1945 HOLD DOWN BAR	1					
12	9006073-2	SCR PHL HD FLAT #10-32 X 1/2 LG SST	4					
13	C-IA-7407337-0-0	BRACKET, MOUNTING	2					
14	C-SC-1209856-0-01	MODULE HOLDER	8					
15	9006565,	NUT, KEPS #10-32	4					

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
DEC DISK CONTROL (RF11)	D-UA-RF11-0-0	A	PL	RF11-0-0		
	SHEET 1 OF 1	DIST.	6			

DEC FORM NO.16-1031
DRA 110

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SIZE CODE NUMBER
D DI RF11-0-1 2



REV. NO.	CHANGED BY	DATE	DESCRIPTION
1	ERIKSE	10/10/70	INITIAL
2	ERIKSE	10/10/70	INITIAL
3	ERIKSE	10/10/70	INITIAL
4	ERIKSE	10/10/70	INITIAL
5	ERIKSE	10/10/70	INITIAL
6	ERIKSE	10/10/70	INITIAL
7	ERIKSE	10/10/70	INITIAL
8	ERIKSE	10/10/70	INITIAL
9	ERIKSE	10/10/70	INITIAL
10	ERIKSE	10/10/70	INITIAL
11	ERIKSE	10/10/70	INITIAL
12	ERIKSE	10/10/70	INITIAL
13	ERIKSE	10/10/70	INITIAL
14	ERIKSE	10/10/70	INITIAL
15	ERIKSE	10/10/70	INITIAL
16	ERIKSE	10/10/70	INITIAL

FIRST USED ON OPTION/MODEL RF 11		DO NOT SCALE DRAWING		DRG. NO. 105-300		DATE 10/10/70	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		TOLERANCES		CHK'D. [Signature]		DATE 10/10/70	
± .005		± 1/64		FNG. [Signature]		DATE 10/10/70	
FINAL SURFACE QUALITY		REMOVE BURRS AND BREAK SHARP CORNERS		PROJ. ENG. [Signature]		DATE 10/10/70	
MATERIAL		NEXT HIGHER ASSY		PROD. [Signature]		DATE 10/10/70	
FINISH		A-ML-RF11-0		TITLE		DRAWING INDEX LIST (RF11)	
SCALE		SHEET 1 OF 2		SIZE CODE		NUMBER D DI RF11-0-1	
REV. D		REV. D		REV. D		REV. D	

DEC FORM NO. DRD 100

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MECHANICAL					MECHANICAL					ELECTRICAL					ELECTRICAL																				
DEPT USAGE					DEPT USAGE					DEPT USAGE					DEPT USAGE																				
FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C	FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C	FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C	FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C												
1	DEC DISK CONTROL (RF11) DEC DISK CONTROL (RF11) (PL) BEZEL STANDOFF BRACKET, MOUNTING MODULE HOLDER CABLE, BC11A	D-UA-RF11-0-0 A-PL-RF11-0-0 C-1A-7407488-0-0 C-1A-7407337-0-0 C-SC-1209856-0-01 D-UA-BC11A-0-0				10	CASTING ASSY (1943) CASTING ASSY (1943) (PL) 1943 FRAME CASTING	D-AD-5302483-0-0 A-PL-5302483-0-0 E-MD-1202885-0-0				1	DEC DISK CONTROL (RF11) MODULE UTILIZATION MODULE UTILIZATION (PL) NPR CONTROL INTERRUPT CONTROL UNIBUS RECEIVERS AND DRIVERS OUTPUT GATING REGISTER SELECTION CURRENT MEMORY ADDR REGISTER(CMA) WORD COUNT REGISTER (WC) ATT ERROR DETECTION & REGEN RF11 CONTROL DISK CONTROL & STATUS REGISTER DISK ADDR EXT & ERROR REGISTER(WE) DISK ADDRESS REGISTER (DAR) DISK SEGMENT COMPARATOR DISK SELECTION DISK DATA BUFFER REGISTER (DBR) DISK TIMING CONTROL SHIFT REGISTER MAINTENANCE REGISTER (MAR) RF11-RS11 INTERFACE ADS REGISTER RF11-RS11 CABLE INTERFACE BUS CABLE INTERFACE INDICATOR CABLE PWR WIRING (RF11) RF11/RS11 ARRANGEMENT WIRE LIST ADDRESS TIMING WRITE MODE READ MODE WRITE CHECK MODE RF11/RS11 CHECKOUT PROCEDURE RF11 IN HOUSE ACCEPTANCE TEST ACCESSORY LIST SOFTWARE LIST RF11/RS11 CALIBRATION PROCEDURE WC AND CMA MODULE UNIBUS MASTER CONTROL INTERRUPT CONTROL	A-WL-RF11-0 D-MU-RF11-0-02 A-PL-RF11-0-02 D-BS-RF11-0-03 D-BS-RF11-0-04 D-BS-RF11-0-05 D-BS-RF11-0-06 D-BS-RF11-0-07 D-BS-RF11-0-08 D-BS-RF11-0-09 D-BS-RF11-0-10 D-BS-RF11-0-11 D-BS-RF11-0-12 D-BS-RF11-0-13 D-BS-RF11-0-14 D-BS-RF11-0-15 D-BS-RF11-0-16 D-BS-RF11-0-17 D-BS-RF11-0-18 D-BS-RF11-0-19 D-BS-RF11-0-20 D-BS-RF11-0-21 D-BS-RF11-0-22 D-BS-RF11-0-24 D-IC-RF11-0-23 D-IC-RF11-0-25 D-IC-RF11-0-26 D-IC-RF11-0-27 D-AR-RF11-0-28 K-WL-RF11-0-29 D-TD-RF11-0-30 D-TD-RF11-0-31 D-TD-RF11-0-32 D-TD-RF11-0-33 A-SP-RF11-0-34 A-SP-RF11-0-35 A-AL-RF11-0-36 A-SL-RF11-0-37 A-SP-RF11-0-38 D-CS-M795-0-1 D-CS-M796-0-1 D-CS-M7821-0-1 D-CS-5408459-0-1 C-AD-7007040-0-0 A-PL-7007040-0-0																					
2	INDICATOR PANEL ASSY INDICATOR PANEL ASSY (PL) 5-1/4" SNAP ON BEZEL BENELEX MTG BRACKET, BENELEX LATCH MOLDING	D-AD-7006331-13-0 C-PL-7006331-13-0 D-SC-1209226-0-0 D-1A-7407222-0-0 C-MD-7407086-0-0 C-SC-1209224-0-0				11	POWER END PANEL ASSY	C-1A-5409132-0-0				7	CIRCUIT SCHEMATIC	C-CS-716-0-1																					
3	LIGHT BOARD CABLE ASSY	E-1A-7006409-13-0				12	PANEL, LEFT END MOUNTING PANEL	C-1A-5509177-0-0 A-SS-5509177-0-1				8	WIRED ASSY (RF11) WIRED ASSY (RF11) (PL)	D-AD-7007039-0-0 A-PL-7007039-0-0																					
4	PERIPHERAL ETCH BD. ASSY	E-1A-5408458-13-0				13	1945 HOLD DOWN BAR 1945 HOLD DOWN BAR (PL)	MAD -D-1945-19-1 PL-A-1945-19-1				14	785-B P/S CIRCUIT SCHEMATIC	C-CS-785-B-1																					
5	PERIPHERAL IND. PANEL ETCH X-Y COORDINATE HOLE LOCATION ASSY DRILLING HOLE LAYOUT	D-1A-5008457-0-0 K-CO-5408458-0-4 C-AH-5408458-0-5				14	POWER SUPPLY 785-B POWER SUPPLY 785-B (PL) CHASSIS RETAINER CAPACITOR SCREEN, FAN CAUTION CHECK LABEL DECALS, POWER SUPPLY COVER, PROTECTION FAN BRKT BRACKET, TERMINAL	D-UA-785-B-0 A-PL-785-B-0 E-1A-5308234-0-0 D-MD-5304483-0-0 C-MD-7404881-0-0 A-DC-5304512-0-0 B-DC-5308355-0-0 C-MD-5304458-0-0 D-MD-5304451-0-0 D-MD-5304499-0-0				16	CIRCUIT SCHEMATIC	C-CS-716-0-1																					
6	INLAY FRONT SCREEN REAR SCREEN	D-1A-7407228-11-0 C-SS-7407228-0-12 C-SS-7407228-0-2				15	MTG PANEL ASSY (714 PS) MTG PANEL ASSY (714 PS)(PL) FRONT PLATE (714 PS)	D-UA-7006748-0-0 A-PL-7006748-0-0 D-MD-7408035-0-0				9	H911 MTG. PANEL H911 MTG PANEL(PL)	D-AD-5404491-0-0 A-PL-5404491-0-0																					
7	LOGIC ASSY RF11 LOGIC ASSY RF11 (PL) RIGHT END PANEL	C-AD-7007040-0-0 A-PL-7007040-0-0 C-MD-5302486-0-0				16	INDICATOR POWER SUPPLY 716 INDICATOR POWER SUPPLY 716 (PL) PANEL, MTG 716 PS BRACKET MTG TERMINAL DECAL, 716 POWER SUPPLY	D-UA-716-0-0 A-PL-716-0-0 D-MD-5308466-0-0 D-MD-5308465-0-0 A-DC-5308448-0-0																											

REV	DATE	BY	DESCRIPTION
1	11/19/70	R. C. G.	REVISED
2	12/1/70	R. C. G.	REVISED
3	12/19/70	R. C. G.	REVISED
4	12/19/70	R. C. G.	REVISED
5	12/19/70	R. C. G.	REVISED
6	12/19/70	R. C. G.	REVISED
7	12/19/70	R. C. G.	REVISED
8	12/19/70	R. C. G.	REVISED
9	12/19/70	R. C. G.	REVISED

FIRST USED ON OPTION/MODEL: RF11

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: DRAWING INDEX LIST (RF11)

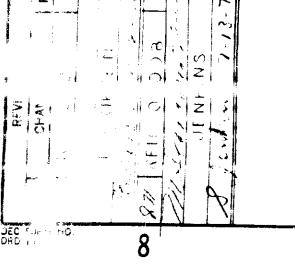
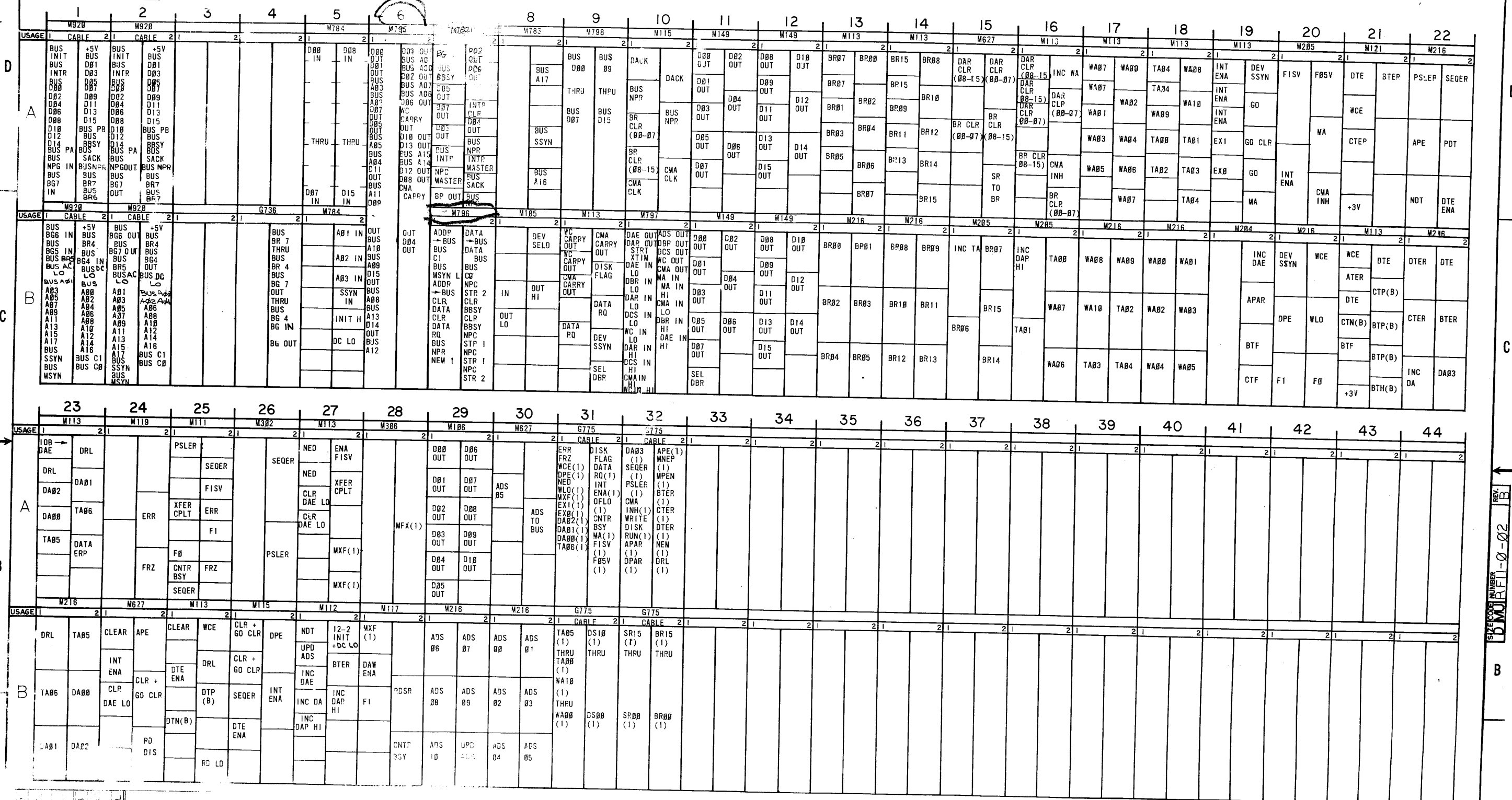
SIZE CODE: D DI NUMBER: RF11-0-1 REV: D

SCALE: 1:1 SHEET: 2 OF 2

19750

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SIZE CODE NUMBER 2 DMU RFI1-0-02



* NOTE:
 * TERMINATOR CARDS (G723) IN C31, C32, & D32 AND G711 IN D31 ARE TO BE REMOVED & PUT IN (DISK BUS OUT) CABLE SLOTS OR LAST PS11 INSERT LOCATIONS A25, A26, & B26 AND G711 IN B25 OR LAST RS11.
 ** HEAD SIMULATOR CABLE USED FOR MAINTENANCE ONLY.
 *** MAY BE M782 OR M7820

FIRST USED ON OPTION/ MODEL RF11	DO NOT SCALE DRAWING	DRN: <i>[Signature]</i> DATE: 7-15-70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
	UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	CHK'D: <i>[Signature]</i> DATE: 8-12-70	
	TOLERANCES	DATE: 7-14-70	MODULE UTILIZATION (RF11)
	DECIMALS FRACTIONS ANGLES	DATE: 7-14-70	
	PROF. END DATE: 7-14-70	DATE: 7-14-70	SIZE CODE: DMU RFI1-0-02
	REMOVE BURRS AND BREAK SHARP CORNERS	DATE: 7-14-70	NUMBER: 1 OF 2
MATERIAL: / /			REVISION: B
FINISH: / /			SHEET: 1 OF 2

SIZE CODE NUMBER 2 DMU RFI1-0-02 REV. B

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY G. GIANOULIS
 DATE 7/16/70
 ENG G. GIANOULIS
 DATE 9/12-20

CHECKED *G. Gianoulis*
 DATE 8/12/70
 PRPB *G. Gianoulis*
 DATE 9/19/70

SECTION 1
 ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
	M1Ø5	ADDRESS SELECTOR	
	M1Ø6	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
	M2Ø4	COUNTER-BUFFER	1
	M2Ø5	5 "D" FLIP FLOPS	1
	M2Ø7	FLIP-FLOP	6
	M216	SIX FLIP-FLOPS	1
	M3Ø2	ONE SHOT DELAY	18
	M3Ø6	INTEGRATING ONE-SHOT	3
	M311	TAF DELAY	3
	M5ØØ	NEG INPUT CONVERTER	2
	M6Ø2	PULSE GENERATOR	2
	M627	POWER AMPLIFIER	1
	M632	POSITIVE INPUT CONV. DRIVER	5

TITLE MODULE UTILIZATION (RF11)
 ASSY NO. D-MU-RF11-Ø-Ø2
 SIZE CODE A PL
 NUMBER RF11-Ø-Ø2
 REV. ECO NO. B
 DIST. 00008

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY G. GIANOULIS
 DATE 7/15/70
 ENG G. GIANOULIS
 DATE 9/12-20

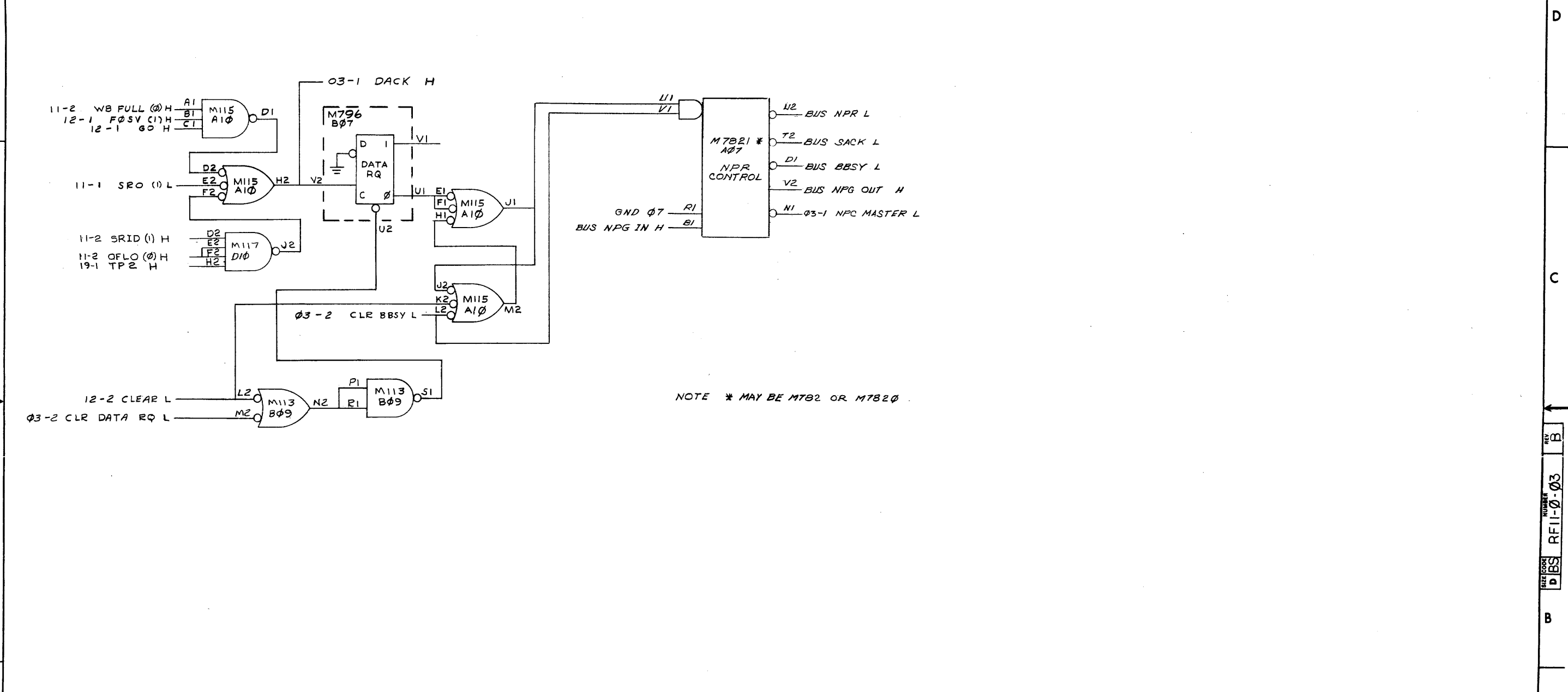
CHECKED *G. Gianoulis*
 DATE 8/12/70
 PRPB *G. Gianoulis*
 DATE 9/18/70

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-Ø-Ø2
 SIZE CODE A PL
 NUMBER RF11-Ø-Ø2
 REV. ECO NO. B
 DIST. 00008

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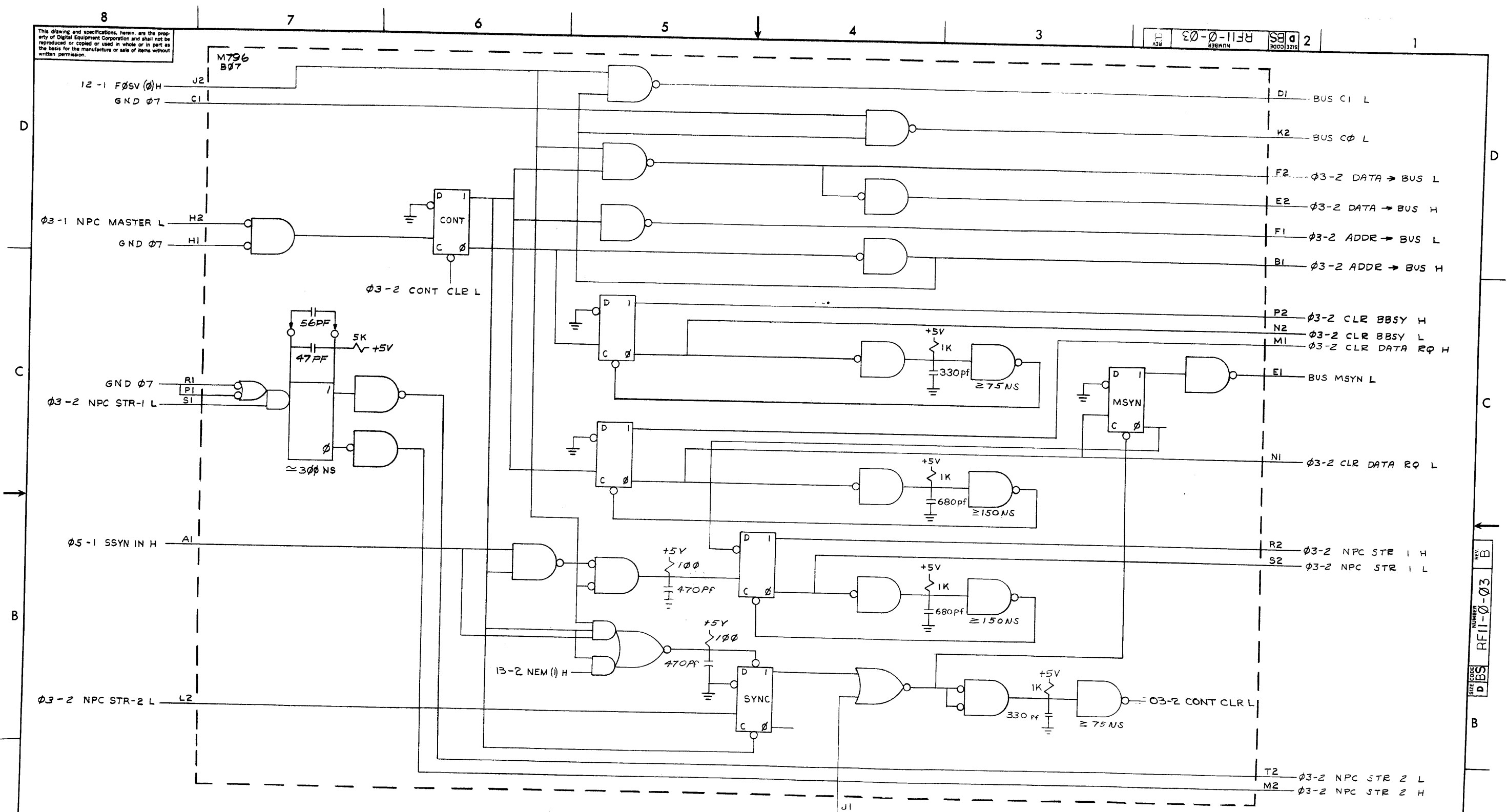
NOTE * MAY BE M782 OR M7820

REV	CHANGE NO.	DATE	BY	CHK
A	0004	1-6-71	WILSON	FV
B		1-18-71	ERIKSON	
		7-5-72	COOPE	
		7-13-72	JENKINS	

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED				
DRN	DATE	PARTS LIST		
DATE	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
DATE	DATE	TITLE		
DATE	DATE	NPR CONTROL		
DATE	DATE	MATERIAL		
DATE	DATE	NEXT HIGHER ASSY.		
DATE	DATE	A-ML-RF11-0		
DATE	DATE	FINISH		
DATE	DATE	SCALE NONE		
DATE	DATE	SHEET 1 OF 2		
DATE	DATE	SIZE CODE	NUMBER	REV
DATE	DATE	DBS	RF11-0-03	B
DATE	DATE	DIST.		

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REFII-0-03 2



REV	NO
CHG	NO
CHK	NO

DEC FORM NO DRD 102A

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
REFII				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHK	DATE	digital EQUIPMENT CORPORATION	
DIMENSION IN INCHES		DATE	MAYNARD, MASSACHUSETTS	
TOLERANCES		DATE	TITLE	
± .005 ± 1/64 ± 0.30		DATE	NPR CONTROL	
FINAL SURFACE QUALITY	PROL	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS	PROD	DATE		
MATERIAL		DATE		
FINISH		DATE		
			SCALE NONE	REV B
			SHEET 2 OF 2	NUMBER REFII-0-03
				SIZE CODE DBS

REFII-0-03

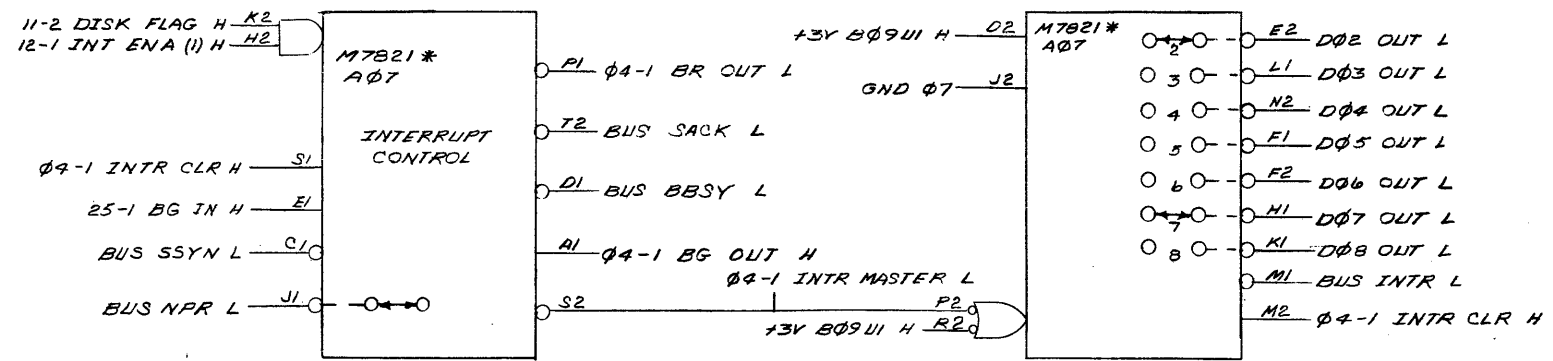
B

A

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

204
 INTR VECTOR = 000204

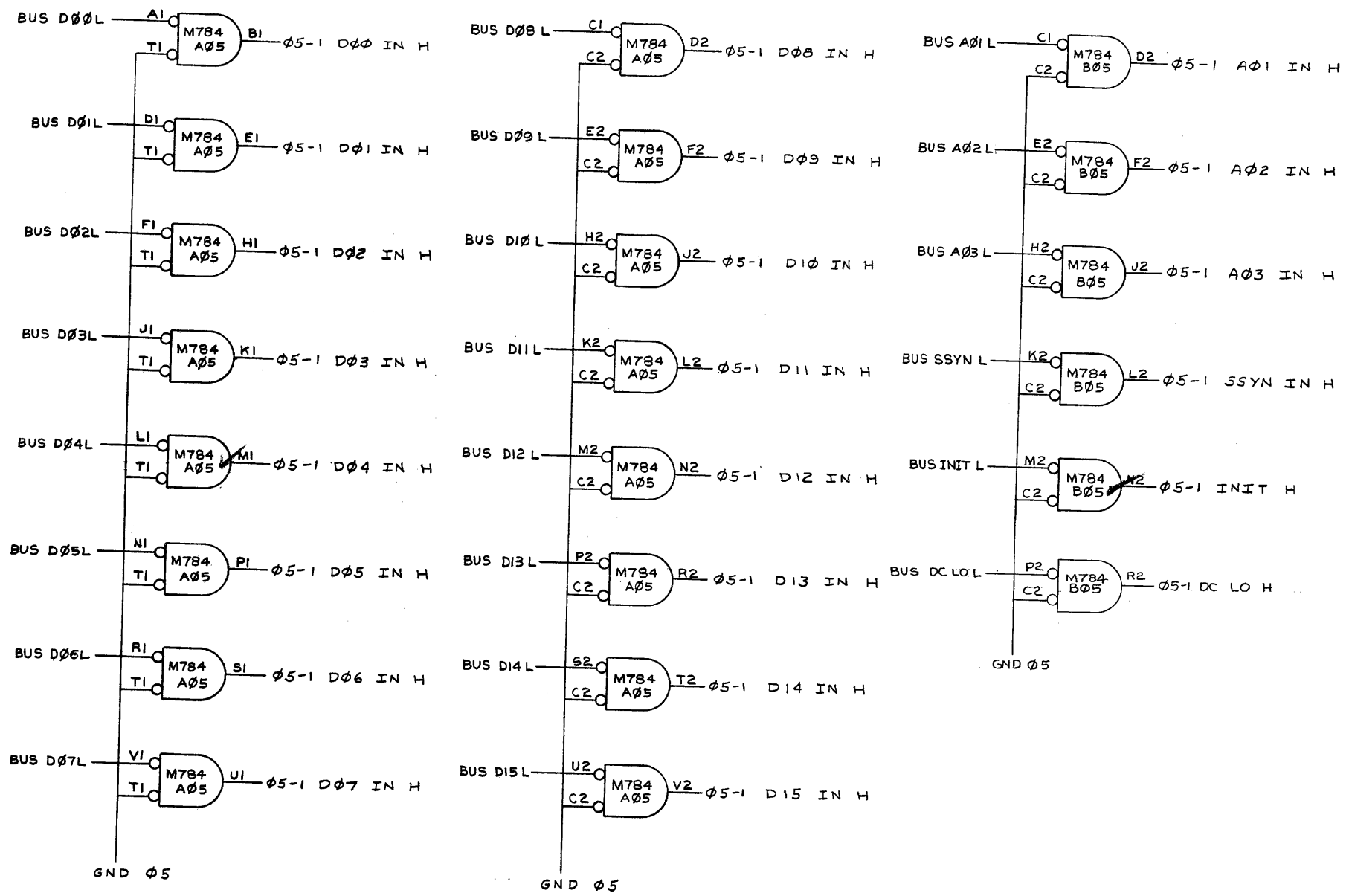


REVISIONS	CHANGE NO.	REV.
CHK	RF11-00005	A
ERIKSEN		
JENKINS		

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	CHK'D	DATE	TITLE	
TOLERANCES	ENG'D	DATE	INTERRUPT CONTROL	
DECIMALS FRACTIONS ANGLES	PROG. ENG.	DATE	SIZE CODE NUMBER REV	
= .005 = 1/64 = 0°30'	PROD.	DATE	DBS RFI1-0-04 B	
FINAL SURFACE QUALITY			SCALE NONE	
REMOVE BURRS AND BREAK SHARP CORNERS			SHEET 1 OF 1	
MATERIAL			NEXT HIGHER ASSY.	
FINISH			A-ML-RF11-0	

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REV. 2
 SIZE CODE DBS
 NUMBER RF11-0-05

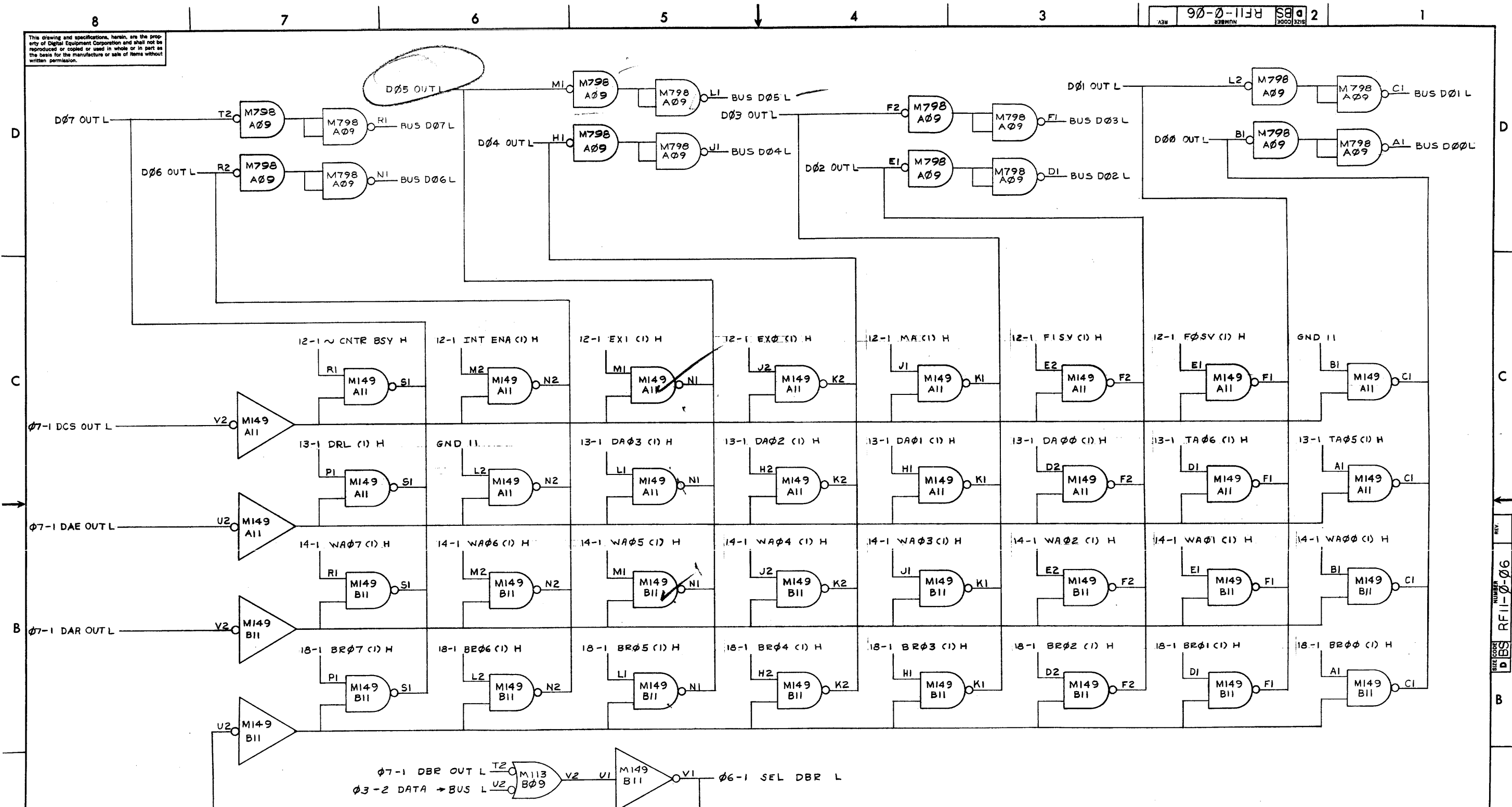


REV.	
CHANGE NO.	
CHK	

DEC FORM NO. DRD 102A

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYFORD, MASSACHUSETTS	
DIMENSION IN INCHES	CHKD	DATE	TITLE	
TOLERANCES		DATE	UNIBUS RECEIVERS AND DRIVERS	
DECIMALS FRACTIONS ANGLES		DATE		
± .005 ± 1/64 ± .005		DATE		
FINAL SURFACE QUALITY		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS		DATE		
MATERIAL	PROD.	DATE		
FINISH		DATE		
	NEXT HIGHER ASSY.			
	A-ML-RF11-0		SIZE CODE	NUMBER
	SCALE NONE		DBS	RF11-0-05
	SHEET 1 OF 1		DIST.	

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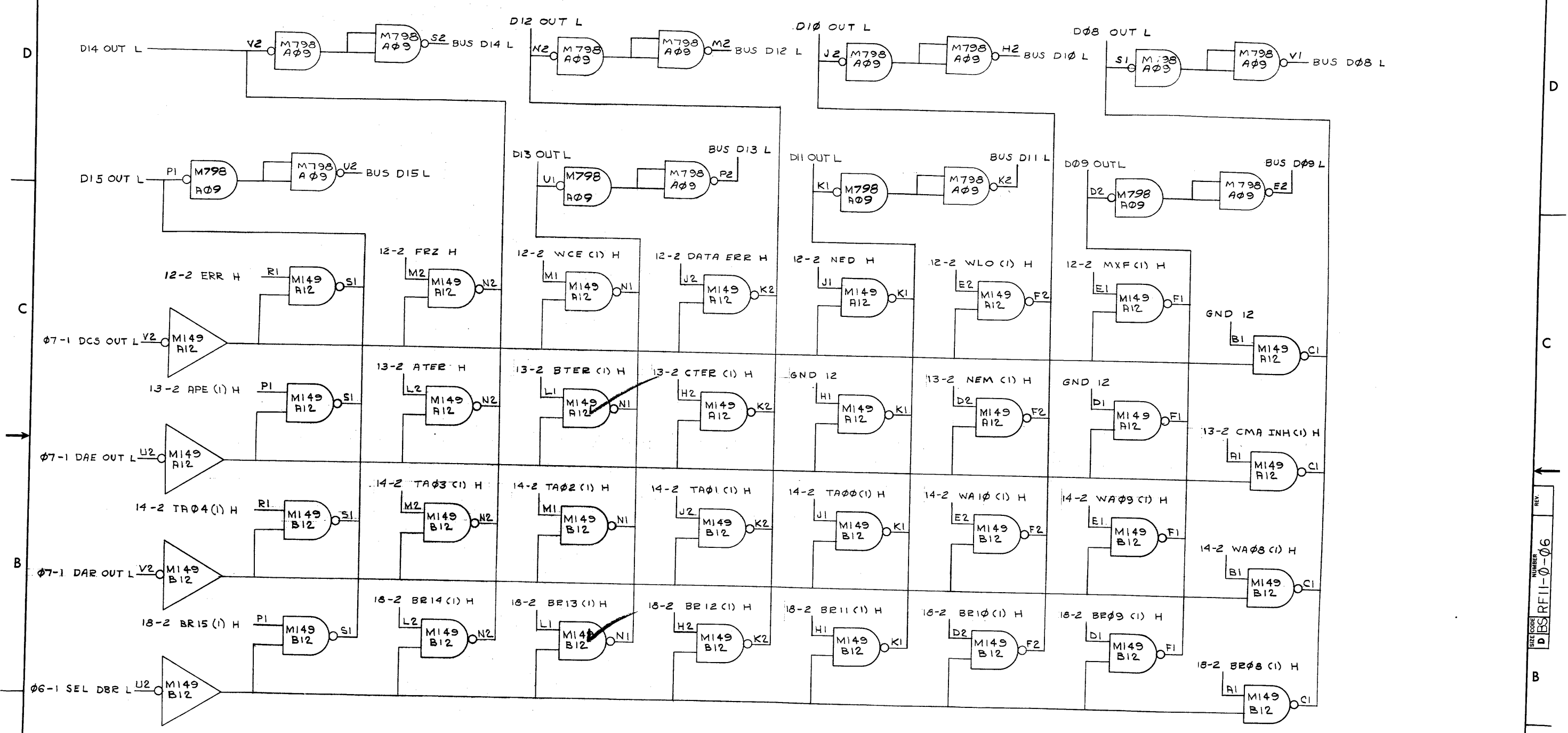
REV.	
CHG	
NO.	

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	TITLE	
DIMENSION IN INCHES	J. Madson	7-31-70	OUTPUT GATING	
TOLERANCES	ENG	DATE	NEXT HIGHER ASSY.	
DECIMALS FRACTIONS ANGLES	B. Eubank	8/3-70	A-ML-RF11-0	
± .005 ± 1/64 ± 0°30'	PROB	DATE	SCALE NONE	
FINAL SURFACE QUALITY	B. Eubank	8/3-70	SIZE CODE NUMBER REV	
REMOVE BURRS AND BREAK SHARP CORNERS	PROD	DATE	DBS RF11-0-06	
	W. Hall	8/3-70	SHEET 1 OF 2	
MATERIAL			DIST.	
FINISH				

REV. NUMBER DBS RF11-0-06

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SIZE CODE D BSRF11-0-06 2

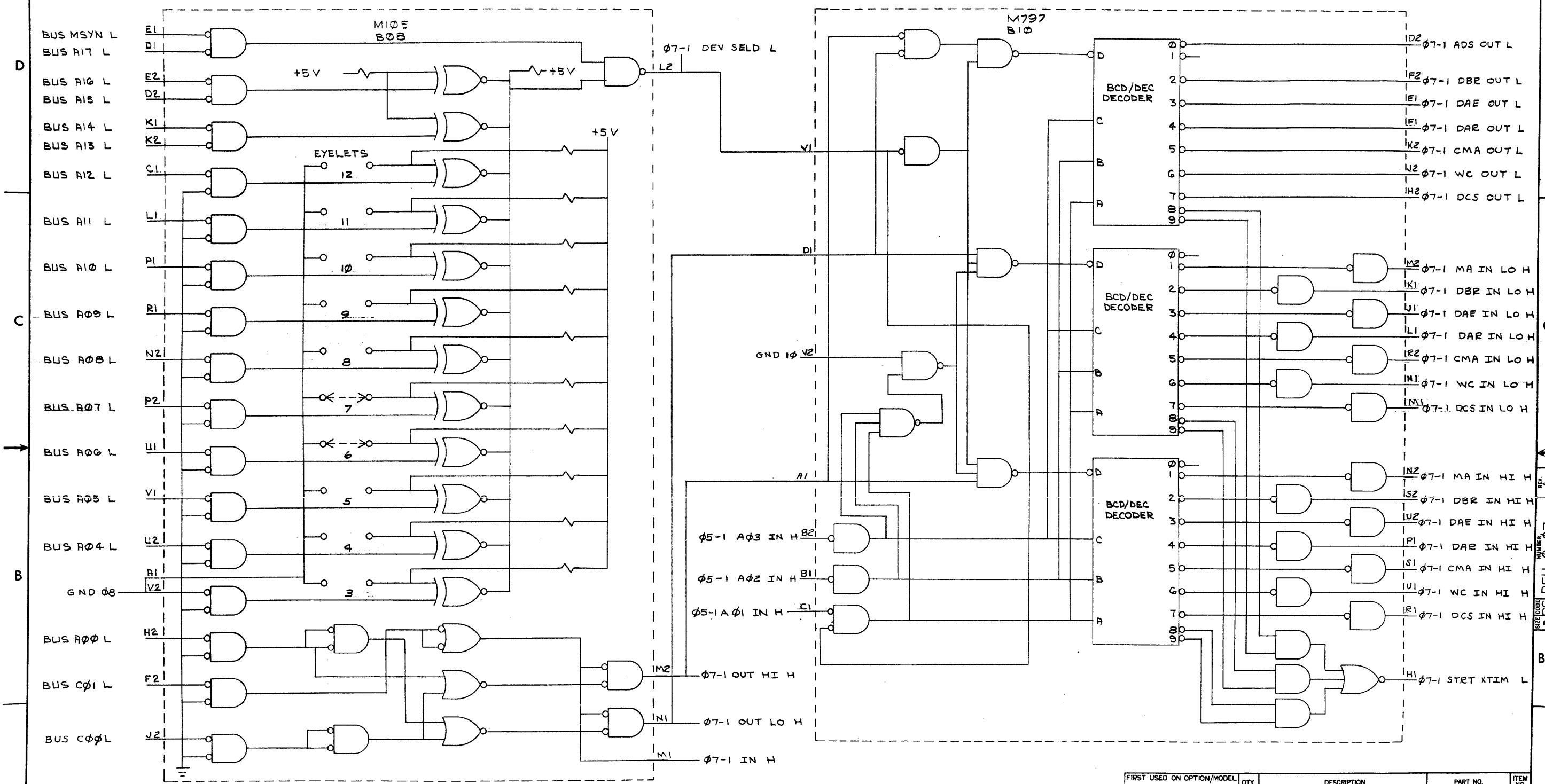


REV.	NO.	CHG.	NO.

DEC FORM NO DRD 102A

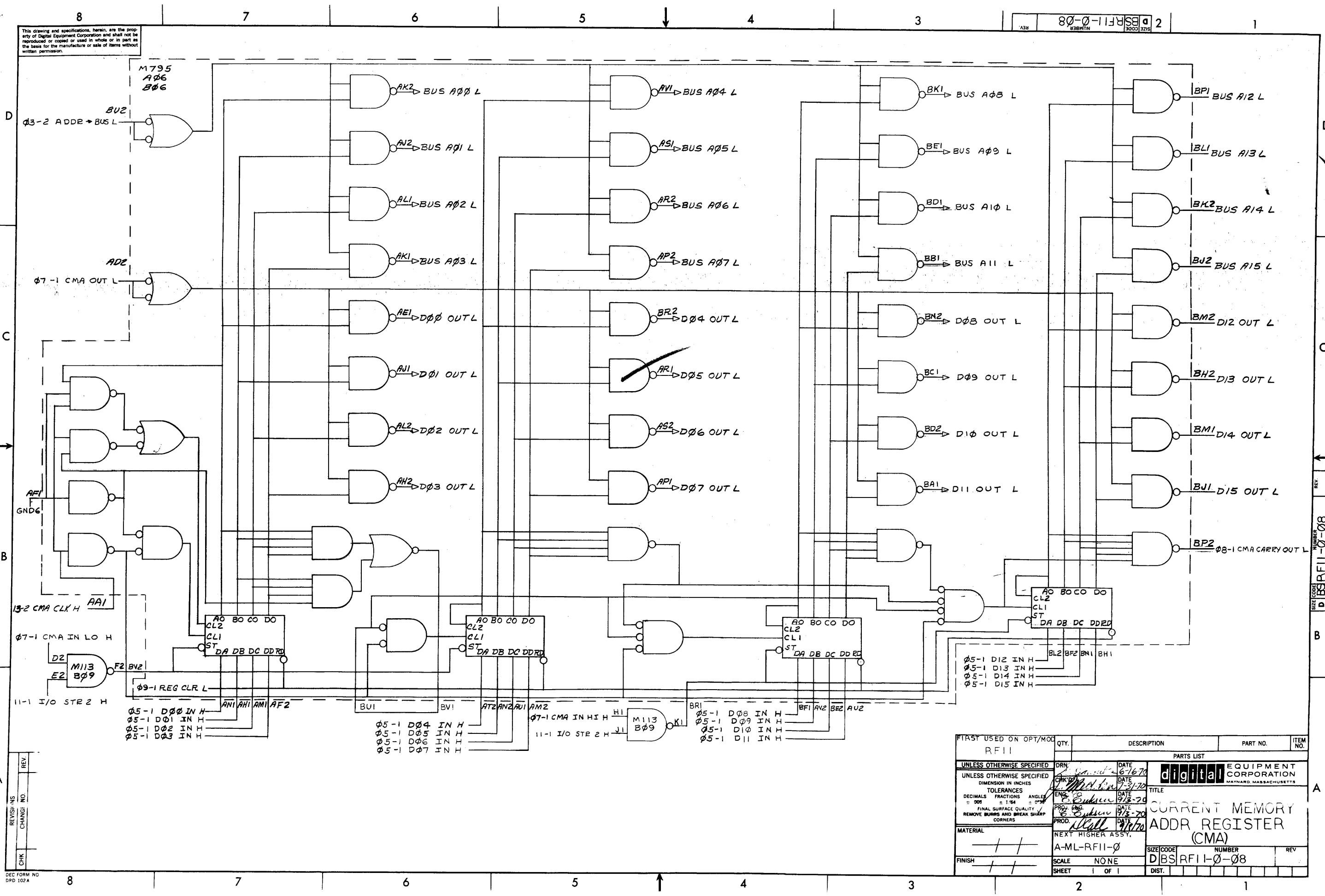
FIRST USED ON OPTION/MOD RF11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED				
DRN Ex: D Reed	DATE 19MAY70	PARTS LIST		
CHKD M. M. M.	DATE 7-31-70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
ENGRS B. S. S.	DATE 8/1-70	TITLE OUTPUT GATING		
PROGNS B. S. S.	DATE 8/5-70	MATERIAL ++		
PROD. Wall	DATE 9/18/70	NEXT HIGHER ASSY A-ML-RF11-0		
FINISH ++		SCALE NONE	SIZE CODE D BSRF11-0-06	NUMBER 2
SHEET 2 OF 2		DIST.		

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REV.	REV.	REV.
A	A	A
CHANGE NO.	PF11-00005	3/1/71
CHK	ERIKSEN	3/1/71
REVISIONS	3/1/71	SR

FIRST USED ON OPTION/MODEL RF11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHKD	DATE	TITLE	
DIMENSION IN INCHES		2-2 MAY 70	REGISTER SELECTION	
TOLERANCES		7-31-70	NEXT HIGHER ASSEMBLY	
DECIMALS		8/13-70	A-ML-RF11-0	
FRACTIONS		9/3-70	SCALE NONE	
ANGLES		9/3-70	SIZE CODE DBS RFI1-0-07	
± .005			NUMBER	
± 1/64			REV. A	
± 0°30'			SHEET 1 OF 1	
FINAL SURFACE QUALITY			DIST.	
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
FINISH				



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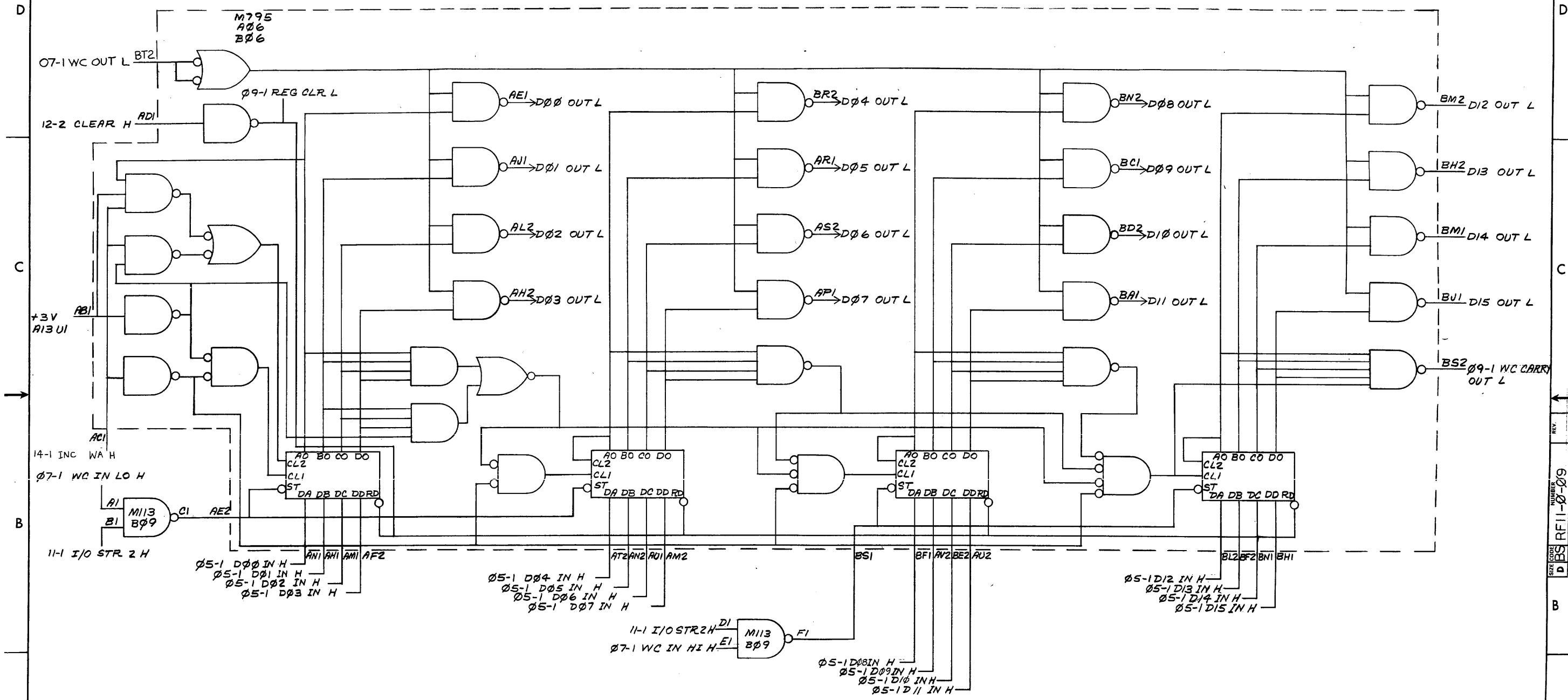
REV. 2
 DBSRF11-0-08

REV.	NO.	CHG.	NO.

FIRST USED ON OPT/MOD RF11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	TITLE	
DIMENSION IN INCHES			CURRENT MEMORY ADDR REGISTER (CMA)	
TOLERANCES			NUMBER	
DECIMALS FRACTIONS ANGLES			REV	
± 008 ± 1/64 ± 0°30'			DBSRF11-0-08	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS			SCALE NONE	
MATERIAL			SHEET 1 OF 1	
NEXT HIGHER ASSY.			DIST.	
A-ML-RF11-0				

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60-0-1111-09
 SIZE CODE DBS
 NUMBER RFI11-0-09
 REV. 2

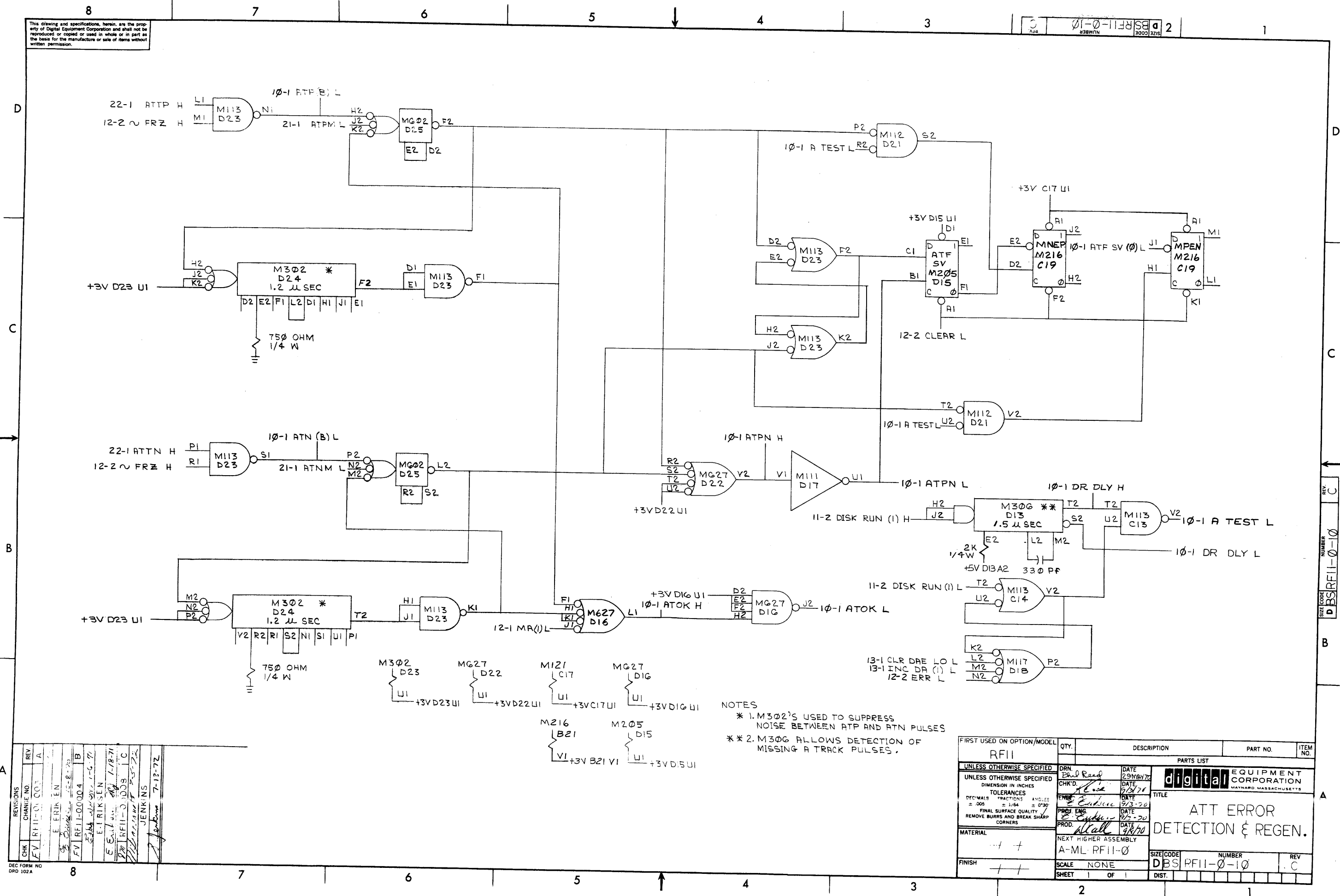


REV.	
CHG	
NO.	
DATE	

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHKD	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DIMENSION IN INCHES	ENG	DATE	TITLE	
TOLERANCES	PROG	DATE	WORD COUNT REGISTER (WC)	
DECIMALS FRACTIONS ANGLES	PROD	DATE	SIZE CODE NUMBER REV.	
± .005 ± 1/64 ± 0°30'			DBS RFI11-0-09	
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS			DIST.	
MATERIAL	NEXT HIGHER ASSY.			
FINISH	A-ML-RF11-0			
	SCALE NONE			
	SHEET 1 OF 1			

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DBS RFI1-0-10
 SIZE CODE NUMBER
 2

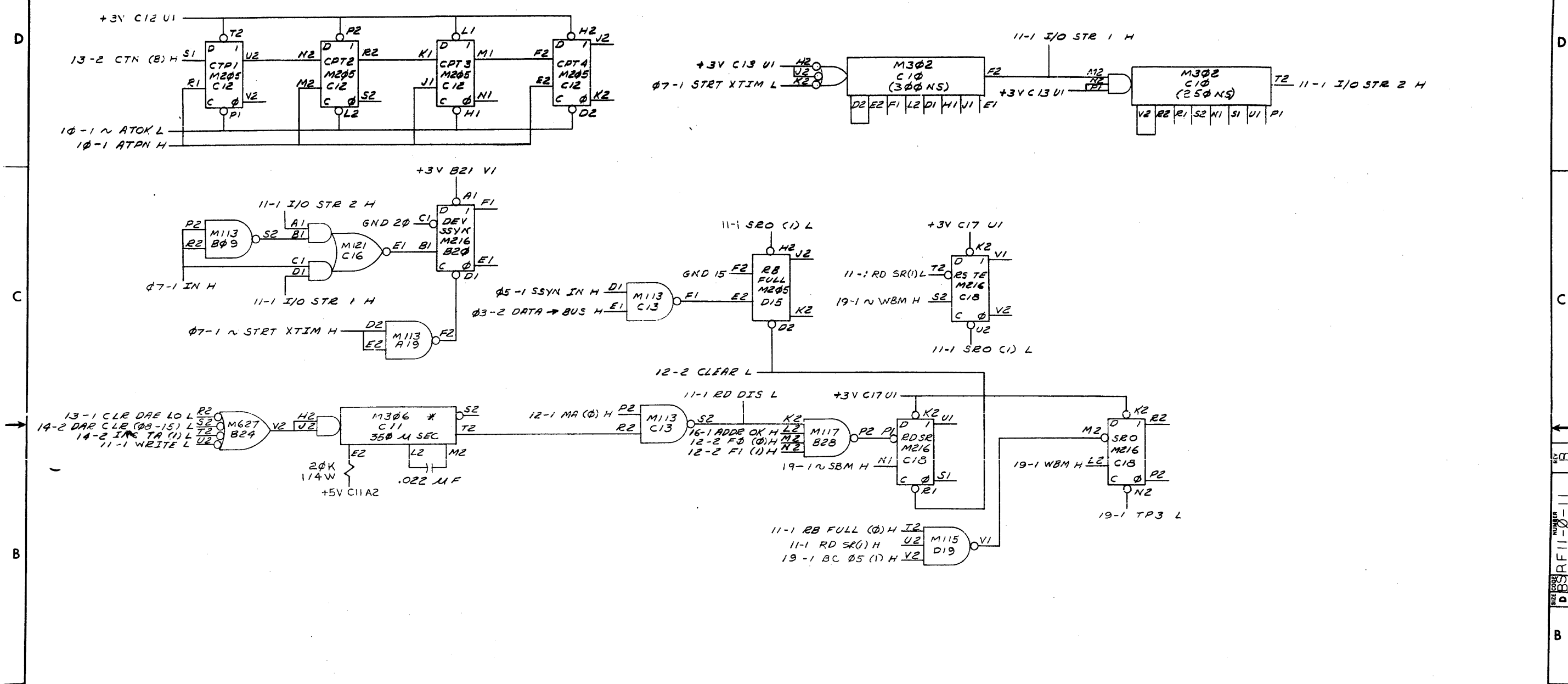


NOTES
 * 1. M302'S USED TO SUPPRESS NOISE BETWEEN ATP AND ATN PULSES
 ** 2. M306 ALLOWS DETECTION OF MISSING A TRACK PULSES.

REV	DATE	BY	CHK
A	1/18/71	E. ERIKSEN	FV
B	1/18/71	E. ERIKSEN	FV
C	1/18/71	E. ERIKSEN	FV
D	1/18/71	E. ERIKSEN	FV
E	1/18/71	E. ERIKSEN	FV
F	1/18/71	E. ERIKSEN	FV
G	1/18/71	E. ERIKSEN	FV
H	1/18/71	E. ERIKSEN	FV
I	1/18/71	E. ERIKSEN	FV
J	1/18/71	E. ERIKSEN	FV
K	1/18/71	E. ERIKSEN	FV
L	1/18/71	E. ERIKSEN	FV
M	1/18/71	E. ERIKSEN	FV
N	1/18/71	E. ERIKSEN	FV
O	1/18/71	E. ERIKSEN	FV
P	1/18/71	E. ERIKSEN	FV
Q	1/18/71	E. ERIKSEN	FV
R	1/18/71	E. ERIKSEN	FV
S	1/18/71	E. ERIKSEN	FV
T	1/18/71	E. ERIKSEN	FV
U	1/18/71	E. ERIKSEN	FV
V	1/18/71	E. ERIKSEN	FV
W	1/18/71	E. ERIKSEN	FV
X	1/18/71	E. ERIKSEN	FV
Y	1/18/71	E. ERIKSEN	FV
Z	1/18/71	E. ERIKSEN	FV

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED				
DRN	DATE	PARTS LIST		
CHK'D	DATE	digital EQUIPMENT CORPORATION		
TOLERANCES				
DECIMALS	FRACTIONS	ANGLES	TITLE	
± .005	± 1/64"	± 0°30'	ATT ERROR DETECTION & REGEN.	
MATERIAL				
NEXT HIGHER ASSEMBLY				
FINISH				
SCALE NONE				
SHEET 1 OF 1				
SIZE CODE NUMBER REV				
DBS RFI1-0-10 C				

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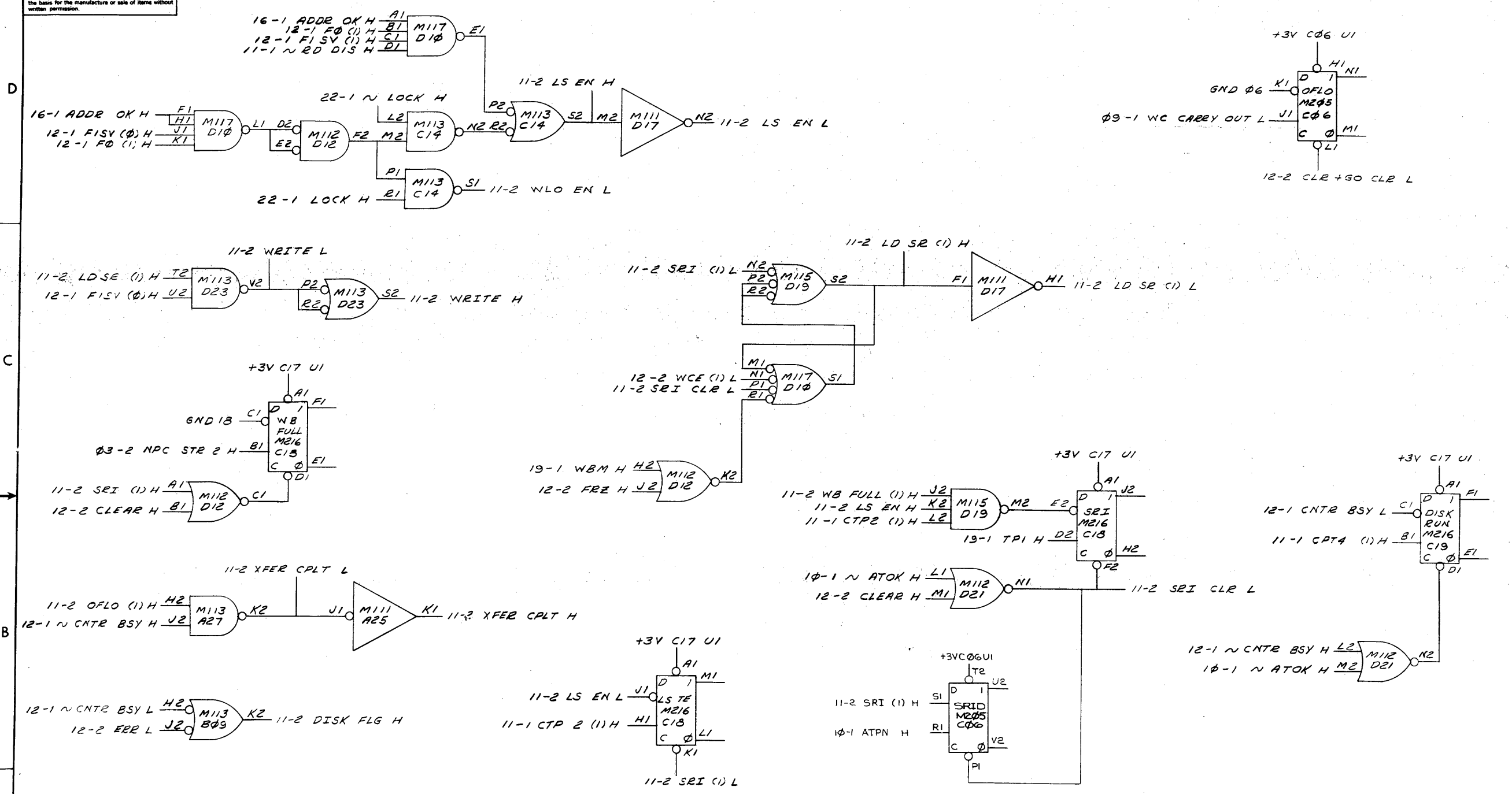


NOTE:
 * 1: M306 ALLOWS RECOVERY TIME FOR DISK READ AMPLIFIER TRACK MATRIX SWITCHING

REV.	CHG. NO.	REV.
A	RV RFI1-00004	1-18-71
B	1-18-71	1-18-71
C	1-18-71	1-18-71
D	1-18-71	1-18-71
E	1-18-71	1-18-71
F	1-18-71	1-18-71
G	1-18-71	1-18-71
H	1-18-71	1-18-71
I	1-18-71	1-18-71
J	1-18-71	1-18-71
K	1-18-71	1-18-71
L	1-18-71	1-18-71
M	1-18-71	1-18-71
N	1-18-71	1-18-71
O	1-18-71	1-18-71
P	1-18-71	1-18-71
Q	1-18-71	1-18-71
R	1-18-71	1-18-71
S	1-18-71	1-18-71
T	1-18-71	1-18-71
U	1-18-71	1-18-71
V	1-18-71	1-18-71
W	1-18-71	1-18-71
X	1-18-71	1-18-71
Y	1-18-71	1-18-71
Z	1-18-71	1-18-71

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RFII				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MATHEWASH, MASSACHUSETTS	
DIMENSION IN INCHES	CHKD	DATE		
TOLERANCES	ENG	DATE		
DECIMALS FRACTIONS ANGLES	PROG	DATE		
± .005 ± .164 ± 0°00'	PROD.	DATE	TITLE	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS			RFII CONTROL	
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE NUMBER REV	
++	A-ML-RFII-0		DBSRFII-0-11 B	
FINISH	SCALE	SHEET	DIST.	
++	1 OF 2	1 OF 2		

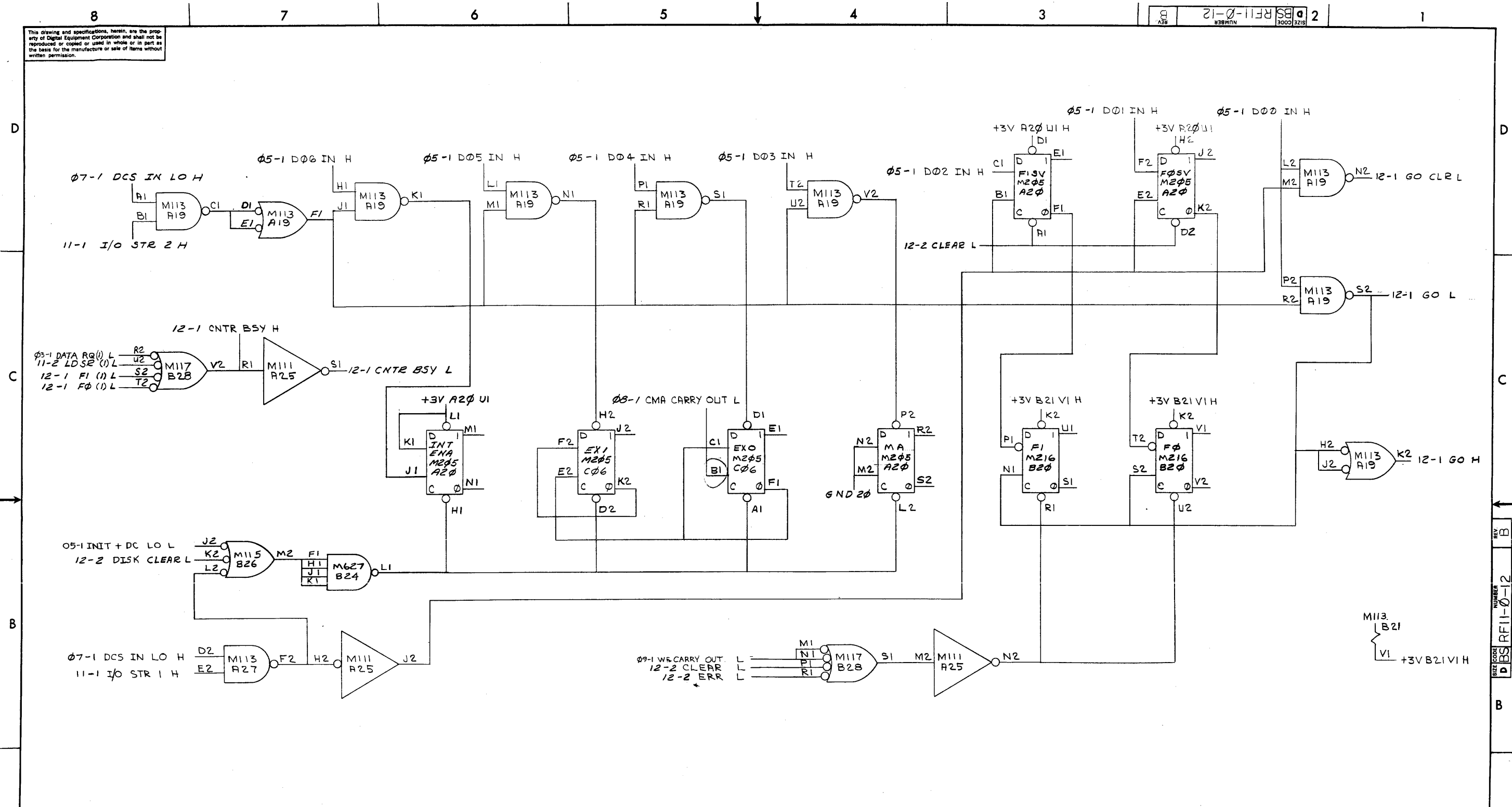
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REV	
CHANGE NO	
CHK	

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RFII				
UNLESS OTHERWISE SPECIFIED				
DIMENSIONS IN INCHES				
TOLERANCES				
DECIMALS	FRACTIONS	ANGLES	DATE	
± .005	± 1/64	± 0°30'	7-20-70	
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
FINISH				
NEXT HIGHER ASS'Y.				
A-ML-RFII-0				
SCALE		SIZE CODE NUMBER REV.		
SHEET 2 OF 2		DES-RFII-0-11 B		

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REV.	CHANGE NO.	DATE	BY	CHKD.
A	0004	1-6-71	E. ERIKSON	
B	0008	1-8-71	JENKINS	
C	0012	7-13-72	JENKINS	

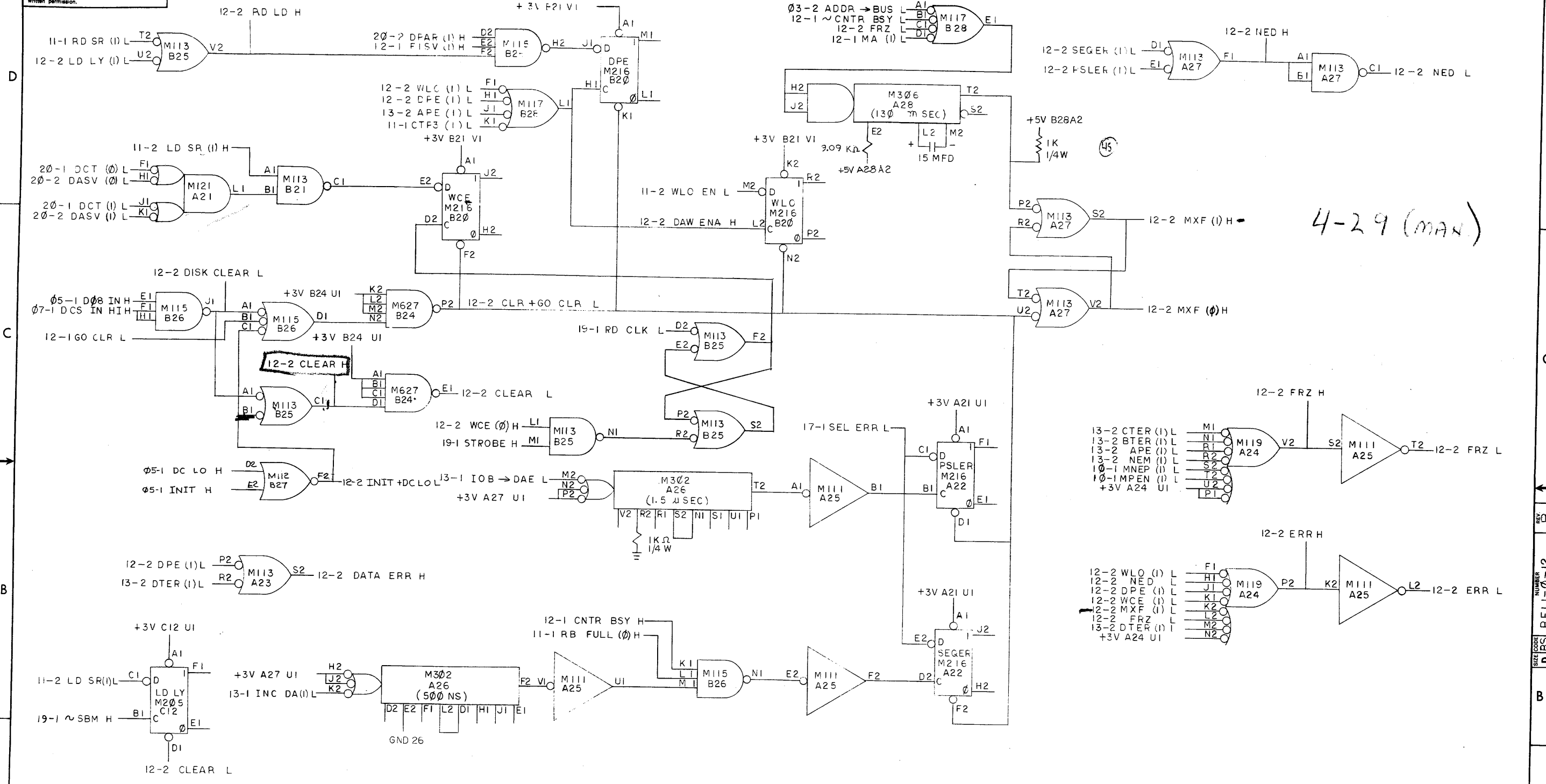
DEC FORM NO. DRD 102A

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED		DRN. DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED		CHKD. DATE	TITLE	
DIMENSION IN INCHES		ENG. DATE	DISK CONTROL & STATUS REGISTER (DCS)	
TOLERANCES		DATE	PROD. DATE	
DECIMALS FRACTIONS ANGLES		DATE	NEXT HIGHER ASSEMBLY	
± .005 ± 1/64 ± 0°30'		DATE	SCALE NONE	
FINAL SURFACE QUALITY		DATE	SHEET 1 OF 2	
REMOVE BURRS AND BREAK SHARP CORNERS		DATE	SIZE CODE NUMBER REV.	
MATERIAL		DATE	D B S R F 11 - 0 - 12 B	
FINISH		DATE	DIST.	

REV. B
NUMBER
D B S R F 11 - 0 - 12
REV. B

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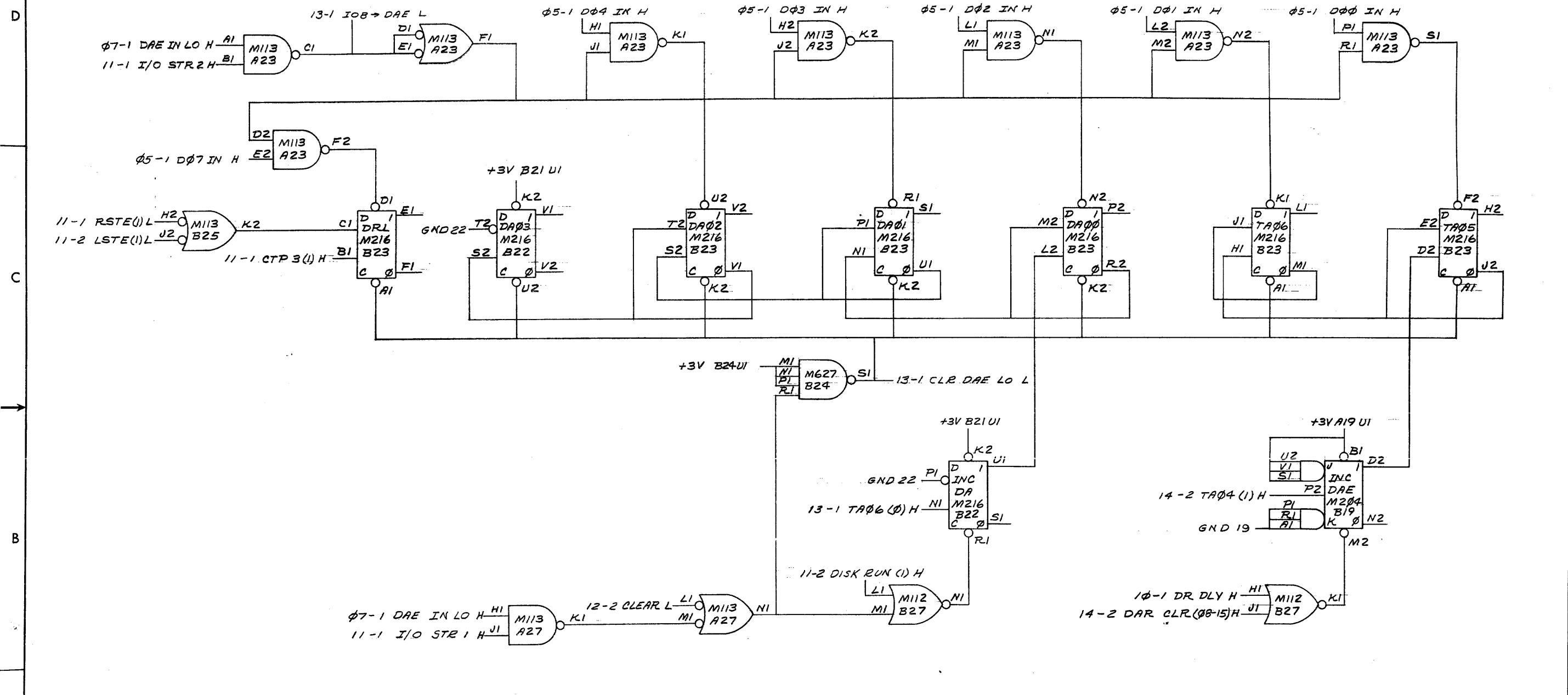
REV. B
 SIZE CODE DBS
 NUMBER RFI1-0-12
 SHEET 2 OF 2



REV	CHG	NO

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED		PARTS LIST		
UNLESS OTHERWISE SPECIFIED		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
UNLESS OTHERWISE SPECIFIED		TITLE		
DIMENSION IN INCHES		LISA CONTROL & STATUS REGISTER (DCS)		
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
= .005 = 1/64 = 0°30'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	FIRST USED ON	SIZE CODE NUMBER REV		
	A-ML-RF11-2	DBS RFI1-0-12 B		
FINISH	SCALE NONE	DIST.		

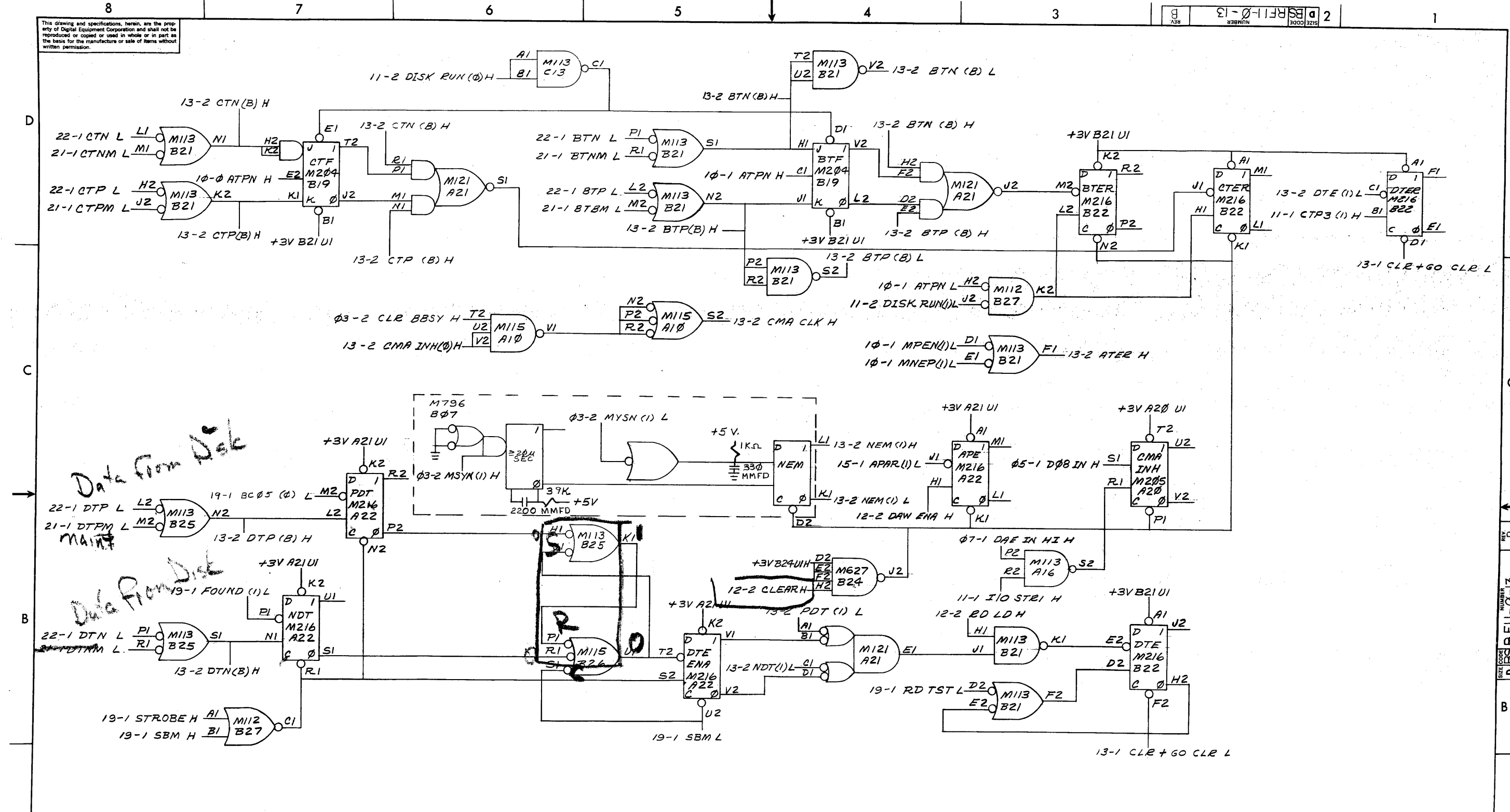
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REV.	CHG.	NO.	BY	DATE
A	FV	00003	E. ERIKSEN	10-8-70
B	FV	00004	E. ERIKSEN	1-6-71
			E. ERIKSEN	1-18-71

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED				
DRN. DATE 6-18-70				
CHECKED DATE 7-31-70				
ENGR. DATE 9-3-70				
PROC'D. DATE 9-3-70				
PROD. DATE 9-15-70				
NEXT HIGHER ASSY.				
MATERIAL				
FINISH				
TITLE DISK ADDR EXT & ERROR REGISTER (DAE)				
A-ML-RF11-0				
SCALE NONE				
SHEET 1 OF 2				
SIZE CODE NUMBER DBS RF11-0-13				
REV B				

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REVISIONS	REV
CHANGE NO	
CHK	

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHK	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES	ENG	DATE	TITLE	
DECIMALS FRACTIONS ANGLES	PROG. ENG.	DATE	DISK ADDR	
.005 .154 .0300	PROD. ENG.	DATE	EXT & ERROR	
FINAL SURFACE QUALITY	PROD. ENG.	DATE	REGISTER (DAE)	
REMOVE BURRS AND BREAK SHARP CORNERS			SIZE CODE NUMBER REV.	
MATERIAL			A-ML-RF11-0	
			DBS RF11-0-13	
FINISH			SCALE NONE	
			SHEET 2 OF 2	
			DIST.	

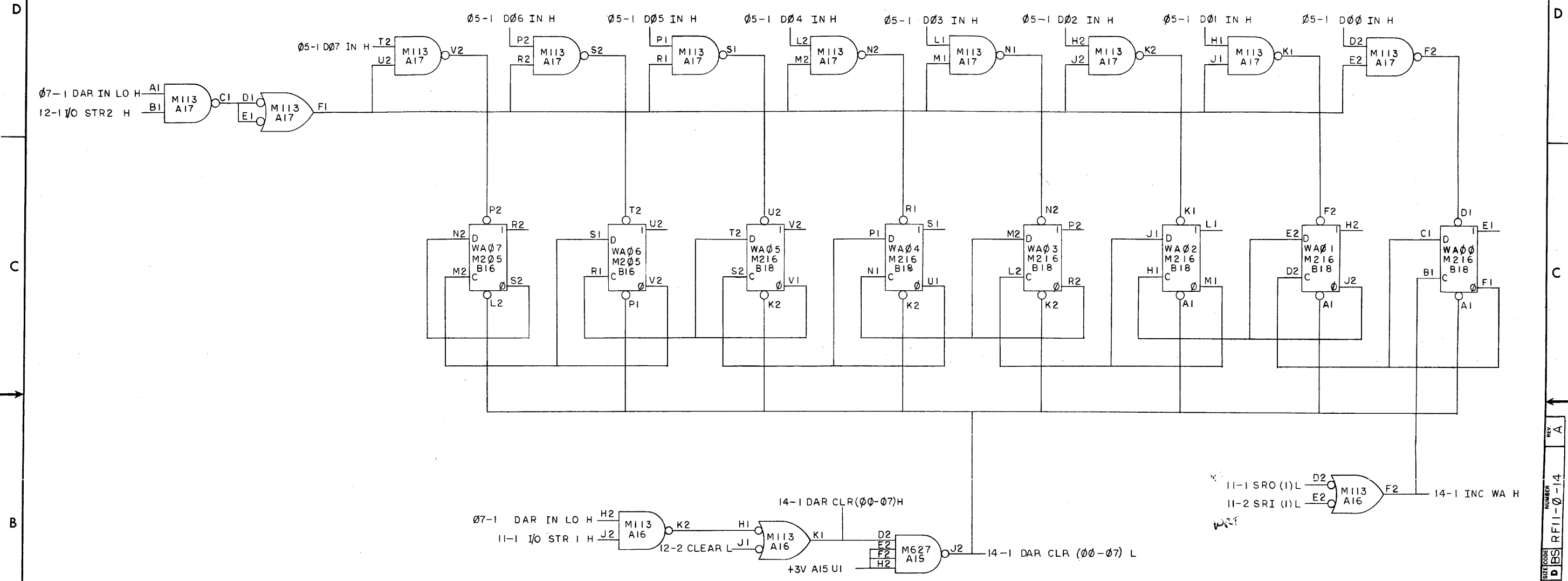
DEC FORM NO. DFD 102A

8 7 6 5 4 3 2 1

REV. B
NUMBER
DBS RF11-0-13
REV. B

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REV. 2
 SIZE CODE DBS
 NUMBER RFI1-0-14



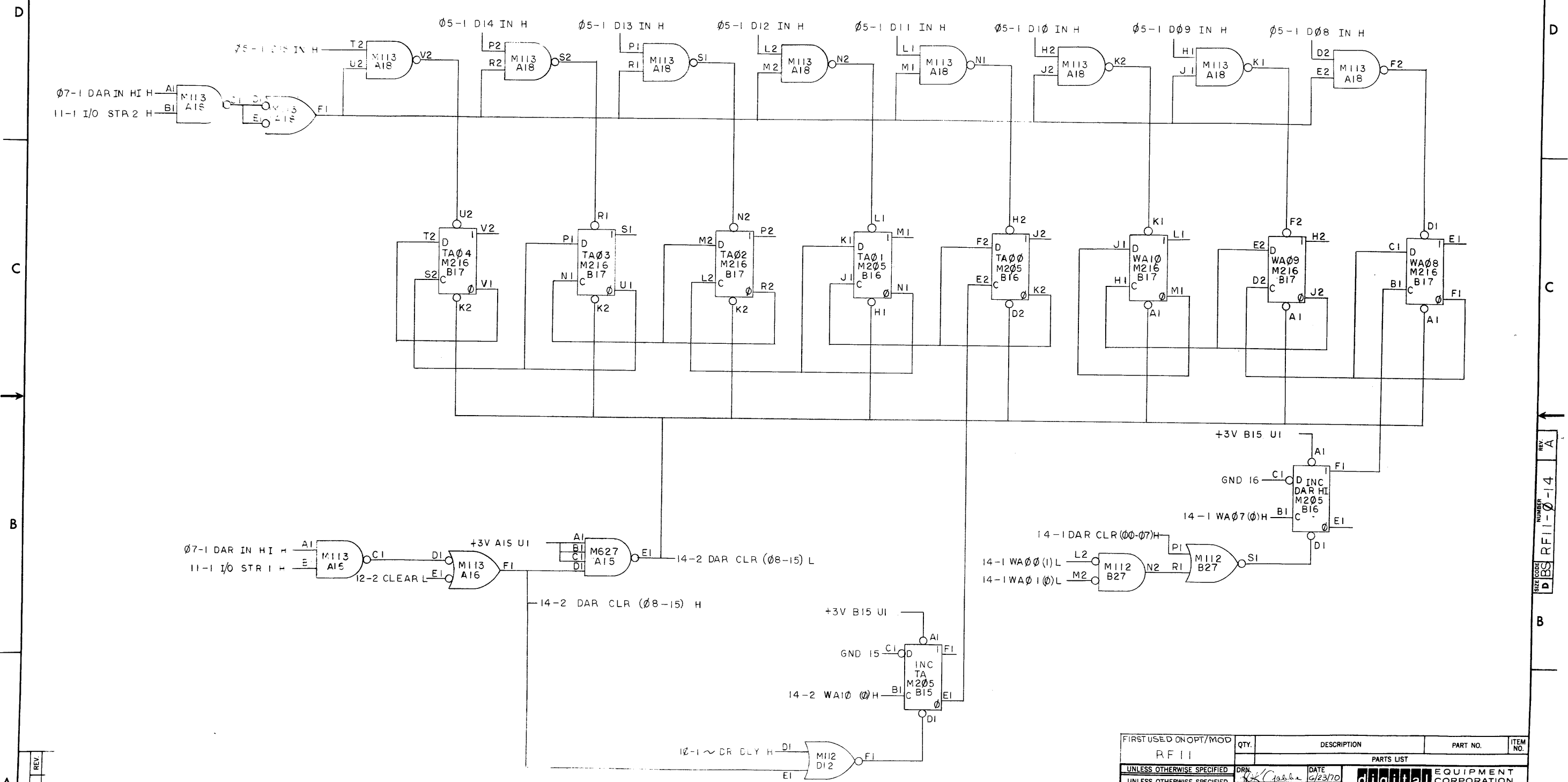
REV.	CHANGE NO.	DATE
A	0003	7-31-70
B		
C		
D		

CHK: FV
 ERIKSEN
 10-8-70

FIRST USED ON OPT/ MOD RF11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
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	DRN L. Carls	DATE 6/22/70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE DISK ADDRESS REGISTER (DAR)	
MATERIAL + +	CHK'D J. Madhu	DATE 7-31-70		
FINISH + +	ENGR E. Erikson	DATE 7/8-70	SIZE CODE DBS NUMBER RFI1-0-14 REV. A	
	PROD. D. Call	DATE 9/8/70	SCALE NONE SHEET 1 OF 2	

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REV 2
 NUMBER DBS RF11-0-14
 SIZE CODE 3003216

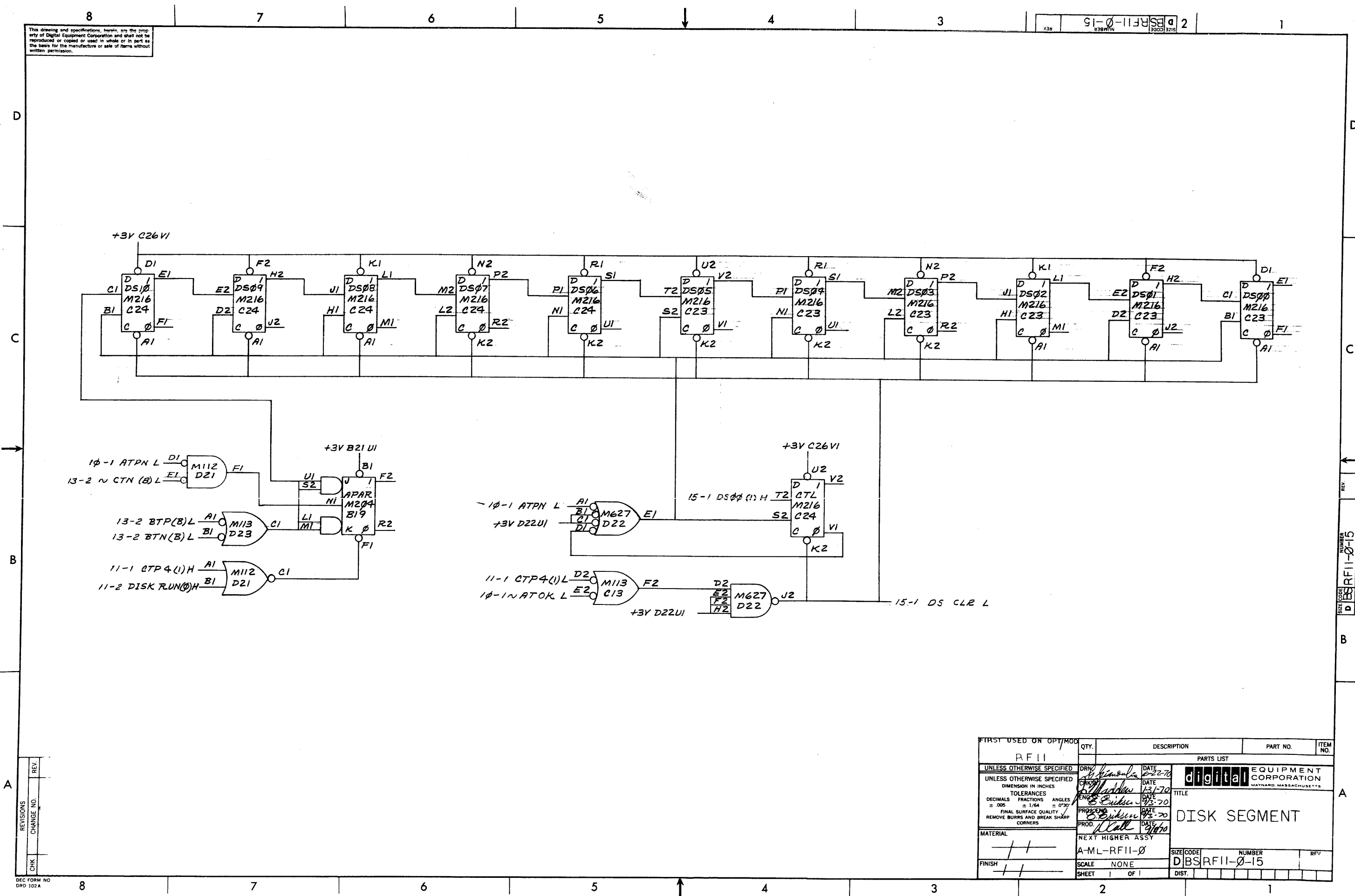


REV	
CHG	
NO.	
CH	

FIRST USED ON OPT/MOD RF11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN C. Caber	DATE 6/23/70	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
TOLERANCES	CHK M. S. Sullivan	DATE 7/31/70	TITLE DISK ADDRESS REGISTER (DAR)	
DECIMALS FRACTIONS ANGLES	PRG B. Sullivan	DATE 8/17/70	SIZE CODE DBS RF11-0-14	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	PROL ENG B. Sullivan	DATE 8/23/70	NUMBER A	
MATERIAL	PROD W. Call	DATE 9/16/70	REV. A	
FINISH	FIRST USED ON A-ML-RF11-0	SCALE NONE	SHEET 2 OF 2	
			DIST.	

REV A
 NUMBER DBS RF11-0-14
 SIZE CODE 3003216

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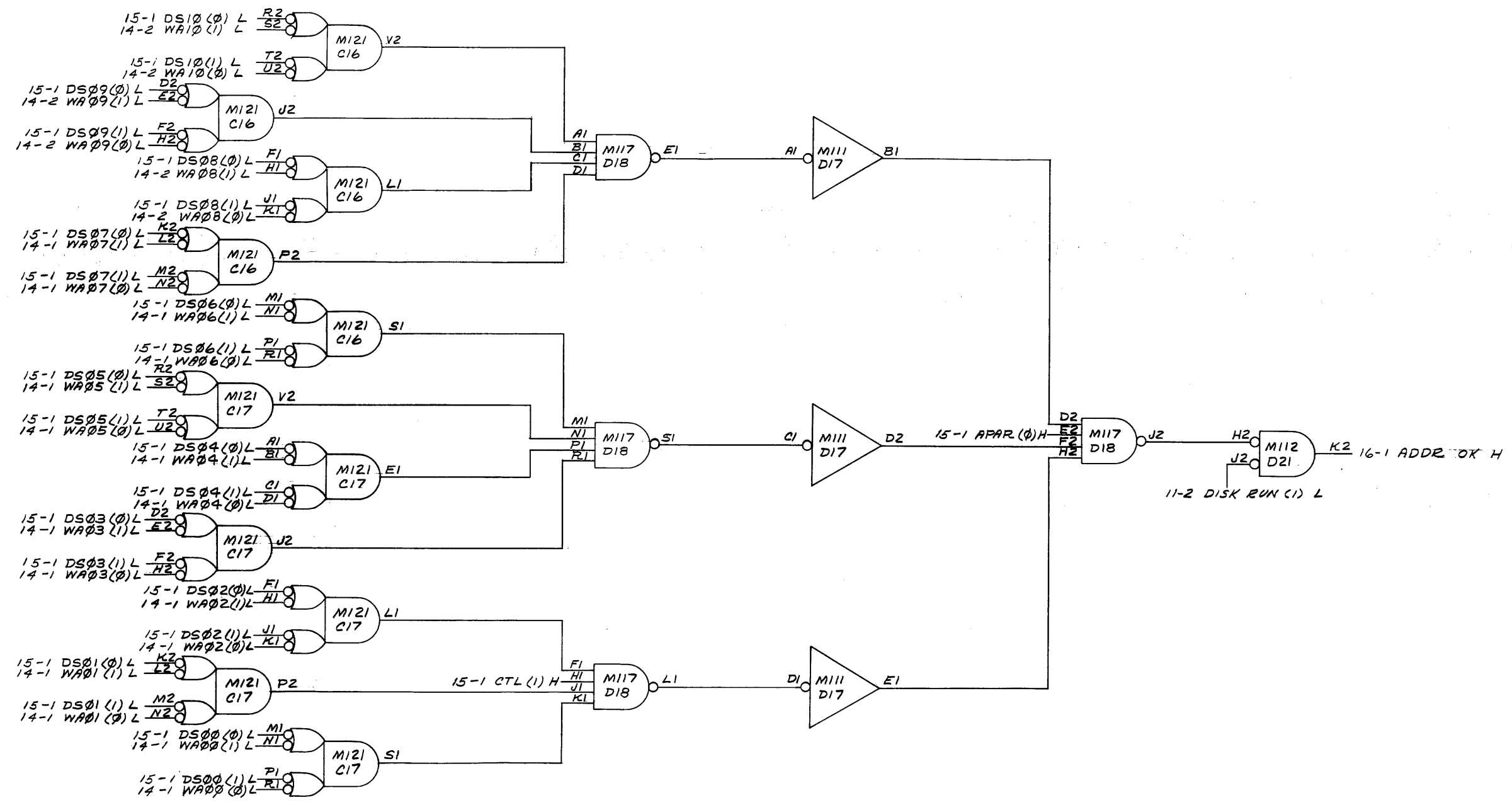


REV.	
CHANGE NO.	
CHK	

FIRST USED OR OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED		PARTS LIST		
DRN: <i>[Signature]</i> DATE: 6-22-70		digital CORPORATION MAYNARD, MASSACHUSETTS		
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES		TITLE		
TOLERANCES		DISK SEGMENT		
DECIMALS FRACTIONS ANGLES		NEXT HIGHER ASSY		
± .005 ± 1/64 ± 0°30'		A-ML-RF11-0		
FINAL SURFACE QUALITY		SCALE NONE		
REMOVE BURRS AND BREAK SHARP CORNERS		SHEET 1 OF 1		
MATERIAL		SIZE CODE NUMBER		
FINISH		DBSRF11-0-15		

REV. NUMBER DBSRF11-0-15

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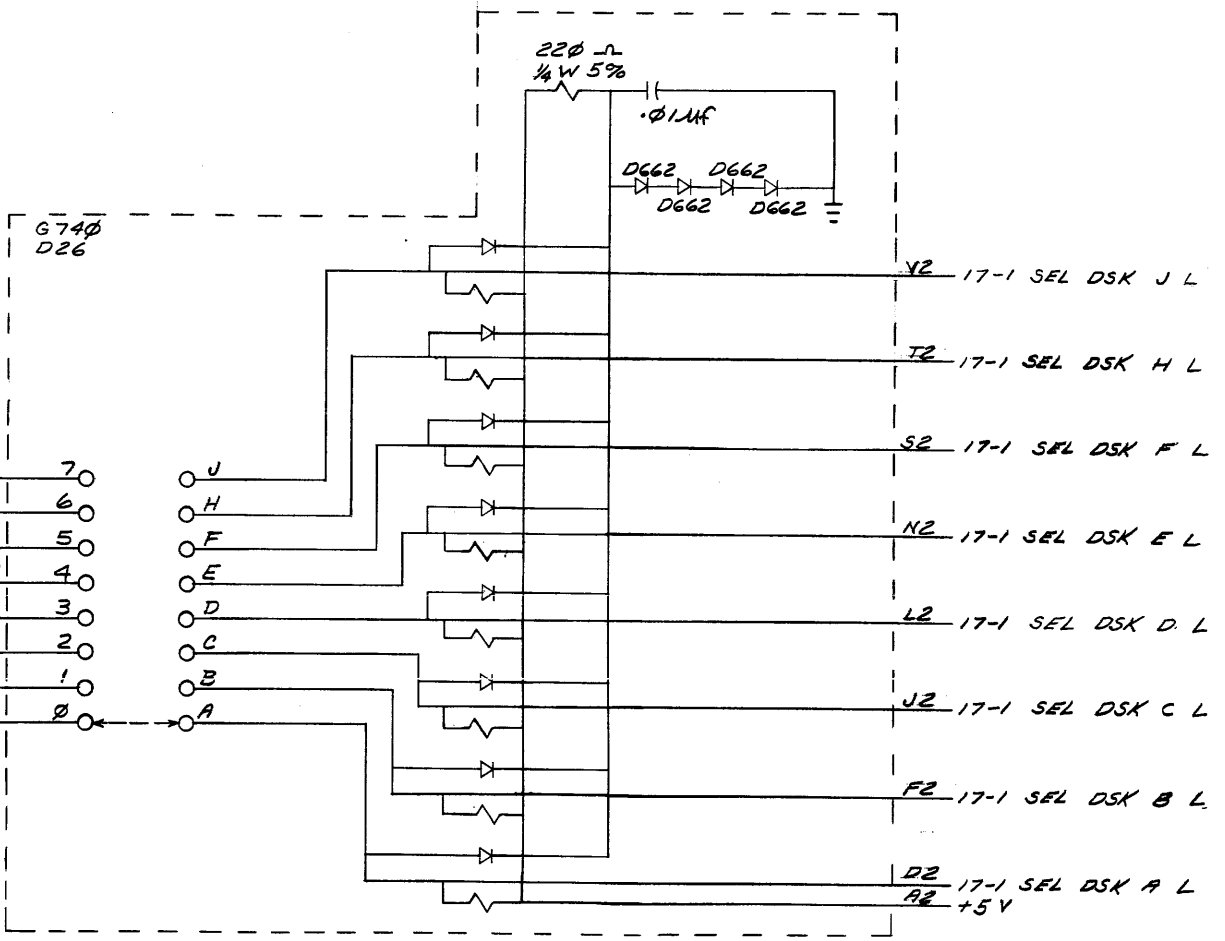
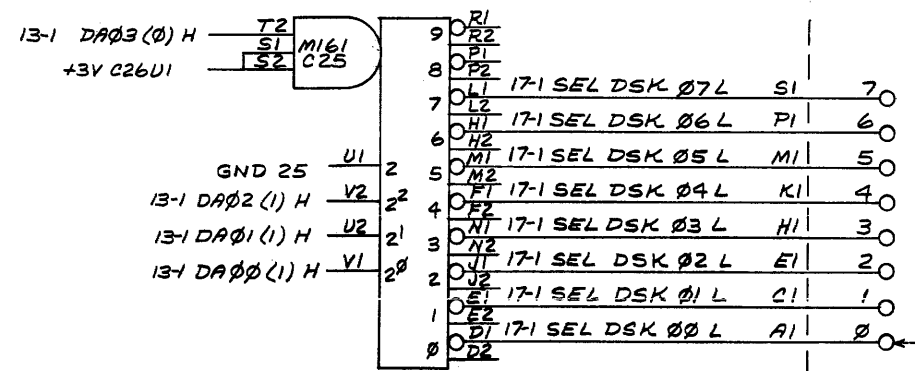
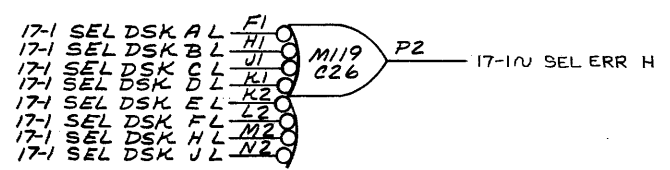


REV.	CHANGE NO.
CHK	

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	TITLE	
DIMENSION IN INCHES		7-31-70	COMPARATOR	
TOLERANCES	ENG	DATE		
DECIMALS FRACTIONS ANGLES		7-2-70		
.005 ± .004 .0130	PROZ	DATE		
FINAL SURFACE QUALITY		7-5-70		
REMOVE BURRS AND BREAK SHARP CORNERS	PROD.	DATE		
		7/5/70		
MATERIAL	NEXT HIGHER ASSY.			
++	A-ML-RF11-0			
FINISH	SCALE	NONE	SIZE CODE	NUMBER
++			DBS RF11-0-16	REV
	SHEET	OF 1	DIST.	

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REV. 2
NUMBER DBSRF11-0-17



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

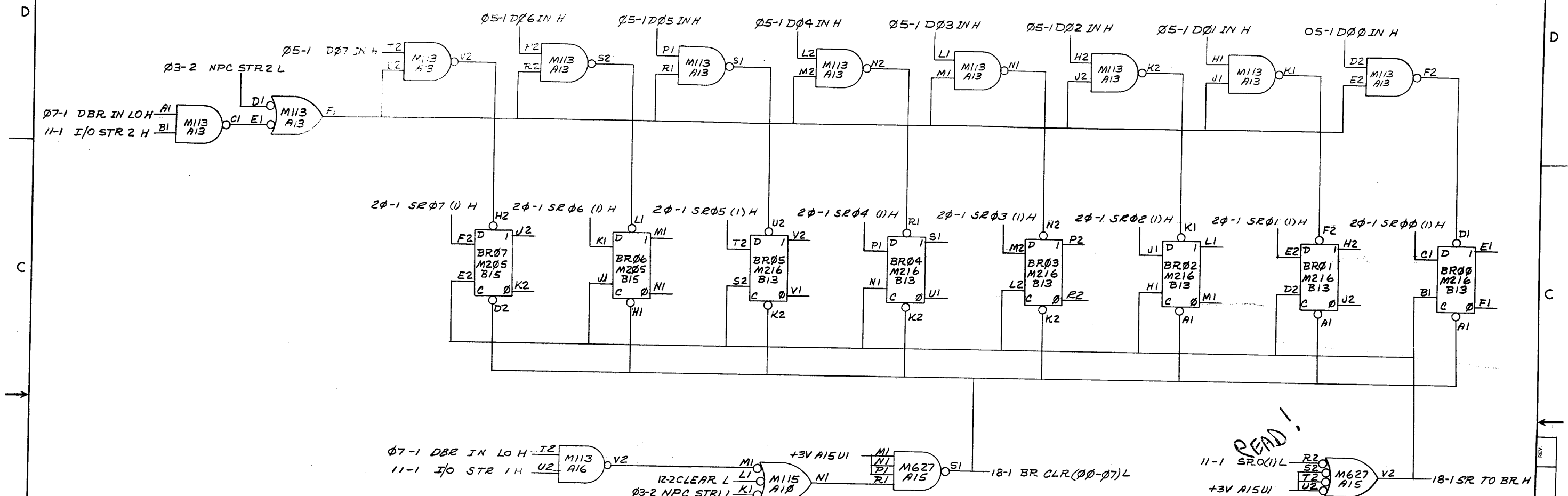
REV.	
CHANGE NO.	
CHK	

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED				
DRAWN	DATE	PARTS LIST		
6-23-70	6-23-70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
UNLESS OTHERWISE SPECIFIED	DATE	TITLE		
7-31-70	7-31-70	DISK SELECTION		
DIMENSION IN INCHES	DATE	SIZE CODE NUMBER REV		
TOLERANCES	DATE	DBSRF11-0-17		
DECIMALS FRACTIONS ANGLES	DATE	DIST.		
± .005 ± 1/64 ± 0°30'	DATE			
FINAL SURFACE QUALITY	DATE			
REMOVE BURRS AND BREAK SHARP CORNERS	DATE			
MATERIAL	NEXT HIGHER ASSY.			
FINISH	A-ML-RF11-0			
SCALE NONE	SHEET 1 OF 1			

DEC FORM NO DRD 102A

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81-0-1117-0-18



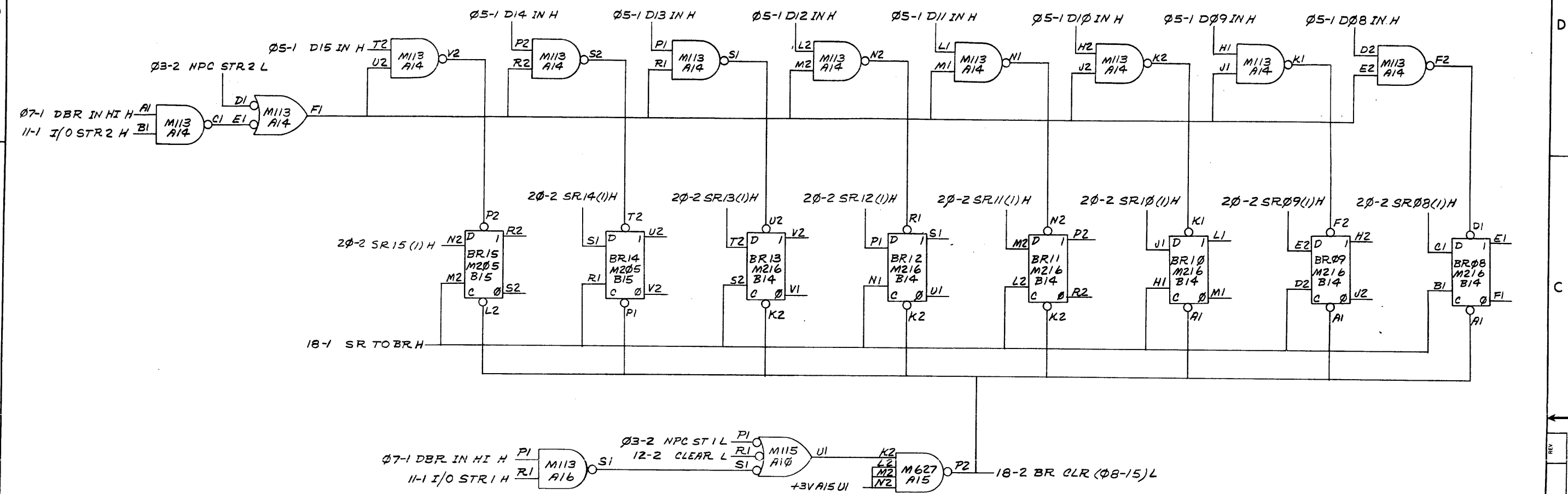
REV.	CHG.	NO.

DEC FORM NO. DRD 102A

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	CHK'D	DATE	TITLE	
DIMENSION IN INCHES			DISK DATA BUFFER REGISTER (DBR)	
TOLERANCES			A-ML-RF11-0	
±.005 FRACTIONS			SIZE CODE NUMBER REV	
±.004 ANGLES			D1BSRF11-0-18	
±.030 FINAL SURFACE QUALITY			SHEET 1 OF 2	
REMOVE BURRS AND BREAK SHARP CORNERS			DIST.	
MATERIAL				
FINISH				

REV. NUMBER
D1BSRF11-0-18

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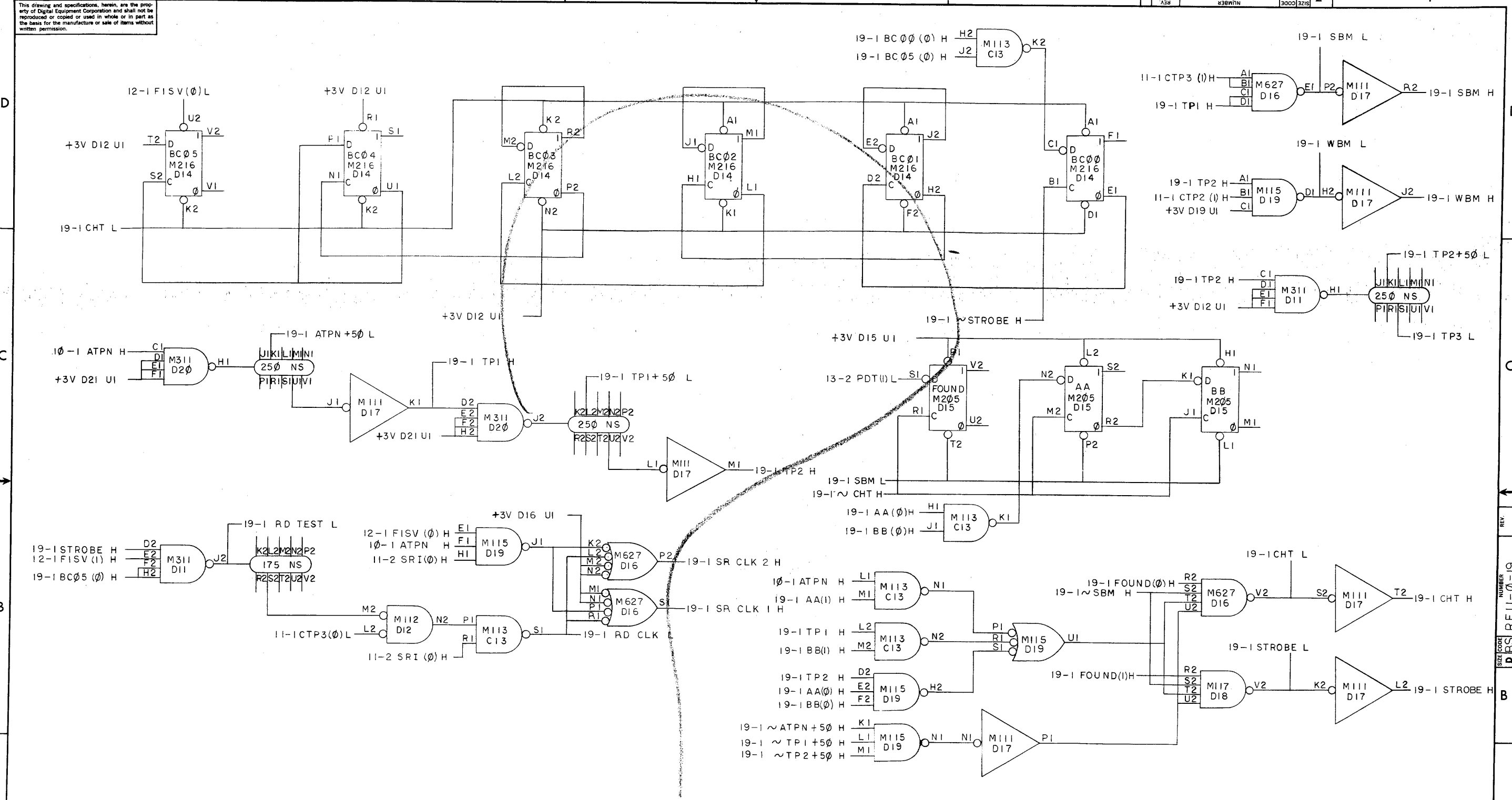
FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHN	DATE		
TOLERANCES	ENG	DATE	TITLE DISK DATA BUFFER REGISTER (DBR)	
DECIMALS FRACTIONS ANGLES	ENG	DATE		
± .005 ± 1/64 ± 0°30'	PROG	DATE	SIZE CODE NUMBER REV. D BS RF11-0-13	
FINAL SURFACE QUALITY	PROD	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS			SCALE NONE SHEET 2 OF 2	
MATERIAL				
FINISH			DIST.	

REV	NO.	DATE

DEC FORM NO. DRD 102A

REV. NO. NUMBER BS RF11-0-18

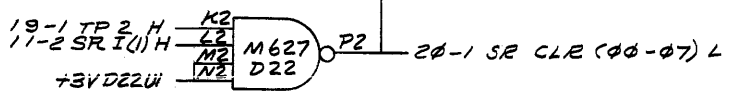
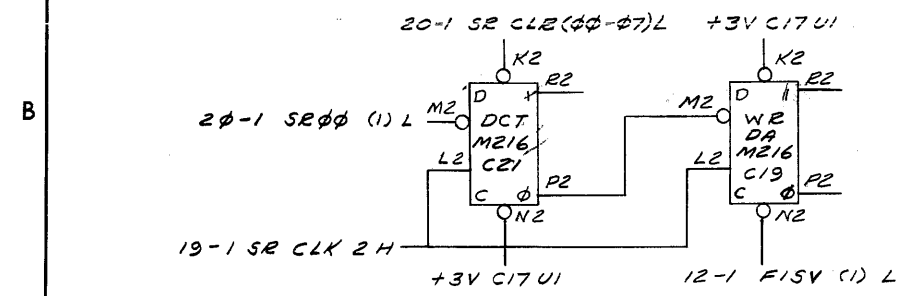
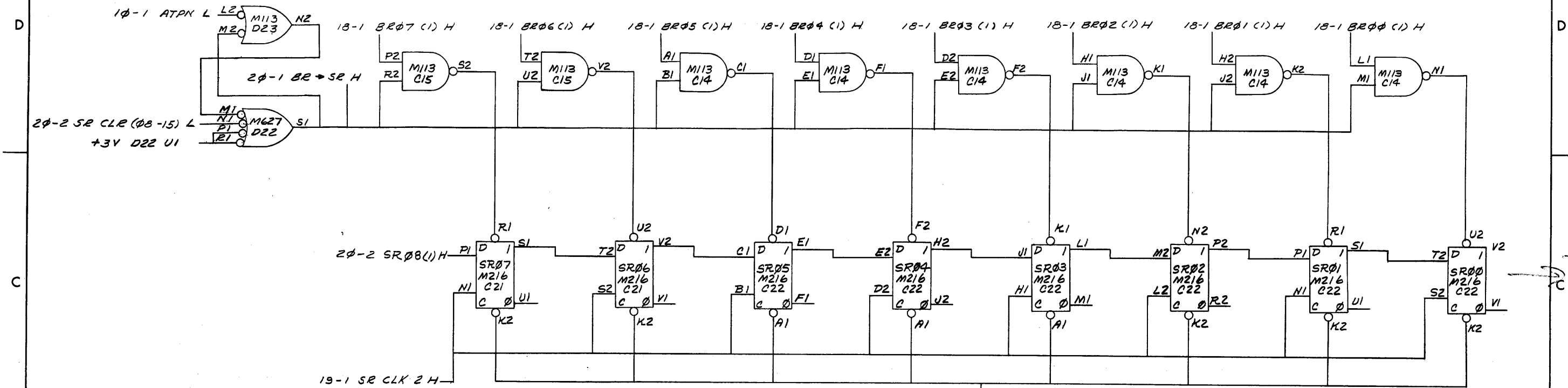
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REV. NO.	REV.
CHANGE NO.	
CHK	

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
UNLESS OTHERWISE SPECIFIED				
DRN.	DATE	PARTS LIST		
DRN.	DATE	digital EQUIPMENT CORPORATION		
DRN.	DATE	MAYNARD, MASSACHUSETTS		
TOLERANCES				
DECIMALS	FRACTIONS	ANGLES	TITLE	
.002	1/32	± 1/4	DISK TIMING CONTROL	
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	FIRST USED ON	SIZE CODE		
	A-NL-RF11-0	NUMBER		
FINISH	SCALE NONE	REV		
	SHEET 1 OF 1	DIST.		

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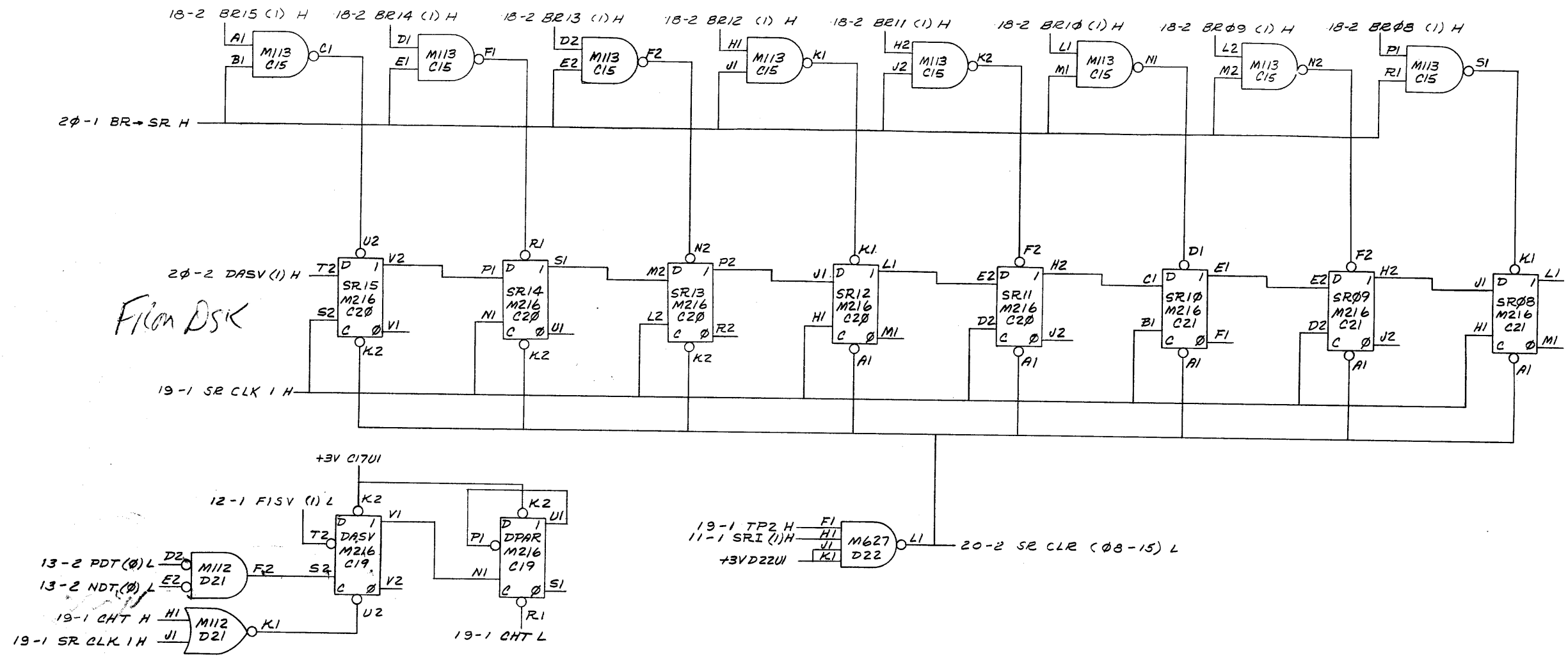


REV	CHANGE NO.

FIRST USED ON OPT/MOD.	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
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.	TITLE		
	A-ML-RF11-0	SHIFT REGISTER		
FINISH	SCALE NONE	SIZE CODE	NUMBER	REV
	SHEET 1 OF 2	DBSRF11-0-20		

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REV. 2
 NUMBER DBS RF11-0-20

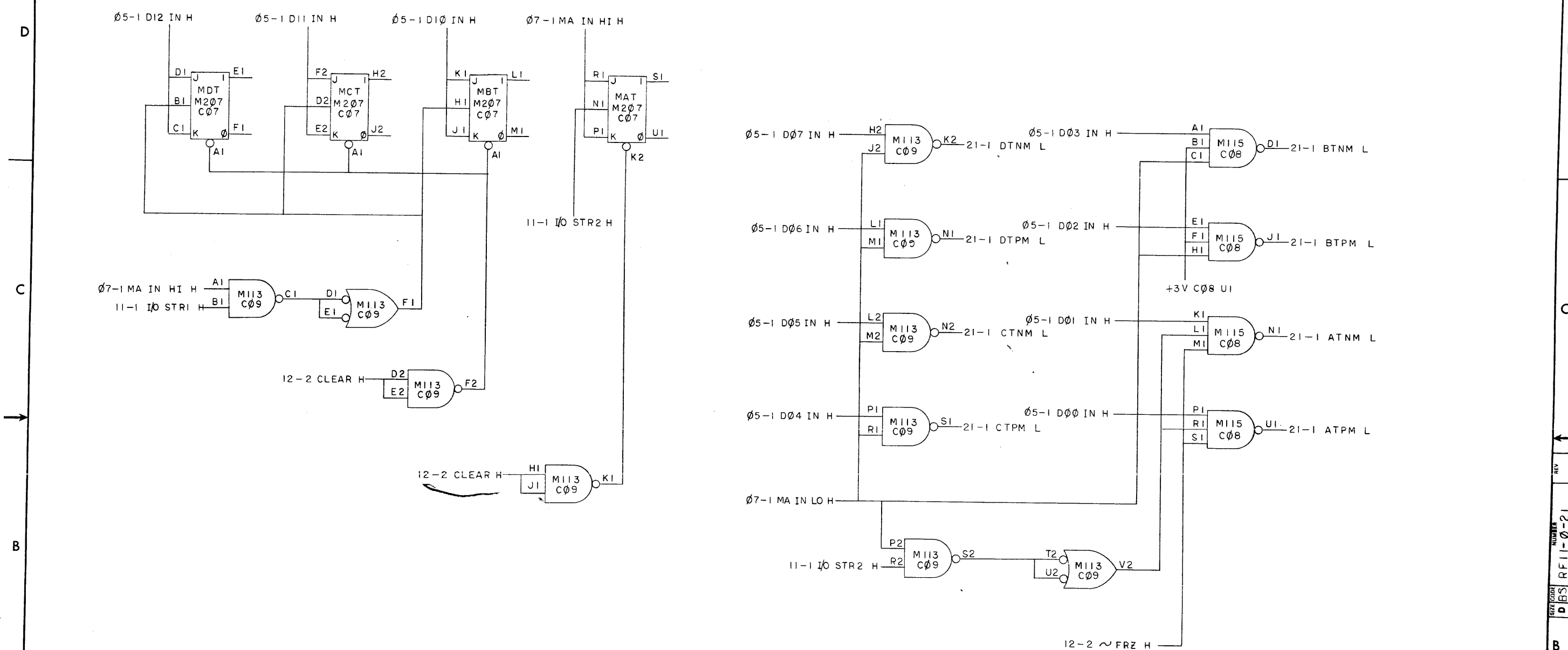


REV.	
CHANGE NO.	
CHK	

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHKD	DATE	TITLE	
DIMENSION IN INCHES	MAGN	DATE	SHIFT REGISTER	
TOLERANCES	ENG	DATE		
DECIMALS FRACTIONS ANGLES	PROJ	DATE		
= .005 = 1/64 = 0-30	PROD	DATE		
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	NEXT HIGHER ASSY.			
FINISH	A-ML-RF11-0	SCALE	SIZE/CODE	NUMBER
	++	NONE	DBS	RF11-0-20
		SCALE		REV
		SHEET 2 OF 2		

REV. 2
 NUMBER DBS RF11-0-20

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REV	NO.
CHK	CHANGE NO.

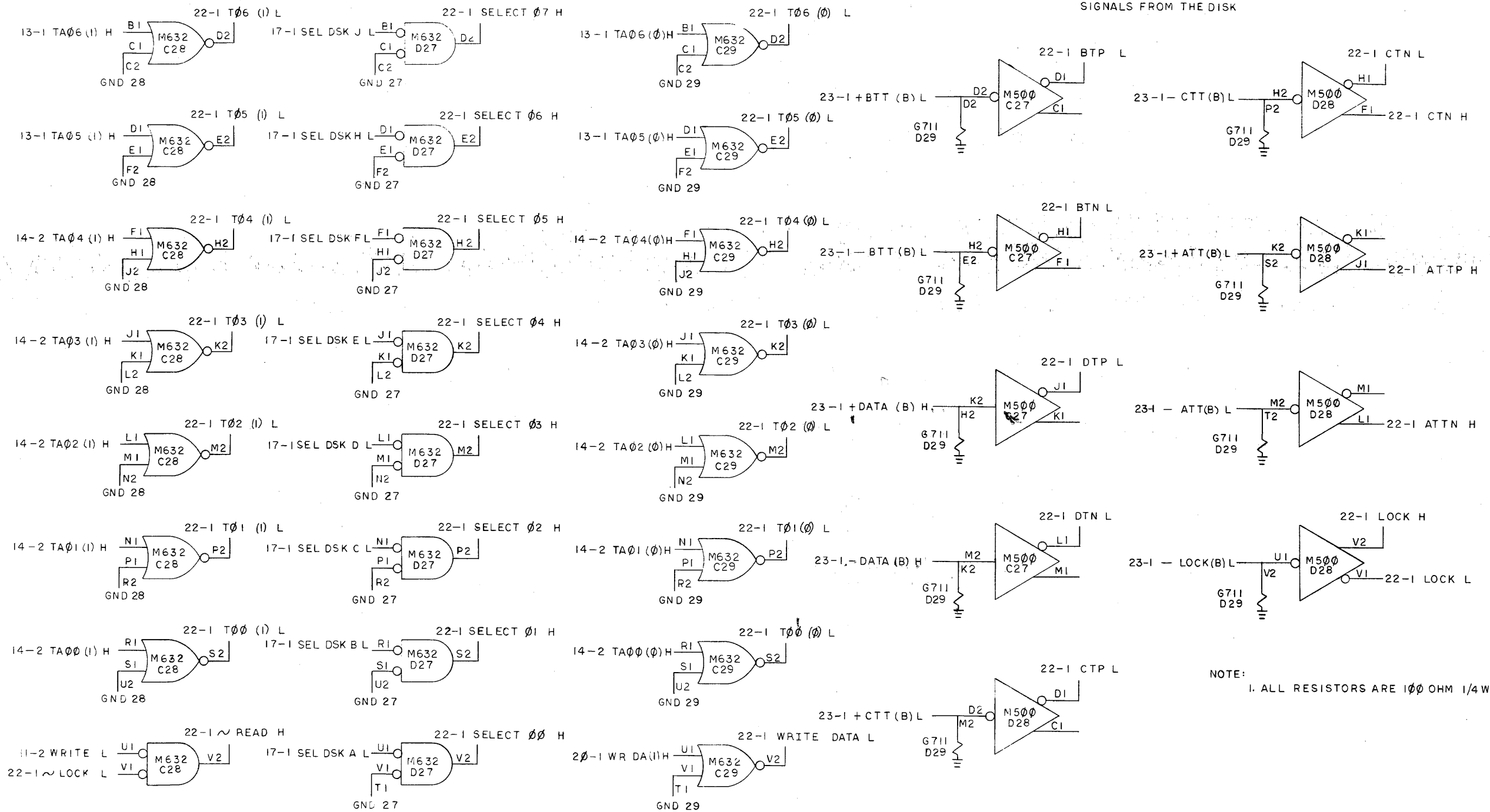
FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DIMENSION IN INCHES	CHK'D	DATE	TITLE	
TOLERANCES			MAINTENANCE REGISTER (MAR)	
DECIMALS FRACTIONS ANGLES				
± .005 ± .1/64 ± 0°30'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	FIRST USED ON		SCALE	NONE
	A-ML-RF11-0		SHEET	1 OF 1
FINISH			SIZE CODE	NUMBER
			DBS RF11-0-21	
			DIST.	

REV. NUMBER 12-0-11FR 2 1

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SIGNALS TO THE DISK

SIGNALS FROM THE DISK



D

C

B

A

D

C

B

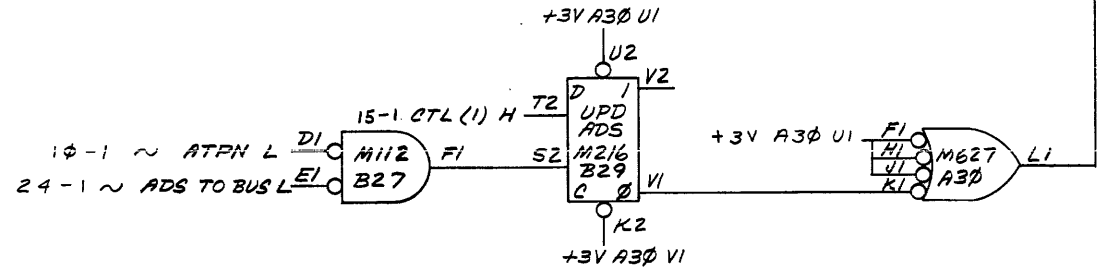
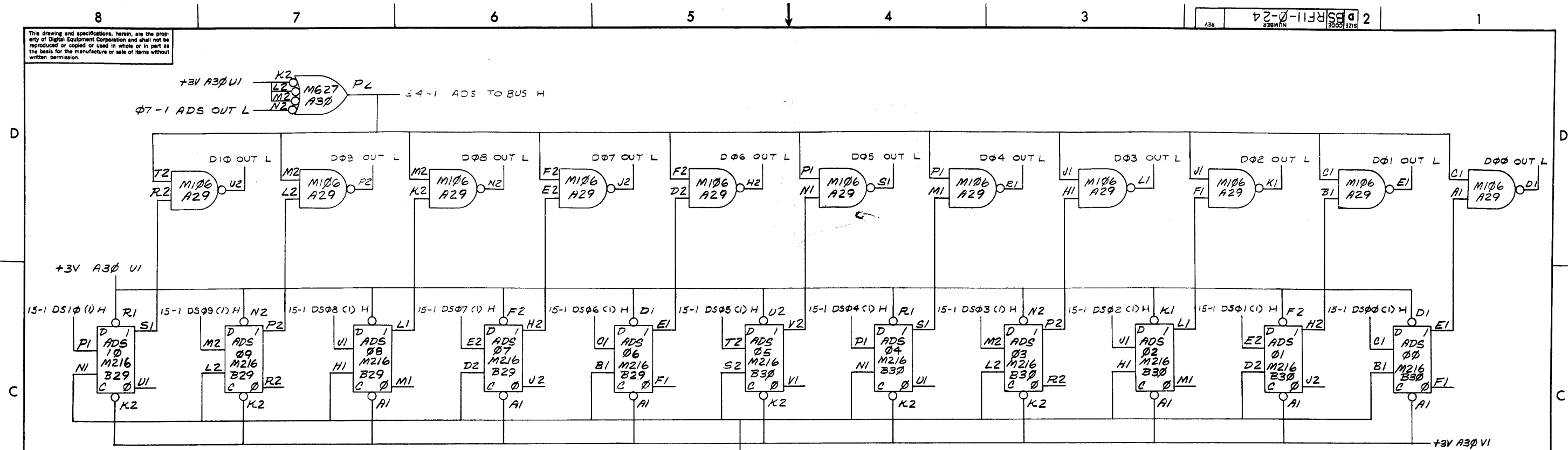
A

REV.	
CHANGE NO.	
CHK	

FIRST USED ON OPT/ MOD RF11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	TITLE	
DIMENSION IN INCHES			RF11-RS11 INTERFACE	
TOLERANCES			SIZE CODE NUMBER D BS RFI11-0-22	
DECIMALS FRACTIONS ANGLES			REV.	
= .005 ± 1/64 ± 30			SCALE	
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS			SHEET OF 1	
MATERIAL			DIST.	
FINISH				

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SIZE CODE DBS RFII-0-24 2

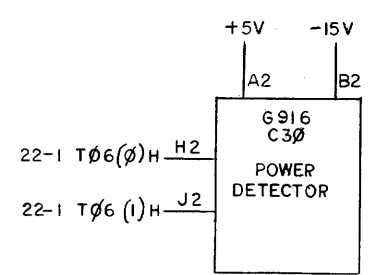
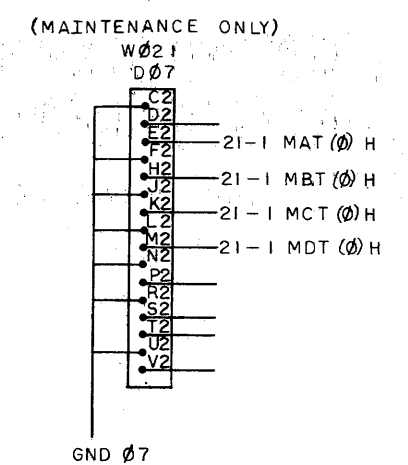
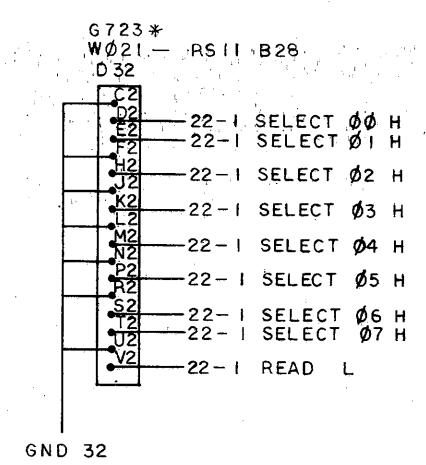
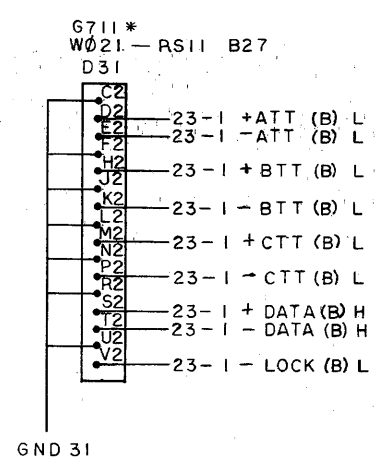
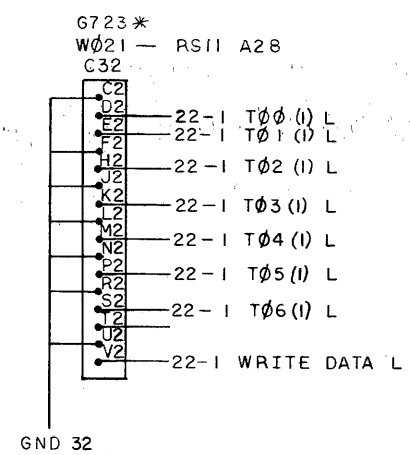
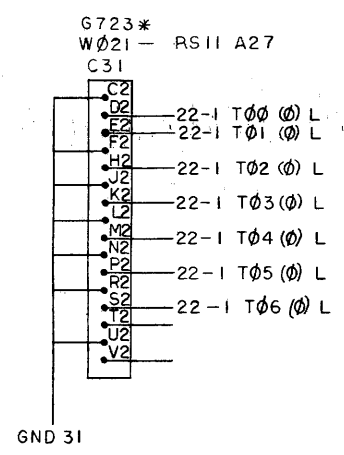


REVISIONS	REV.
CHANGE NO.	
CHK	

QUANTITY	DESCRIPTION	PART NO.	ITEM NO.
1	ADS REGISTER		

UNLESS OTHERWISE SPECIFIED	DRN	DATE	7-29-70
DIMENSION IN INCHES	CHK	DATE	7-31-70
TOLERANCES	ENG	DATE	8-15-70
DECIMALS FRACTIONS ANGLES	PROJ	DATE	9-13-70
± .005 ± 1/64 ± 0°30'			
FINAL SURFACE QUALITY			
REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL	NEXT HIGHER ASSY.		
FINISH	A-ML-RFII-0		
SCALE	NONE	SIZE CODE	DBS RFII-0-24
SHEET	1	OF	1

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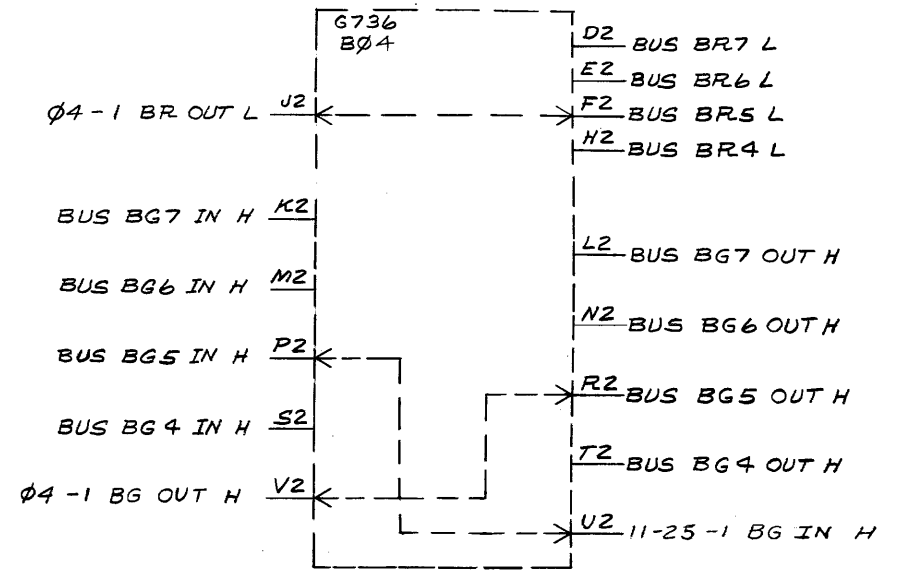
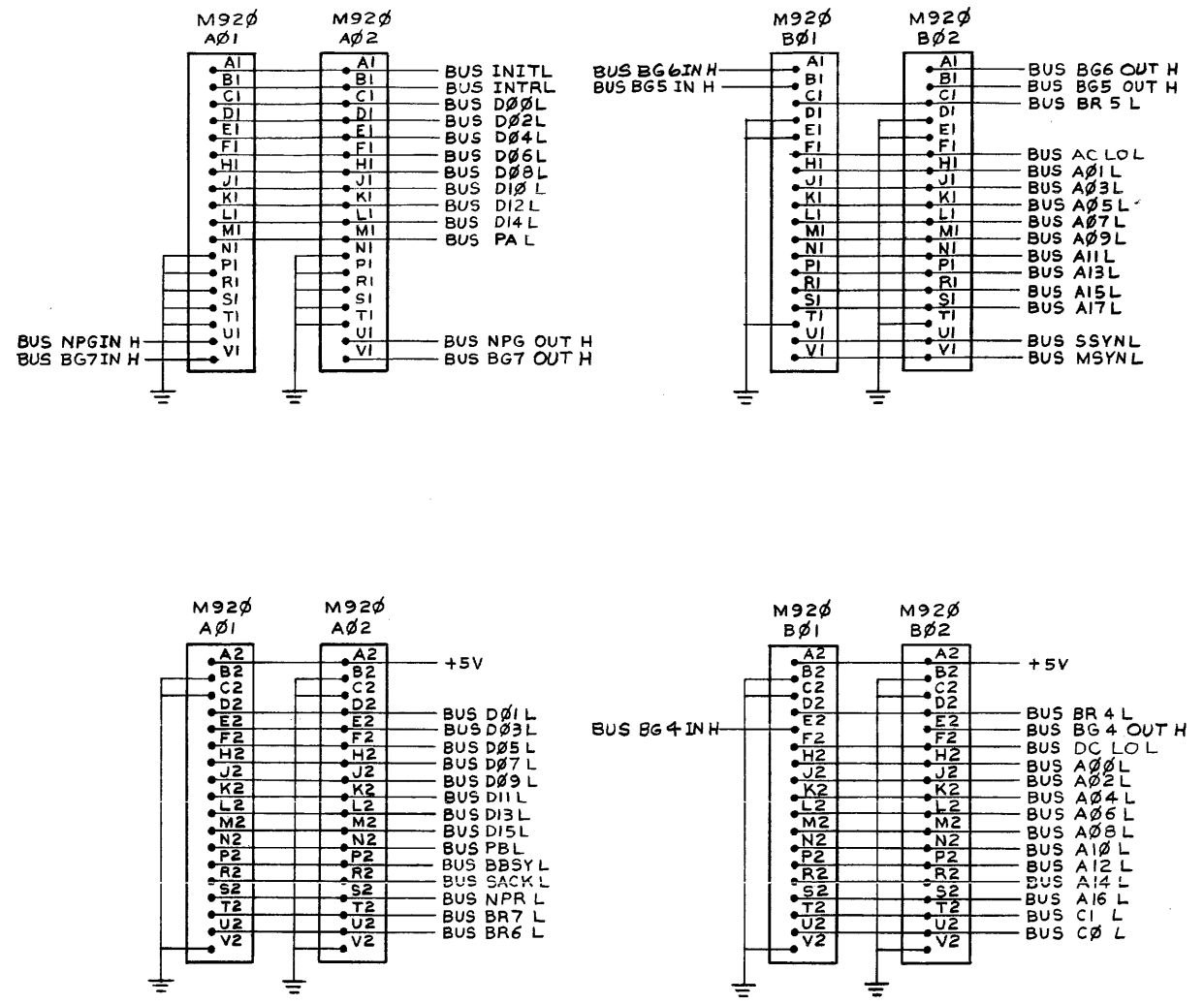
* NOTES:
 1. TERMINATOR CARDS (G723) LOCATED IN C31, C32 & D32 AND G711 IN D31 ARE TO BE REMOVED AND PUT IN THE (DISK BUS OUT) CABLE SLOTS OF THE LAST RS11. INSERT G723'S IN LOCATIONS A25, A26 & B26 AND THE G711 IN LOCATION B25 OF THE LAST RS11.

REV	CHG	NO.	DATE
A			

REVISIONS
 JENKINS 7-5-72
 JENKINS 7-13-72

FIRST USED ON/OPT/MOD RF11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRAWN	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHKD	DATE	TITLE	
DIMENSION IN INCHES	ENG	DATE	RF11 - RS11	
TOLERANCES	PROG	DATE	CABLE	
DECIMALS FRACTIONS ANGLES	PROD	DATE	INTERFACE	
±.008 ±.015 ±.030		DATE	SIZE CODE	NUMBER
FINAL SURFACE QUALITY			D I C	RF11-0-23
REMOVE BURRS AND BREAK SHARP CORNERS			DIST.	REV.
MATERIAL	FIRST USED ON			A
FINISH	A-ML-RF11-0	SCALE NONE		
		SHEET 1 OF 1		

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

REVISIONS	CHANGE NO.	REV.
1	RF11-00038	A
JENKINS 7-13-72		

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RF11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DIMENSION IN INCHES	CHKD.	DATE	TITLE	
TOLERANCES	ENG.	DATE	BUS CABLE INTERFACE	
DECIMALS FRACTIONS ANGLES	PROD. ENG.	DATE	NEXT HIGHER ASS'Y.	
± .005 ± 1/64 ± 0°30'	PROD.	DATE	A-ML-RF11-0	
FINAL SURFACE QUALITY			SIZE CODE	NUMBER
REMOVE BURRS AND BREAK SHARP CORNERS			D I C	RF11-0-25
MATERIAL			DIST.	REV
FINISH				A
	SCALE	NONE		
	SHEET	1 OF 1		

REV A
NUMBER
RF11-0-25
D I C

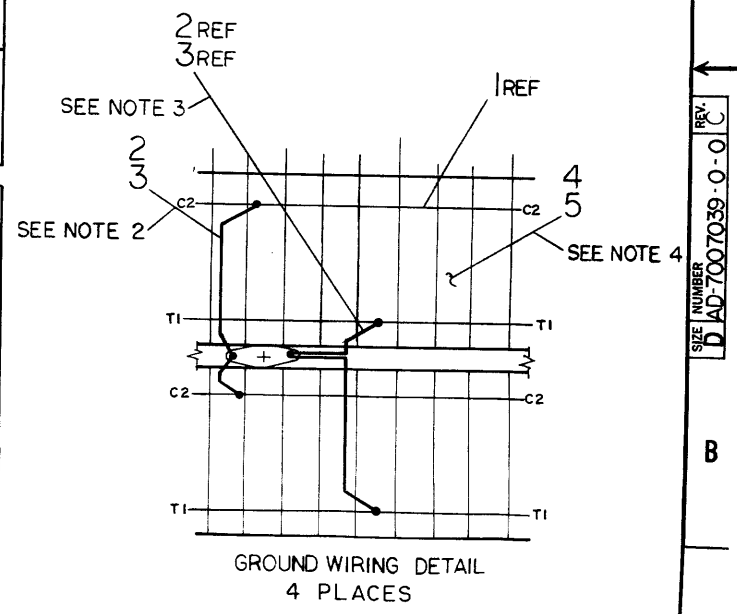
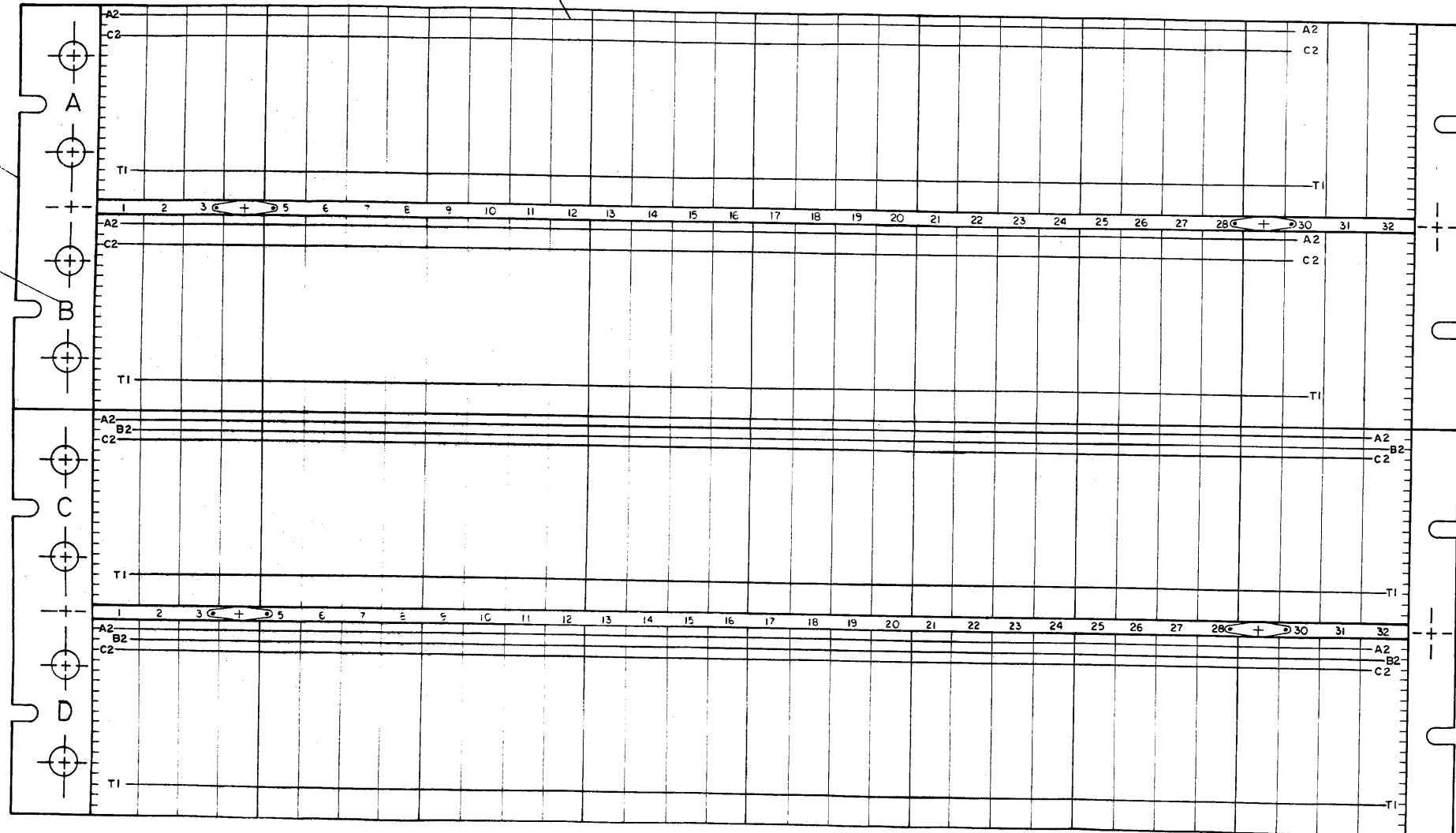
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REV. NUMBER 0-0-6207039-0-0

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	B28A2	RESISTOR

* DENOTES POSITIVE SIDE

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



REV.	CHANGE NO.	DATE	BY	CHK'D
A	00004	1-6-71	E. ERIKSON	
B	00007	1-11-71	JENKINS	
C	00008	5-30-72	JENKINS	
		7-13-72	JENKINS	

FIRST USED ON OPTION/MODEL RF II	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
DO NOT SCALE DRAWING	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DATE	TITLE		
TOLERANCES	DATE	WIRED ASS'Y RF II		
ANGLES = 90°	DATE	SIZE CODE NUMBER		
FINAL SURFACE QUALITY	DATE	D AD 7007039-0-0		
REMOVE BURRS AND BREAK SHARP CORNERS	DATE	REV. C		
MATERIAL	NEXT HIGHER ASSY	SCALE NONE		
	C-AD-7007040-0-0	SHEET OF 1		
FINISH		DIST.		

REV. C
D AD 7007039-0-0

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST			QUANTITY / VARIATION										
MADE BY P. J. LeBlanc		CHECKED R. Cook	SECTION 1										
DATE 9-2-70		DATE 9-17-70											
ENG <i>E. Burkner</i>		PROD <i>D. Gull</i>	ISSUED SECT. 1										
DATE 10/2-70		DATE 10/5/70											
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION											
1	1205541	BUS STRIP			AR								
2	9107560-1	#22 AWG BUS WIRE			AR								
3	9107265-09	TUBING #22 TEFLON WHT			AR								
4	9105740-44	WIRE #30 AWG SOLID TEF INS YEL			AR								
5	9105740-66	WIRE #30 AWG SOLID TEF INS BLU			AR								
6	A-DC-7406371-0-0	LOGIC FRAME DECALS			AR								
7	D-AD-5404491-0-0	H911 MTG PANEL			2								
8	1301401	RESISTOR 75Ω OHMS 1/4W ±5%			2								
9	1300365	RESISTOR 1K OHMS 1/4W ±5%			2								
10	1000023	CAPACITOR 330MMF 100V 5%			1								
11	1002323	CAPACITOR .022MFD 100V 10%			1								
12	1004812	CAPACITOR 15MFD 20V 10%			1								
13	1304855	RESISTOR 9.09K OHMS 1/8W ±1%			1								
14	1302388	RESISTOR 2K OHMS 1/4W ±5%			1								
15	1302391	RESISTOR 20K OHMS 1/4W ±5%			1								
16	9107255-09	HEAT SHRINKAGE TUBING - 1/16" WH			A/R								
REF	K-WL-RF11-0-29	WIRE LIST			-								
TITLE WIRED ASSY RF11			ASSY NO. D-AD-7007039-0-0		SIZE CODE A PL	NUMBER 7007039-0-0				REV. C	ECO NO. RF11-00008		
			SHEET 1 OF 1		DIST.								

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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
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DEC FORM NO. DRA 107

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE RF11-RS11 CALIBRATION PROCEDURE

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

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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.

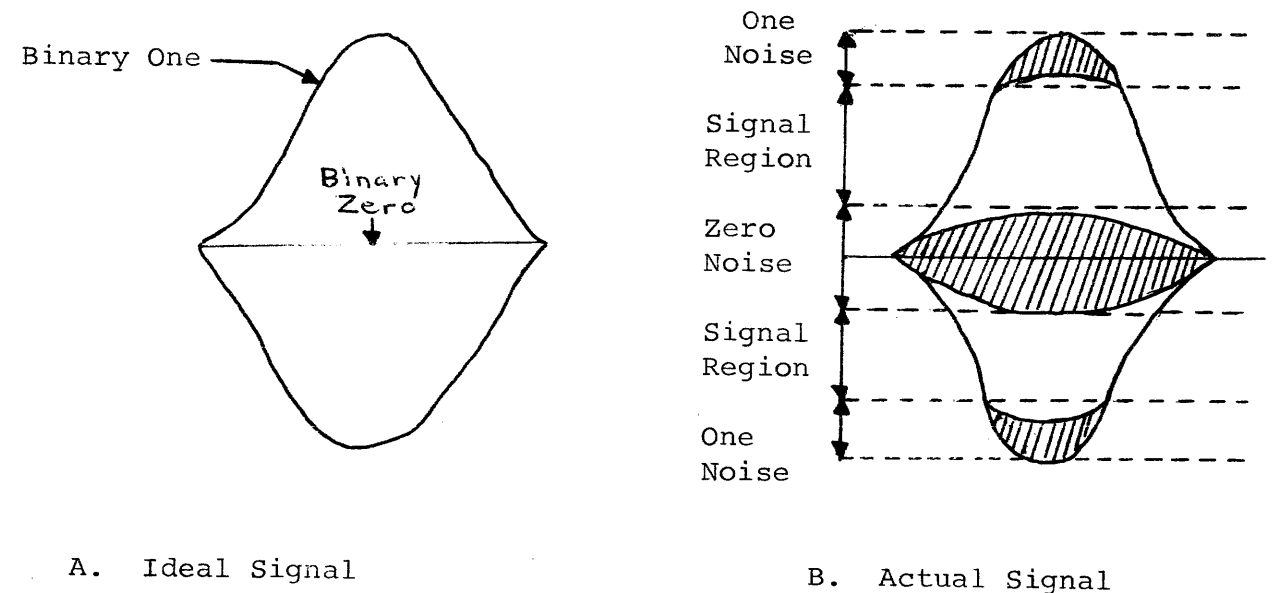


Figure 1: Sense Amplifier Output Signal - Ones & Zeros Superimposed

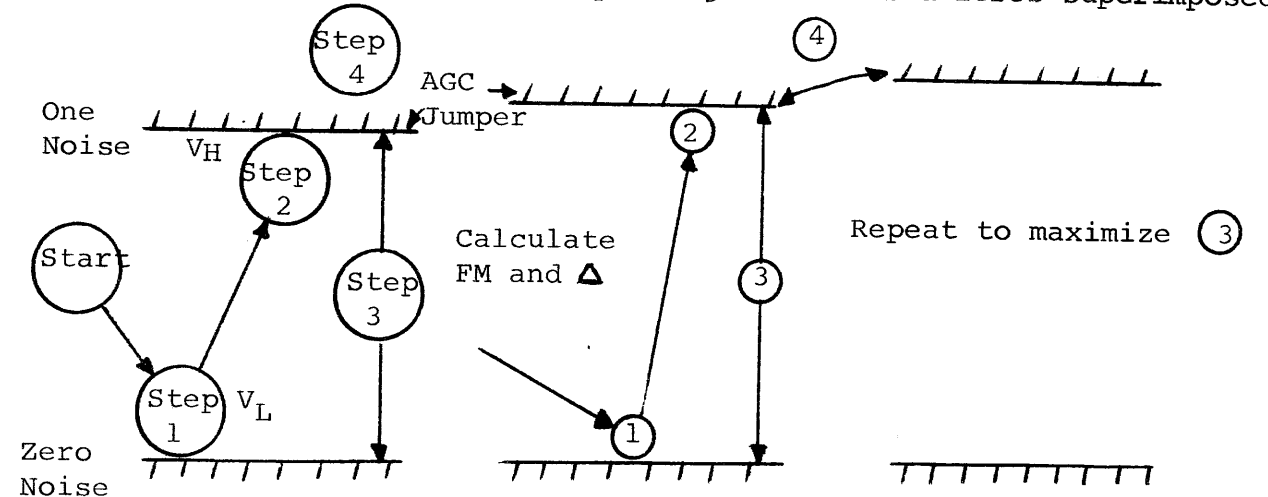


Figure 2: RS11 Setup Procedure

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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:

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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).

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- 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.

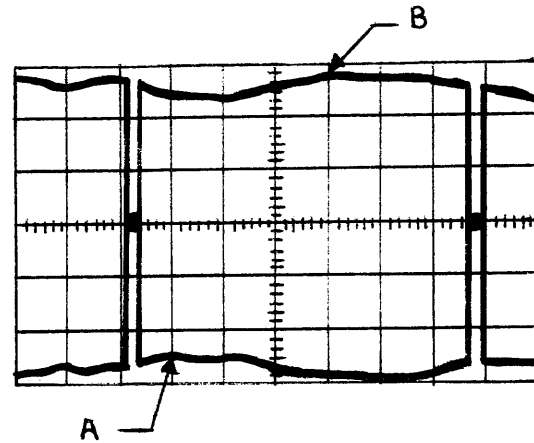


Figure 3: Average Gain Measurement

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). |

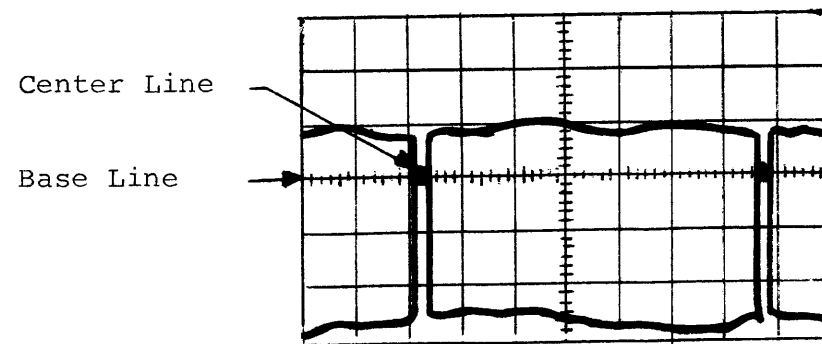


Figure 4: Average Slice Measurement

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- 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.

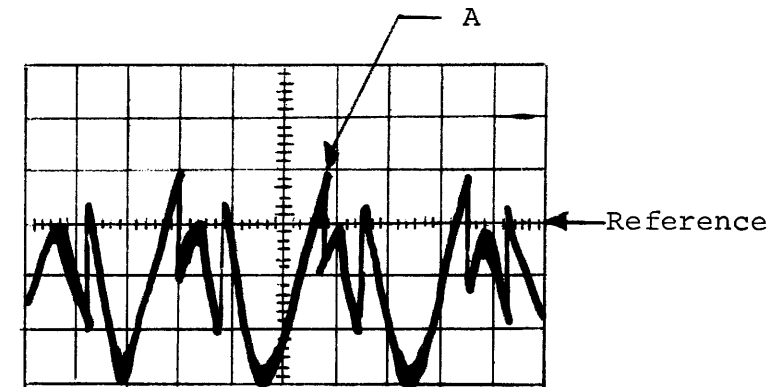


Figure 5: Slice Measurement

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

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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

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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).

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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.

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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
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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.

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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

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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

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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:

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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%.

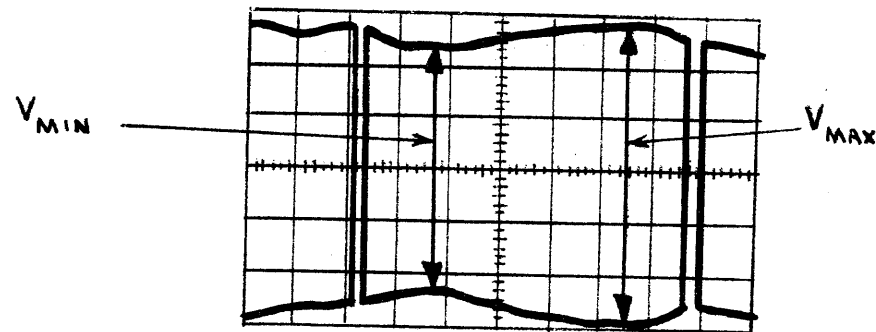


Figure 7: Surface Modulation

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

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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:

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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 A	CODE SP	NUMBER RF11-0-38	REV
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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. Sullivan* CHECKED *7-13-71* SECTION
DATE *7/13/71* DATE *L. P. Loring*
ENG *L. P. Loring* 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			

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS SOFTWARE 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 G. STRINGER		CHECKED <i>Stringer</i>	SECTION					KIT CHECK		BY DATE		INSTALLATION CHECK		BY DATE												
DATE		DATE 9-14-71																								
ENG <i>Stringer</i>		PROD	ISSUED SECT.																							
DATE 9-17-71		DATE																								
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																								
1	MAINDEC-11-DZRFA-D	RF11 MULTI DISK																								
2	MAINDEC-11-DZRFA-PB	RF11 MULTI DISK																								
3	MAINDEC-11-D50A-D	RF11 DISK DATA																								
4	MAINDEC-11-D51A-PB	RF11 STATIC TEST																								
5	MAINDEC-11-D52A-PB	RF11 DATA TEST																								
6	DEC-11-R1DA-D	RF11 DISK DRIVER																								
7	DEC-11-R1DA-PA	RF11 DISK DRIVER																								
8	DEC-11-N1ZA-D	PDP11 DEVICE DRIVER PACKAGE																								
TITLE		ASSY. NO.		SIZE	CODE	NUMBER			REV.	ECO NO																
SOFTWARE				A	SL	RF11-0-37			A	RF11-00008																
SHEET 1 OF 1				DIST.																						

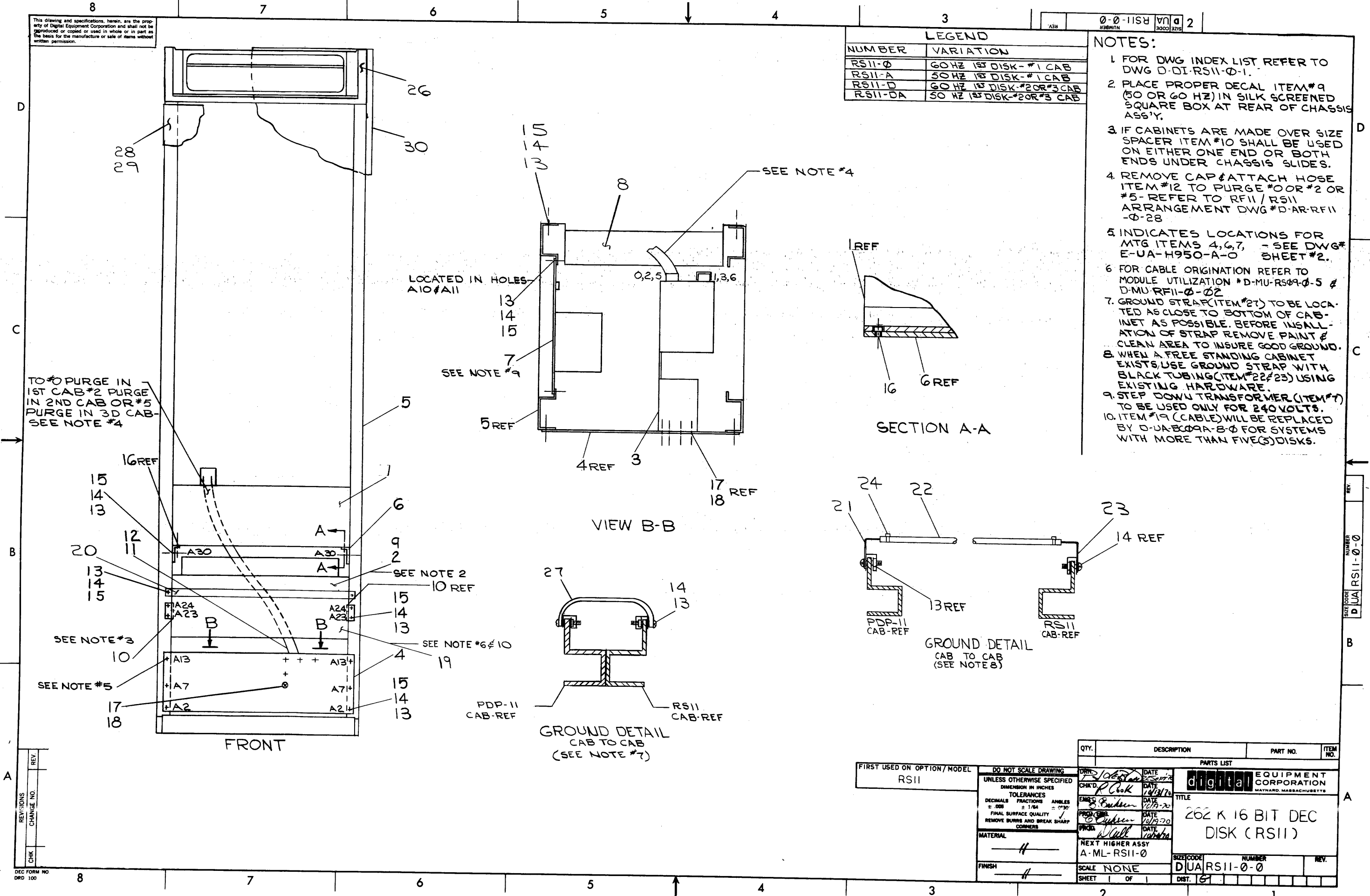
DEC FORM NO. DEC 16-(327)-1049-N471
DRA 120

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3000 325

LEGEND	
NUMBER	VARIATION
RS11-0	60HZ 16 DISK-#1 CAB
RS11-A	50HZ 16 DISK-#1 CAB
RS11-D	60HZ 16 DISK-#2OR#3 CAB
RS11-DA	50HZ 16 DISK-#2OR#3 CAB

- NOTES:
- FOR DWG INDEX LIST REFER TO DWG D-DI-RS11-0-1.
 - 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 #0OR #2 OR #5- REFER TO RF11/RS11 ARRANGEMENT DWG #D-AR-RF11-0-28
 - 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-RF11-0-02
 - GROUND STRAP (ITEM #27) TO BE LOCATED AS CLOSE TO BOTTOM OF CABINET AS POSSIBLE. BEFORE INSTALLATION OF STRAP REMOVE PAINT & CLEAN AREA TO INSURE GOOD GROUND.
 - WHEN A FREE STANDING CABINET EXISTS, USE GROUND STRAP WITH BLACK TUBING (ITEM #22#23) USING EXISTING HARDWARE.
 - STEP DOWN TRANSFORMER (ITEM #7) TO BE USED ONLY FOR 240 VOLTS.
 - ITEM #19 (CABLE) WILL BE REPLACED BY D-UA-BC09A-8-0 FOR SYSTEMS WITH MORE THAN FIVE(S) DISKS.



TO PURGE IN 1ST CAB #2 PURGE IN 2ND CAB OR #5 PURGE IN 3D CAB - SEE NOTE #4

LOCATED IN HOLES A10 #ALL

SEE NOTE #4

SEE NOTE #9

SEE NOTE #3

SEE NOTE #5

SEE NOTE 2

SEE NOTE #6 & 10

GROUND DETAIL CAB TO CAB (SEE NOTE #7)

GROUND DETAIL CAB TO CAB (SEE NOTE 8)

REV	CHANGE NO.

DEC FORM NO DED 100

FIRST USED ON OPTION/MODEL RS11

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED	DATE 10/27/72	DATE 10/27/72
TOLERANCES DIMENSION IN INCHES	CHK'D R Cook	DATE 10/18/70
DECIMALS FRACTIONS ANGLES	ENG'S B. Eubank	DATE 10/19/70
± .008 ± 1/64 ± 0°30'	PROD. G. Eubank	DATE 10/19/70
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	PRD. G. Eubank	DATE 10/19/70
MATERIAL	SCALE NONE	DATE 10/19/70
FINISH	SHEET 1 OF 1	DATE 10/19/70

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION			
MAYNARD, MASSACHUSETTS			
TITLE			
262 K 16 BIT DEC DISK (RS11)			
SIZE CODE	NUMBER	REV.	
DUA	RS11-0-0		
DIST. 16			

REV. NUMBER DUA RS11-0-0

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY P. LEBLANC
DATE 9-22-70
ENG *P. LeBlanc*
DATE 10/19-70

CHECKED R. COOK
DATE 9-30-70
PROD *R. Cook*
DATE 10/20/70

SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
1	D-UA-RS08-M-0	DISK 60 HZ
1	D-UA-RS08-MA-0	DISK ASSY 50 HZ
2	D-UA-RS09-P-0	CHASSIS ASSY WITH LOGIC
2	E-AD-7006255-0-0	BLOWER FILTER ASSY (RS09)
4	D-MD-7407235-0-0	PLATE, MTG BLOWER
5	C-PL-7006501-20-0	BASIC CABINET ASSY 19"
6	B-MD-7407013-0-0	SUPPORT
7	D-AD-7006416-0-0	STEP DOWN TRANS ASSY
8	D-UA-855-0-0	LINE FILTER & POWER CONTROL 855
9	A-DC-7406707-0-0	POWER PANEL DECAL (60 HZ)
9	A-DC-7406707-0-0	POWER PANEL DECAL (50 HZ)
**	C-MD-7407442-0-0	SPACER, CHASSIS SLIDES
**	9007779	HOSE CLAMP 1-3/4
12	1209470	HOSE 1-1/2 I.D. #CMD#FT-3214-1 VAC-U-FLEX
13	9007786	NUT, C31758-1032-27 TINNERMAN
14	9006073-3	SCR, PHL HD TRUSS #10-32 X 1/2 SST
15	9007651	WASH, EXT TOOTH #10
16	9006368	SCR, SOC HD CAP #1/4 -20 X 1/4 SST
17	9006056-3	SCR, PH HD TRUSS #1/4-20 X 1/2 SST
18	9006724	WASH, EXT TOOTH 1/4 I.D.
*	USE ONLY FOR 240 VOLTS	
**	NOT A PRODUCTION PART -- SEE NOTE 3 ON ASSY D-UA-RS11-0-0	

TITLE 262 16 BIT DEC DISK (RS11)

ASSY NO. D-UA-RS11-0-0
SHEET 1 OF 2

ITEM NO.	DESCRIPTION	QUANTITY / VARIATION			
		RS11-0 (60 HZ)	RS11-A (50 HZ)	RS11-D (60HZ)	RS11-DA (50 HZ)
1	DISK 60 HZ	1	0	1	0
1	DISK ASSY 50 HZ	0	1	0	1
2	CHASSIS ASSY WITH LOGIC	1	1	1	1
2	BLOWER FILTER ASSY (RS09)	1	1	1	1
4	PLATE, MTG BLOWER	1	1	1	1
5	BASIC CABINET ASSY 19"	1	1	1	1
6	SUPPORT	2	2	2	2
7	STEP DOWN TRANS ASSY	1	1	0	0
8	LINE FILTER & POWER CONTROL 855	1	1	0	0
9	POWER PANEL DECAL (60 HZ)	1	0	1	0
9	POWER PANEL DECAL (50 HZ)	0	1	0	1
**	SPACER, CHASSIS SLIDES	A/RA/RA/RA/R			
**	HOSE CLAMP 1-3/4	2	2	2	2
12	HOSE 1-1/2 I.D. #CMD#FT-3214-1 VAC-U-FLEX	A/RA/RA/RA/RA/R			
13	NUT, C31758-1032-27 TINNERMAN	26	26	20	20
14	SCR, PHL HD TRUSS #10-32 X 1/2 SST	26	26	20	20
15	WASH, EXT TOOTH #10	26	26	20	20
16	SCR, SOC HD CAP #1/4 -20 X 1/4 SST	4	4	4	4
17	SCR, PH HD TRUSS #1/4-20 X 1/2 SST	6	6	6	6
18	WASH, EXT TOOTH 1/4 I.D.	6	6	6	6
*	USE ONLY FOR 240 VOLTS				
**	NOT A PRODUCTION PART -- SEE NOTE 3 ON ASSY D-UA-RS11-0-0				

SIZE CODE **A PL** NUMBER RS11-0-0
REV. ECO NO.

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY P. LEBLANC
DATE 9-22-70
ENG *P. LeBlanc*
DATE 10/19-70

CHECKED R. COOK
DATE 9-30-70
PROD *R. Cook*
DATE 10/20/70

SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
19	C-IA-7005820-4-0	CABLE, W021 TO W011 (9 FT. LONG)
20	B-5100	PANEL, BLANK 7402025
21	9107682	CABLE BRAIDED #8672 BELDEN 5/8" X4 FT LG
22	9107245	TUBING, BLK 3/8" DIA 4 FT LG
23	9007926	SOLD, CONN #50321 ARKLESS
24	9007880	TIE WRAP #SST-1-5M PANDUIT
25	C-IA-7006481-3-0	POWER CORD
26	D-IA-7407936-1-0	PANEL LOGO
27	9006990	GROUND STRAP #740F-33-20
28	D-UA-H950-HJ-0	SHORT DOOR H950-H
29	D-UA-H950-HK-0	SHORT DOOR H950-H
30	D-UA-H950-FA-0	DOOR SKIN H950-F
REF.	D-AR-RF11-0-28	RF11/RS11 ARRANGEMENT

ITEM NO.	DESCRIPTION	QUANTITY / VARIATION			
		RS11-0 (60 HZ)	RS11-A (50 HZ)	RS11-D (60 HZ)	RS11-DA (50 HZ)
19	CABLE, W021 TO W011 (9 FT. LONG)	4	4	4	4
20	PANEL, BLANK 7402025	1	1	1	1
21	CABLE BRAIDED #8672 BELDEN 5/8" X4 FT LG	1	1	0	0
22	TUBING, BLK 3/8" DIA 4 FT LG	1	1	0	0
23	SOLD, CONN #50321 ARKLESS	2	2	0	0
24	TIE WRAP #SST-1-5M PANDUIT	2	2	0	0
25	POWER CORD	1	1	1	1
26	PANEL LOGO	1	1	1	1
27	GROUND STRAP #740F-33-20	1	1	1	1
28	SHORT DOOR H950-H	1	1	-	-
29	SHORT DOOR H950-H	-	-	1	1
30	DOOR SKIN H950-F	1	1	1	1
REF.	RF11/RS11 ARRANGEMENT				

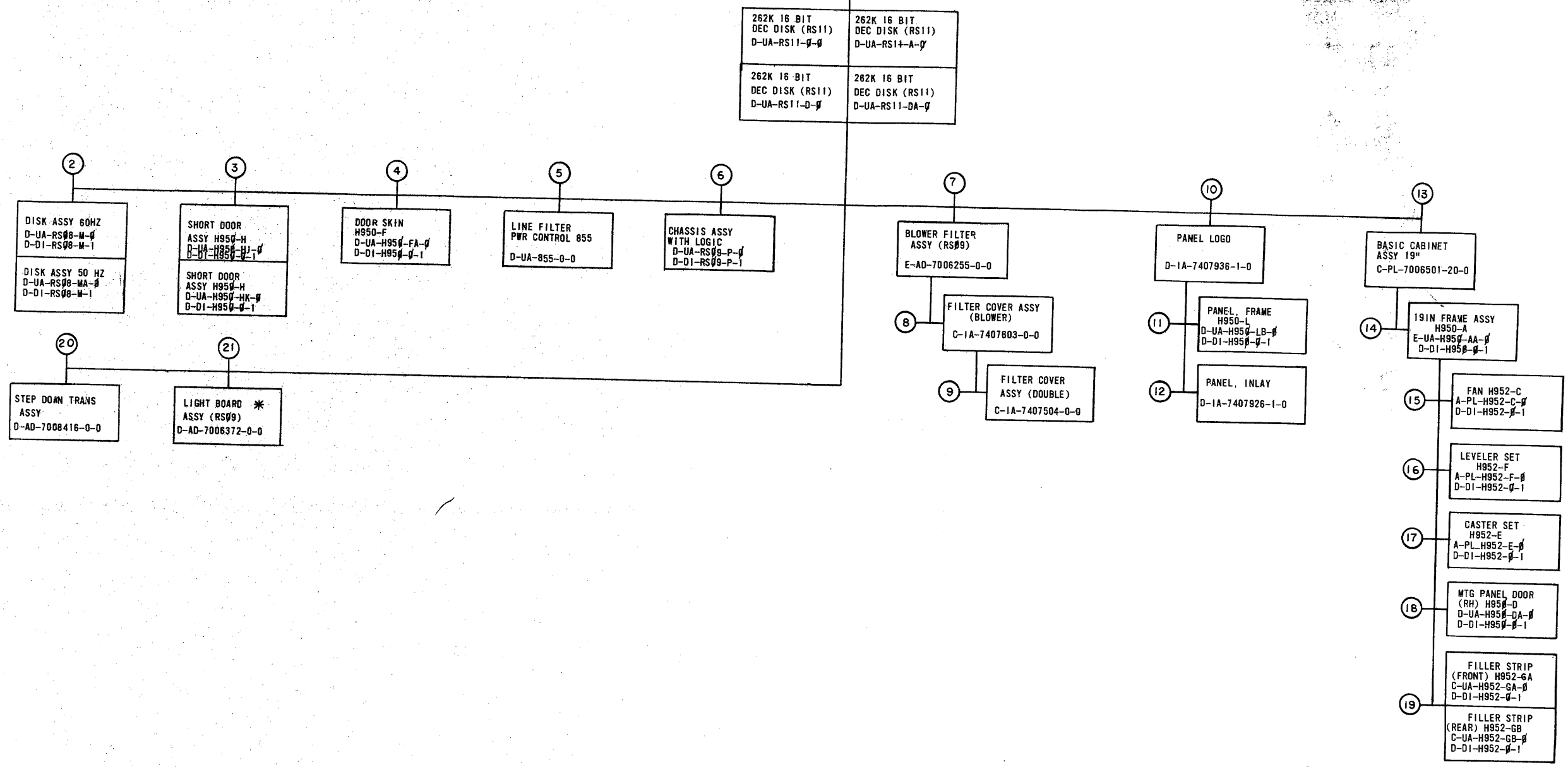
TITLE 262 16 BIT DEC DISK (RS11)

ASSY NO. D-UA-RS11-0-0
SHEET 2 OF 2

SIZE CODE **A PL** NUMBER RS11-0-0
REV. ECO NO.

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RS11-0-1
 3000 3215



* NOT A PRODUCTION ITEM-USED FOR TEST ONLY

REV.	NO.
CHK	

FIRST USED ON OPTION/MODEL 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		DATE 24 Sep 70 DATE 10/13/70 DATE 10/19-20 DATE 10/19-20 DATE 10/19-20		PARTS LIST digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
MATERIAL		NEXT HIGHER ASSY D-UA-RS11-0-0		TITLE DRAWING INDEX LIST (RS11)		SIZE CODE DDI RS11-0-1	
FINISH		SCALE NONE		SHEET 2 OF 2		NUMBER REV.	

DEC FORM NO
DPO 100

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MECHANICAL			DEPT USAGE			MECHANICAL			DEPT USAGE			ELECTRICAL			DEPT USAGE			ELECTRICAL			DEPT USAGE																																																																																																																																																									
FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C	FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C	FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C	FIND NO.	DESCRIPTION	PART NO.	PROD	CUST	F/C																																																																																																																																																							
D	262K 16 BIT DEC DISK (RS11) 262K 16 BIT DEC DISK (RS11) (PL) 262K 16 BIT DEC DISK (RS11) 262K 16 BIT DEC DISK (RS11) (PL) 262K 16 BIT DEC DISK (RS11) 262K 16 BIT DEC DISK (RS11) (PL) 262K 16 BIT DEC DISK (RS11) 262K 16 BIT DEC DISK (RS11) (PL) 262K 16 BIT DEC DISK (RS11) 262K 16 BIT DEC DISK (RS11) (PL) PLATE, MTG BLOWER SUPPORT SPACER, CHASSIS (OPTIONAL) POWER PANEL DECAL 60 HZ POWER PANEL DECAL 50 HZ CABLE W021 TO W011 9 FT PANEL, BLANK PACKING INSTRUCTIONS	D-UA-RS11-0-0 A-PL-RS11-0-0 D-UA-RS11-A-0 A-PL-RS11-A-0 D-UA-RS11-0-0 A-PL-RS11-0-0 D-UA-RS11-DA-0 A-PL-RS11-DA-0 D-UA-RS11-DA-0 A-PL-RS11-DA-0 B-MD-7407235-0-0 C-MD-7407013-0-0 C-MD-7407442-0-0 A-DC-7406707-0-0 A-DC-7406707-0-0 C-IA-7005820-4-0 B-5100 A-P1-3700006-0-0				C	11	PANEL FRAME H950-L PANEL FRAME H950-L (PL) DWG INDEX LIST H950	D-UA-H950-LB-0 A-PL-H950-LB-0 D-D1-H950-0-1				C	1	262K 16 BIT DEC DISK (RS11) 262K 16 BIT DEC DISK 262K 16 BIT DEC DISK 262K 16 BIT DEC DISK RF11/RS11 ARRANGEMENT 262K 16 BIT DEC DISK (RS09) 60 HZ POWER WIRING (RF11)	A-ML-RS11-0 A-ML-RS11-A A-ML-RS11-D A-ML-RS11-DA D-AR-RF11-0-28 A-ML-RS09-0 D-IC-RF11-0-27				B	2	DISK ASSY RS08-M-0 DISK ASSY (PL) DISK ASSY (50 HZ) DISK ASSY (PL) DWG INDEX LIST	D-UA-RS08-M-0 A-PL-RS08-M-0 D-UA-RS08-MA-0 A-PL-RS08-MA-0 D-D1-RS08-M-1				B	12	PANEL INLAY LOGO COLOR LOGO COLOR LOGO COLOR	D-IA-7407926-1-0 C-SS-7407926-0-1 C-SS-7407926-0-2 C-SS-7407926-0-3				A	2	DISK ASSY RS08-M-0 DISK ASSY RS08-MA-0	A-ML-RS08-M A-ML-RS08-MA				A	5	LINE FILTER & PWR CONT 855 CIRCUIT SCHEMATIC 855	D-UA-855-0-0 C-CS-855-0-1				A	6	CHASSIS ASSY LOGIC	A-ML-RS09-P				A	7	BLOWER FILTER ASSY	E-AD-7006255-0-0				A	20	STEP-DOWN TRANS ASSY	D-AD-7006416-0-0				A	3	SHORT DOOR ASSY H950-H SHORT DOOR ASSY H950-H (PL) SHORT DOOR ASSY H950-H SHORT DOOR ASSY H950-H (PL) DWG INDEX LIST H950	D-UA-H950-HJ-0 A-PL-H950-HJ-0 D-UA-H950-HK-0 A-PL-H950-HK-0 D-D1-H950-0-1				A	15	FAN H952-C DWG INDEX LIST H952	A-PL-H952-C-0 D-D1-H952-0-1				A	16	LEVELER SET H952-F DWG INDEX LIST H952	A-PL-H952-F-0 D-D1-H952-0-1				A	17	CASTER SET H952-E DWG INDEX LIST H952	A-PL-H952-E-0 D-D1-H952-0-1				A	18	MTG PNL DOOR (RH) H950-D MTG PNL DOOR (RH) H950-D (PL) DWG INDEX LIST H950	D-UA-H950-DA-0 A-PL-H950-DA-0 D-D1-H950-0-1				A	19	FILLER STRIP H952-G FILLER STRIP H952-G (PL) FILLER STRIP H952-G FILLER STRIP H952-G (PL) DWG INDEX LIST H952	C-UA-H952-GA-0 A-PL-H952-GA-0 C-UA-H952-GB-0 A-PL-H952-GB-0 D-D1-H952-0-1				A	20	STEP DOWN TRANS ASSY STEP DOWN TRANS ASSY (PL) PANEL, TRANSFORMER BRACKET, TRANSFORMER	D-AD-7006416-0-0 A-PL-7006416-0-0 D-IA-7407500-0-9 D-IA-7407493-0-0				A	21	LIGHT BOARD ASSY RS09 (OPTIONAL) LIGHT BOARD ASSY RS09 (PL)	D-AD-7006372-0-0 A-PL-7006372-0-0				A	4	DOOR SKIN H950-FA DOOR SKIN (PL) DWG INDEX LIST H950	D-UA-H950-FA-0 A-PL-H950-FA-0 D-D1-H950-0-1				A	5	LINE FILTER & PWR CONT 855 LINE FILTER & PWR CONT 855 (PL)	D-UA-855-0-0 A-PL-855-0-0				A	6	CHASSIS ASSY WITH LOGIC CHASSIS ASSY WITH LOGIC (PL) DWG INDEX LIST	D-UA-RS09-P-0 A-PL-RS09-P-0 D-D1-RS09-P-0				A	7	BLOWER FILTER ASSY (RS09) BLOWER FILTER ASSY (RS09) (PL) PREFILTER SCREEN, PREFILTER PLATE, MTG SIDE CONTAINER, FILTER	E-AD-7006255-0-0 A-PL-7006255-0-0 B-MD-7407181-0-0 B-MD-7407182-0-0 D-IA-7407237-0-0 D-IA-7407236-0-0				A	8	FILTER COVER ASSY (BLOWER) COVER, FILTER FLANGE, BLOWER	C-IA-7407503-0-0 D-MD-7407256-1-0 C-SC-1209473-0-0				A	9	FILTER COVER ASSY (DOUBLE) COVER, FILTER FLANGE, HOSE	C-IA-7407504-0-0 D-MD-7407256-2-0 C-SC-1209472-0-0				A	10	PANEL, LOGO	D-IA-7407936-1-0				A

A	REV		FIRST USED ON OPTION/MODEL RS11	DATE	3/28/70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE DRAWING INDEX LIST (RS11)			
	CHK'D	T. Cook		DATE	10/13/70					
	ENG	S. Siskin		DATE	10/19/70					
	PRD. ENG.	S. Siskin		DATE	10/19/70					
	PROD.	S. Siskin		DATE	10/19/70					
REVISIONS	CHANGE NO.		NEXT HIGHER ASSY	D-UA-RS11-0-0	SIZE CODE	D DI	NUMBER	RS11-0-1	REV	
CHK			SCALE	1-1	SHEET	2	OF	2	DIST.	

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MASTER DRAWING LIST

DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE
D-UA-RS09-0-0	D	1	262K 18 BIT DEC DISK
A-PL-RS09-0-0	D	2	262K 18 BIT DEC DISK (PARTS LIST)
D-DI-RS09-0-8	E	2	DWG.INDEX LIST RS09-0
A-ML-RS09-P-0	REF	1	CHASSIS ASSY WITH LOGIC
A-ML-RS08-M-0	REF	1	DISK ASSY 60 HZ
D-BS-RS09-0-1	A	1	CONTROL 1
D-BS-RS09-0-2		1	TRACK SELECT MATRIX Ø
D-BS-RS09-0-3		1	TRACK SELECT MATRIX 1
D-BS-RS09-0-4	A	1	CONTROL UNIT CONNECTORS
D-BS-RS09-0-5	A	1	CONTROL 2
K-WL-RS09-0-WL	C		WIRE LIST
D-MU-RS09-0-9	A	1	MODULE UTILIZATION
A-PL-RS09-0-9	A	1	MODULE UTILIZATION (PARTS LIST)
D-IC-RS09-0-7			LOC CHART-TRACK, HEAD, CABLE
D-IC-RF09-0-35	REF	3	POWER WIRING AC/DC
D-AR-RF09-0-37	REF	1	RF09/RS09 ARRANGEMENT
A-WL-RS09-0-10		4	HAND WRAP WIRE LIST
C-WD-RS09-0-11	A	1	HAND WRAP ROUTING
A-SP-RS09-0-12		11	RS09 CALIBRATION PROCEDURE

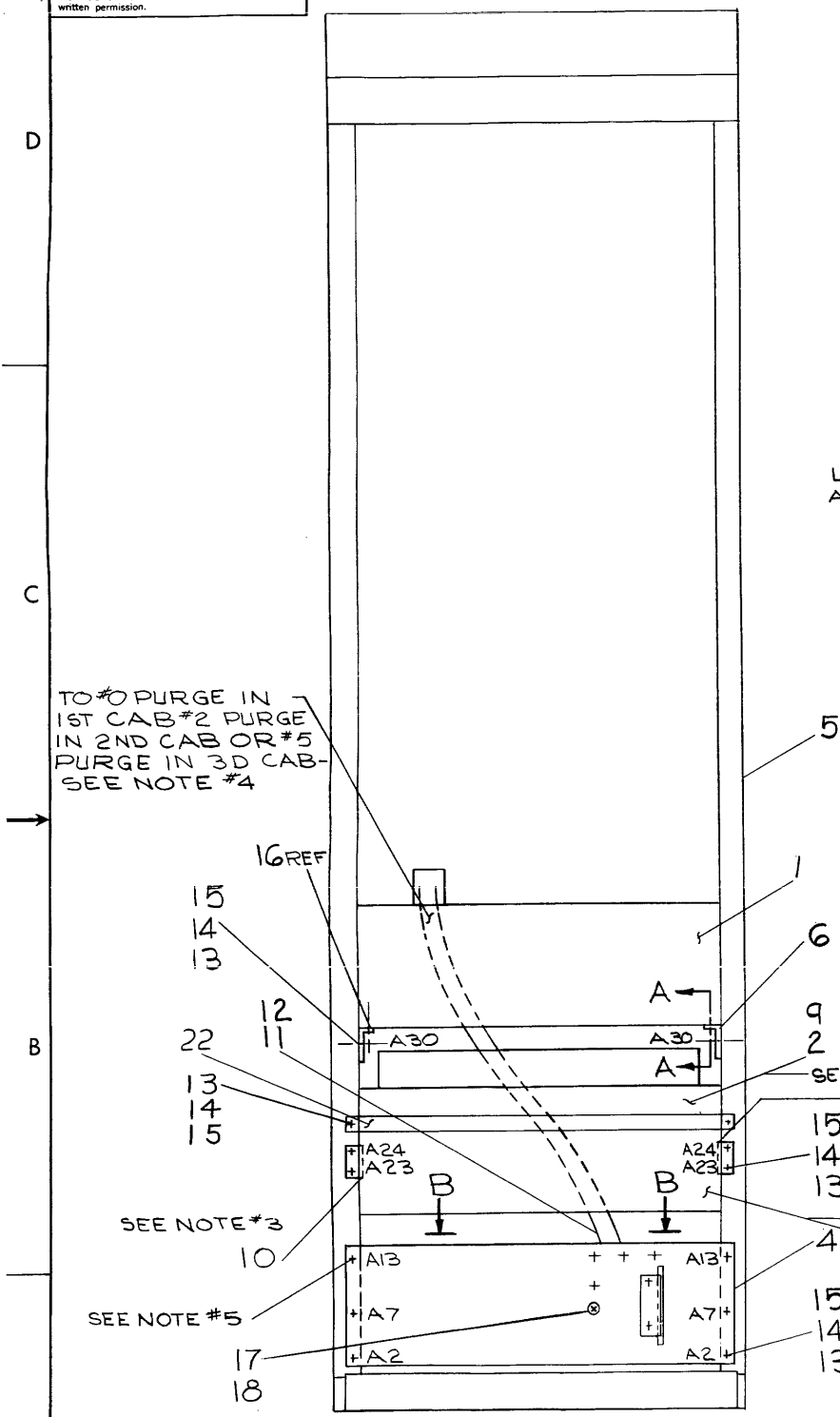
REVISIONS				DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				
REV.	DATE	CHG. NO.	APP'D.	CHK'D.	DATE					
A	10/69	00004	D.V.	D.Healy	7/69			TITLE 262K 18 BIT DEC DISK (RS09) 50 HZ		
B	12/69	00006	D.V.	D.Healy	7/69					
C	1/70	00008	D.V.	D.G.Vonada	7/69					
D	1/70	00009	D.V.	PROJ. ENG.	DATE					
E	1/70	00010	D.V.	D.G.Vonada	7/69					
F	4/70	00012	D.V.	PROD.	DATE					
H	5/70	00013	D.V.	R.Anronocio	7/69					
J	5/70	00014	J.L.	FIRST USED ON						
K	10/70	00018	D.V.	RS09-0	SIZE	CODE	NUMBER			REV
L	5/71	00019	D.V.		A	ML	RS09-0			N
M	9/71	00021	A.V.	SCALE						
N	9/71	00022		SHEET	1	OF	1			

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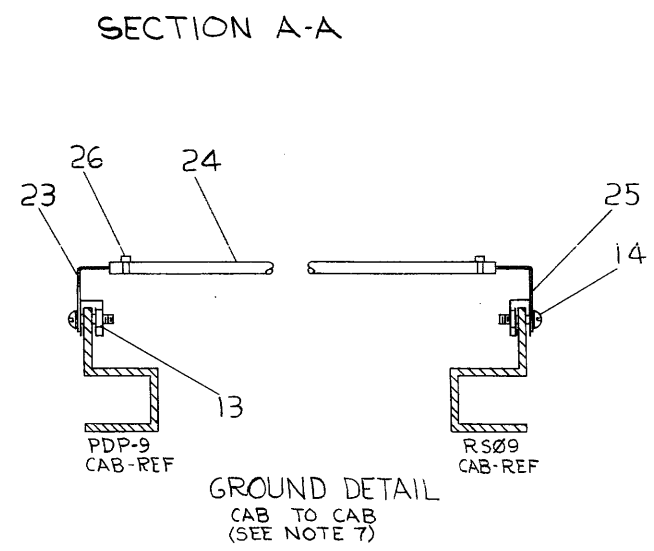
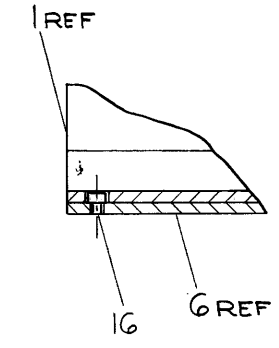
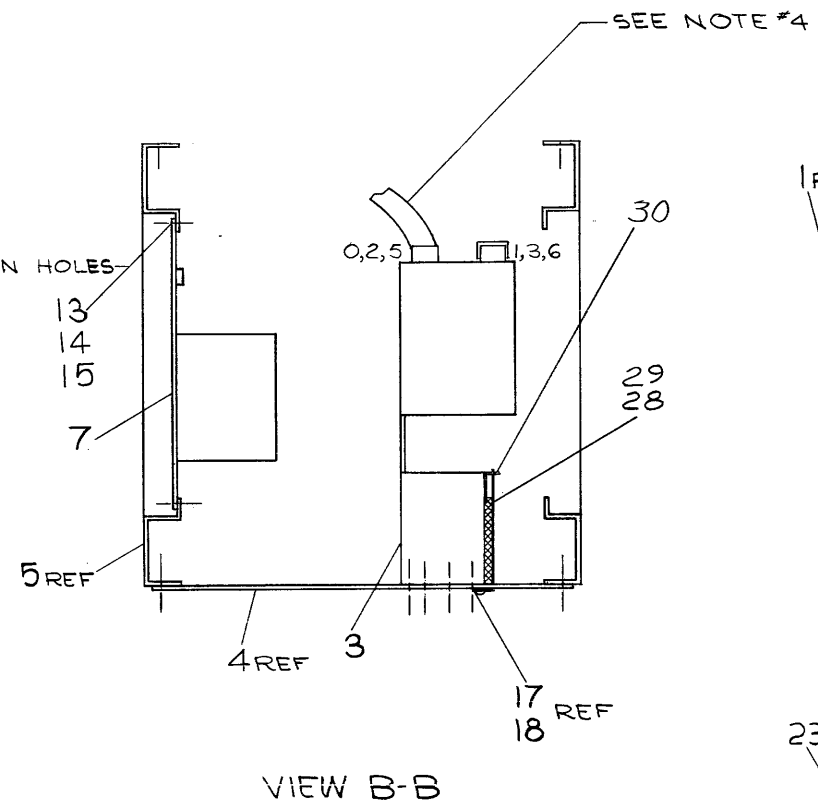
LEGEND	
NUMBER	VARIATION
RS09-0	60 HZ
RS09-A	50 HZ

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	DATE	BY	APP
A		0004			
B		0010	11-8-69	D. VONADA	
C		0012	1-2-70	D. VONADA	
D		0019	4-22-70	D. VONADA	
E		0021	5-1-71	D. VONADA	

FIRST USED ON OPTION/MODEL RS09-0

DO NOT SCALE DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	
TOLERANCES	ANGLES
DECIMALS = .005	FRACTIONS = 1/64
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		
	262 K 18 BIT DEC DISK (RS09)		
	SIZE CODE	NUMBER	REV.
	DJUA	RS09-0-0	D
	SHEET	OF	
	1	1	

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY G. FLANDERS
DATE 6/30/69
ENG *Agnew*
DATE *7-19-69*
CHECKED D. HEALY
DATE 7/2/69
SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	RS09-0 (60 HZ)	RS09-A (50 HZ)	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	1	
3	E-AD-7006255-0-0	BLOWER FILTER	1	1	
4	D-MD-7407235-0-0	PLATE, MTG BLOWER	1	1	
5	A-AD-7006379-0-0	19" CAB ASSY	1	1	
6	B-MD-7407013-0-0	SUPPORT	2	2	
7	* D-AD-7006416-0-0	STEP DOWN TRANS ASSY	1	1	
8	D-UA-055-0-0	FINE FILTER & POWER CONTROL-055	1	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	2	
12	1209470	HOSE 1-1/2 I.D. #CMD#FT-3214-1 VAC-U-FLEX	A/RA/R		
13	9007786	NUT, C31758-1032-27 TINNEMAN	26	26	
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 1/2 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
NUMBER
RS09-0-0
REV.
RS09-00019
D
SHEET 1 OF 2
DIST. G

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

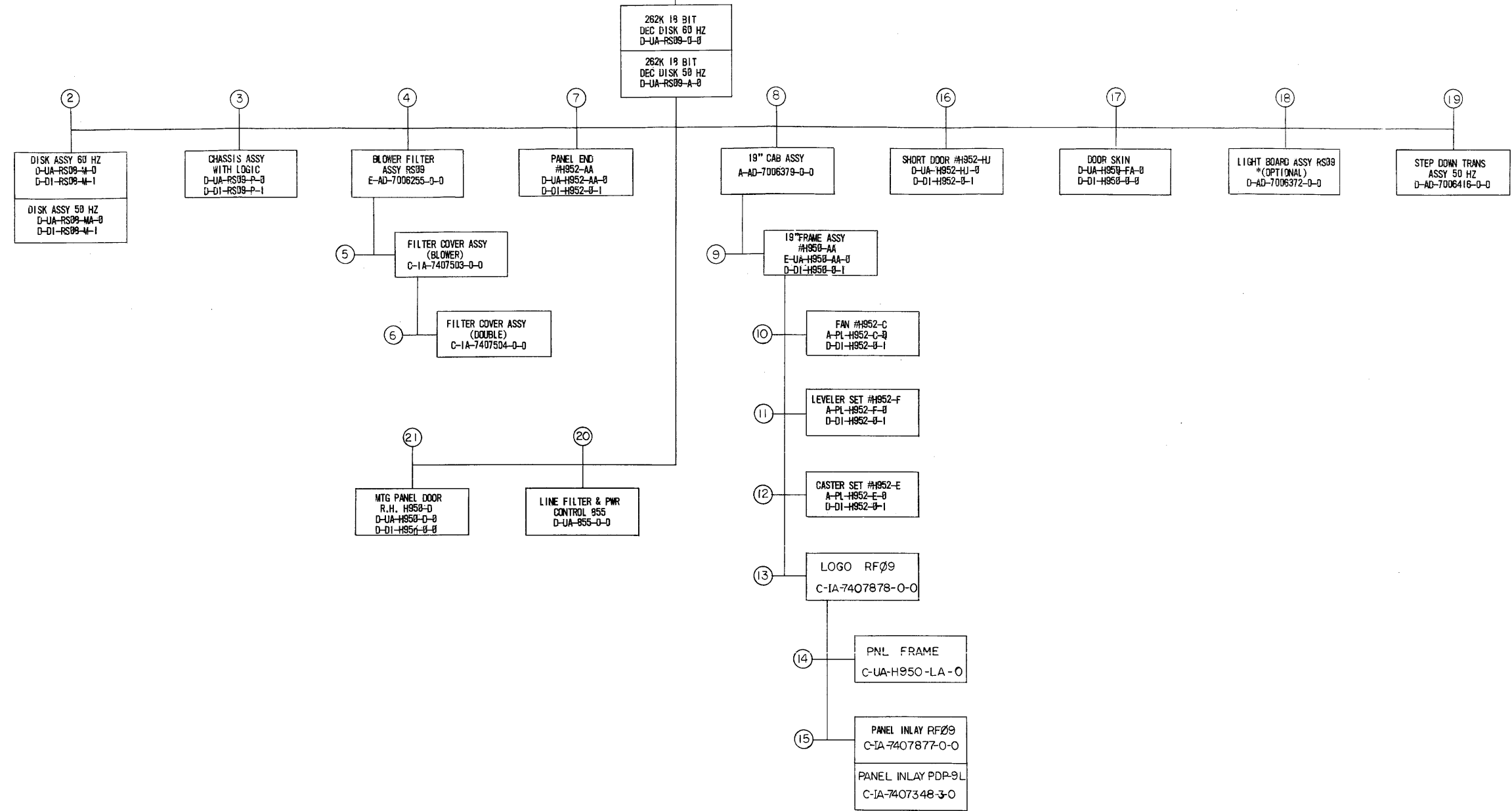
MADE BY G. Flanders
DATE 6/30/69
ENG *Agnew*
DATE *7-25-69*
CHECKED D. Healy
DATE 7/2/69
SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	RS09-0 (60 HZ)	RS09-A (50 HZ)	QUANTITY / VARIATION
19	C-IA-7006266-1	Cable Line Filter (Female)	1	1	
20	C-IA-7006266-2	Cable Line Filter (Male)	1	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
NUMBER
RS09-0-0
REV.
RS09-00019
D
SHEET 2 OF 2
DIST. G
DEC FORM NO.
DRA 110

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8-0-50SHIC 2
 NUMBER 3000 3215



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

REV.	CHANGE NO.	CHK	DATE
A	RS09-00004	D. VONADA	11-28-70
B	RS09-00008	D. VONADA	11-6-71
C	RS09-00014	T. QUINN	1-29-72
D	RS09-00019	LAWRENCE	C-1-70
E	RS09-00022	D. VONADA	5-25-71

FIRST USED ON OPTION / MODEL
 RS09-0

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

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

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MECHANICAL			DEPT USAGE			MECHANICAL			DEPT USAGE			ELECTRICAL			DEPT USAGE			ELECTRICAL			DEPT USAGE																																																																																																																																						
FIND NO	DESCRIPTION	PART NO	PROD	CUST	F/C	FIND NO	DESCRIPTION	PART NO	PROD	CUST	F/C	FIND NO	DESCRIPTION	PART NO	PROD	CUST	F/C	FIND NO	DESCRIPTION	PART NO	PROD	CUST	F/C																																																																																																																																				
1	262K 18 BIT DEC DISK 60 HZ 262K 18 BIT DEC DISK 50 HZ 262K 18 BIT DEC DISK (P.L.) PLATE, MTG BLOWER SUPPORT SPACER, CHASSIS (OPTIONAL) POWER PANEL DECAL 60 HZ POWER PANEL DECAL 50 HZ CABLE WØ21 TO WØ11 9FT PANEL BLANK PACKAGING INSTRUCTIONS FILTER FILTER FRAME	D-UA-RSØ9-Ø-Ø D-UA-RSØ9-A-Ø A-PL-RSØ9-Ø-Ø D-MD-74Ø7235-Ø-Ø B-MD-74Ø7Ø13-Ø-Ø C-MD-74Ø7442-Ø-Ø A-DC-74Ø67Ø7-Ø-Ø A-DC-74Ø67Ø7-Ø-Ø C-IA-7ØØ582Ø-4-Ø B-51ØØ A-PI-37ØØØØ6-Ø-Ø D-IA-74Ø9Ø12-Ø-Ø D-IA-74Ø9Ø13-Ø-Ø				10	FAN H952-C DWG INDEX LIST	A-PL-H952-C-Ø D-DI-H952-Ø-Ø				1	262K 18 BIT DEC DISK 60 HZ 262K 18 BIT DEC DISK 50 HZ CONTROL 1 TRACK SELECT MATRIX Ø TRACK SELECT MATRIX 1 CONTROL UNIT CONNECTORS CONTROL 2 WIRE LIST MODULE UTILIZATION MODULE UTILIZATION LIST LOC CHART, TRACK, HEAD, CABLE POWER WIRING AC/DC RFØØ/RSØØ ARRANGEMENT HAND WRAP WIRE LIST HAND WRAP ROUTING RSØØ CALIBRATION PROCEDURE	A-ML-RSØ9-Ø A-ML-RSØ9-A D-BØ-RSØ9-Ø-1 D-BØ-RSØ9-Ø-2 D-BØ-RSØ9-Ø-3 D-BØ-RSØ9-Ø-4 D-BØ-RSØ9-Ø-5 K-ML-RSØ9-Ø-VV L D-MJ-RSØ9-Ø-9 A-PL-RSØ9-Ø-9 D-IC-RSØ9-Ø-7 D-IC-RFØ9-Ø-35 D-AR-RFØ9-Ø-37 A-WL-RSØ9-Ø-1Ø C-WD-RSØ9-Ø-11 A-SP-RSØ9-Ø-12				11	LEVELER SET H952-F DWG INDEX LIST	A-PL-H952-F-Ø D-DI-H952-Ø-1				2	DISK ASSY RSØ9-M-Ø DISK ASSY RSØ9-MA-Ø	A-ML-RSØ9-M A-ML-RSØ9-MA				2	DISK ASSY 60 HZ DISK ASSY 50 HZ DISK ASSY (P.L.) DWG INDEX LIST	D-UA-RSØ9-M-Ø D-UA-RSØ9-MA-Ø A-PL-RSØ9-M-Ø D-DI-RSØ9-M-1				12	CASTER SET H952-E DWG INDEX LIST	A-PL-H952-E-Ø D-DI-H952-E-Ø				3	CHASSIS ASSY WITH LOGIC CHASSIS ASSY WITH LOGIC (P.L.) DWG INDEX LIST	D-UA-RSØ9-P-Ø A-PL-RSØ9-P-Ø D-DI-RSØ9-P-1				13	LOGO RFØ9	C-IA-74Ø7878-Ø-Ø				3	CHASSIS ASSY LOGIC	A-ML-RSØ9-P				4	BLOWER FILTER ASSY RSØ9 BLOWER FILTER ASSY (P.L.) FILTER FRAME RETAINER SCREEN, PREFILTER PLATE, MTG SIDE CONTAINER, FILTER	E-AD-7ØØ6255-Ø-Ø A-PL-7ØØ6255-Ø-Ø C-MD-74Ø9Ø14-Ø-Ø B-MD-74Ø7182-Ø-Ø D-IA-74Ø7237-Ø-Ø D-IA-74Ø7238-Ø-Ø				14	PANEL, FRAME H95Ø-LA PANEL FRAME H95Ø-LA (P.L.) DWG INDEX LIST PNL FRAME	C-UA-H95Ø-LA-Ø A-PL-H95Ø-LA-Ø D-DI-H95Ø-Ø-1 C-IA-74Ø6694-Ø-Ø				4	BLOWER FILTER ASSY	E-AD-7ØØ6255-Ø-Ø				15	PANEL INLAY PDP 9L PANEL INLAY RFØ9	C-IA-74Ø7348-3-Ø C-IA-74Ø7877-Ø-Ø				16	SHORT DOOR H952-HJ SHORT DOOR (P.L.) DWG INDEX LIST	D-UA-H95Ø-HJ-Ø A-PL-H95Ø-HJ-Ø D-DI-H95Ø-Ø-1				19	STEP DOWN TRANS ASSY	D-AD-7ØØ6416-Ø-Ø				5	FILTER COVER ASSY BLOWER COVER, FILTER	C-IA-74Ø75Ø3-Ø-Ø D-MD-74Ø7256-1-Ø				17	DOOR SKIN H95Ø-FA-Ø DOOR SKIN (P.L.) DWG INDEX LIST	D-UA-H95Ø-FA-Ø A-PL-H95Ø-Ø-Ø D-DI-H95Ø-Ø-1				20	LINE FILTER & PWR CONT 955 CIRCUIT SCHEMATIC 955	D-UA-955-Ø-Ø C-CS-955-Ø-Ø				6	FILTER COVER ASSY (DOUBLE) COVER, FILTER	C-IA-74Ø75Ø4-Ø-Ø D-MD-74Ø7256-2-Ø				18	LIGHT BOARD ASSY RSØ9 (OPTIONAL) LIGHT BOARD ASSY RSØ9 (P.L.)	D-AD-7ØØ6372-Ø-Ø A-PL-7ØØ6372-Ø-Ø				7	PANEL, END H952-AA PANEL, END (P.L.) DWG INDEX LIST	D-UA-H952-AA-Ø A-PL-H952-Ø-Ø D-DI-H952-Ø-1				19	STEP DOWN TRANS ASSY (5Ø HZ) STEP DOWN TRANS ASSY (5Ø HZ) (P.L.) PANEL, TRANSFORMER BRACKET, TRANSFORMER	D-AD-7ØØ6416-Ø-Ø A-PL-7ØØ6416-Ø-Ø D-IA-74Ø75ØØ-Ø-Ø D-IA-74Ø7493-Ø-Ø				9	19" CAB ASSY 19" CAB ASSY (P.L.)	A-AD-7ØØ6379-Ø-Ø A-PL-7ØØ6379-Ø-Ø				21	MTG PANEL DOOR R.H. #H95Ø-Ø MTG PANEL DOOR R.H. #H95Ø-Ø (P.L.) DWG INDEX LIST	D-UA-H95Ø-Ø-Ø A-PL-H95Ø-Ø-Ø D-DI-H95Ø-Ø-Ø				9	19" FRAME ASSY H95Ø-AA 19" FRAME ASSY (P.L.) DWG INDEX LIST	E-UA-H95Ø-AA-Ø A-PL-H95Ø-Ø-Ø D-DI-H95Ø-Ø-1			

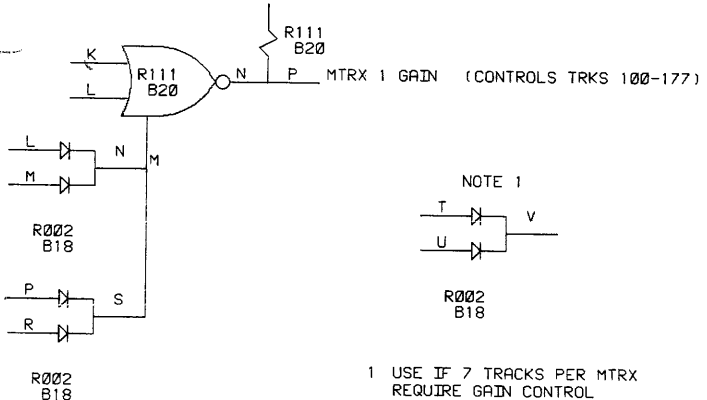
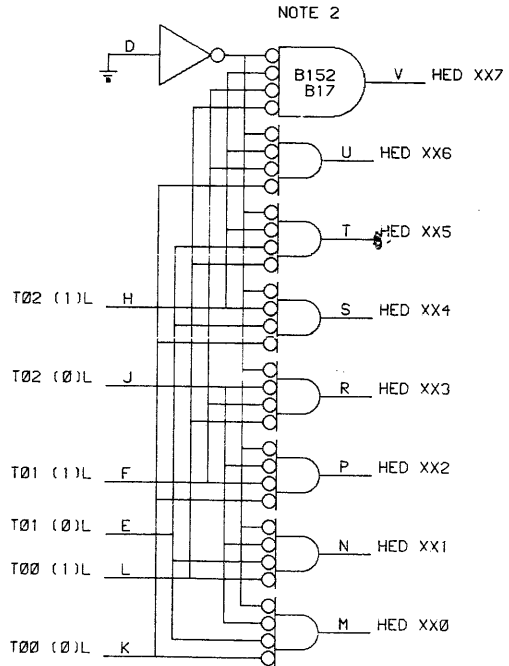
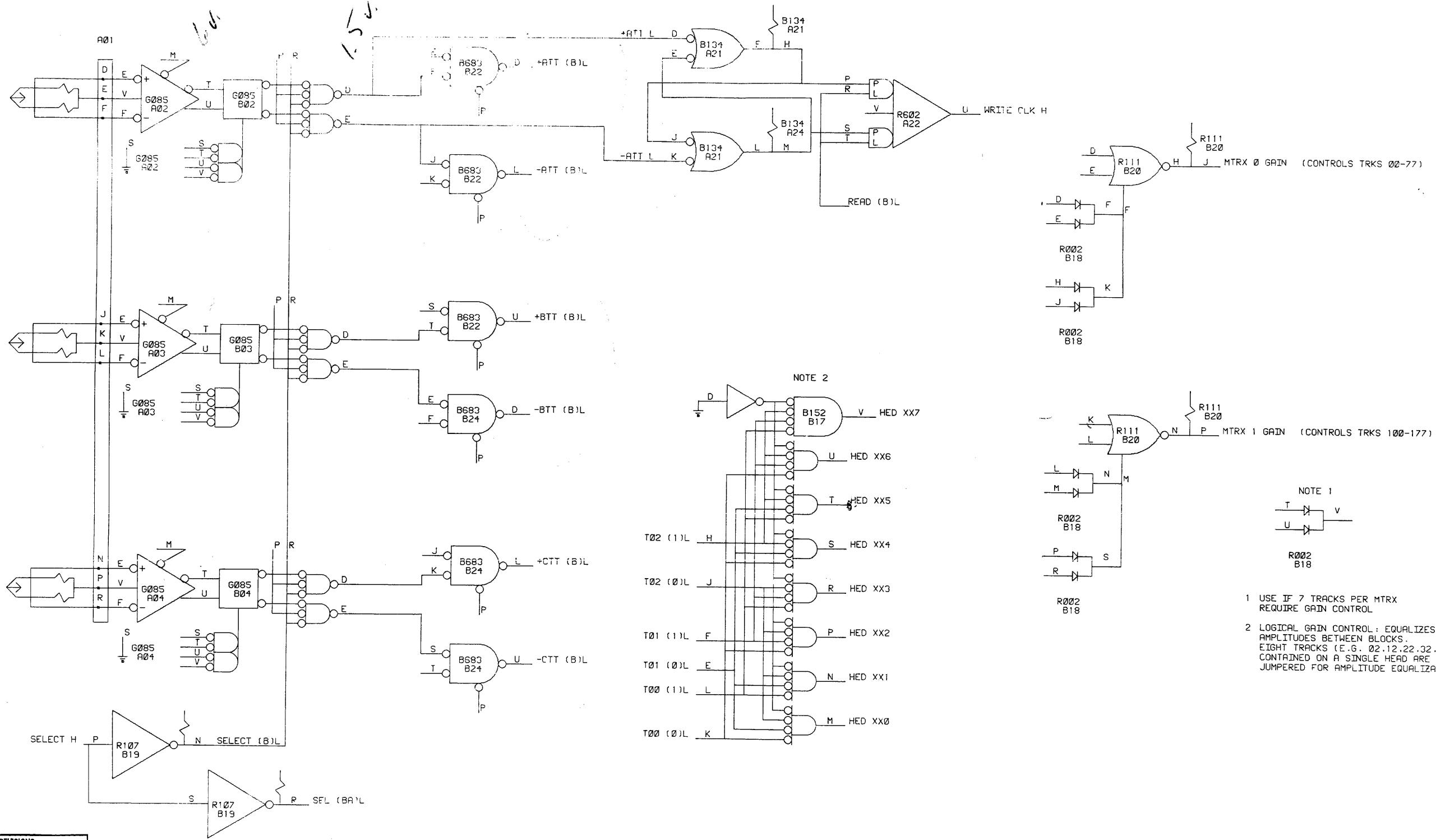
REV	NO
CHK	CHANGE NO

FIRST USED ON OPTION / MODEL
+ + +

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			
DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHK'D	DATE	DRAWING INDEX LIST RSØ9-Ø	
ENG	DATE	SIZE CODE NUMBER REV	
PROJ. ENG.	DATE	DDIRSØ9-Ø-8 E	
PROD.	DATE	SCALE SHEET 2 OF 2	
NEXT HIGHER ASSY		DIST. G	

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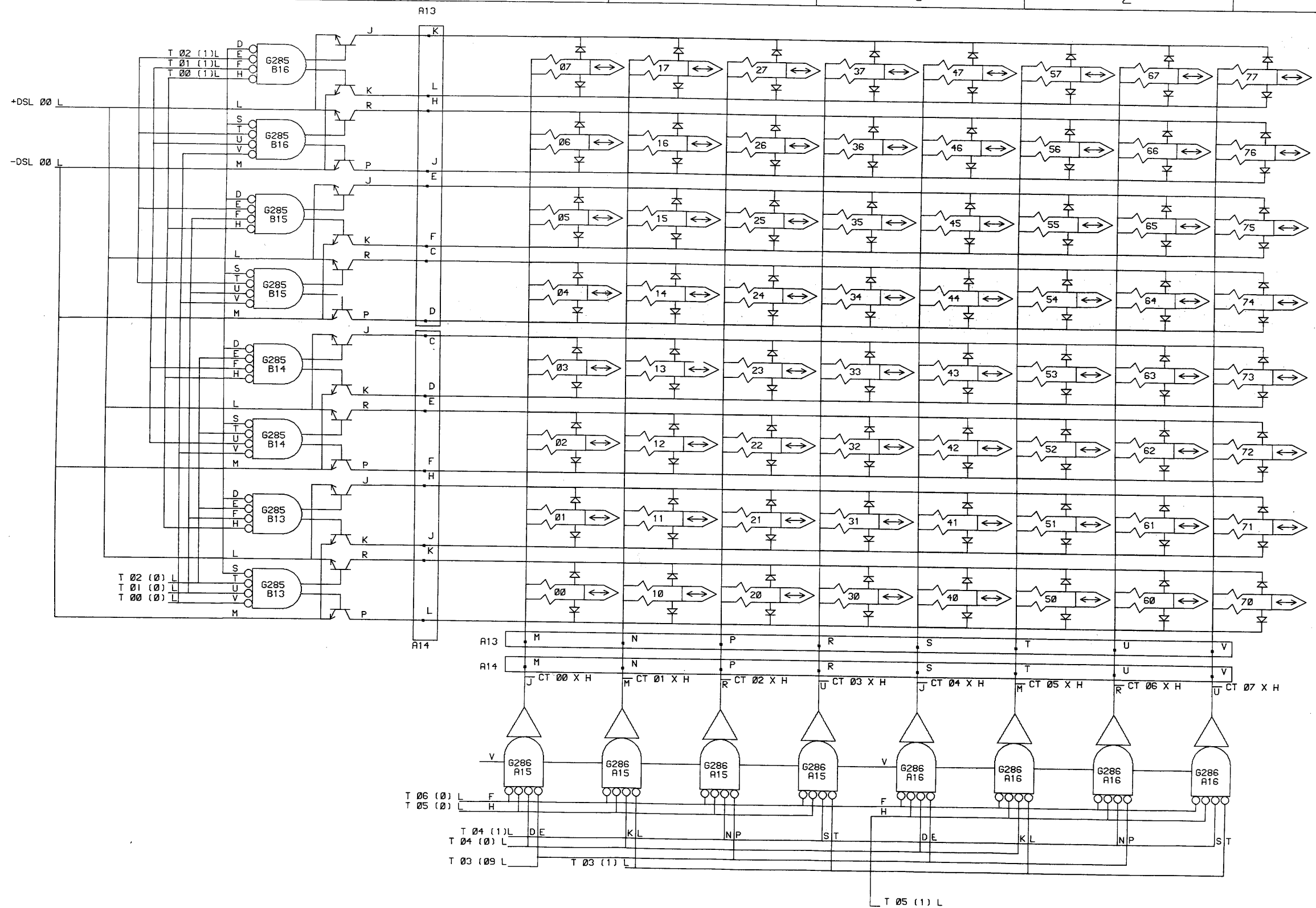


- 1 USE IF 7 TRACKS PER MTRX REQUIRE GAIN CONTROL
- 2 LOGICAL GAIN CONTROL: EQUALIZES AMPLITUDES BETWEEN BLOCKS. EIGHT TRACKS (E.G. 02,12,22,32,42,52,62,72) CONTAINED ON A SINGLE HEAD ARE JUMPED FOR AMPLITUDE EQUALIZATION

CHK	CHANGE NO.	REV.
1	RS09-00018	A

DRN. K. B06GS	DATE 9/22/68	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. N. RHEAULT	DATE 9/22/68	
ENG. E. KING	DATE 9/22/68	TITLE CONTROL 1
PROJ. ENG. D. VONADA	DATE 9/22/68	
PROD. E. TOMPKINS	DATE 9/22/68	
FIRST USED ON		
RS09	SIZE CODE	NUMBER
SCALE D BS	RS09-0-1	REV. A
SHEET 1 OF 1	DIST.	

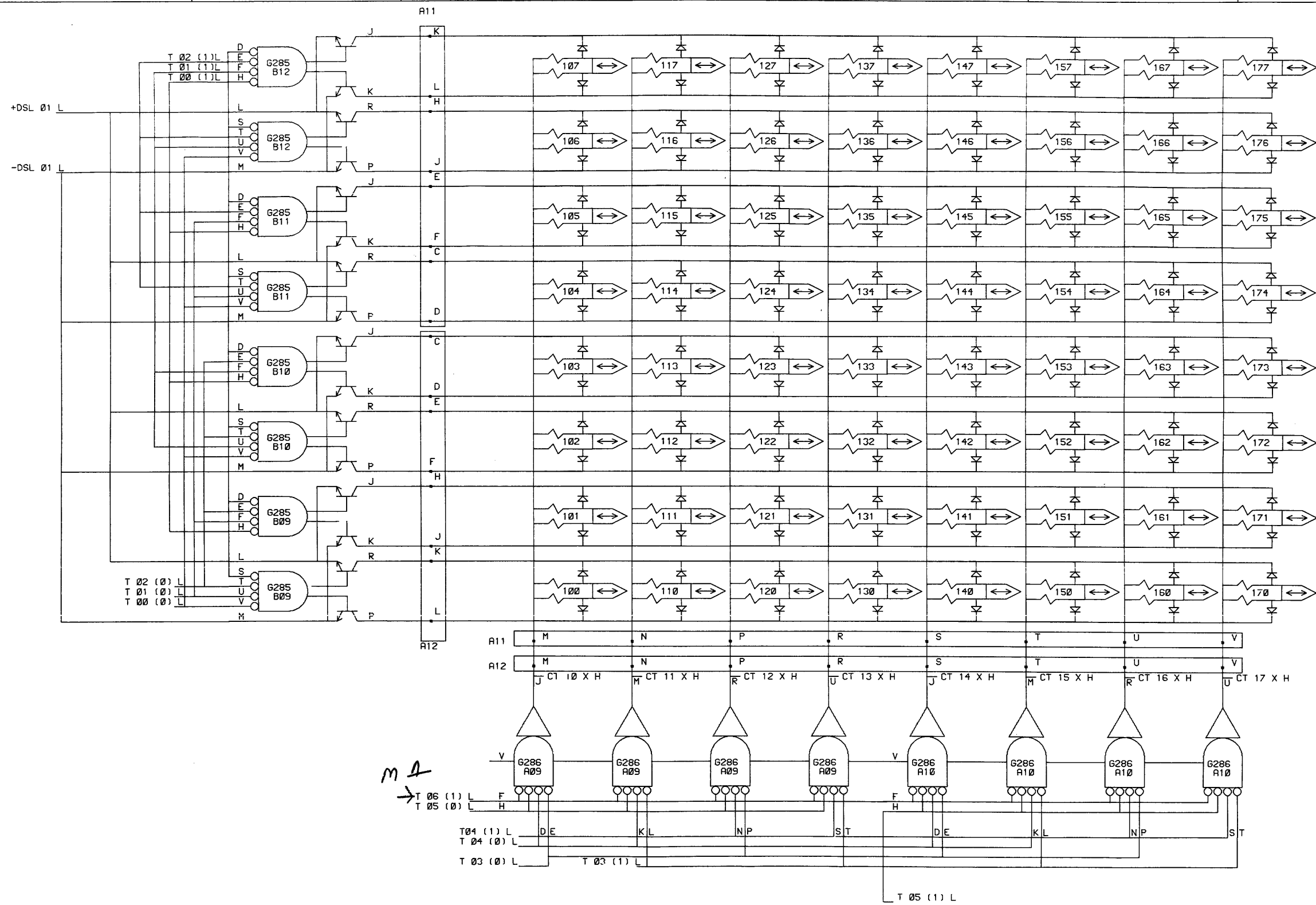
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REVISIONS		
CHK	CHANGE NO.	REV.

DRN.	DATE	 digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D.	DATE	
ENG.	DATE	
PROJ. ENG.	DATE	
PROD.	DATE	
FIRST USED ON		TITLE
RS09		TRACK SELECT MATRIX 0
SCALE	SIZE CODE	NUMBER
D BS	D BS	RS09-0-2
SHEET 1 OF 1	DIST.	REV. 00

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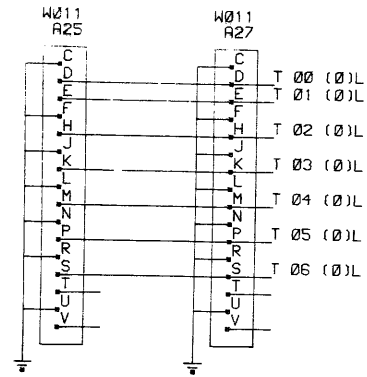
MA

REVISIONS		
CHK	CHANGE NO.	REV.

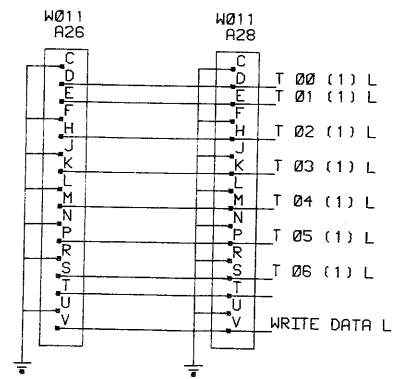
DRN.	DATE	 digital EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>
CHK'D.	DATE	
ENG.	DATE	
PROJ. ENG.	DATE	
PROD.	DATE	
FIRST USED ON		TITLE
RS09		TRACK SELECT MATRIX I
SCALE	SIZE CODE	NUMBER
SHEET 1 OF 1	D BS	RS09-0-3
DIST.		REV.
		00

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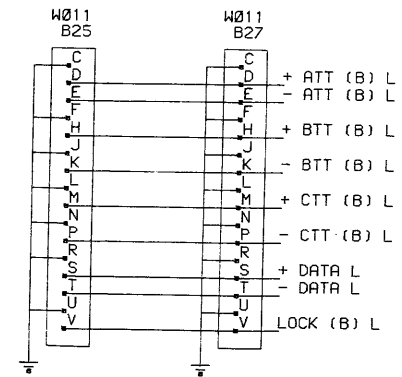
3723 CLAMPED TERMINATIONS IN LAST RS



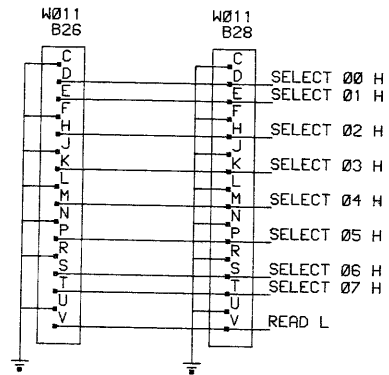
6723 CLAMPED TERMINATIONS IN LAST RS



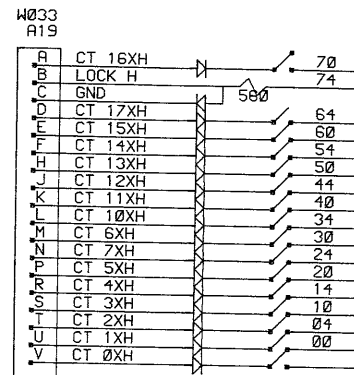
6711 100 OHM TERMINATIONS IN RF AND LAST RS



6723 CLAMPED TERMINATIONS IN LAST RS



WRITE LOCKOUT SWITCHES XY



OPEN-WRITE ENABLED
CLOSED-WRITE DISABLED

REVISIONS		
CHK	CHANGE NO.	REV.
JK	RS09-00006	E
	12/10/69	

DRN. K. BOGGS	DATE 9/22/68		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. N. RHEAULT	DATE 1/22/69		
ENG. C. S. VONADA	DATE 9/22/68	TITLE CONTROL UNIT CONNECTORS	
PROJ. ENG. C. S. VONADA	DATE 9/22/68		
PROD. C. R. TOMPKINS	DATE 9/22/68		
FIRST USED ON			
RS09	SIZE CODE D BS	NUMBER RS09-0-4	REV. A
SCALE	DIST.		
SHEET 1 OF 1			

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8

7

6

5

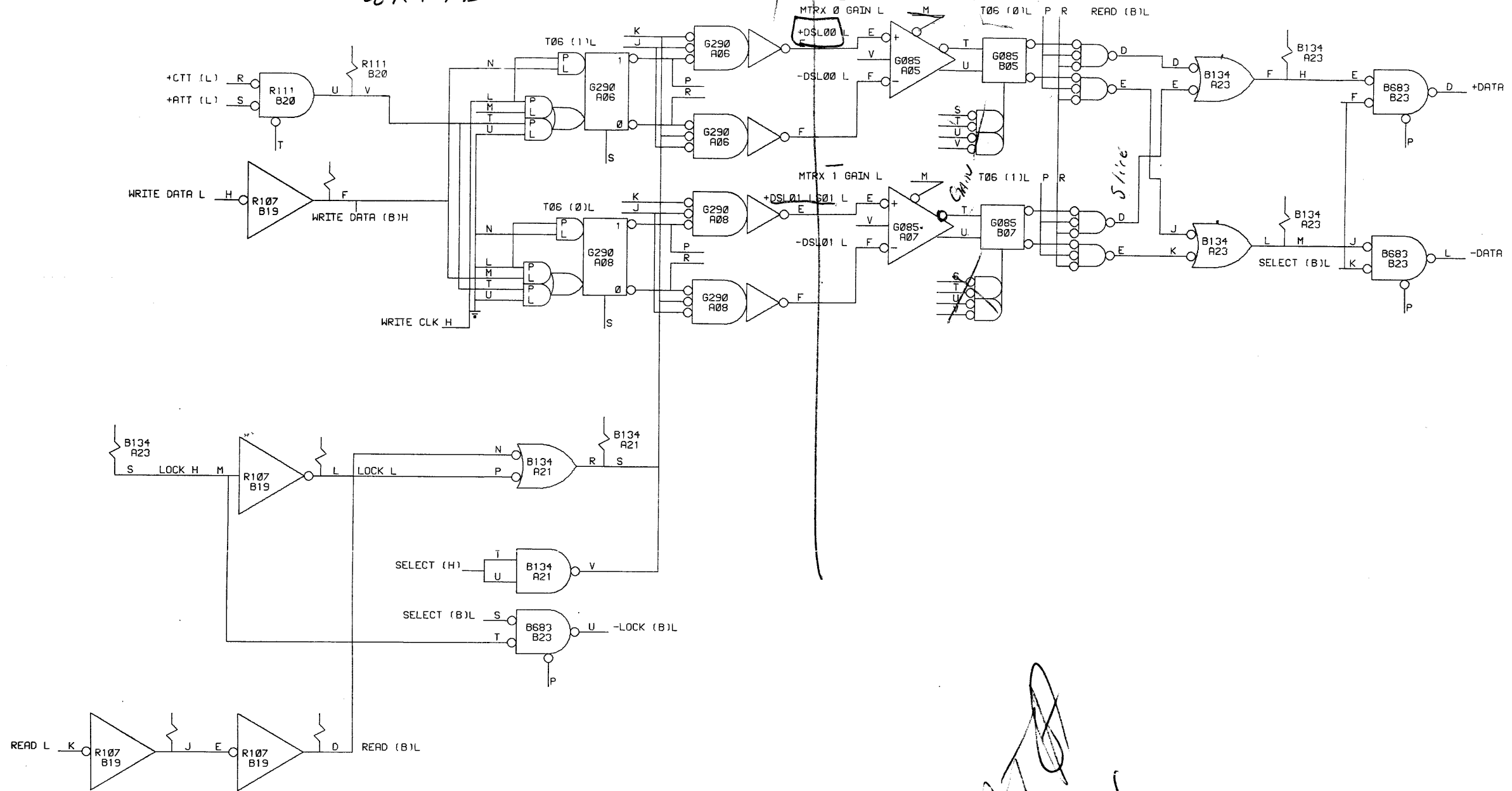
4

3

2

WRITE

READ



DATA ONLY

REVISIONS		
CHK	CHANGE NO.	REV.
7/1	RS09-00005	A
D.G. Vonada 12-15-69		

DRN. K. BOGGS	DATE 9/22/69	 digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. N. RHEAULT	DATE 9/22/69	
ENG. ED KING	DATE 9/22/69	
PROJ. ENG. D. G. VONADA	DATE 9/22/69	
PROD. C. R. 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.

8

7

6

5


4

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	SHY
B	00009	1-16-70	SHY
C	RS09-00013	5-11-70	SHY

FIRST USED ON OPTION/MODEL RS09	DRAWN <i>E. Flanigan</i>	DATE 7/21/69		TITLE WIRE LIST				
	CHECKED <i>H. Hochman</i>	DATE 9/5/69		FOR TAPE # FILE #				
	ENG <i>C. King</i>	DATE 9-22-69		ASSY NO	SIZE	CODE	DWG. NO.	REV LTR
	PROD. ENG. <i>D. Flanigan</i>	DATE 9-25-69		A-ML-RS09-0	K	WL	RS09-0-WL	C
	PROD <i>E. Flanigan</i>	DATE 7-22-69		SCALE	SHEET	OF	DIST.	

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
A01K	A01K	1-01 *	C	RS09-1	1	G085T			20
A01K	A03V	1-02 *	RS09-1				4-5/8	CABLE TERM HERE?	20
A01K		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	A21J	1-02 *	RS09-1		2	B134L			22
A21J	A21H	1-03 *	RS09-1		1	B134H			22
A21J	A22P	1-04 *	RS09-1		1	H602U			22
A21J		1					10-0/8		22
A21L	A21E	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	B23E	1-03 *	RS09-1		1	B683D			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 *	RS09-1		1	B683L			26
A23L		1					8-4/8		26
B18F	B18F	1-01 *			2				27
B18F	B18K	1-02 *			1				27
B18F	B20F	1-03 *			1				27
B18F		1					7-7/8		27
B18N	B18S	1-01 *			2				28
B18N	B18N	1-02 *			1				28
B18N	B20M	1-03 *			1				28
B18N		1					7-0/8		28

RS09.C RUN NAME	WRP144.V17(17) 06/22/72 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 00 X	A13M	1-01 *	C	RS09-2	1	W077A			31
CT 00 X	A14M	1-02 *	C	RS09-2	2	W077A		CABLE	31
CT 00 X	A15J	1-03 *	C	RS09-2	1	G286J		CABLE	31
CT 00 X	A19D	1-04 *	C	RS09-4	1	W033C		CABLE	31
CT 00 X		1					12-6/8		31
CT 01 X	A13N	1-01 *	C	RS09-2	1	W077A			32
CT 01 X	A14N	1-02 *	C	RS09-2	2	W077A		CABLE	32
CT 01 X	A15M	1-03 *	C	RS09-2	1	G286J		CABLE	32
CT 01 X	A19A	1-04 *	C	RS09-4	1	W033C		CABLE	32
CT 01 X		1					12-0/8		32
CT 02 X	A13P	1-01 *	C	RS09-2	1	W077A			33
CT 02 X	A14P	1-02 *	C	RS09-2	2	W077A		CABLE	33
CT 02 X	A15R	1-03 *	C	RS09-2	1	G286J		CABLE	33
CT 02 X	A19E	1-04 *	C	RS09-4	1	W033C		CABLE	33
CT 02 X		1					12-3/8		33
CT 03 X	A13R	1-01 *	C	RS09-2	1	W077A			34
CT 03 X	A15U	1-02 *	C	RS09-2	2	G286J		CABLE	34
CT 03 X	A14R	1-03 *	C	RS09-2	1	W077A		CABLE	34
CT 03 X	A19F	1-04 *	C	RS09-4	1	W033C		CABLE	34
CT 03 X		1					13-1/8		34
CT 04 X	A13S	1-01 *	C	RS09-2	2	W077A			35
CT 04 X	A14S	1-02 *	C	RS09-2	1	W077A		CABLE	35
CT 04 X	A16J	1-03 *	C	RS09-2	2	G286J		CABLE	35
CT 04 X	A19H	1-04 *	C	RS09-4	1	W033C		CABLE	35
CT 04 X		1					12-7/8		35
CT 05 X	A13T	1-01 *	C	RS09-2	1	W077A			36
CT 05 X	A14T	1-02 *	C	RS09-2	2	W077A		CABLE	36
CT 05 X	A16M	1-03 *	C	RS09-2	1	G286J		CABLE	36
CT 05 X	A19J	1-04 *	C	RS09-4	1	W033C		CABLE	36
CT 05 X		1					12-7/8		36

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 7 RUN NUMBER
GND 09	A09C		1-01 *			1				54
GND 09	B09C		1-02 *					5-7/8		54
GND 09			1							54
GND 10	A10C		1-01 *			1				55
GND 10	B10C		1-02 *					5-7/8		55
GND 10			1							55
GND 15	A15C		1-01 *			1				56
GND 15	B15C		1-02 *					5-7/8		56
GND 15			1							56
GND 16	A16C		1-01 *			1				57
GND 16	B16C		1-02 *					5-7/8		57
GND 16			1							57
GND 17	A17C		1-01 *			1				58
GND 17	B17D		1-02 *			2				58
GND 17	B17C		1-03 *		1					58
GND 17			1							58
GND 18	A18C		1-01 *			1				59
GND 18	B18C		1-02 *					9-0/8		59
GND 18			1							59
GND 21	A21C		1-01 *			1				60
GND 21	B21C		1-02 *			2				60
GND 21	B21H		1-03 *			1	B681E			60
GND 21	B21M		1-04 *			1	B681K			60
GND 21			1				B681P			60
GND 25	A25C		1-01 *			1				61
GND 25	A25F		1-02 *			2				61
GND 25	A25J		1-03 *			1				61
GND 25	A25L		1-04 *			2				61
GND 25	A25N		1-05 *			1				61
GND 25	A25R		1-06 *			2				61
GND 25	A25U		1-07 *			1				61
GND 25	B25C		1-08 *			2				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 *			1				61
GND 25	B25U		1-14 *			1				61
GND 25			1					42-1/8		61

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 8 RUN NUMBER
GND 26	A26C		1-01 *			1				62
GND 26	A26F		1-02 *			2				62
GND 26	A26J		1-03 *			1				62
GND 26	A26L		1-04 *			2				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 *			1				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 *			1				63
GND 27	A27L		1-04 *			2				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 *			1				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 *			1				64
GND 28	A28L		1-04 *			2				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 *			1				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 ORDER BAY - NAME PIN ORDER	Q DRAW RV PG Y	X	Z	REMARKS	17-JAN-73 LENGTH	519 EXCEPTIONS	PAGE 9 RUN NUMBER
GND SPECIAL	1-01 *			2				65
GND SPECIAL	1-02 *			1				65
GND SPECIAL	1-03 *			2				65
GND SPECIAL	1-04 *			1				65
GND SPECIAL	1-05 *			2				65
GND SPECIAL	1-06 *			1				65
GND SPECIAL	1-07 *			1				65
LOCK						31-4/8		
LOCK	H A19B	C RS09=4		2	W011C		CABLE	66
LOCK	H A23S	R107		1				66
LOCK	H B23T	R107		2				66
LOCK	H B19M	R107				17-3/8	TERM HERE?	66
LOCK								66
LOCK (B)	L B27V	C RS09=4		2	W011C		CABLE	67
LOCK (B)	L B25V	C RS09=4		1	W011C		CABLE	67
LOCK (B)	L B23U	RS09=1			B683U		TERM HERE?	67
MTRX 2 GAIN						9-1/8		67
MTRX 2 GAIN	A05M			1				68
MTRX 2 GAIN	B20H			2				68
MTRX 2 GAIN	B20J					15-5/8		68
MTRX 1 GAIN	A07M			1				69
MTRX 1 GAIN	R20P			2				69
MTRX 1 GAIN	B20N					13-5/8		69
READ	L R28V	C RS09=4		2	W011C		CABLE	70
READ	L B26V	C RS09=4		1	W011C		CABLE	70
READ	L B19K					12-5/8	TERM HERE?	70
READ (B)	L B07R	RS09=1		2	B683L			71
READ (B)	L B05R	RS09=1		1	B683D			71
READ (B)	L A21N	RS09=1		2	B134R			71
READ (B)	L A22R	RS09=1		1	R602U			71
READ (B)	L A22T	RS09=1						71
READ (B)	L B19D			2	M602U			71
READ (B)						29-2/8		71

RS09.C RUN NAME	WRP144.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME PIN ORDER	Q DRAW RV PG Y	X	Z	REMARKS	17-JAN-73 LENGTH	519 EXCEPTIONS	PAGE 10 RUN NUMBER
SEL (BA)	L R12D			2				72
SEL (BA)	L R11D			1				72
SEL (BA)	L R10D			2				72
SEL (BA)	L B09D			1				72
SEL (BA)	L B09S			2				72
SEL (BA)	L B10S			1				72
SEL (BA)	L B11S			2				72
SEL (BA)	L B12S			1				72
SEL (BA)	L B16D			2				72
SEL (BA)	L B15D			1				72
SEL (BA)	L 914D			2				72
SEL (BA)	L B13D			1				72
SEL (BA)	L B13S			2				72
SEL (BA)	L B14S			1				72
SEL (BA)	L B15S			2				72
SEL (BA)	L B16S			1				72
SEL (BA)	L B19R			1		62-1/8		72
SELECT	H A21T			2				73
SELECT	H A21U			1				73
SELECT	H B19P			2				73
SELECT	H B19S							73
SELECT (R)	L B04R	RS09=1		1	G085D			74
SELECT (R)	L B02R	RS09=1		2	G085D			74
SELECT (R)	L B03R	RS09=1		1	G085D			74
SELECT (R)	L B19N	R107		2	B681K			74
SELECT (R)	L B23F	RS09=1		1	G085D			74
SELECT (R)	L B23K	RS09=1		2	G085D			74
SELECT (R)	L B23S	RS09=1			B683U			74
SELECT 02	H B26D	RS09=4		1	W011C		CABLE	75
SELECT 02	H B28D	C RS09=4			W011C		CABLE	75
SELECT 02						4-5/8		75
SELECT 01	H B26E	RS09=4		1	W011C		CABLE	76
SELECT 01	H B28E	C RS09=4			W011C		CABLE	76
SELECT 01						4-5/8		76
SELECT 02	H B26H	RS09=4		1	W011C		CABLE	77
SELECT 02	H B28H	C RS09=4			W011C		CABLE	77
SELECT 02						4-5/8		77

RS09.C RUN NAME	WRP144.V17(17) 06/22/72 A/P PIN ORDER NAME	ORDER PIN	Q	DRAW RV PG Y	X	Z	REMARKS	17-JAN-73 LENGTH	519 EXCEPTIONS	PAGE 11 RUN NUMBER
SELECT 03	H R26K	1-01 *	C	RS09=4		1	W011C		CABLE	78
SELECT 03	H R28K	1-02 *	C	RS09=4			W011C	4-5/8	CABLE	78
SELECT 03		1								78
SELECT 04	H B26M	1-01 *	C	RS09=4		1	W011C		CABLE	79
SELECT 04	H B28M	1-02 *	C	RS09=4			W011C	4-5/8	CABLE	79
SELECT 04		1								79
SELECT 05	H B26P	1-01 *	C	RS09=4		1	W011C		CABLE	80
SELECT 05	H B28P	1-02 *	C	RS09=4			W011C	4-5/8	CABLE	80
SELECT 05		1								80
SELECT 06	H B26S	1-01 *	C	RS09=4		1	W011C		CABLE	81
SELECT 06	H B28S	1-02 *	C	RS09=4			W011C	4-5/8	CABLE	81
SELECT 06		1								81
SELECT 07	H B26T	1-01 *	C	RS09=4		1	W011C		CABLE	82
SELECT 07	H B28T	1-02 *	C	RS09=4			W011C	4-5/8	CABLE	82
SELECT 07		1								82
T 00 (0)	H A26D	1-01 *	C	RS09=4		2	W011C		CABLE	83
T 00 (0)	H A28D	1-02 *	C	RS09=4		1	W011C		CABLE	83
T 00 (0)	H B15H	1-03 *	C	RS09=2		1	G285J		CABLE	83
T 00 (0)	H B17L	1-04 *	C	RS09=2		1	B152V		CABLE	83
T 00 (0)	H B16H	1-05 *	C	RS09=2		1	G285J		CABLE	83
T 00 (0)	H B14H	1-06 *	C	RS09=2		1	G285J		CABLE	83
T 00 (0)	H B13H	1-07 *	C	RS09=2		1	G285J		CABLE	83
T 00 (0)	H B12H	1-08 *	C	RS09=3		1	G285J		CABLE	83
T 00 (0)	H B11H	1-09 *	C	RS09=3		1	G285J		CABLE	83
T 00 (0)	H B10H	1-10 *	C	RS09=3		1	G285J		CABLE	83
T 00 (0)	H B09H	1-11 *	C	RS09=3		1	G285J		CABLE	83
T 00 (0)		1						45-5/8	TERM HERE?	83
T 00 (1)	H A27D	1-01 *	C	RS09=4		2	W011C		CABLE	84
T 00 (1)	H A25D	1-02 *	C	RS09=4		1	W011C		CABLE	84
T 00 (1)	H B17K	1-03 *	C	RS09=2		1	B152V		CABLE	84
T 00 (1)	H B16V	1-04 *	C	RS09=2		1	G285J		CABLE	84
T 00 (1)	H B15V	1-05 *	C	RS09=2		1	G285J		CABLE	84
T 00 (1)	H B14V	1-06 *	C	RS09=2		1	G285J		CABLE	84
T 00 (1)	H B13V	1-07 *	C	RS09=2		1	G285J		CABLE	84
T 00 (1)	H B12V	1-08 *	C	RS09=3		1	G285J		CABLE	84
T 00 (1)	H B11V	1-09 *	C	RS09=3		1	G285J		CABLE	84
T 00 (1)	H B10V	1-10 *	C	RS09=3		1	G285J		CABLE	84
T 00 (1)	H B09V	1-11 *	C	RS09=3		1	G285J		CABLE	84
T 00 (1)		1						41-4/8	TERM HERE?	84

RS09.C RUN NAME	WRP144.V17(17) 06/22/72 A/P PIN ORDER NAME	ORDER PIN	Q	DRAW RV PG Y	X	Z	REMARKS	17-JAN-73 LENGTH	519 EXCEPTIONS	PAGE 12 RUN NUMBER
T 01 (0)	H A28E	1-01 *	C	RS09=4		2	W011C		CABLE	85
T 01 (0)	H A26E	1-02 *	C	RS09=4		1	W011C		CABLE	85
T 01 (0)	H B17F	1-03 *	C	RS09=2		1	B152V		CABLE	85
T 01 (0)	H B16F	1-04 *	C	RS09=2		1	G285J		CABLE	85
T 01 (0)	H B14F	1-05 *	C	RS09=2		1	G285J		CABLE	85
T 01 (0)	H B16U	1-06 *	C	RS09=2		1	G285J		CABLE	85
T 01 (0)	H B14U	1-07 *	C	RS09=2		1	G285J		CABLE	85
T 01 (0)	H B12F	1-08 *	C	RS09=3		1	G285J		CABLE	85
T 01 (0)	H B10F	1-09 *	C	RS09=3		1	G285J		CABLE	85
T 01 (0)	H B12U	1-10 *	C	RS09=3		1	G285J		CABLE	85
T 01 (0)	H B10U	1-11 *	C	RS09=3		1	G285J		CABLE	85
T 01 (0)		1						47-7/8	TERM HERE?	85
T 01 (1)	H A27E	1-01 *	C	RS09=4		2	W011C		CABLE	86
T 01 (1)	H A25E	1-02 *	C	RS09=4		1	W011C		CABLE	86
T 01 (1)	H B17E	1-03 *	C	RS09=2		1	B152V		CABLE	86
T 01 (1)	H B15F	1-04 *	C	RS09=2		1	G285J		CABLE	86
T 01 (1)	H B13F	1-05 *	C	RS09=2		1	G285J		CABLE	86
T 01 (1)	H B15U	1-06 *	C	RS09=2		1	G285J		CABLE	86
T 01 (1)	H B13U	1-07 *	C	RS09=2		1	G285J		CABLE	86
T 01 (1)	H B11F	1-08 *	C	RS09=3		1	G285J		CABLE	86
T 01 (1)	H B09F	1-09 *	C	RS09=3		1	G285J		CABLE	86
T 01 (1)	H B11U	1-10 *	C	RS09=3		1	G285J		CABLE	86
T 01 (1)	H B09U	1-11 *	C	RS09=3		1	G285J		CABLE	86
T 01 (1)		1						47-5/8	TERM HERE?	86
T 02 (0)	H A28H	1-01 *	C	RS09=4		2	W011C		CABLE	87
T 02 (0)	H A26H	1-02 *	C	RS09=4		1	W011C		CABLE	87
T 02 (0)	H B15E	1-03 *	C	RS09=2		1	G285J		CABLE	87
T 02 (0)	H B16E	1-04 *	C	RS09=2		1	G285J		CABLE	87
T 02 (0)	H B17H	1-05 *	C	RS09=2		1	B152V		CABLE	87
T 02 (0)	H B16T	1-06 *	C	RS09=2		1	G285J		CABLE	87
T 02 (0)	H B15T	1-07 *	C	RS09=2		1	G285J		CABLE	87
T 02 (0)	H B12T	1-08 *	C	RS09=3		1	G285J		CABLE	87
T 02 (0)	H B11T	1-09 *	C	RS09=3		1	G285J		CABLE	87
T 02 (0)	H B12E	1-10 *	C	RS09=3		1	G285J		CABLE	87
T 02 (0)	H B11E	1-11 *	C	RS09=3		1	G285J		CABLE	87
T 02 (0)		1						45-0/8	TERM HERE?	87

RS09_C RUN NAME	A/P	PIN	NAME	ORDER	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	W011C			96
T 06 (1)	H	A25S		1-02 *			RS09=4					1	W011C			96
T 06 (1)	H	A15F		1-03 *			RS09=2					2	G286J			96
T 06 (1)	H	A16F		1-04 *			RS09=2					1	G286J			96
T 06 (1)	H	A06J		1-05 *			RS09=1					2	M575E			96
T 06 (1)	H	B05P		1-06 *												96
WRITE DATA				1										35-1/8		96
WRITE DATA	H	A28V		1-01 *		C	RS09=4					2	W011C			97
WRITE DATA	H	A26V		1-02 *		C	RS09=4					1	W011C			97
WRITE DATA	H	B19H		1-03 *												97
WRITE DATA				1										12-3/8		97
WRITE DATA (B)	H	A06M		1-01 *			RS09=1					2	M575E			98
WRITE DATA (B)	H	A06N		1-02 *			RS09=1					1	M575E			98
WRITE DATA (B)	H	A08M		1-03 *			RS09=1					2	M575E			98
WRITE DATA (B)	H	A08N		1-04 *			RS09=1					1	M575E			98
WRITE DATA (B)	H	B19F		1-05 *												98
WRITE DATA (B)				1										19-7/8		98
*TE CLK	H	A06L		1-01 *			RS09=1					2	M575E			99
*TE CLK	H	A06L		1-02 *			RS09=1					1	M575E			99
*TE CLK	H	A22U		1-03 *			RS09=1						H602U			99
				1										17-2/8		99

WIRE 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-73 519 LENGTH EXCEPTIONS
PAGE 1
RUN
NUMBER

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

QUANTITY / VARIATION

MADE BY ROBICHARD	CHECKED D. HEALY	SECTION
DATE 6/25/69	DATE 6/26/69	1
ENG <i>D.J. Tomada</i>	PROD <i>R. J. Santopietro</i>	ISSUED SECT.
DATE 7-28-69	DATE 7-25-69	1

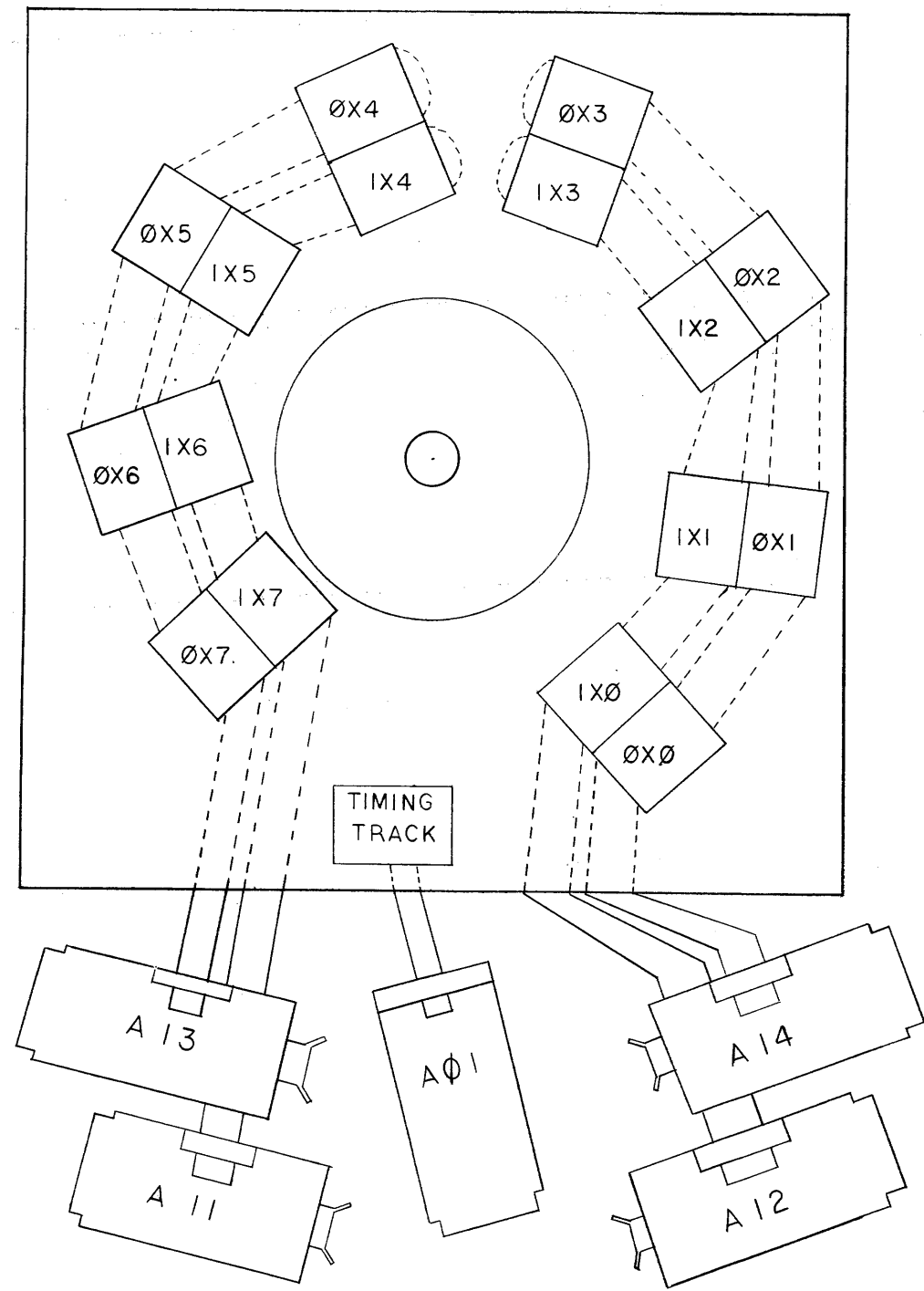
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION											
	B134	DIODE GATE	2										
	B152	BINARY TO OCTAL DECODER	1										
	B683	BUS DRIVER	3										
	G085	DISC READ AMP & SLICE	5										
	G285	SERIES SWITCH	8										
	G286	CENTER TAP SELECTOR	4										
	G290	WRITE AMP	2										
	R002	DIODE CLUSTER	1										
	R107	INVERTER	1										
	R111	DIODE GATE	1										
	R602	PULSE AMPLIFIER	1										

TITLE	ASSY NO.	SIZE CODE	NUMBER	REV.	ECO NO.
MODULE UTILIZATION LIST (RS09)	D-MU-RS09-0-9	A PL	RS09-0-9	A	RS09-00009
SHEET 1 OF 1		DIST.			

DEC FORM NO. DRA 110 X

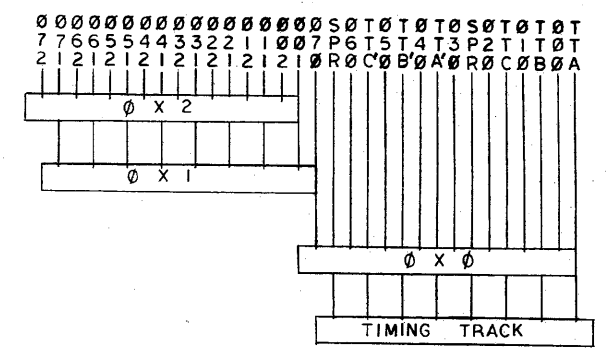
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TOP VIEW
DISK REMOVED



TRACK INTERLACE SCHEME

HEAD	INTERLACES	HEAD
T. TRACK		Ø X Ø
Ø X 1		Ø X 2
Ø X 3		Ø X 4
Ø X 5		Ø X 6
Ø X 7		I X Ø
I X 1		I X 2
I X 3		I X 4
I X 5		I X 6
I X 7		



OUTER EDGE
ROTATION AS SHOWN


REV.	
CHG	
NO.	

DEC FORM NO. DRD 102A

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RS09-0				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE: (RS09) LOCATION CHART TRACK, HEAD, CABLE	
UNLESS OTHERWISE SPECIFIED	CHK'D.	DATE		
DIMENSION IN INCHES	ENG'D.	DATE		
TOLERANCES	PRD.	DATE		
DECIMALS FRACTIONS ANGLES				
± .005 ± 1/64 ± 0°30'				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	NEXT HIGHER ASSY			
	A-ML-RS09-0			
FINISH	SCALE	NONE		
	SHEET	1 OF 1		


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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	"	

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

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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	"	

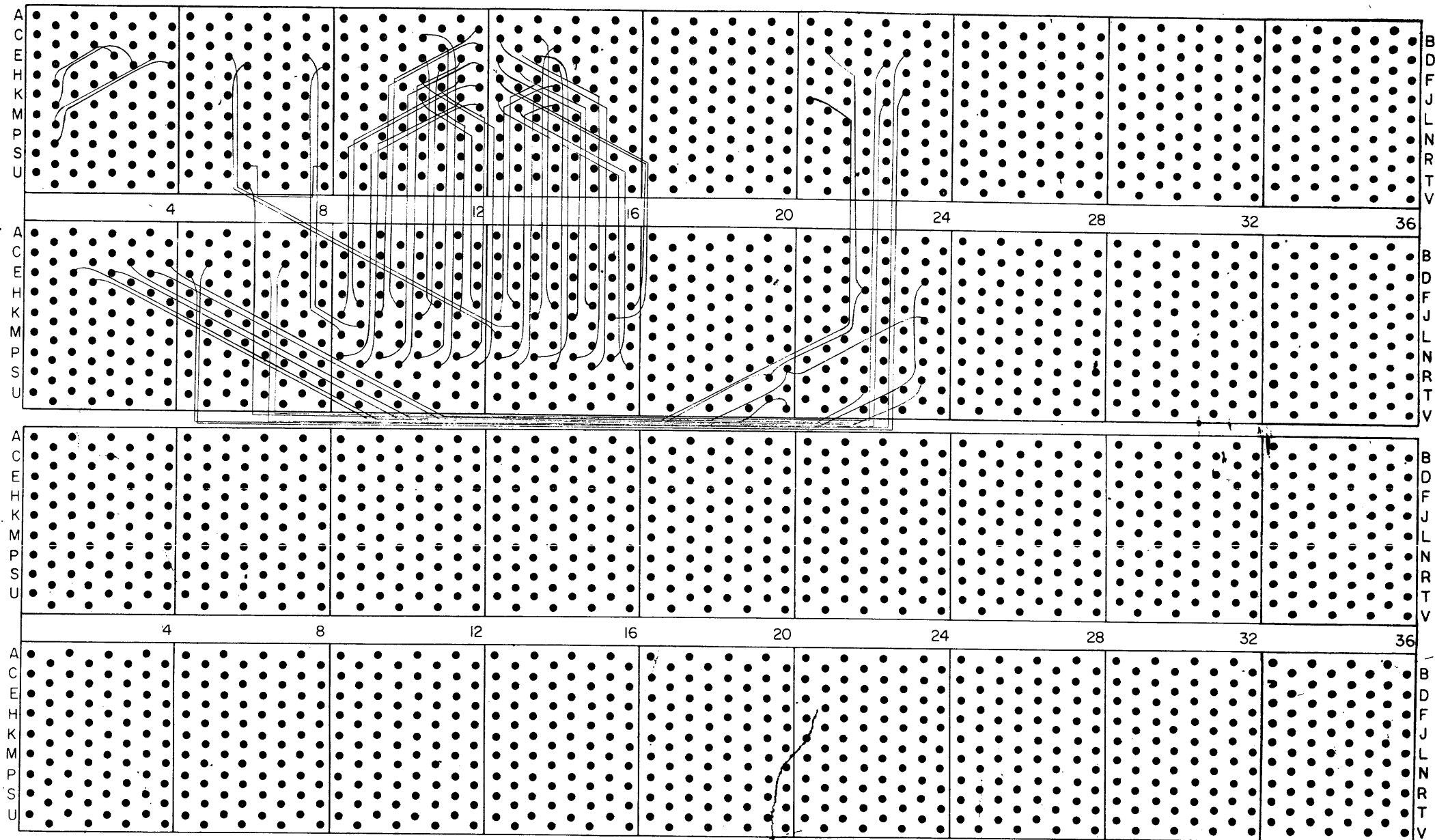
REVISIONS				DRN. E. STEVENSON	DATE 10-20-9	 MAYNARD, MASSACHUSETTS	TITLE GENERAL WIRING SHEET FOR SPECIAL HAND WRAP	SIZE CODE A WL	NUMBER RS09-0-10	REV.
REV.	DATE	CHG. NO.	APP'D.	CHK'D.	DATE					
				<i>W. Sutherland</i>	11-6-69					
				<i>Cal King</i>	11-6-69					
				<i>D. J. Novada</i>	11-5-69	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

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SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS							
B14P	A14F	B14P	BLUE								
B14R	A14E	B14R	"								
B15J	A13E	B15J	"								
B15K	A13F	B15K	"								
B15P	A13D	B15P	"								
B15R	A13C	B15R	"								
B16J	A13K	B16J	"								
B16K	A13L	B16K	"								
B16P	A13J	B16P	"								
B16R	A13H	B16R	"								
+ATT	B02D	B20S	"								
+ATT	B20S	B22F	"								
+ATT	B22F	A21D	"								
-ATT	B02E	B22J	"								
-ATT	B22J	A21K	"								
+DSL00	A06E	B13L	"								
-DSL00	A06F	B13M	"								
+DSL01	A08E	B09L	"								
-DSL01	A08F	B09M	"								
REVISIONS				DRN. E. STEVENSON DATE 10-20-9	DATE 11-9-69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE GENERAL WIRING SHEET FOR SPECIAL HAND WRAP	SIZE A	CODE WL	NUMBER RS09-0-10	REV.
REV.	DATE	CHG. NO.	APP'D.								
				ENG. C. King	DATE 11-6-69						
				PROJ. ENG. E. S. Knada	DATE 11-5-69						
				PROD. C. K. Thompson	DATE 11-7-69						
				FIRST USED ON							
				SCALE							
				SHEET	3	OF		4			
				DIST.							

SIGNAL NAME	FROM PIN	TO PIN	COLOR	REMARKS							
CLR WRTS	A06T	B20U	BLUE								
CLR WRTS	A06T	A08T	"								
CLR WRTS	B20U	B20V	"								
REVISIONS				DRN. E. STEVENSON DATE 10-20-9	DATE 11-9-69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE GENERAL WIRING SHEET FOR SPECIAL HAND WRAP	SIZE A	CODE WL	NUMBER RS09-0-10	REV.
REV.	DATE	CHG. NO.	APP'D.								
				ENG. C. King	DATE 11-6-69						
				PROJ. ENG. E. S. Knada	DATE 11-5-69						
				PROD. C. K. Thompson	DATE 11-7-69						
				FIRST USED ON							
				SCALE							
				SHEET	4	OF		4			
				DIST.							

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



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

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MASTER DRAWING LIST

DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE
D-UA-RS09-P-0	A	1	CHASSIS ASSY WITH LOGIC
A-PL-RS09-P-0	A	1	CHASSIS ASSY WITH LOGIC
D-DI-RS09-P-1	B	1	DWG INDEX LIST RS09-P-1
A-ML-RS09-0	REF	1	262 K 18 BIT DEC DISK
K-WL-RS09-0-WL	C		WIRE LIST
D-MU-RS09-0-9	A	2	MODULE UTILIZATION
A-PL-RS09-0-9	A	2	MODULE UTILIZATION LIST
D-AD-7006357-0-0	B	1	WIRED ASSY
A-PL-7006357-0-0	B	1	WIRED ASSY P.L.

REVISIONS				DRN.	DATE	digital EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>					
REV.	DATE	CHG. NO.	APP'D.	D. HEALY	17/69						
A	10/69	RS09-4	D.V.	CHK'D.	DATE	TITLE CHASSIS ASSY WITH LOGIC (RS09)					
B	12/69	00006	D.V.	D. HEALY	17/69						
C	1/70	RS09-9	D.V.	ENG. <i>D. J. V. ...</i>	DATE				SIZE CODE NUMBER REV. A ML RS09-P J		
D	4/70	RS09P-1	J.J.	PROD. ENG. <i>D. J. V. ...</i>	DATE						
E	4/70	RS09P-3	D.V.	PROD. <i>K. M. ...</i>	DATE						
F	5/70	00013	D.V.	FIRST USED ON		SHEET 1 OF 1 DIST.					
H	9/71	00021	A.V.	RS09-P							
J	4/72	RS09P-5	<i>D. J. V.</i>	SCALE							

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MASTER DRAWING LIST

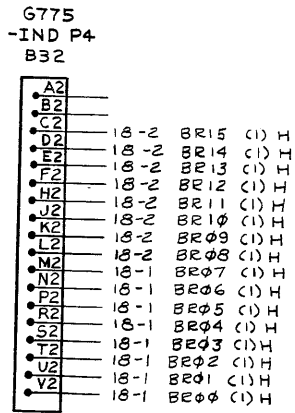
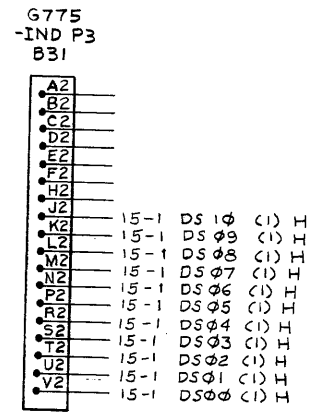
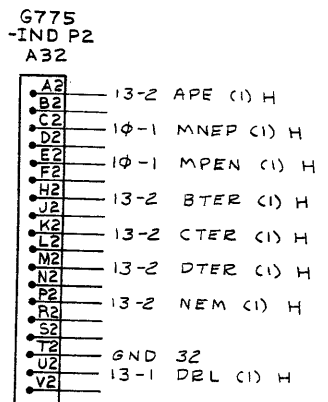
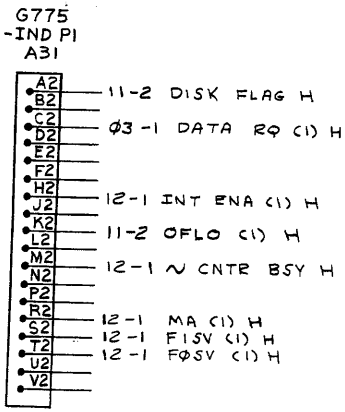
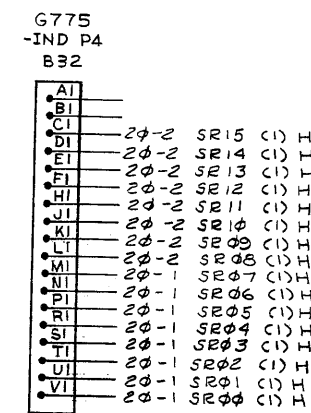
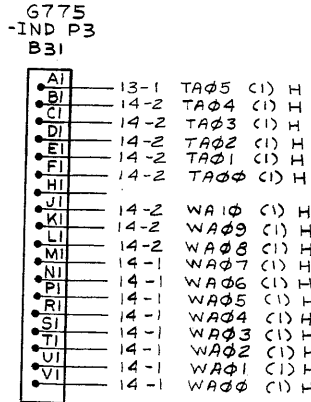
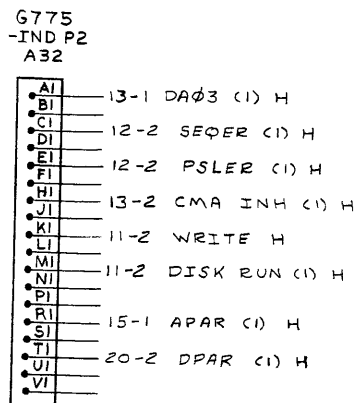
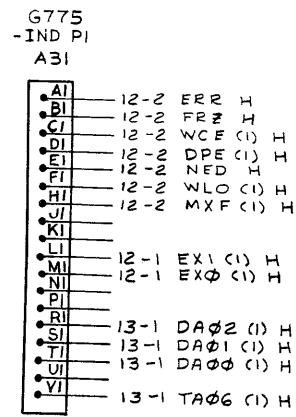
DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE
D-UA-RS08-M-0	C	2	DISK ASSY 60HZ
A-PL-RS08-M-0	C	3	DISK ASSY 60HZ
D-BS-RS08-M-2	A	2	HEAD MATRIX
D-AD-7006109-0-0	REF	1	WIRED ASSY RS08-P
A-PL-7006109-0-0	REF	1	WIRED ASSY RS08-P(PL)
D-IC-RS08-0-3	REF	1	RF08/RS08 CABLE ARRANGEMENT
D-DI-RS08-M-1	C	1	DWG INDEX LIST RS08-M
K-WL-RS08-P-WL	REF.		WIRE LIST

REVISIONS				DRN. HEALY	DATE 3/25/69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE DISK ASSY 60HZ RS08-M
REV.	DATE	CHG. NO.	APP'D.	CHK'D. HEALY	DATE 3/25/69		
ORIG	3/26/69	RS08-00002	I.M.	ENG. <i>[Signature]</i>	DATE 4/10/69		
A	9/69	RS08P-7	G.S.	PROJ. ENG. <i>[Signature]</i>	DATE 4/10/69		
B	1/70	RS08P-9	W.S.	PROD. <i>[Signature]</i>	DATE 4/10/69		
C	5/70	RS08M-3	J.L.	FIRST USED ON	RS08-M	SIZE	CODE
D	2/71	RS08M-6	J.L.	SCALE	A ML	NUMBER	REV.
E	5/71	RS08M-8	J.L.	SHEET	1 OF 1		F
F	2/72	RS08M-9	P.S.				



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SIZE CODE D I C NUMBER R F I I - 0 - 2 6

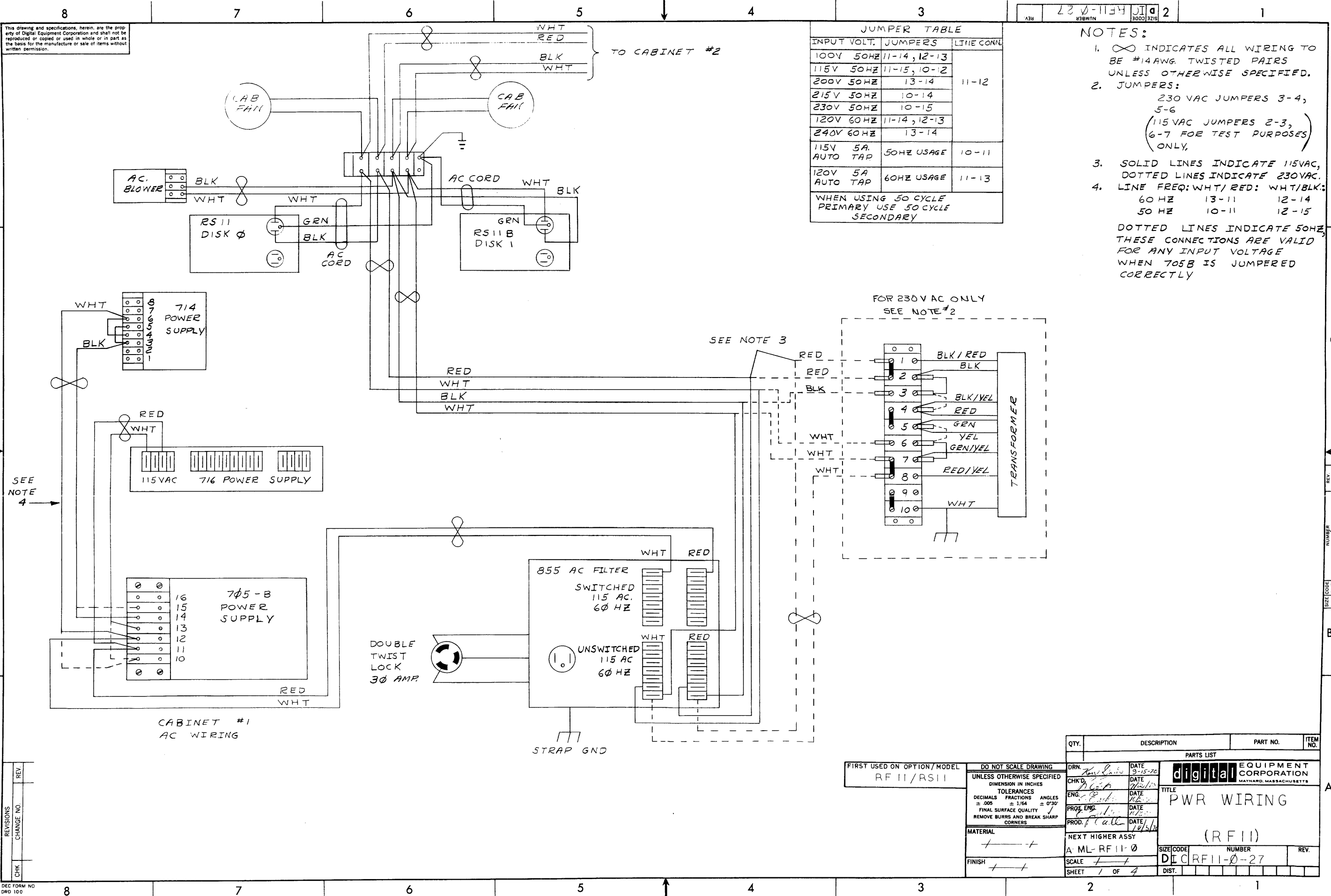


REV	NO
CHG	NO
CHK	NO

DEC FORM NO. DRD 102A

FIRST USED ON OPT/MOD RFII	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DATE 5-12-70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
UNLESS OTHERWISE SPECIFIED	DATE 7-31-70	INDICATOR CABLE		
DIMENSION IN INCHES	DATE 8-15-70	TITLE		
TOLERANCES	DATE 9-15-70	DATE		
±.005 FRACTIONS ANGLES	DATE 9-15-70	DATE		
±.125 ±.125 ±.030	DATE 9-15-70	DATE		
FINAL SURFACE QUALITY	DATE 9-15-70	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS	DATE 9-15-70	DATE		
MATERIAL	NEXT HIGHER ASSY.	SCALE NONE		
FINISH	A-ML-RFII-0	SHEET 1 OF 1		
FINISH		SCALE NONE	SIZE CODE D I C	NUMBER R F I I - 0 - 2 6
FINISH		SCALE NONE	DIST.	REV

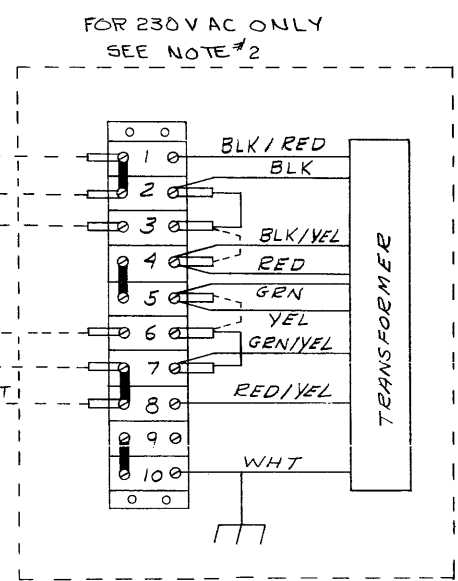
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INPUT VOLT.	JUMPERS	LINE CONN.
100V 50HZ	11-14, 12-13	
115V 50HZ	11-15, 10-12	
200V 50HZ	13-14	11-12
215V 50HZ	10-14	
230V 50HZ	10-15	
120V 60HZ	11-14, 12-13	
240V 60HZ	13-14	
115V 5A AUTO TAP	50HZ USAGE	10-11
120V 5A AUTO TAP	60HZ USAGE	11-13

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



REV.	CHANGE NO.

FIRST USED ON OPTION/MODEL
RF11/RS11

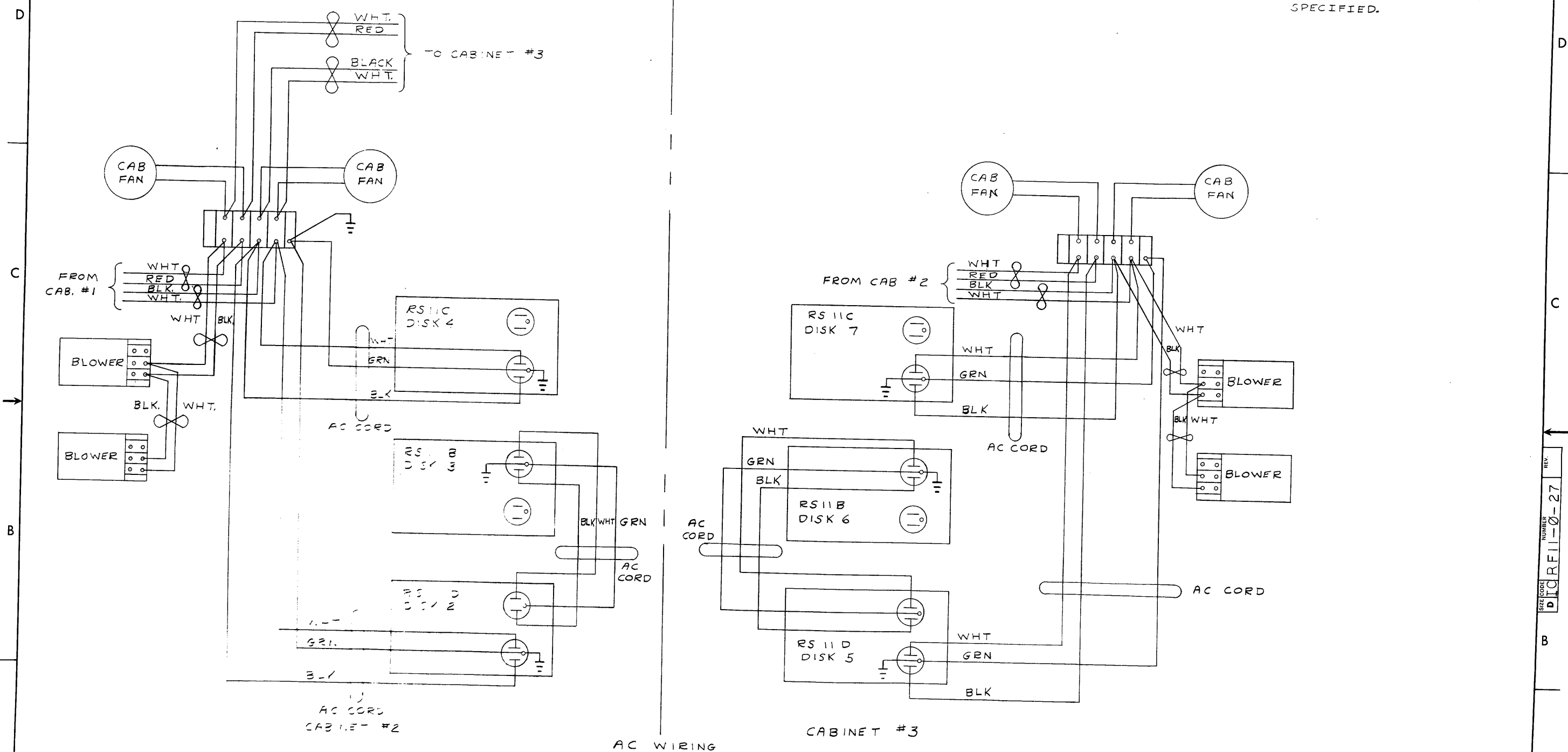
DRN.	DATE

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
TITLE PWR WIRING (RF11)			
NEXT HIGHER ASSY A-ML-RF11-0		SCALE 1 OF 4	REV.
SHEET 1 OF 4		DIST. DIC RF11-0-27	

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SIZE CODE D12C
 NUMBER RFI11-0-27
 REV. 2

NOTES:
 1. ∞ SYMBOL INDICATES ALL WIRING TO BE #14 AWG TWISTED PAIRS UNLESS OTHERWISE SPECIFIED.



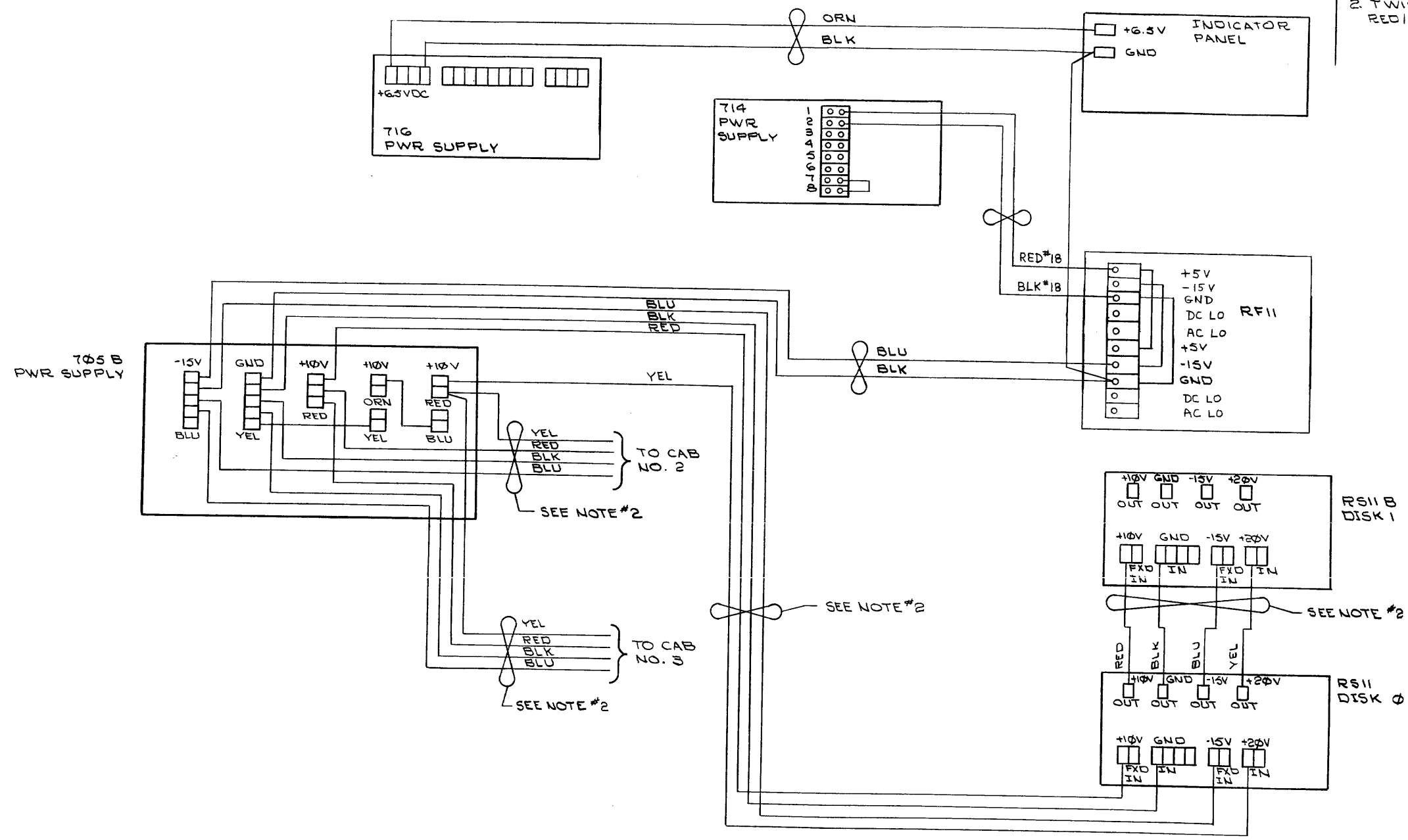
REVISIONS CHANGE NO. REV. CHK.	DEC FORM NO. DRD 100	8 7 6 5 4 3 2 1	QTY.	DESCRIPTION	PART NO.	ITEM NO.
			PARTS LIST			
FIRST USED ON OPTION/MODEL RFI1/RS11			DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ±.005 ± 1/64 ± 0°30' FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		DRN. <i>Am. Davis</i> DATE 9-14-70 CHK'D. <i>Am. Davis</i> DATE 9-23-70 ENG. <i>Am. Davis</i> DATE PROJ. ENG. <i>Am. Davis</i> DATE PROD. <i>Am. Davis</i> DATE	
MATERIAL FINISH			NEXT HIGHER ASSY A-ML-RFI1-0		TITLE POWER WIRING (RFI1)	
SCALE 1" = 1"			SHEET 2 OF 4		SIZE CODE NUMBER REV. D12C RFI11-0-27	

SIZE CODE D12C
 NUMBER RFI11-0-27
 REV.

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REV. 2
NUMBER D I C R F 11-0-27

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



REV.	
CHG	
CHK	

FIRST USED ON OPTION/MODEL
RF11/RS11

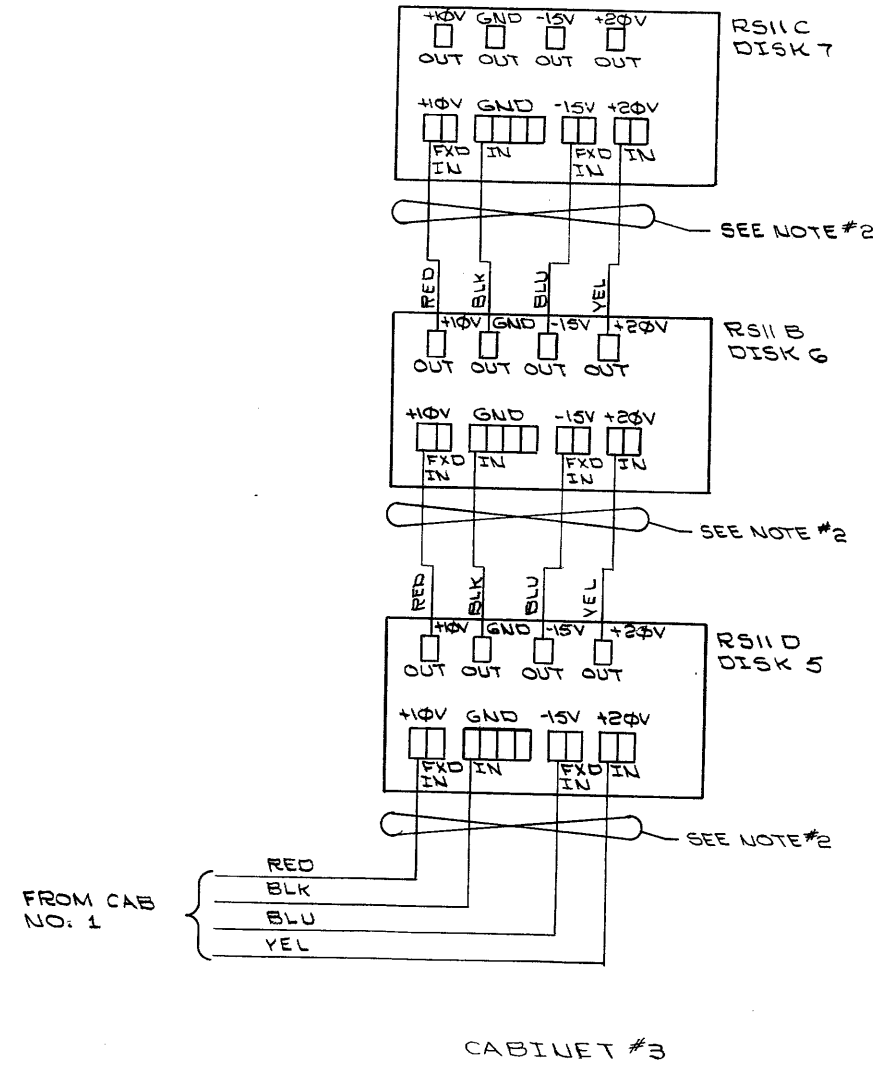
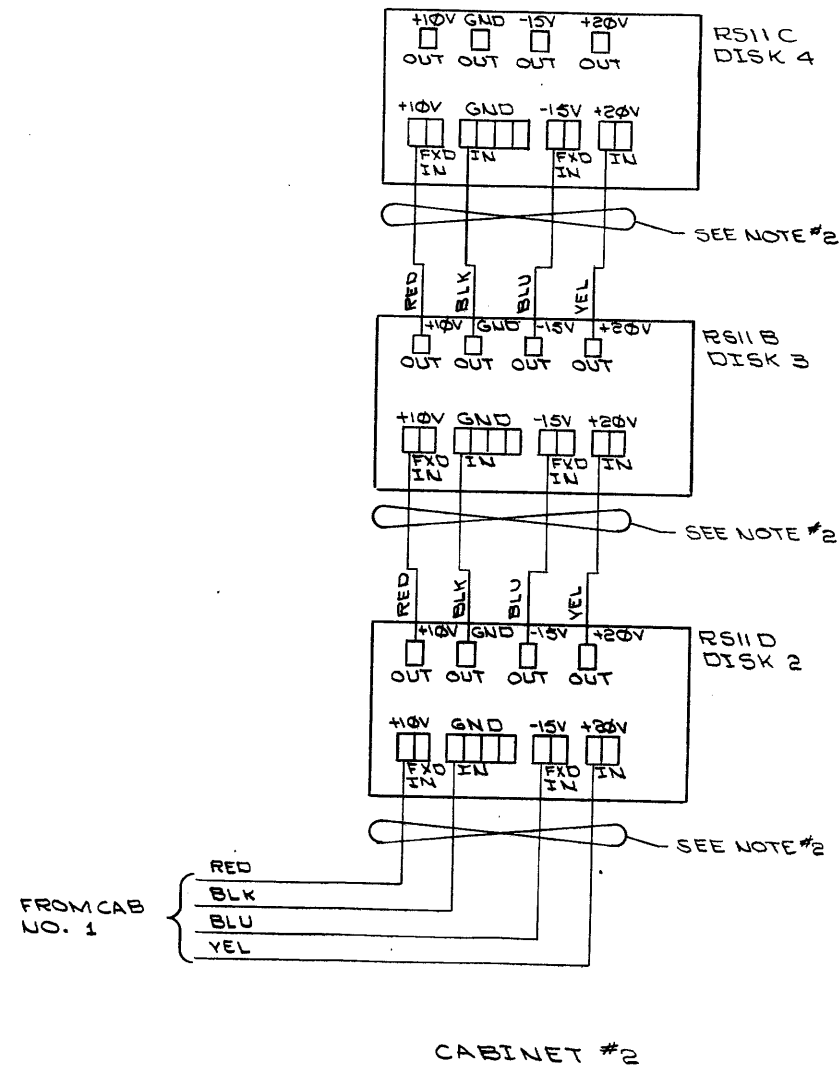
DO NOT SCALE DRAWING
 UNLESS OTHERWISE SPECIFIED
 DIMENSION IN INCHES
 TOLERANCES
 DECIMALS FRACTIONS ANGLES
 ±.005 ± 1/64 ± 0°30'
 FINAL SURFACE QUALITY
 REMOVE BURRS AND BREAK SHARP CORNERS
 MATERIAL
 FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN: <i>[Signature]</i> DATE: 1/5/70		TITLE: PWR WIRING (RF11)	
CHK'D: <i>[Signature]</i> DATE: 1/25/70		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
ENG: <i>[Signature]</i> DATE: 1/25/70		A-ML-RF11-0	
PROD. ENG: <i>[Signature]</i> DATE: 1/25/70		SCALE: NONE	
PROD: <i>[Signature]</i> DATE: 1/25/70		SHEET 3 OF 4	
NEXT HIGHER ASSY		SIZE CODE: D I C R F 11-0-27	
A-ML-RF11-0		NUMBER: 1	
REV.:		REV.:	

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SIZE CODE NUMBER
D I C R F 1 1 - 0 - 2 7

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



DC WIRING

REV.	
CHANGE NO.	
CHK	

DEC FORM NO. 8
D 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
MATERIAL
FINISH

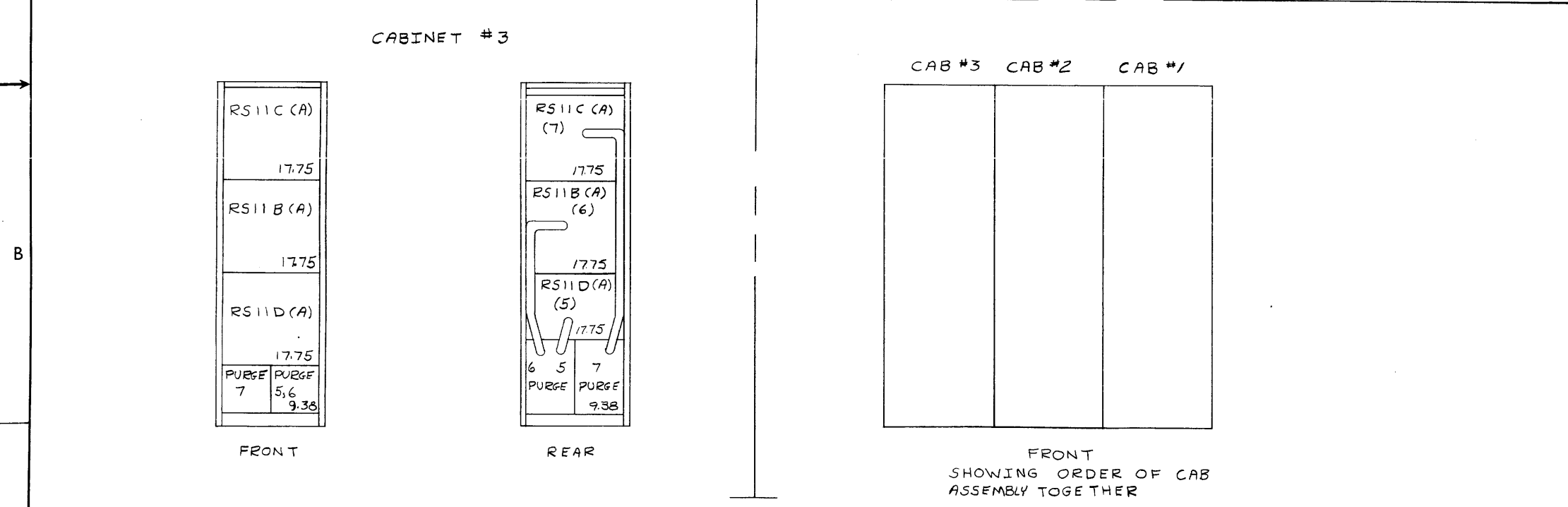
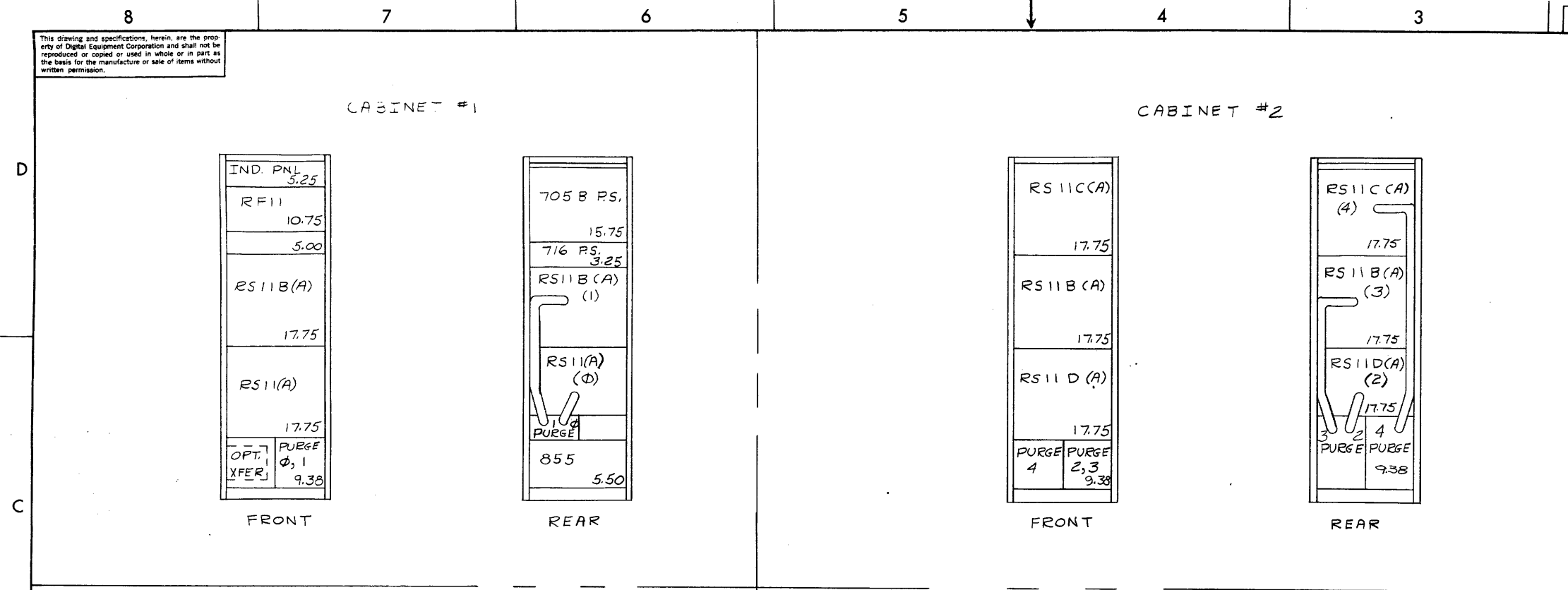
QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
TITLE PWR WIRING (RF11)			
A ML-RF11-0		SIZE CODE D I C R F 1 1 - 0 - 2 7	NUMBER REV.
SCALE NONE		SHEET 4 OF 4	DIST.

REV. NUMBER
D I C R F 1 1 - 0 - 2 7

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REV. A
NUMBER D AR RFI1-0-28
SIZE CODE 2

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



REV.	CHG.	NO.	DATE
A			

JENKINS 7-17-72

FIRST USED ON OPTION / MODEL
RF11

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

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHK'D.	DATE	TITLE	
ENG.	DATE	RF11/RS11 ARRANGEMENT	
PROD. ENG.	DATE	NEXT HIGHER ASSY	
PROD.	DATE	A-ML-RF11-0	
SCALE		SIZE CODE	NUMBER
SHEET / OF /		D AR RFI1-0-28	REV. A

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. Blom</i>	DATE 25 SEPT 1970
CHECKED <i>A. Hopkins</i>	DATE 11/2/70
ENG <i>E. Eubank</i>	DATE 11/12-70
PROJ ENG <i>E. Eubank</i>	DATE 11/12-70
PROD <i>Wall</i>	DATE 11/12/70

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
WIRE LIST
(RF II)
FOR TAPE* FILE*

ASSY NO
A-ML-RF11-0

SIZE CODE DWG. NO.
K WL RF11-0-29

REV LTR
A

SCALE $\frac{1}{1}$ SHEET 1 OF 1 DIST.

RF11.B RUN NAME	A/P PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW RV PG Y X Z	REMARKS	LENGTH	EXCEPTIONS	PAGE 1 RUN NUMBER
+3V A13U1	A06B1		1-01 *		2	RF11-09			1
+3V A13U1	A08N1		1-02 *		1	RF11-05			1
+3V A13U1	A13U1		1-03 *			RF11-05			1
+3V A13U1			1				10-5/8		1
+3V A15U1	A15C1		1-01 *		2	RF11-14=2			2
+3V A15U1	A15A1		1-02 *		1	RF11-14=2			2
+3V A15U1	A15B1		1-03 *		1	RF11-14=2			2
+3V A15U1	A15E2		1-04 *		1	RF11-14=1			2
+3V A15U1	A15F2		1-05 *		1	RF11-14=1			2
+3V A15U1	A15H2		1-06 *		1	RF11-14=1			2
+3V A15U1	A15L2		1-07 *		1	RF11-18=2			2
+3V A15U1	A15N1		1-08 *		1	RF11-18=1			2
+3V A15U1	A15M1		1-09 *		1	RF11-18=1			2
+3V A15U1	A15P1		1-10 *		1	RF11-18=1			2
+3V A15U1	A15M2		1-11 *		1	RF11-18=2			2
+3V A15U1	A15N2		1-12 *		1	RF11-18=2			2
+3V A15U1	A15T2		1-13 *		1	RF11-18=1			2
+3V A15U1	A15S2		1-14 *		1	RF11-18=1			2
+3V A15U1	A15U1		1-15 *		1	RF11-14=1			2
+3V A15U1	A15U2		1-16 *		1	RF11-18=1			2
+3V A15U1			1				40-0/8		2
+3V A19U1	A19U1		1-01 *		1	RF11-13=1			3
+3V A19U1	B19B1		1-02 *		1	RF11-13=1			3
+3V A19U1	B19S1		1-03 *		1	RF11-13=1			3
+3V A19U1	B19V1		1-04 *		1	RF11-13=1			3
+3V A19U1	B19U2		1-05 *		1	RF11-13=1			3
+3V A19U1			1				14-0/8		3
+3V A20U1	A20D1		1-01 *		1	RF11-12=1			4
+3V A20U1	A20H2		1-02 *		1	RF11-12=1			4
+3V A20U1	A20K1		1-03 *		1	RF11-12=1			4
+3V A20U1	A20L1		1-04 *		1	RF11-12=1			4
+3V A20U1	A20U1		1-05 *		1	RF11-12=1			4
+3V A20U1	A20T2		1-06 *		1	RF11-13=2			4
+3V A20U1			1				14-7/8		4
+3V A21U1	A22A1		1-01 *		2	RF11-13=2			5
+3V A21U1	A22K2		1-02 *		1	RF11-13=2			5
+3V A21U1	A21U1		1-03 *		1	RF11-12=1			5
+3V A21U1			1				8-4/8		5

RF11.B WRP288.V17(17) 06/22/72 26-JAN-73 1151 PAGE 2
 A/P PIN NAME ORDER PIN BAY - ORDER Q DRAW RV PG Y X Z REMARKS LENGTH EXCEPTIONS RUN NUMBER

RF11.B RUN NAME	A/P PIN NAME	ORDER PIN	BAY - ORDER	Q	DRAW RV PG Y X Z	REMARKS	LENGTH	EXCEPTIONS	PAGE 2 RUN NUMBER
+3V A24U1	A24U2		1-01 *		1	RF11-12=2			6
+3V A24U1	A24U1		1-02 *		2	RF11-12=2			6
+3V A24U1	A24P1		1-03 *		1	RF11-12=2			6
+3V A24U1	A24N2		1-04 *		1	RF11-12=2			6
+3V A24U1			1				9-1/8		6
+3V A27U1	A26H2		1-01 *		1	RF11-12=2			7
+3V A27U1	A26J2		1-02 *		2	RF11-12=2			7
+3V A27U1	A26N2		1-03 *		1	RF11-12=2			7
+3V A27U1	A26P2		1-04 *		1	RF11-12=2			7
+3V A27U1	A27U1		1-05 *		1	RF11-12=2			7
+3V A27U1			1				11-6/8		7
+3V A30U1	A30H1		1-01 *		2	RF11-24			8
+3V A30U1	A30F1		1-02 *		1	RF11-24			8
+3V A30U1	A30K2		1-03 *		1	RF11-24			8
+3V A30U1	A30L2		1-04 *		1	RF11-24			8
+3V A30U1	A30J1		1-05 *		1	RF11-24			8
+3V A30U1	A30M2		1-06 *		1	RF11-24			8
+3V A30U1	A30U1		1-07 *		1	RF11-24			8
+3V A30U1	B30D1		1-08 *		1	RF11-24			8
+3V A30U1	B30F2		1-09 *		1	RF11-24			8
+3V A30U1	B30K1		1-10 *		1	RF11-24			8
+3V A30U1	B29F2		1-11 *		1	RF11-24			8
+3V A30U1	B29D1		1-12 *		1	RF11-24			8
+3V A30U1	B29K1		1-13 *		1	RF11-24			8
+3V A30U1	B29R1		1-14 *		1	RF11-24			8
+3V A30U1	B29U2		1-15 *		1	RF11-24			8
+3V A30U1	B29N2		1-16 *		1	RF11-24			8
+3V A30U1	B30P1		1-17 *		1	RF11-24			8
+3V A30U1	B30N2		1-18 *		1	RF11-24			8
+3V A30U1			1				52-3/8		8
+3V A30V1	A30V1		1-01 *		1	RF11-24			9
+3V A30V1	B30A1		1-02 *		1	RF11-24			9
+3V A30V1	B30K2		1-03 *		1	RF11-24			9
+3V A30V1	B29K2		1-04 *		1	RF11-24			9
+3V A30V1	B29A1		1-05 *		1	RF11-24			9
+3V A30V1			1				15-6/8		9
+3V R09U1	A07D2		1-01 *		2	RF11-04			10
+3V R09U1	A07R2		1-02 *		1	RF11-04			10
+3V R09U1	B09U1		1-03 *		1	RF11-04			10
+3V R09U1			1				11-0/8		10

RF11.B 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 *			1		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=13=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=13=1		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.B 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

RF11.B RUN NAME	ORDER PIN	BAY ORDER	DRAW RV PG Y X Z	REMARKS	LENGTH	EXCEPTIONS	PAGE 5 RUN NUMBER
+3V D15U1	D15D1	1-01 *	RF11=10	1			22
+3V D15U1	D15H1	1-02 *	RF11=19	2			22
+3V D15U1	D15L2	1-03 *	RF11=19	1			22
+3V D15U1	D15P1	1-04 *	RF11=19	2			22
+3V D15U1	D15U1	1-05 *	RF11=10		12-1/8		22
+3V D15U1	D15U1	1					22
+3V D16U1	D16D2	1-01 *	RF11=10	2			23
+3V D16U1	D16F2	1-02 *	RF11=10	1			23
+3V D16U1	D16E2	1-03 *	RF11=10	2			23
+3V D16U1	D16M1	1-04 *	RF11=19	1			23
+3V D16U1	D16M2	1-05 *	RF11=19	2			23
+3V D16U1	D16N2	1-06 *	RF11=19	1			23
+3V D16U1	D16N1	1-07 *	RF11=19	2			23
+3V D16U1	D16U1	1-08 *	RF11=10		20-6/8		23
+3V D16U1	D16U1	1					23
+3V D21U1	D19C1	1-01 *		2			24
+3V D21U1	D20E1	1-02 *	RF11=19	1			24
+3V D21U1	D20F1	1-03 *	RF11=19	2			24
+3V D21U1	D20F2	1-04 *	RF11=19	1			24
+3V D21U1	D20E2	1-05 *	RF11=19	2			24
+3V D21U1	D20D1	1-06 *	RF11=19	1			24
+3V D21U1	D20H2	1-07 *	RF11=19	2			24
+3V D21U1	D21U1	1-08 *	RF11=19		20-6/8		24
+3V D21U1	D21U1	1					24
+3V D22U1	D22C1	1-01 *	RF11=15=1	1			25
+3V D22U1	D22B1	1-02 *	RF11=15=1	2			25
+3V D22U1	D22E2	1-03 *	RF11=15=1	1			25
+3V D22U1	D22F2	1-04 *	RF11=15=1	2			25
+3V D22U1	D22J1	1-05 *	RF11=20=2	1			25
+3V D22U1	D22M2	1-06 *	RF11=20=1	2			25
+3V D22U1	D22N2	1-07 *	RF11=20=1	1			25
+3V D22U1	D22T2	1-08 *	RF11=20=1	2			25
+3V D22U1	D22U1	1-09 *	RF11=15=1	1			25
+3V D22U1	D22U2	1-10 *		2			25
+3V D22U1	D22R1	1-11 *	RF11=20=1	1			25
+3V D22U1	D22P1	1-12 *	RF11=20=1	2			25
+3V D22U1	D22K1	1-13 *	RF11=20=2	1			25
+3V D22U1	D22H2	1-14 *	RF11=15=1	2			25
+3V D22U1	D22H2	1			36-2/8		25
+3V D22U1	D22H2	1					25

RF11.B WRP288.V17(17) 06/22/72 26-JAN-73 1151 PAGE 6
 RUN NAME ORDER PIN BAY ORDER DRAW RV PG Y X Z REMARKS LENGTH EXCEPTIONS RUN NUMBER

RF11.B RUN NAME	ORDER PIN	BAY ORDER	DRAW RV PG Y X Z	REMARKS	LENGTH	EXCEPTIONS	PAGE 6 RUN NUMBER
+3V D23U1	D24J2	1-01 *	RF11=10	1			26
+3V D23U1	D24K2	1-02 *	RF11=10	2			26
+3V D23U1	D24N2	1-03 *	RF11=10	1			26
+3V D23U1	D24P2	1-04 *	RF11=10	2			26
+3V D23U1	D23U1	1-05 *	RF11=10		11-4/8		26
+3V D23U1	D23U1	1					26
+ATT (R)	D28K2	1-01 *	RF11=22	2		TERM HERE?	27
+ATT (R)	D29S2	1-02 *		1		CABLE	27
+ATT (R)	D31D2	1-03 *	RF11=23		8-5/8		27
+ATT (R)	D31D2	1					27
+BTT (R)	C27D2	1-01 *	RF11=22	1		TERM HERE?	28
+BTT (R)	D29D2	1-02 *		2		CABLE	28
+BTT (R)	D31H2	1-03 *	RF11=23		11-0/8		28
+BTT (R)	D31H2	1					28
+CTT (R)	D28D2	1-01 *	RF11=22	2		TERM HERE?	29
+CTT (R)	D29M2	1-02 *		1		CABLE	29
+CTT (R)	D31M2	1-03 *	RF11=23		8-2/8		29
+CTT (R)	D31M2	1					29
+DATA (B)	C27K2	1-01 *	RF11=22	1		TERM HERE?	30
+DATA (B)	D29H2	1-02 *		2		CABLE	30
+DATA (B)	D31S2	1-03 *	RF11=23		11-0/8		30
+DATA (B)	D31S2	1					30
-ATT (B)	D28M2	1-01 *	RF11=22	2		TERM HERE?	31
-ATT (B)	D29T2	1-02 *		1		CABLE	31
-ATT (B)	D31E2	1-03 *	RF11=23		9-0/8		31
-ATT (B)	D31E2	1					31
-BTT (B)	C27H2	1-01 *	RF11=22	1		TERM HERE?	32
-BTT (B)	D29E2	1-02 *		2		CABLE	32
-BTT (B)	D31K2	1-03 *	RF11=23		11-0/8		32
-BTT (B)	D31K2	1					32
-CTT (B)	D31P2	1-01 *	RF11=23	2		CABLE	33
-CTT (B)	D29P2	1-02 *		1		TERM HERE?	33
-CTT (B)	D28H2	1-03 *	RF11=22		7-7/8		33
-CTT (B)	D28H2	1					33
-DATA (B)	C27M2	1-01 *	RF11=22	1		TERM HERE?	34
-DATA (B)	D29K2	1-02 *		2		CABLE	34
-DATA (B)	D31T2	1-03 *	RF11=23		10-7/8		34
-DATA (B)	D31T2	1					34

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME PIN ORDER	0	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 7 RUN NUMBER
-LOCK (B)	L D28U1				2				35
-LOCK (B)	L D29V2				1			TERM HERE?	35
-LOCK (B)	L D31V2		C RF11=23				8-0/8	CABLE	35
A TEST	L C13V2				2				35
A TEST	L D21R2		RF11=10		1				36
A TEST	L D21U2		RF11=10		1		12-1/8		36
A01 IN	H B05D2		RF11=05		1				37
A01 IN	H B10C1		RF11=07				5-2/8		37
A02 IN	H B05F2		RF11=05		1				38
A02 IN	H B10B1		RF11=07				5-6/8		38
A03 IN	H B05J2		RF11=05		1				39
A03 IN	H B10B2		RF11=07				6-2/8		39
A10D1	A10D1		RF11=03=1		1				40
A10D1	A10D2		RF11=03=1				2-6/8		40
A10H1	A10H1		RF11=03=1		1				41
A10H1	A10M2		RF11=03=1				3-4/8		41
A10J2	A10J2		RF11=03=1		1				42
A10J2	A10J1		RF11=03=1		2				42
A10J2	A07U1		RF11=03=1				8-1/8		42
A10N1	A10N1		RF11=18=1		1				43
A10N1	A15R1		RF11=18=1				5-6/8		43
A10U1	A10U1		RF11=18=2		1				44
A10U1	A15K2		RF11=18=2				6-6/8		44

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME PIN ORDER	0	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 8 RUN NUMBER
A10V1	A10N2		RF11=13=2		2				45
A10V1	A10P2		RF11=13=2		1				45
A10V1	A10R2		RF11=13=2		2				45
A10V1	A10V1		RF11=13=2				8-2/8		45
A13C1	A13C1		RF11=18=1		1				46
A13C1	A13E1		RF11=18=1				2-6/8		46
A13F1	A13F1		RF11=18=1		2				47
A13F1	A13E2		RF11=18=1		1				47
A13F1	A13J2		RF11=18=1		2				47
A13F1	A13J1		RF11=18=1		1				47
A13F1	A13M1		RF11=18=1		2				47
A13F1	A13M2		RF11=18=1		1				47
A13F1	A13R2		RF11=18=1		1				47
A13F1	A13R1		RF11=18=1		1				47
A13F1	A13U2		RF11=18=1		1				47
A13F2	A13F2		RF11=18=1		1		22-1/8		47
A13F2	B13D1		RF11=18=1						48
A13F2	A13K1		RF11=18=1		1		5-6/8		48
A13K1	B13F2		RF11=18=1						49
A13K1	A13K1		RF11=18=1		1		5-6/8		49
A13K2	A13K2		RF11=18=1		1				50
A13K2	B13K1		RF11=18=1				6-0/8		50
A13N1	A13N1		RF11=18=1		1				51
A13N1	B13N2		RF11=18=1				6-0/8		51
A13N2	A13N2		RF11=18=1		1				52
A13N2	B13R1		RF11=18=1				6-2/8		52
A13S1	A13S1		RF11=18=1		1				53
A13S1	B13U2		RF11=18=1				6-2/8		53

RF11.B RUN NAME	A/P PIN	WRP288.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		1				57
A14F1	A14R1	1-08 *	RF11=18=2		2				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	WRP288.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	A16K2	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	A16V2	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		1				72
A17F1	A17R1	1-08 *	RF11=14=1		2				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

RF11.8
RUN NAME

A/P WRP288.V17(17) 06/22/72
PIN ORDER BAY -
NAME PIN ORDER

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LENGTH EXCEPTIONS

PAGE 13
RUN NUMBER

RF11.8 RUN NAME	A/P PIN NAME	WRP288.V17(17) 06/22/72 PIN ORDER BAY - NAME PIN ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH EXCEPTIONS	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	CO6H2	1-02 *		RF11=12=1		1				95
A19N1		1						13-3/8		95
A19S1	A19S1	1-01 *		RF11=12=1		1				96
A19S1	CO6D1	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	B21B1	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

RF11.8
PUN NAME

A/P WRP288.V17(17) 06/22/72
PIN ORDER BAY -
NAME PIN ORDER

26-JAN-73 1151
LENGTH EXCEPTIONS

PAGE 14
RUN NUMBER

RF11.8 PUN NAME	A/P PIN NAME	WRP288.V17(17) 06/22/72 PIN ORDER BAY - NAME PIN ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH EXCEPTIONS	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	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 17 RUN NUMBER
ADS 04 (1)	H A29M1	1-01 *	RF11E24		1				136
ADS 04 (1)	H B30S1	1-02 *	RF11E24				6-6/8		136
ADS 04 (1)		1							136
ADS 05 (0)	H B30V1		RF11E24			1-PIN RUN			137
ADS 05 (1)	H A29N1	1-01 *	RF11E24		1				138
ADS 05 (1)	H B30V2	1-02 *	RF11E24				7-2/8		138
ADS 05 (1)		1							138
ADS 06 (0)	H B29F1		RF11E24			1-PIN RUN			139
ADS 06 (1)	H A29D2	1-01 *	RF11E24		1				140
ADS 06 (1)	H B29E1	1-02 *	RF11E24				6-2/8		140
ADS 06 (1)		1							140
AUS 07 (0)	H B29J2		RF11E24			1-PIN RUN			141
ADS 07 (1)	H A29E2	1-01 *	RF11E24		1				142
ADS 07 (1)	H B29H2	1-02 *	RF11E24				6-0/8		142
ADS 07 (1)		1							142
ADS 08 (0)	H B29M1		RF11E24			1-PIN RUN			143
ADS 08 (1)	H A29K2	1-01 *	RF11E24		1				144
ADS 08 (1)	H B29L1	1-02 *	RF11E24				6-0/8		144
ADS 08 (1)		1							144
AUS 09 (0)	H B29R2		RF11E24			1-PIN RUN			145
ADS 09 (1)	H A29L2	1-01 *	RF11E24		1				146
ADS 09 (1)	H B29P2	1-02 *	RF11E24				6-2/8		146
ADS 09 (1)		1							146
AUS 10 (0)	H B29U1		RF11E24			1-PIN RUN			147
ADS 10 (1)	H A29R2	1-01 *	RF11E24		1				148
ADS 10 (1)	H B29S1	1-02 *	RF11E24				6-2/8		148
ADS 10 (1)		1							148
ADS OUT	L A30N2	1-01 *	RF11E24		1				149
ADS OUT	L B10D2	1-02 *	RF11E7				14-6/8		149
ADS OUT		1							149

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 18 RUN NUMBER
ADS TO BUS	H A29C1	1-01 *	RF11E24		2				150
ADS TO BUS	H A29F2	1-02 *	RF11E24		1				150
ADS TO BUS	H A29J1	1-03 *	RF11E24		2				150
ADS TO BUS	H A29M2	1-04 *	RF11E24		1				150
ADS TO BUS	H A29P1	1-05 *	RF11E24		2				150
ADS TO BUS	H A30P2	1-06 *	RF11E24		1				150
ADS TO BUS	H A29T2	1-07 *	RF11E24		2				150
ADS TO BUS	H B27E1	1-08 *	RF11E24				22-7/8		150
ADS TO BUS		1							150
APAR (0)	H A22J1	1-01 *	RF11E13E2		2				151
APAR (0)	H B19R2	1-02 *	RF11E13E1		1				151
APAR (0)	H D18E2	1-03 *	RF11E16E1				15-4/8		151
APAR (0)		1							151
APAR (1)	H A32R1	1-01 *	RF11E02		1	CABLE TERM HERE?			152
APAR (1)	H B19F2	1-02 *	RF11E15E1				11-0/8		152
APAR (1)		1							152
APE (0)	H A22L1	1-01 *	RF11E13E2		2				153
APE (0)	H A24R1	1-02 *	RF11E12E2		1				153
APE (0)	H B28J1	1-03 *	RF11E12E2				10-3/8		153
APE (0)		1							153
APE (1)	H A12P1	1-01 *	RF11E06E2		2	TERM HERE?			154
APE (1)	H A22M1	1-02 *	RF11E13E2		1	CABLE			154
APE (1)	H A32A2	1-03 *	RF11E02				17-6/8		154
APE (1)		1							154
ATER	H A12L2	1-01 *	RF11E06E2		1				155
ATER	H B21F1	1-02 *	RF11E13E2				9-4/8		155
ATER		1							155
ATF SV (0)	H C19E2	1-01 *	RF11E10		1				156
ATF SV (0)	H D15F1	1-02 *	RF11E10				7-3/8		156
ATF SV (0)		1							156
ATF SV (1)	H C19J1	1-01 *	RF11E10		1				157
ATF SV (1)	H D15E1	1-02 *	RF11E10				6-2/8		157
ATF SV (1)		1							157
ATN (B)	L D23S1	1-01 *	RF11E10		1				158
ATN (B)	L D25P2	1-02 *	RF11E10				4-4/8		158
ATN (B)		1							158

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 19 RUN NUMBER
ATNM	L C08N1	1-01 *	RF11=21		1				159
ATNM	L D25N2	1-02 *	RF11=10				14=4/8		159
ATNM		1							159
ATOK	H C13E2	1-01 *	RF11=15		2				160
ATOK	H C12D2	1-02 *	RF11=11		1				160
ATOK	H C12H1	1-03 *	RF11=11		2				160
ATOK	H C12P1	1-04 *	RF11=11		1				160
ATOK	H C12L2	1-04 *	RF11=11		2				160
ATOK	H D16H2	1-05 *	RF11=11		1				160
ATOK	H D16L1	1-06 *	RF11=10						160
ATOK		1-07 *	RF11=10		1		21=6/8		160
ATOK	L D21M2	1-01 *	RF11=11		1				161
ATOK	L D21L1	1-02 *	RF11=11		2				161
ATOK	L D16J2	1-03 *	RF11=10						161
ATOK		1					7=7/8		161
ATP (B)	L D23N1	1-01 *	RF11=10		1				162
ATP (B)	L D25H2	1-02 *	RF11=10						162
ATP (B)		1					4=5/8		162
ATPM	L C08U1	1-01 *	RF11=21		1				163
ATPM	L D25J2	1-02 *	RF11=10						163
ATPM		1					13=4/8		163
ATPN	H B27D1	1-01 *	RF11=24		2				164
ATPN	H B19E2	1-02 *	RF11=13=2		1				164
ATPN	H B19C1	1-03 *	RF11=13=2		2				164
ATPN	H D19F1	1-04 *	RF11=19		1				164
ATPN	H D20C1	1-05 *	RF11=19		2				164
ATPN	H D22V2	1-06 *	RF11=10		1				164
ATPN	H D17V1	1-07 *	RF11=10		2				164
ATPN	H C13L1	1-08 *	RF11=19		1				164
ATPN	H C12E2	1-09 *	RF11=11		2				164
ATPN	H C12J1	1-10 *	RF11=11		1				164
ATPN	H C12M2	1-11 *	RF11=11		2				164
ATPN	H C12R1	1-12 *	RF11=11		1				164
ATPN	H C00R1	1-13 *	RF11=11		2				164
ATPN		1			1		60=0/8		164

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 20 RUN NUMBER
ATPN	L 927H2	1-01 *	RF11=13=2		1				165
ATPN	L D23L2	1-02 *	RF11=20=1		1				165
ATPN	L D22A1	1-03 *	RF11=15=1		1				165
ATPN	L D21D1	1-04 *	RF11=15=1		2				165
ATPN	L D17U1	1-05 *	RF11=10		1				165
ATPN	L D15B1	1-06 *	RF11=10						165
ATPN		1					29=5/8		165
ATPN + 50	L D19K1	1-01 *	RF11=19		1				166
ATPN + 50	L D20K1	1-02 *	RF11=19						166
ATPN + 50		1					3=4/8		166
ATTN	H D23P1	1-01 *	RF11=10		1				167
ATTN	H D28L1	1-02 *	RF11=22						167
ATTN		1					6=0/8		167
ATTP	H D23L1	1-01 *	RF11=10		1				168
ATTP	H D28J1	1-02 *	RF11=22						168
ATTP		1					5=6/8		168
R06U1	B06U1	1-01 *	RF11=8		1				169
R06U1	B06V1	1-02 *	RF11=8						169
R06U1		1					2=3/8		169
R09C1	A06E2	1-01 *	RF11=09		1				170
R09C1	B09C1	1-02 *	RF11=08						170
R09C1		1					6=6/8		170
B09F1	B06S1	1-01 *	RF11=09		1				171
B09F1	B09F1	1-02 *	RF11=08						171
B09F1		1					5=3/8		171
R09F2	B06V2	1-01 *	RF11=08		1				172
R09F2	B09F2	1-02 *	RF11=08						172
R09F2		1					5=2/8		172
B09K1	B06R1	1-01 *	RF11=08		1				173
B09K1	B09K1	1-02 *	RF11=08						173
B09K1		1					5=0/8		173
B09N2	B09N2	1-01 *	RF11=03=1		2				174
B09N2	B09R1	1-02 *	RF11=03=1		1				174
B09N2	B09P1	1-03 *	RF11=03=1						174
B09N2		1					5=1/8		174

RF11.8 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 21 RUN NUMBER
B09S1	B07U2	1-01 *	RF11=03=1	1			175
B09S1	B09S1	1-02 *	RF11=03=1	1			175
B09S1		1			4-0/8		175
B09S2	B09S2	1-01 *	RF11=11	1			176
B09S2	C16B1	1-02 *	RF11=11	1			176
B09S2		1			7-2/8		176
B11U1	B09V2	1-01 *	RF11=06=1	1			177
B11U1	B11U1	1-02 *	RF11=06=1	1			177
B11U1		1			3-6/8		177
B20R1	A25N2	1-01 *	RF11=12=1	2			178
B20R1	B20R1	1-02 *	RF11=12=1	1			178
B20R1	B20U2	1-03 *	RF11=12=1	1			178
B20R1		1			10-0/8		178
B21C1	B20E2	1-01 *	RF11=12=2	1			179
B21C1	B21C1	1-02 *	RF11=12=2	1			179
B21C1		1			2-6/8		179
B21F2	B21F2	1-01 *	RF11=13=2	1			180
B21F2	B22D2	1-02 *	RF11=13=2	1			180
B21F2		1			3-4/8		180
B21K1	B21K1	1-01 *	RF11=13=2	1			181
B21K1	B22E2	1-02 *	RF11=13=2	1			181
B21K1		1			3-7/8		181
B24J2	B24J2	1-01 *	RF11=13=2	2			182
B24J2	B22N2	1-02 *	RF11=13=2	1			182
B24J2	B22K1	1-03 *	RF11=13=2	1			182
B24J2	A22K1	1-04 *	RF11=13=2	1			182
B24J2	A20P1	1-05 *	RF11=13=2	1			182
B24J2	B07D2	1-06 *	RF11=13=2	1			182
B24J2		1			28-3/8		182
B24L1	A20H1	1-01 *	RF11=12=1	1			183
B24L1	A20L2	1-02 *	RF11=12=1	2			183
B24L1	B24L1	1-03 *	RF11=12=1	1			183
B24L1	C06D2	1-04 *	RF11=12=1	1			183
B24L1	C06A1	1-05 *	RF11=12=1	1			183
B24L1		1			26-6/8		183

RF11.8 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 22 RUN NUMBER
B24V2	B24V2	1-01 *	RF11=11	2			184
B24V2	C11J2	1-02 *	RF11=11	1			184
B24V2	C11H2	1-03 *	RF11=11	1			184
B24V2		1			13-1/8		184
B25F2	B20D2	1-01 *	RF11=12=2	1			185
B25F2	B25F2	1-02 *	RF11=12=2	2			185
B25F2	B25P2	1-03 *	RF11=12=2	1			185
B25F2		1			9-6/8		185
B25J1	A22T2	1-01 *	RF11=13=2	1			186
B25J1	B25J1	1-02 *	RF11=13=2	2			186
B25J1	B26U1	1-03 *	RF11=13=2	1			186
B25J1		1			10-0/8		186
B25K1	B25K1	1-01 *	RF11=13=2	1			187
B25K1	B26P1	1-02 *	RF11=13=2	1			187
B25K1		1			3-6/8		187
B25K2	B23C1	1-01 *	RF11=13=1	1			188
B25K2	B25K2	1-02 *	RF11=13=1	1			188
B25K2		1			4-7/8		188
B25N1	B25N1	1-01 *	RF11=13=1	1			189
B25N1	B25R2	1-02 *	RF11=13=1	1			189
B25N1		1			2-6/8		189
B25S2	B25S2	1-01 *	RF11=12=2	1			190
B25S2	B25E2	1-02 *	RF11=12=2	1			190
B25S2		1			4-2/8		190
B26D1	B24M2	1-01 *	RF11=12=2	1			191
B26D1	B26D1	1-02 *	RF11=12=2	1			191
B26D1		1			4-2/8		191
B26H2	B20J1	1-01 *	RF11=12=2	1			192
B26H2	B26H2	1-02 *	RF11=12=2	1			192
B26H2		1			6-2/8		192
B26M2	B24F1	1-01 *	RF11=12=1	1			193
B26M2	B24J1	1-02 *	RF11=12=1	1			193
B26M2	B24H1	1-03 *	RF11=12=1	1			193
B26M2	B24K1	1-04 *	RF11=12=1	1			193
B26M2	B26M2	1-05 *	RF11=12=1	1			193
B26M2		1			12-3/8		193

RF11.B RUN NAME	WRP288.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 23 RUN NUMBER
B26N1	A25E2	B26N1	1-01 *		RF11=12=2		1				194
B26N1	B26N1		1-02 *		RF11=12=2				7-0/8		194
B27C1	A22N2	A22R1	1-01 *		RF11=13=2		2				195
B27C1	A22R1	A22S2	1-02 *		RF11=13=2		1				195
B27C1	B27C1		1-03 *		RF11=13=2		2				195
B27C1	B27C1		1-04 *		RF11=13=2				11-5/8		195
B27F1	B27F1		1-01 *		RF11=24		1				196
B27F1	B29S2		1-02 *		RF11=24				4-5/8		196
B27K1	B19M2	B27K1	1-01 *		RF11=13=1		1				197
B27K1	B27K1		1-02 *		RF11=13=1				7-0/8		197
B27K2	B22H1	B22L2	1-01 *		RF11=13=2		1				198
B27K2	B22L2	B27K2	1-02 *		RF11=13=2		2				198
B27K2	B27K2		1-03 *		RF11=13=2				8-3/8		198
B27N1	B22R1	B27N1	1-01 *		RF11=13=1		1				199
B27N1	B27N1		1-02 *		RF11=13=1				5-6/8		199
B27N2	B27N2	B27R1	1-01 *		RF11=14=2		1				200
B27N2	B27N2		1-02 *		RF11=14=2				2-6/8		200
B27S1	B16D1	B27S1	1-01 *		RF11=14=2		1				201
B27S1	B27S1		1-02 *		RF11=14=2				9-6/8		201
B28E1	A28J2	A28H2	1-01 *		RF11=12=2		1				202
B28E1	A28H2	B28E1	1-02 *		RF11=12=2		2				202
B28E1	B28E1		1-03 *		RF11=12=2				8-1/8		202
B28P2	B28P2	C18P1	1-01 *		RF11=11		1				203
B28P2	C18P1		1-02 *		RF11=11				10-6/8		203
B28S1	A25M2	R28S1	1-01 *		RF11=12=1		1				204
B28S1	R28S1		1-02 *		RF11=12=1				7-4/8		204

RF11.B RUN NAME	WRP288.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 24 RUN NUMBER
PC 00 (0)	C13J1	D15M1	1-01 *		RF11=19		1				205
PC 00 (0)	D15M1	D19F2	1-02 *		RF11=19		2				205
PC 00 (0)	D19F2		1-03 *		RF11=19				13-0/8		205
PC 00 (0)	C13M2	D15N1	1-01 *		RF11=19		1				206
PC 00 (0)	D15N1		1-02 *		RF11=19				6-6/8		206
PC 00 (0)	C13H2	D14E1	1-01 *		RF11=19		2				207
PC 00 (0)	D14E1	D14D2	1-02 *		RF11=19		1				207
PC 00 (0)	D14D2		1-03 *		RF11=19				8-5/8		207
PC 00 (1)	D14F1		1-01 *		RF11=19					1=PIN RUN	208
PC 01 (0)	D14H1	D14H2	1-01 *		RF11=19		1				209
PC 01 (0)	D14H2		1-02 *		RF11=19				2-6/8		209
PC 01 (1)	D14E2	D14J2	1-01 *		RF11=19		1				210
PC 01 (1)	D14J2		1-02 *		RF11=19				2-7/8		210
PC 02 (0)	D14L1	D14L2	1-01 *		RF11=19		1				211
PC 02 (0)	D14L2		1-02 *		RF11=19				2-6/8		211
PC 02 (1)	D14J1	D14M1	1-01 *		RF11=19		1				212
PC 02 (1)	D14M1		1-02 *		RF11=19				2-7/8		212
PC 03 (0)	D14N1	D14P2	1-01 *		RF11=19		1				213
PC 03 (0)	D14P2		1-02 *		RF11=19				2-3/8		213
PC 03 (1)	D14M2	D14R2	1-01 *		RF11=19		1				214
PC 03 (1)	D14R2		1-02 *		RF11=19				2-7/8		214
PC 04 (0)	D14P1	D14S2	1-01 *		RF11=19		2				215
PC 04 (0)	D14S2	D14U1	1-02 *		RF11=19		1				215
PC 04 (0)	D14U1		1-03 *		RF11=19				5-4/8		215
PC 04 (1)	D14S1		1-01 *		RF11=19					1=PIN RUN	216

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 25 RUN NUMBER
RC 05 (0)	H C13J2	RF11=19		1				217
RC 05 (0)	H D14V1	RF11=19		2				217
RC 05 (0)	H D11H2	RF11=19		1				217
RC 05 (0)	H D11F2	RF11=19		1		14=5/8		217
RC 05 (1)	H A22M2	RF11=13=21		1				218
RC 05 (1)	H D19V2	RF11=11		2				218
RC 05 (1)	H D14V2	RF11=19		1		18=6/8		218
RC 05 (1)	H A07E1	RF11=4		1				219
RG IN	H B04U2	RF11=1		1		8=4/8		219
RG IN	H A07A1	RF11=4		1				220
RG OUT	H B04V2	RF11=1		1				220
RG OUT	H B13F1	RF11=18=1		1		9=0/8		220
RR 00 (0)	H B13J2	RF11=18=1		1			1-PIN RUN	221
RR 00 (1)	H B11A1	RF11=06=1		1			TERM HERE?	222
RR 00 (1)	H B13E1	RF11=18=1		2				222
RR 00 (1)	H C14L1	RF11=20=1		1			CABLE	222
RR 00 (1)	H B32V2	RF11=02		1		25=0/8		222
RR 00 (1)	H B13J2	RF11=18=1		1			1-PIN RUN	223
RR 01 (1)	H B11D1	RF11=06=1		1			TERM HERE?	224
RR 01 (1)	H B13H2	RF11=18=1		2				224
RR 01 (1)	H C14H2	RF11=20=1		1			CABLE	224
RR 01 (1)	H B32U2	RF11=02		1		23=6/8		224
RR 01 (1)	H B13M1	RF11=18=1		1			1-PIN RUN	225
RR 02 (0)	H B11D2	RF11=06=1		1			TERM HERE?	226
RR 02 (1)	H B13L1	RF11=18=1		2				226
RR 02 (1)	H C14H1	RF11=20=1		1			CABLE	226
RR 02 (1)	H B32T2	RF11=02		1		23=3/8		226
RR 02 (1)	H B13R2	RF11=18=1		1			1-PIN RUN	227

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 26 RUN NUMBER
RR 03 (1)	H B11H1	RF11=06=1		1			TERM HERE?	228
RR 03 (1)	H B13P2	RF11=18=1		2				228
RR 03 (1)	H C14D2	RF11=20=1		1			CABLE	228
RR 03 (1)	H B32S2	RF11=02		1		22=7/8		228
RR 04 (0)	H B13U1	RF11=18=1		1			1-PIN RUN	229
RR 04 (1)	H B11H2	RF11=06=1		1			TERM HERE?	230
RR 04 (1)	H B13S1	RF11=18=1		2				230
RR 04 (1)	H C14D1	RF11=20=1		1			CABLE	230
RR 04 (1)	H B32R2	RF11=02		1		22=3/8		230
RR 05 (0)	H B13V1	RF11=18=1		1			1-PIN RUN	231
RR 05 (1)	H B11L1	RF11=06=1		2			TERM HERE?	232
RR 05 (1)	H B13V2	RF11=18=1		1				232
RR 05 (1)	H C14A1	RF11=20=1		2			CABLE	232
RR 05 (1)	H B32P2	RF11=02		1		20=6/8		232
RR 06 (0)	H B15N1	RF11=18=1		1			1-PIN RUN	233
RR 06 (1)	H B32N2	RF11=02		1			CABLE	234
RR 06 (1)	H B11L2	RF11=06=1		2				234
RR 06 (1)	H B15M1	RF11=18=1		1			TERM HERE?	234
RR 06 (1)	H C15T2	RF11=20=1		1		25=0/8		234
RR 07 (0)	H B15K2	RF11=18=1		1			1-PIN RUN	235
RR 07 (1)	H B11P1	RF11=06=1		1			TERM HERE?	236
RR 07 (1)	H C15P2	RF11=20=1		2				236
RR 07 (1)	H B15J2	RF11=18=1		1			CABLE	236
RR 07 (1)	H B32M2	RF11=02		1		24=3/8		236
RR 08 (0)	H B14F1	RF11=18=2		1			1-PIN RUN	237
RR 08 (1)	H B32L2	RF11=02		2			CABLE	238
RR 08 (1)	H B12A1	RF11=06=2		1				238
RR 08 (1)	H B14E1	RF11=18=2		1			TERM HERE?	238
RR 08 (1)	H C15P1	RF11=20=2		1		26=0/8		238

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

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

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 31 RUN NUMBER
RUS A06	L A06R2	1-01 *	RF11=08			2				TERM HERE?	275
RUS A06	L B08U1	1-02 *	RF11=07			1					275
RUS A06	L B02L2	1-03 *	C RF11=01			2				CABLE	275
RUS A06	L B01L2	1-04 *	C RF11=01			1			16=6/8	CABLE	275
RUS A07	L A06P2	1-01 *	RF11=08			2				TERM HERE?	276
RUS A07	L B08P2	1-02 *	RF11=07			1					276
RUS A07	L B02L1	1-03 *	C RF11=01			2				CABLE	276
RUS A07	L B01L1	1-04 *	C RF11=01			1			16=6/8	CABLE	276
RUS A08	L B01M2	1-01 *	C RF11=01			2				CABLE	277
RUS A08	L B02M2	1-02 *	C RF11=01			1				CABLE	277
RUS A08	L B06K1	1-03 *	RF11=08			2				TERM HERE?	277
RUS A08	L B08N2	1-04 *	RF11=07			1			13=2/8	TERM HERE?	277
RUS A09	L B01M1	1-01 *	C RF11=01			2				CABLE	278
RUS A09	L B02M1	1-02 *	C RF11=01			1				CABLE	278
RUS A09	L B06E1	1-03 *	RF11=08			2				TERM HERE?	278
RUS A09	L B08R1	1-04 *	RF11=07			1			13=7/8	TERM HERE?	278
RUS A10	L B01N2	1-01 *	C RF11=01			2				CABLE	279
RUS A10	L B02N2	1-02 *	C RF11=01			1				CABLE	279
RUS A10	L B08P1	1-03 *	RF11=08			2				TERM HERE?	279
RUS A10	L B06D1	1-04 *	RF11=07			1			13=5/8	TERM HERE?	279
RUS A11	L B01N1	1-01 *	C RF11=01			2				CABLE	280
RUS A11	L B02N1	1-02 *	C RF11=01			1				CABLE	280
RUS A11	L B06B1	1-03 *	RF11=08			2				TERM HERE?	280
RUS A11	L B08L1	1-04 *	RF11=07			1			14=1/8	TERM HERE?	280
RUS A12	L B01P2	1-01 *	C RF11=01			2				CABLE	281
RUS A12	L B02P2	1-02 *	C RF11=01			1				CABLE	281
RUS A12	L B06P1	1-03 *	RF11=08			2				TERM HERE?	281
RUS A12	L B08C1	1-04 *	RF11=07			1			12=7/8	TERM HERE?	281
RUS A13	L B01P1	1-01 *	C RF11=01			2				CABLE	282
RUS A13	L B02P1	1-02 *	C RF11=01			1				CABLE	282
RUS A13	L B06L1	1-03 *	RF11=08			2				TERM HERE?	282
RUS A13	L B08K2	1-04 *	RF11=07			1			13=2/8	TERM HERE?	282

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 32 RUN NUMBER
RUS A14	L B01R2	1-01 *	C RF11=01			2				CABLE	283
RUS A14	L B02R2	1-02 *	C RF11=01			1				CABLE	283
RUS A14	L B06K2	1-03 *	RF11=08			2				TERM HERE?	283
RUS A14	L B08K1	1-04 *	RF11=07			1			12=6/8	TERM HERE?	283
RUS A15	L B01R1	1-01 *	C RF11=01			2				CABLE	284
RUS A15	L B02R1	1-02 *	C RF11=01			1				CABLE	284
RUS A15	L B06J2	1-03 *	RF11=08			2				TERM HERE?	284
RUS A15	L B08D2	1-04 *	RF11=07			1			14=0/8	TERM HERE?	284
RUS A16	L A08T2	1-01 *	RF11=05			2				TERM HERE?	285
RUS A16	L B08E2	1-02 *	RF11=07			1					285
RUS A16	L B02S2	1-03 *	C RF11=01			2				CABLE	285
RUS A16	L B01S2	1-04 *	C RF11=01			1			15=2/8	CABLE	285
RUS A17	L A08F2	1-01 *	RF11=05			2				TERM HERE?	286
RUS A17	L B08D1	1-02 *	RF11=07			1					286
RUS A17	L B02S1	1-03 *	C RF11=01			2				CABLE	286
RUS A17	L B01S1	1-04 *	C RF11=01			1			16=6/8	CABLE	286
RUS AC LG	L B01F1	1-01 *	RF11=01			1					287
RUS AC LG	L B02F1	1-02 *	RF11=01			1			3=4/8		287
RUS BBSY	L A01P2	1-01 *	C RF11=01			2				CABLE	288
RUS BBSY	L A02P2	1-02 *	C RF11=01			1				CABLE	288
RUS BBSY	L A07D1	1-03 *	RF11=04			2				TERM HERE?	288
RUS PG4 IN	H B01E2	1-01 *	C RF11=01			1			10=0/8		288
RUS PG4 IN	H B04S2	1-02 *	RF11=01			1				CABLE	289
RUS PG4 IN	H B02E2	1-01 *	RF11=1			1			5=0/8	TERM HERE?	289
RUS PG4 IN	H B04T2	1-02 *	C RF11=1			1				TERM HERE?	289
RUS RG4 GUT	H B01B1	1-01 *	C RF11=01			1			4=6/8	TERM HERE?	290
RUS RG4 GUT	H B04P2	1-02 *	RF11=01			1				CABLE	290
RUS RG5 IN	H B01B1	1-01 *	C RF11=01			1			5=1/8	TERM HERE?	291
RUS RG5 IN	H B04P2	1-02 *	RF11=01			1				TERM HERE?	291

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 37 RUN NUMBER
BUS PB	L A01N2		1-01 *	C	RF111501		1			CABLE	327
BUS PB	L A02N2		1-02 *	C	RF111501				3-4/8	CABLE	327
BUS SACK	L A01R2		1-01 *	C	RF111501		2				328
BUS SACK	L A02R2		1-02 *	C	RF111501		1			CABLE	328
BUS SACK	L A07T2		1-03 *	C	RF111504				9-2/8	TERM HERE?	328
BUS SSSN	L A07C1		1-01 *	C	RF111504		1				329
BUS SSSN	L A08N2		1-02 *	C	RF111505		2			TERM HERE?	329
BUS SSSN	L B05K2		1-03 *	C	RF111505		1				329
BUS SSSN	L B02U1		1-04 *	C	RF111501		2			CABLE	329
BUS SSSN	L B01U1		1-05 *	C	RF111501				20-3/8	CABLE	329
C09C1	C09C1		1-01 *	C	RF111521		1				330
C09C1	C09D1		1-02 *	C	RF111521		2				330
C09C1	C09E1		1-03 *	C	RF111521				4-6/8		330
C09F1	C07H1		1-01 *	C	RF111521		2				331
C09F1	C07B1		1-02 *	C	RF111521		1				331
C09F1	C07D2		1-03 *	C	RF111521		2				331
C09F1	C09F1		1-04 *	C	RF111521				10-4/8		331
C09F2	C07A1		1-01 *	C	RF111521		1				332
C09F2	C09F2		1-02 *	C	RF111521				5-0/8		332
C09K1	C07K2		1-01 *	C	RF111521		1				333
C09K1	C09K1		1-02 *	C	RF111521				3-6/8		333
C09S2	C09S2		1-01 *	C	RF111521		1				334
C09S2	C09T2		1-02 *	C	RF111521		2				334
C09S2	C09U2		1-03 *	C	RF111521				4-6/8		334
C09V2	C08L1		1-01 *	C	RF111521		1				335
C09V2	C08R1		1-02 *	C	RF111521		2				335
C09V2	C09V2		1-03 *	C	RF111521				7-3/8		335

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 38 RUN NUMBER
C10E2	C10D2		1-01 *	C	RF111511		1				336
C10E2	C10E2		1-02 *	C	RF111511				2-3/8		336
C10R2	C10R2		1-01 *	C	RF111511		1				337
C10R2	C10V2		1-02 *	C	RF111511				3-4/8		337
C11T2	C11T2		1-01 *	C	RF111511		1				338
C11T2	C13R2		1-02 *	C	RF111511				4-2/8		338
C13C1	B19D1		1-01 *	C	RF111513=2		1				339
C13C1	B19E1		1-02 *	C	RF111513=2		2				339
C13C1	C13C1		1-03 *	C	RF111513=2				10-0/8		339
C13F1	C13F1		1-01 *	C	RF111519		1				340
C13F1	D15E2		1-02 *	C	RF111519				6-6/8		340
C13F2	C13F2		1-01 *	C	RF111519		1				341
C13F2	D22D2		1-02 *	C	RF111519				10-0/8		341
C13K1	C13K1		1-01 *	C	RF111519		1				342
C13K1	D15N2		1-02 *	C	RF111519				7-4/8		342
C13K2	C13K2		1-01 *	C	RF111519		1				343
C13K2	D14C1		1-02 *	C	RF111519				5-2/8		343
C13N1	C13N1		1-01 *	C	RF111519		1				344
C13N1	D19P1		1-02 *	C	RF111519				7-1/8		344
C13N2	C13N2		1-01 *	C	RF111519		1				345
C13N2	D19R1		1-02 *	C	RF111519				7-1/8		345
C14C1	C14C1		1-01 *	C	RF111520=1		1				346
C14C1	C22D1		1-02 *	C	RF111520=1				7-2/8		346

RF11.8 RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 39 RUN NUMBER
C14F1	1-01 *		RF11=20=1		1				347
C14F1	1-02 *		RF11=20=1						347
C14F1	1						7-2/8		347
C14F2	1-01 *		RF11=20=1		1				348
C14F2	1-02 *		RF11=20=1						348
C14F2	1						7-0/8		348
C14K1	1-01 *		RF11=20=1		1				349
C14K1	1-02 *		RF11=20=1						349
C14K1	1						7-6/8		349
C14K2	1-01 *		RF11=20=1		1				350
C14K2	1-02 *		RF11=20=1						350
C14K2	1						7-4/8		350
C14N1	1-01 *		RF11=20=1		1				351
C14N1	1-02 *		RF11=20=1						351
C14N1	1						7-6/8		351
C14N2	1-01 *		RF11=11		1				352
C14N2	1-02 *		RF11=11						352
C14N2	1						2-6/8		352
C14U2	1-01 *		RF11=10		1				353
C14U2	1-02 *		RF11=10						353
C14U2	1						6-0/8		353
C14V2	1-01 *		RF11=10		2				354
C14V2	1-02 *		RF11=10		1				354
C14V2	1-03 *		RF11=10						354
C14V2	1						9-2/8		354
C15C1	1-01 *		RF11=20=2		1				355
C15C1	1-02 *		RF11=20=2						355
C15C1	1						7-4/8		355
C15F1	1-01 *		RF11=20=2		1				356
C15F1	1-02 *		RF11=20=2						356
C15F1	1						6-4/8		356
C15F2	1-01 *		RF11=20=2		1				357
C15F2	1-02 *		RF11=20=2						357
C15F2	1						6-2/8		357

RF11.8 RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 40 RUN NUMBER
C15K1	1-01 *		RF11=20=2		1				358
C15K1	1-02 *		RF11=20=2						358
C15K1	1						5-4/8		358
C15K2	1-01 *		RF11=20=2		1				359
C15K2	1-02 *		RF11=20=2						359
C15K2	1						6-0/8		359
C15N1	1-01 *		RF11=20=2		1				360
C15N1	1-02 *		RF11=20=2						360
C15N1	1						7-0/8		360
C15N2	1-01 *		RF11=20=2		1				361
C15N2	1-02 *		RF11=20=2						361
C15N2	1						6-6/8		361
C15S1	1-01 *		RF11=20=2		1				362
C15S1	1-02 *		RF11=20=2						362
C15S1	1						6-6/8		362
C15S2	1-01 *		RF11=20=1		1				363
C15S2	1-02 *		RF11=20=1						363
C15S2	1						6-0/8		363
C15V2	1-01 *		RF11=20=1		1				364
C15V2	1-02 *		RF11=20=1						364
C15V2	1						6-0/8		364
C16E1	1-01 *		RF11=11		1				365
C16E1	1-02 *		RF11=11						365
C16E1	1						7-3/8		365
C16J2	1-01 *		RF11=16=1		1				366
C16J2	1-02 *		RF11=16=1						366
C16J2	1						5-6/8		366
C16L1	1-01 *		RF11=16=1		1				367
C16L1	1-02 *		RF11=16=1						367
C16L1	1						5-6/8		367
C16P2	1-01 *		RF11=16=1		1				368
C16P2	1-02 *		RF11=16=1						368
C16P2	1						5-4/8		368
C16S1	1-01 *		RF11=16=1		1				369
C16S1	1-02 *		RF11=16=1						369
C16S1	1						6-2/8		369

RF11.B 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 *		RF11	16				1				370
C16V2		1-02 *		RF11	16				1				370
C16V2		1									4-0/8		370
C17E1		1-01 *		RF11	16				1				371
C17E1		1-02 *		RF11	16				1				371
C17E1		1									7-2/8		371
C17J2		1-01 *		RF11	16				1				372
C17J2		1-02 *		RF11	16				1				372
C17J2		1									6-6/8		372
C17L1		1-01 *		RF11	16				1				373
C17L1		1-02 *		RF11	16				1				373
C17L1		1									5-6/8		373
C17P2		1-01 *		RF11	16				1				374
C17P2		1-02 *		RF11	16				1				374
C17P2		1									5-4/8		374
C17S1		1-01 *		RF11	16				1				375
C17S1		1-02 *		RF11	16				1				375
C17S1		1									5-4/8		375
C17V2		1-01 *		RF11	16				1				376
C17V2		1-02 *		RF11	16				1				376
C17V2		1									5-2/8		376
C24C1		1-01 *		RF11	15				1				377
C24C1		1-02 *		RF11	15				2				377
C24C1		1-03 *		RF11	15				2				377
C24C1		1-04 *		RF11	15				2				377
C24C1		1-05 *		RF11	15				1				377
C24C1		1-06 *		RF11	15				1				377
C24C1		1									21-1/8		377
CHT	H	D17T2		RF11	19				1				378
CHT	H	D21H1		RF11	20				1				378
CHT		1									5-3/8		378

RF11.B 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		RF11	20				2				379
CHT	L	D17S2		RF11	19				1				379
CHT	L	D16V2		RF11	19				2				379
CHT	L	D15R1		RF11	19				2				379
CHT	L	D15M2		RF11	19				2				379
CHT	L	D15J1		RF11	19				2				379
CHT	L	D14K2		RF11	19				2				379
CHT	L	D14A1		RF11	19				2				379
CHT		1									26-3/8		379
CLEAR	H	A06D1		RF11	09				1				380
CLEAR	H	B07J1		RF11	03				2				380
CLEAR	H	C09D2		RF11	21				1				380
CLEAR	H	C09E2		RF11	21				1				380
CLEAR	H	C09H1		RF11	21				1				380
CLEAR	H	C09J1		RF11	21				1				380
CLEAR	H	D12B1		RF11	11				1				380
CLEAR	H	D21M1		RF11	11				2				380
CLEAR	H	B24H2		RF11	13				2				380
CLEAR	H	B24D1		RF11	12				2				380
CLEAR	H	B25C1		RF11	12				2				380
CLEAR		1									51-0/8		380
CLEAR	L	B24E1		RF11	12				2				381
CLEAR	L	B28P1		RF11	12				2				381
CLEAR	L	A27L1		RF11	13				2				381
CLEAR	L	A20D2		RF11	12				2				381
CLEAR	L	A20A1		RF11	12				2				381
CLEAR	L	A16E1		RF11	14				2				381
CLEAR	L	A16J1		RF11	14				2				381
CLEAR	L	A10K2		RF11	03				2				381
CLEAR	L	A10L1		RF11	18				2				381
CLEAR	L	A10R1		RF11	18				2				381
CLEAR	L	B09L2		RF11	03				2				381
CLEAR	L	C12D1		RF11	12				2				381
CLEAR	L	D15A1		RF11	10				2				381
CLEAR	L	D15D2		RF11	10				2				381
CLEAR	L	C18R1		RF11	11				2				381
CLEAR	L	C19K1		RF11	10				2				381
CLEAR	L	C19F2		RF11	10				2				381
CLEAR		1									74-7/8		381

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 45 RUN NUMBER
CTF (1)	H A21M1	1-01 *	RF1113=2		1				400
CTF (1)	H B19J2	1-02 *	RF1113=2				6-0/8		400
CTF (1)		1							400
CTL (0)	H C24V1	1-01 *	RF1115=1		1				401
CTL (0)	H D22D1	1-02 *	RF1115=1				4-4/8		401
CTL (0)		1							401
CTL (1)	H B29T2	1-01 *	RF1115=24		1				402
CTL (1)	H C24V2	1-02 *	RF1115=1		2				402
CTL (1)	H D18H1	1-03 *	RF1115=1						402
CTL (1)		1					14-4/8		402
CTN	H D28F1		RF1115=22					1-PIN RUN	403
CTN	L B21L1	1-01 *	RF1113=2		1				404
CTN	L D28H1	1-02 *	RF1115=22						404
CTN		1					11-0/8		404
CTN (B)	H A21R1	1-01 *	RF1115=13=2		2				405
CTN (B)	H B19H2	1-02 *	RF1115=13=2		2				405
CTN (B)	H B19K2	1-03 *	RF1115=13=2		2				405
CTN (B)	H B21M1	1-04 *	RF1115=13=2		1				405
CTN (B)	H D21E1	1-05 *	RF1115=15=1		2				405
CTN (B)	H C12S1	1-06 *	RF1115=11				29-2/8		405
CTN (B)		1							405
CTNM	L B21M1	1-01 *	RF1115=13=2		1				406
CTNM	L C09N2	1-02 *	RF1115=21						406
CTNM		1					11-2/8		406
CTP	L B21H2	1-01 *	RF1115=13=2		1				407
CTP	L D28D1	1-02 *	RF1115=22						407
CTP		1					11-0/8		407
CTP (B)	H A21N1	1-01 *	RF1115=13=2		1				408
CTP (B)	H B21K2	1-02 *	RF1115=13=2		2				408
CTP (B)	H B19K1	1-03 *	RF1115=13=2						408
CTP (B)		1					9-6/8		408
CTP1 (0)	H C12V2		RF1115=11					1-PIN RUN	409
CTP1 (1)	H C12N2	1-01 *	RF1115=11		1				410
CTP1 (1)	H C12U2	1-02 *	RF1115=11						410
CTP1 (1)		1					3-6/8		410

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 46 RUN NUMBER
CTP2 (0)	H C12S2		RF1115=11					1-PIN RUN	411
CTP2 (1)	H C12R2	1-01 *	RF1115=11		2				412
CTP2 (1)	H C12K1	1-02 *	RF1115=11		1				412
CTP2 (1)	H C18H1	1-03 *	RF1115=11		2				412
CTP2 (1)	H D19B1	1-04 *	RF1115=19		1				412
CTP2 (1)	H D19L2	1-05 *	RF1115=11				20-0/8		412
CTP2 (1)		1							412
CTP3 (0)	H B28K1	1-01 *	RF1115=12=2		1				413
CTP3 (0)	H C12N1	1-02 *	RF1115=11				13-6/8		413
CTP3 (0)		1							413
CTP3 (1)	H B23B1	1-01 *	RF1115=13=1		2				414
CTP3 (1)	H B22B1	1-02 *	RF1115=13=2		1				414
CTP3 (1)	H C12F2	1-03 *	RF1115=11		2				414
CTP3 (1)	H C12M1	1-04 *	RF1115=11		1				414
CTP3 (1)	H D12L2	1-05 *	RF1115=11		2				414
CTP3 (1)	H D16A1	1-06 *	RF1115=19		1				414
CTP3 (1)	H D16B1	1-07 *	RF1115=19		1				414
CTP3 (1)		1					31-6/8		414
CTP4 (0)	H C12K2	1-01 *	RF1115=11		1				415
CTP4 (0)	H C13D2	1-02 *	RF1115=15=1				4-0/8		415
CTP4 (0)		1							415
CTP4 (1)	H C12J2	1-01 *	RF1115=11		1				416
CTP4 (1)	H C19B1	1-02 *	RF1115=11		2				416
CTP4 (1)	H D21A1	1-03 *	RF1115=15=1				13-4/8		416
CTP4 (1)		1							416
CTPM	L B21J2	1-01 *	RF1115=13=2		1				417
CTPM	L C09S1	1-02 *	RF1115=21				12-6/8		417
CTPM		1							417
000 IN	H A23P1	1-01 *	RF1115=13=1		2				418
000 IN	H A19P2	1-02 *	RF1115=12=1		1				418
000 IN	H A19L2	1-03 *	RF1115=12=1		2				418
000 IN	H A17D2	1-04 *	RF1115=14=1		1				418
000 IN	H A15D2	1-05 *	RF1115=14=1		2				418
000 IN	H A05B1	1-06 *	RF1115=15=1		1				418
000 IN	H A06N1	1-07 *	RF1115=05		1				418
000 IN	H C08P1	1-08 *	RF1115=08		1				418
000 IN		1					38-3/8		418

REF11.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 49 RUN NUMBER
D05 OUT	A06R1		1-01 *	RF11508		1				429
D05 OUT	A07F1		1-02 *	RF11504		2				429
D05 OUT	A09M1		1-03 *	RF11506=1		1				429
D05 OUT	A11N1		1-04 *	RF11506=1		2				429
D05 OUT	B11S1		1-05 *	RF11506=1		1				429
D05 OUT	A29S1		1-06 *	RF11524		1		32=7/8		429
D06 IN	A19H1		1-01 *	RF11512=1		1				430
D06 IN	A17P2		1-02 *	RF11514=1		2				430
D06 IN	A13P2		1-03 *	RF11518=1		1				430
D06 IN	A05S1		1-04 *	RF11505		2				430
D06 IN	A06U1		1-05 *	RF11508		1				430
D06 IN	C09L1		1-06 *	RF11521		1		29=1/8		430
D06 OUT	A29H2		1-01 *	RF11524		1				431
D06 OUT	A07F2		1-02 *	RF11504		2				431
D06 OUT	A06S2		1-03 *	RF11508		1				431
D06 OUT	A09R2		1-04 *	RF11506=1		2				431
D06 OUT	A11N2		1-05 *	RF11506=1		1				431
D06 OUT	B11N2		1-06 *	RF11506=1		1		33=3/8		431
D07 IN	A23E2		1-01 *	RF11513=1		1				432
D07 IN	A17T2		1-02 *	RF11514=1		2				432
D07 IN	A13T2		1-03 *	RF11518=1		1				432
D07 IN	A06M2		1-04 *	RF11508		2				432
D07 IN	A05U1		1-05 *	RF11505		1				432
D07 IN	C09H2		1-06 *	RF11521		1		32=7/8		432
D07 OUT	A29J2		1-01 *	RF11524		1				433
D07 OUT	A07H1		1-02 *	RF11504		2				433
D07 OUT	A06P1		1-03 *	RF11508		1				433
D07 OUT	A09T2		1-04 *	RF11506=1		2				433
D07 OUT	A11S1		1-05 *	RF11506=1		1				433
D07 OUT	B11S1		1-06 *	RF11506=1		1		33=1/8		433
D08 IN	B06F1		1-01 *	RF11508		2				434
D08 IN	A05D2		1-02 *	RF11505		1				434
D08 IN	A14D2		1-03 *	RF11518=2		2				434
D08 IN	A18D2		1-04 *	RF11514=2		1				434
D08 IN	A20S1		1-05 *	RF11513=2		2				434
D08 IN	B26E1		1-06 *	RF11512=2		1		31=2/8		434

REF11.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 50 RUN NUMBER
D08 OUT	A29N2		1-01 *	RF11524		1				435
D08 OUT	B12C1		1-02 *	RF11506=2		2				435
D08 OUT	A12C1		1-03 *	RF11506=2		1				435
D08 OUT	A09S1	A07K1	1-04 *	RF11506=2		2				435
D08 OUT	A07K1		1-05 *	RF11506=1		1				435
D08 OUT	B06N2		1-06 *	RF11508		1		35=0/8		435
D09 IN	A06V2		1-01 *	RF11508		2				436
D09 IN	A05F2		1-02 *	RF11505		1				436
D09 IN	A14H1		1-03 *	RF11518=2		2				436
D09 IN	A18H1		1-04 *	RF11514=2		1		17=2/8		436
D09 OUT	A29P2		1-01 *	RF11524		1				437
D09 OUT	A09D2		1-02 *	RF11506=2		2				437
D09 OUT	A12F1		1-03 *	RF11506=2		1				437
D09 OUT	B12F1		1-04 *	RF11506=2		2				437
D09 OUT	B06C1		1-05 *	RF11508		1		30=6/8		437
D10 IN	A18H2		1-01 *	RF11514=2		1				438
D10 IN	A14H2		1-02 *	RF11518=2		2				438
D10 IN	A05J2		1-03 *	RF11505		1				438
D10 IN	B06E2		1-04 *	RF11508		2				438
D10 IN	C07K1		1-05 *	RF11521		1				438
D10 IN	C07J1		1-06 *	RF11521		1		26=7/8		438
D10 OUT	A29U2		1-01 *	RF11524		1				439
D10 OUT	B12F2		1-02 *	RF11506=2		2				439
D10 OUT	A12F2		1-03 *	RF11506=2		1				439
D10 OUT	A09J2		1-04 *	RF11506=2		2				439
D10 OUT	B06D2		1-05 *	RF11508		1		29=6/8		439
D10E1	C14P2		1-01 *	RF11511		1				440
D10E1	D10E1		1-02 *	RF11511		1		6=2/8		440
D10J2	A10F2		1-01 *	RF11503=1		1				441
D10J2	D10J2		1-02 *	RF11503=1		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 B12S1	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	D1802	1-02 *	RF11=16=1						460
D17D2	D17D2	1-01 *	RF11=16=1		1		3=4/8		461
D17D2	D18F2	1-02 *	RF11=16=1						461
D17E1	D17E1	1-01 *	RF11=16=1		1		4=0/8		462
D17E1	D18H2	1-02 *	RF11=16=1						462
D17J1	D17J1	1-01 *	RF11=19		1		4=6/8		463
D17J1	D20U1	1-02 *	RF11=19						463
D17L1	D17L1	1-01 *	RF11=19		1		5=4/8		464
D17L1	D20U2	1-02 *	RF11=19						464
D17P1	D17P1	1-01 *	RF11=19		2				465
D17P1	D16U2	1-02 *	RF11=19		1				465
D17P1	D18U2	1-03 *					7=4/8		465
D18E1	D17A1	1-01 *	RF11=16=1		1		3=6/8		466
D18E1	D18E1	1-02 *	RF11=16=1						466
D18E1	D18E1	1							466
D18J2	D18J2	1-01 *	RF11=16=1		1		4=4/8		467
D18J2	D21H2	1-02 *	RF11=16=1						467
D18J2	D18J2	1							467
D18L1	D17D1	1-01 *	RF11=16=1		1		3=7/8		468
D18L1	D18L1	1-02 *	RF11=16=1						468
D18L1	D18L1	1							468
D18S1	D17C1	1-01 *	RF11=16=1		1		5=0/8		469
D18S1	D18S1	1-02 *	RF11=16=1						469
D18S1	D18S1	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				470
D19H2	D19S1	1-02 *	RF11=19				4=2/8		470
D19H2	D19H2	1							470
D19J1	D16P1	1-01 *	RF11=19		1				471
D19J1	D16K2	1-02 *	RF11=19		2				471
D19J1	D19J1	1-03 *	RF11=19				8=0/8		471
D19J1	D19J1	1							471
D19M2	C18E2	1-01 *	RF11=11		1		7=0/8		472
D19M2	D19M2	1-02 *	RF11=11						472
D19M2	D19M2	1							472
D19N1	D17N1	1-01 *	RF11=19		1		4=0/8		473
D19N1	D19N1	1-02 *	RF11=19						473
D19N1	D19N1	1							473
D19U1	D19U1	1-01 *	RF11=19		1				474
D19U1	D18T2	1-02 *	RF11=19		2				474
D19U1	D16T2	1-03 *	RF11=19				6=3/8		474
D19U1	D19U1	1							474
D19V1	C18M2	1-01 *	RF11=11		1		7=0/8		475
D19V1	D19V1	1-02 *	RF11=11						475
D19V1	D19V1	1							475
D21C1	B19F1	1-01 *	RF11=15=1		1		8=6/8		476
D21C1	D21C1	1-02 *	RF11=15=1						476
D21C1	D21C1	1							476
D21F1	B19N1	1-01 *	RF11=15=1		1		8=4/8		477
D21F1	D21F1	1-02 *	RF11=15=1						477
D21F1	D21F1	1							477
D21F2	C19S2	1-01 *	RF11=20=2		1		5=3/8		478
D21F2	D21F2	1-02 *	RF11=20=2						478
D21F2	D21F2	1							478
D21K1	C19U2	1-01 *	RF11=20=2		1		5=4/8		479
D21K1	D21K1	1-02 *	RF11=20=2						479
D21K1	D21K1	1							479
D21N2	C19D1	1-01 *	RF11=11		1		8=0/8		480
D21N2	D21N2	1-02 *	RF11=11						480
D21N2	D21N2	1							480

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				
DA 00 (1)		A31T1	C	RF11502		2			TERM HERE? CABLE	498
DA 00 (1)		B23P2		RF11513=1		1				498
DA 00 (1)		C25V1		RF11517				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				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				30=4/8	TERM HERE?	500
DA 01 (1)										500
DA 02 (0)		B23T2		RF11513=1		1				501
DA 02 (0)		B23V1		RF11513=1		2				501
DA 02 (0)		B23S2		RF11513=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				28=5/8	TERM HERE?	502
DA 02 (1)										502
DA 03 (0)		B22V2		RF11513=1		1				503
DA 03 (0)		C25T2		RF11517				6=4/8		503
DA 03 (0)										503
DA 03 (1)		A11L1		RF11506=1		2				504
DA 03 (1)		B22V1		RF11513=1		1			TERM HERE?	504
DA 03 (1)		A32A1	C	RF11502				22=1/8	CABLE	504
DA 03 (1)										504
DACK		A10H2				1				505
DACK		B07V2						8=4/8		505
DACK										505
DAE IN HI		A16P2		RF11513=2		1				506
DAE IN HI		B10U2		RF11507				7=3/8		506
DAE IN HI										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 LD		A27H1		RF11513=1		2				507
DAE IN LD		A23A1		RF11513=1		1				507
DAE IN LD		B10J1		RF11507				18=6/8		507
DAE IN LD										507
DAE OUT		A12U2		RF11506=2		2				508
DAE OUT		A11U2		RF11506=1		1				508
DAE OUT		B10E1		RF11507				8=3/8		508
DAE OUT										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				15=4/8		509
DAR CLR (00-07)										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				17=5/8		510
DAR CLR (00-07)										510
DAR CLR (08-15)		B27J1		RF11513=1		1				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=21				27=6/8		511
DAR CLR (08-15)										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 CLR (08-15)										512
DAR IN HI		A18A1		RF11514=2		2				513
DAR IN HI		A16A1		RF11514=2		1				513
DAR IN HI		B10P1		96+				13=7/8		513
DAR IN HI										513
DAR IN LD		A17A1		RF11514=1		2				514
DAR IN LD		A16H2		RF11514=1		1				514
DAR IN LD		B10L1		RF11507				11=4/8		514

RF11-B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER PIN	0	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 59 RUN NUMBER
DAR OUT	L B12V2		RF11=06=2		2				515
DAR OUT	L B11V2		RF11=06=1		1				515
DAR OUT	L B10F1		RF11=07				8-6/8		515
DASV (0)	H A21K1		RF11=12=2		1				516
DASV (0)	H C19V2		RF11=20=2				10-0/8		516
DASV (1)	H A21H1		RF11=12=2		1				517
DASV (1)	H C20T2		RF11=20=2		2				517
DASV (1)	H C19V1		RF11=20=2		1				517
DASV (1)	H C19N1		RF11=20=2				17-2/8		517
DATA ERR	H A12J2		RF11=06=2		1				518
DATA ERR	H A23S2		RF11=12=2				9-2/8		518
DATA RQ (0)	H A10E1		RF11=03=1		1				519
DATA RQ (0)	H A10F1		RF11=03=1		2				519
DATA RQ (0)	H B07U1		RF11=03=1		1				519
DATA RQ (0)	H B28R2		RF11=11				25-3/8		519
DATA RQ (1)	H A31C2	C	RF11=02		1				520
DATA RQ (1)	H B07V1						19-6/8	CABLE TERM HERE?	520
DATA TO BUS	H B07E2		RF11=03=2		1				521
DATA TO BUS	H C13E1						6-6/8		521
DATA TO BUS	L B07F2		RF11=03=2		1				522
DATA TO BUS	L B09U2		RF11=06=1				5-0/8		522
DAW ENA	H A22H1		RF11=13=2		2				523
DAW ENA	H B20H1		RF11=12=2		1				523
DAW ENA	H B20L2		RF11=12=2		2				523
DAW ENA	H B28L1		RF11=12=2				16-3/8		523
DBR IN HI	H A14A1		RF11=18=2		2				524
DBR IN HI	H A16P1		RF11=18=2		1				524
DBR IN HI	H B10S2		96+				12-3/8		524

RF11-B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER PIN	0	DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 60 RUN NUMBER
DBR IN LD	H A13A1		RF11=18=1		2				525
DBR IN LD	H A16T2		RF11=18=1		1				525
DBR IN LD	H B10K1		RF11=07				14-0/8		525
DBR OUT	L B09T2		RF11=06=1		1				526
DBR OUT	L B10F2		RF11=07				4-6/8		526
DC LD	H B05R2		RF11=05		1				527
DC LD	H B27D2		RF11=12=2				15-2/8		527
DCS IN HI	H B26F1		RF11=12=2		1				528
DCS IN HI	H B26H1		RF11=12=2		2				528
DCS IN HI	H B10R1		96+				14-1/8		528
DCS IN LD	H A27D2		RF11=12=1		2				529
DCS IN LD	H A19A1		RF11=12=1		1				529
DCS IN LD	H B10M1		96+				17-2/8		529
DCS OUT	L A12V2		RF11=06=2		2				530
DCS OUT	L A11V2		RF11=06=1		1				530
DCS OUT	L B10H2		RF11=07				8-4/8		530
DCT (0)	H A21J1		RF11=12=2		1				531
DCT (0)	H C21P2		RF11=20=1		2				531
DCT (0)	H C19M2		RF11=20=1				13-2/8		531
DCT (1)	H A21F1		RF11=12=2		1				532
DCT (1)	H C21R2		RF11=20=1				9-4/8		532
DEV SELD	L D12P1		RF11=07		1				533
DEV SELD	L B08L2		RF11=07		2				533
DEV SELD	L B10V1		RF11=07				14-4/8		533
DEV SELD*STRT XTIM	H D12S1				2				534
DEV SELD*STRT XTIM	H A23T2				1				534
DEV SELD*STRT XTIM	H A23U2						18-1/8		534

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 Ssyn (0)	H B20E1		RF11E11			1-PIN RUN	22-2/8		536
DEV Ssyn (1)	H A08L2		RF11E05		1				537
DEV Ssyn (1)	H B20F1		RF11E11		1		11-0/8		537
DISK CLEAR	L B25A1		RF11E12E2		2				538
DISK CLEAR	L B26A1		RF11E12E2		1				538
DISK CLEAR	L B26J1		RF11E12E2		2				538
DISK CLEAR	L B26K2		RF11E12E1		1		9-7/8		538
DISK FLAG	H A31A2		RF11E02		1	CABLE			539
DISK FLAG	H A07K2		RF11E04		2				539
DISK FLAG	H B09K2		RF11E11		1	TERM HERE?	22-6/8		539
DISK FLAG	H B27J2		RF11E13E2		1				539
DISK RUN (0)	H C19E1		RF11E11		2				540
DISK RUN (0)	H C13B1		RF11E13E2		1				540
DISK RUN (0)	H C13A1		RF11E13E2		2				540
DISK RUN (0)	H C14T2		RF11E10		1				540
DISK RUN (0)	H D21B1		RF11E15E1		2				540
DISK RUN (0)	H D21J2		RF11E16E1		1		35-1/8		540
DISK RUN (1)	H A32M1		RF11E02		2	CABLE			541
DISK RUN (1)	H B27L1		RF11E13E1		1				541
DISK RUN (1)	H C19F1		RF11E11		2				541
DISK RUN (1)	H D13J2		RF11E10		1				541
DISK RUN (1)	H D13H2		RF11E10		1	TERM HERE?			541
DISK RUN (1)	H C19S1		RF11E20E2		1		25-0/8		541
DPAR (0)	H A32T1		RF11E02		1	1-PIN RUN			542
DPAR (1)	H B26D2		RF11E12E2		2	CABLE			543
DPAR (1)	H C19P1		RF11E20E2		1				543
DPAR (1)	H C19U1		RF11E20E2		1	TERM HERE?			543
DPAR (1)	H C19U1		RF11E20E2		1	TERM HERE?	18-7/8		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		RF11E12E2		2				544
DPE (0)	H A23P2		RF11E12E2		1				544
DPE (0)	H B20L1		RF11E12E2		2				544
DPE (0)	H B28H1		RF11E12E2		1		17-6/8		544
DPE (1)	H A31D1		RF11E02		1	CABLE			545
DPE (1)	H B20M1		RF11E12E2		1	TERM HERE?	12-2/8		545
DR DLY	H B27H1		RF11E13E1		1				546
DR DLY	H C13T2		RF11E10		2				546
DR DLY	H D13T2		RF11E10		1		19-0/8		546
DR DLY	L D12D1		RF11E14E21		1				547
DR DLY	L D13S2		RF11E10E11		1		5-0/8		547
DRL (0)	H B23F1		RF11E13E1			1-PIN RUN			548
DRL (1)	H A32U2		RF11E13E1		2				549
DRL (1)	H B23E1		RF11E06E1		1				549
DRL (1)	H A11P1		RF11E06E1		1		19-6/8		549
DS 00 (0)	H C17P1		RF11E16E1		1				550
DS 00 (0)	H C23F1		RF11E15E1		1		7-0/8		550
DS 00 (1)	H B30C1		RF11E24		2	TERM HERE?			551
DS 00 (1)	H B31V2		RF11E02		1	CABLE			551
DS 00 (1)	H C24T2		RF11E15E1		2				551
DS 00 (1)	H C23E1		RF11E15E1		1				551
DS 00 (1)	H C17M1		RF11E16E1		1	TERM HERE?			551
DS 00 (1)	H C17M1		RF11E16E1		1	TERM HERE?	26-2/8		551
DS 01 (0)	H C17M2		RF11E16E1		1				552
DS 01 (0)	H C23J2		RF11E15E1		1		6-4/8		552
DS 01 (1)	H B30E2		RF11E24		1	TERM HERE?			553
DS 01 (1)	H B31U2		RF11E02		2	CABLE			553
DS 01 (1)	H C23C1		RF11E15E1		1				553
DS 01 (1)	H C23H2		RF11E15E1		1				553
DS 01 (1)	H C17K2		RF11E16E1		2	TERM HERE?	22-6/8		553
DS 01 (1)	H C17K2		RF11E16E1		1	TERM HERE?			553

RF11.B 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 65 RUN NUMBER
DS 10 (1)	H	B31J2	C	RF11=02				1				571
DS 10 (1)	H	B29P1		RF11=24				2			CABLE	571
DS 10 (1)	H	C24E2		RF11=15=1				1				571
DS 10 (1)	H	C24E1		RF11=15=1				2			TERM HERE?	571
DS 10 (1)	H	C16R2		RF11=16=1				1		22=0/8		571
DS CLR	L	C23A1		RF11=15=1				2				572
DS CLR	L	C24A1		RF11=15=1				1				572
DS CLR	L	C24K2		RF11=15=1				2				572
DS CLR	L	C23K2		RF11=15=1				1				572
DS CLR	L	D22J2		RF11=15=1				1		17=2/8		572
DTE (0)	H	B21E2		RF11=13=2				1				573
DTE (0)	H	B22C1		RF11=13=2				2				573
DTE (0)	H	B22H2		RF11=13=2				1		6=2/8		573
DTE ENA (0)	H	A21D1		RF11=13=2				1				574
DTE ENA (0)	H	A22V2		RF11=13=2				1		5=4/8		574
DTE ENA (1)	H	A21B1		RF11=13=2				1				575
DTE ENA (1)	H	A22V1		RF11=13=2				1		5=4/8		575
DTER (0)	H	A24M2		RF11=12=2				1				576
DTER (0)	H	A23R2		RF11=12=2				2				576
DTER (0)	H	B22E1		RF11=13=2				1		8=3/8		576
DTER (1)	H	A32M2		RF11=02				1				577
DTER (1)	H	B22F1		RF11=13=2				1		10=2/8	CABLE TERM HERE?	577
DTN	L	B25P1		RF11=13=2				1				578
DTN	L	C27L1		RF11=22				1		6=2/8		578
DTN (B)	H	A22N1		RF11=13=2				1				579
DTN (B)	H	B25S1		RF11=13=2				1		7=4/8		579
DTNM	L	B25R1		RF11=13=2				1				580
DTNM	L	C09K2		RF11=21				1		12=6/8		580

RF11.B 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 66 RUN NUMBER
DTP	L	B25L2		RF11=13=2				1				581
DTP	L	C27J1		RF11=22				1		6=0/8		581
DTP (B)	H	A22L2		RF11=13=2				1				582
DTP (B)	H	B25N2		RF11=13=2				1		7=4/8		582
DTPM	L	B25M2		RF11=13=2				1				583
DTPM	L	C09N1		RF11=21				1		13=6/8		583
ERR	H	A31A1		RF11=01				1				584
ERR	H	A25K2		RF11=12=2				2			CABLE	584
ERR	H	A24P2		RF11=12=2				1				584
ERR	H	A12R1		RF11=12=2				1			TERM HERE?	584
ERR	L	A25L2		RF11=06=2				1		19=6/8		584
ERR	L	B28R1		RF11=12=2				2				585
ERR	L	D18N2		RF11=12=1				1				585
ERR	L	809J2		RF11=10				2				585
ERR	L	809J2		RF11=11				1		29=3/8		585
FX0 (0)	H	C06E2		RF11=12=1				2				586
FX0 (0)	H	C06C1		RF11=12=1				1				586
FX0 (0)	H	C06F1		RF11=12=1				1		5=5/8		586
FX0 (1)	H	A31M1		RF11=02				1				587
FX0 (1)	H	A11J2		RF11=06=1				2				587
FX0 (1)	H	A08S1		RF11=05				1				587
FX0 (1)	H	C06E1		RF11=12=1				1		26=6/8		587
FX1 (0)	H	C06F2		RF11=12=1				1				588
FX1 (0)	H	C06K2		RF11=12=1				1		2=7/8		588
FX1 (1)	H	A31L1		RF11=02				1				589
FX1 (1)	H	A11M1		RF11=06=1				2				589
FX1 (1)	H	A08V2		RF11=05				1				589
FX1 (1)	H	C06J2		RF11=12=1				1		25=5/8		589

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 67 RUN NUMBER
FO (0)	H	B28M2	1-01 *	RF11=11		1				590
FO (0)	H	B28T2	1-02 *	RF11=12=1		2				590
FO (0)	H	B20V2	1-03 *	RF11=12=1				11-0/8		590
FO (0)			1							
FO (1)	H	B20V1	1-01 *	RF11=12=1		2				591
FO (1)	H	D10B1	1-02 *	RF11=11		1				591
FO (1)	H	D10K1	1-03 *	RF11=11				15=2/8		591
FO (1)			1							
FO SV (0)	H	A20K2	1-01 *	RF11=12=1		2				592
FO SV (0)	H	B20T2	1-02 *	RF11=12=1		1				592
FO SV (0)	H	B07J2	1-03 *	RF11=03=2				17=2/8		592
FO SV (0)			1							
FO SV (1)	H	A10B1	1-01 *	RF11=03=1		1				593
FO SV (1)	H	A11E1	1-02 *	RF11=06=1		2			TERM HERE?	593
FO SV (1)	H	A20J2	1-03 *	RF11=12=1		1				593
FO SV (1)	H	A31T2	1-04 *	RF11=02				20=5/8	CABLE	593
FO SV (1)			1							593
F1 (0)	H	B20S1	1-01 *	RF11=12=1		1				594
F1 (0)	H	B28S2	1-02 *	RF11=12=1				7=2/8		594
F1 (0)			1							594
F1 (1)	H	B20U1	1-01 *	RF11=12=1		1				595
F1 (1)	H	B28N2	1-02 *	RF11=11				8=0/8		595
F1 (1)			1							595
F1 SV (0)	H	A20F1	1-01 *	RF11=12=1		1				596
F1 SV (0)	H	B20P1	1-02 *	RF11=12=1		2				596
F1 SV (0)	H	C19N2	1-03 *	RF11=12=1		1				596
F1 SV (0)	H	C19T2	1-04 *	RF11=20=2		2				596
F1 SV (0)	H	D19E1	1-05 *	RF11=19		1				596
F1 SV (0)	H	D23U2	1-06 *	RF11=11		2				596
F1 SV (0)	H	D10J1	1-07 *	RF11=11		1				596
F1 SV (0)			1					37=6/8		596
F1 SV (1)	H	A31S2	1-01 *	RF11=02		2			CABLE	597
F1 SV (1)	H	B26E2	1-02 *	RF11=12=2		1				597
F1 SV (1)	H	A20E1	1-03 *	RF11=12=1		2				597
F1 SV (1)	H	A11E2	1-04 *	RF11=06=1		1				597
F1 SV (1)	H	D11E2	1-05 *	RF11=19		2				597
F1 SV (1)	H	D10C1	1-06 *	RF11=11		1				597
F1 SV (1)	H	D14U2	1-07 *	RF11=19		1			TERM HERE?	597
F1 SV (1)			1					43=1/8		597

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 68 RUN NUMBER
FOUND (0)	H	A22P1	1-01 *	RF11=13=2		1				598
FOUND (0)	H	D16R2	1-02 *	RF11=19		2				598
FOUND (0)	H	D15U2	1-03 *	RF11=19				17=4/8		598
FOUND (0)			1							
FOUND (1)	H	D15V2	1-01 *	RF11=19		1				599
FOUND (1)	H	D16R2	1-02 *	RF11=19				5=0/8		599
FOUND (1)			1							599
FRZ	H	A31B1	1-01 *	RF11=02		2			CABLE	600
FRZ	H	A25S2	1-02 *	RF11=12=2		1				600
FRZ	H	A24V2	1-03 *	RF11=12=2		2				600
FRZ	H	A12M2	1-04 *	RF11=06=2		1				600
FRZ	H	D12J2	1-05 *	RF11=11				31=1/8		600
FRZ			1						TERM HERE?	600
FRZ	L	A24L2	1-01 *	RF11=12=2		2				601
FRZ	L	A25T2	1-02 *	RF11=12=2		1				601
FRZ	L	B28C1	1-03 *	RF11=12=2		2				601
FRZ	L	D23R1	1-04 *	RF11=10		1				601
FRZ	L	D23M1	1-05 *	RF11=10		2				601
FRZ	L	C08S1	1-06 *	RF11=21		1				601
FRZ	L	C08M1	1-07 *	RF11=21				39=5/8		601
FRZ			1							601
GND 01	L	A01B2	1-01 *	RF11=01		1				602
GND 01	L	A01C2	1-02 *	RF11=01		2				602
GND 01	L	A01N1	1-03 *	RF11=01		1				602
GND 01	L	A01R1	1-04 *	RF11=01		2				602
GND 01	L	A01P1	1-05 *	RF11=01		1				602
GND 01	L	A01S1	1-06 *	RF11=01		2				602
GND 01	L	A01T1	1-07 *	RF11=01		1				602
GND 01	L	A01V2	1-08 *	RF11=01		2				602
GND 01	L	B01B2	1-09 *	RF11=01		1				602
GND 01	L	B01D1	1-10 *	RF11=01		2				602
GND 01	L	B01C2	1-11 *	RF11=01		1				602
GND 01	L	B01E1	1-12 *	RF11=01		2				602
GND 01	L	B01T1	1-13 *	RF11=01		1				602
GND 01	L	B01V2	1-14 *	RF11=01		2				602
GND 01	L	C01C2	1-15 *	RF11=01		1				602
GND 01	L	C01T1	1-16 *	RF11=01		2				602
GND 01	L	D01C2	1-17 *	RF11=01		1				602
GND 01	L	D01T1	1-18 *	RF11=01		2				602
GND 01			1					56=0/8		602

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 *							603
GND 02	A02N1	1-03 *	RF11=01		1				603
GND 02	A02R1	1-04 *							603
GND 02	A02P1	1-05 *	RF11=01		1				603
GND 02	A02S1	1-06 *							603
GND 02	A02T1	1-07 *							603
GND 02	A02V2	1-08 *							603
GND 02	B02B2	1-09 *	RF11=01		1				603
GND 02	B02D1	1-10 *	RF11=01		1				603
GND 02	B02C2	1-11 *							603
GND 02	B02E1	1-12 *	RF11=01		1				603
GND 02	B02T1	1-13 *							603
GND 02	B02V2	1-14 *							603
GND 02	C02C2	1-15 *	RF11=01		1				603
GND 02	C02T1	1-16 *							603
GND 02	D02C2	1-17 *							603
GND 02	D02T1	1-18 *							603
GND 02		1					56=0/8		603
GND 03	A03C2	1-01 *			2				604
GND 03	A03T1	1-02 *			1				604
GND 03	B03C2	1-03 *							604
GND 03	B03T1	1-04 *							604
GND 03	C03C2	1-05 *							604
GND 03	C03T1	1-06 *							604
GND 03	D03C2	1-07 *							604
GND 03	D03T1	1-08 *							604
GND 03		1					31=4/8		604
GND 04	A04C2	1-01 *			2				605
GND 04	A04T1	1-02 *			1				605
GND 04	B04C2	1-03 *							605
GND 04	B04T1	1-04 *							605
GND 04	C04C2	1-05 *							605
GND 04	C04T1	1-06 *							605
GND 04	D04C2	1-07 *							605
GND 04	D04T1	1-08 *							605
GND 04		1					31=4/8		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 *							606
GND 05	B05T1	1-04 *							606
GND 05	C05C2	1-05 *							606
GND 05	C05T1	1-06 *							606
GND 05	D05C2	1-07 *							606
GND 05	D05T1	1-08 *							606
GND 05		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 *							607
GND 06	B06C2	1-04 *							607
GND 06	B06T1	1-05 *							607
GND 06	C06C2	1-06 *							607
GND 06	C06K1	1-07 *	RF11=08		1				607
GND 06	C06T1	1-08 *							607
GND 06	D06C2	1-09 *							607
GND 06	D06T1	1-10 *							607
GND 06		1					37=1/8		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 *							608
GND 07	B07C2	1-05 *							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 *							608
GND 07	C07C2	1-11 *							608
GND 07	C07T1	1-12 *							608
GND 07	D07C2	1-13 *							608
GND 07	D07F2	1-14 *							608
GND 07	D07L2	1-15 *							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 *							608
GND 07	D07U2	1-20 *	RF11=23		1				608
GND 07		1					63=3/8		608

RF11.8 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 71 RUN NUMBER
GND 08	A08C2	1-01 *	1							609
GND 08	A08T1	1-02 *		RF11=07						609
GND 08	B08A1	1-03 *								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 *								609
GND 09	A09C2	1-01 *	1					36=4/8		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 *	1					31=4/8		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 *	1					34=0/8		612
GND 11	A11C2	1-02 *		RF11=06=1						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	Q DRAW RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 72 RUN NUMBER
GND 12	A12C2	1-01 *	1							613
GND 12	A12B1	1-02 *		RF11=06=2						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 *	1					39=0/8		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 *	1							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 *	1					31=4/8		616
GND 15	A15T1	1-02 *								616
GND 15	B15C2	1-03 *								616
GND 15	B15C1	1-04 *								616
GND 15	B15T1	1-05 *								616
GND 15	C15C2	1-06 *								616
GND 15	C15T1	1-07 *								616
GND 15	D15C2	1-08 *								616
GND 15	D15F2	1-09 *								616
GND 15	D15T1	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	A17C2		1-01 *									34=2/8		618
GND 17	A17T1		1-02 *							2				618
GND 17	B17C2		1-03 *							1				618
GND 17	B17T1		1-04 *							2				618
GND 17	C17C2		1-05 *							1				618
GND 17	C17T1		1-06 *							2				618
GND 17	D17C2		1-07 *							1				618
GND 17	D17T1		1-08 *							2				618
GND 17	D17T1		1-09 *							1				618
GND 18	A18C2		1-01 *											619
GND 18	A18T1		1-02 *							1				619
GND 18	B18C2		1-03 *							2				619
GND 18	B18T1		1-04 *							1				619
GND 18	C18C2		1-05 *							2				619
GND 18	C18C1		1-06 *							1				619
GND 18	C18T1		1-07 *							2				619
GND 18	D18C2		1-08 *							1				619
GND 18	D18T1		1-09 *							2				619
GND 18	D18T1		1-09 *							1				619
GND 19	A19C2		1-01 *											620
GND 19	A19T1		1-02 *							1				620
GND 19	B19A1		1-03 *							2				620
GND 19	B19C2		1-04 *							1				620
GND 19	B19P1		1-05 *							2				620
GND 19	B19R1		1-06 *							1				620
GND 19	B19T1		1-07 *							2				620
GND 19	C19C2		1-08 *							1				620
GND 19	C19T1		1-09 *							2				620
GND 19	D19C2		1-10 *							1				620
GND 19	D19T1		1-11 *							2				620
GND 19	D19T1		1-11 *							1				620
GND 19	D19T1		1-11 *									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	A20N2		1-03 *							1				621
GND 20	A20T1		1-04 *							2				621
GND 20	B20C2		1-05 *							1				621
GND 20	B20C1		1-06 *							2				621
GND 20	B20T1		1-07 *							1				621
GND 20	C20C2		1-08 *							2				621
GND 20	C20T1		1-09 *							1				621
GND 20	D20C2		1-10 *							2				621
GND 20	D20T1		1-11 *							1				621
GND 20	D20T1		1-11 *									39=3/8		621
GND 21	A21C2		1-01 *											622
GND 21	A21T1		1-02 *							2				622
GND 21	B21C2		1-03 *							1				622
GND 21	B21T1		1-04 *							2				622
GND 21	C21C2		1-05 *							1				622
GND 21	C21T1		1-06 *							2				622
GND 21	D21C2		1-07 *							1				622
GND 21	D21T1		1-08 *							2				622
GND 21	D21T1		1-08 *							1				622
GND 22	A22C2		1-01 *											623
GND 22	A22T1		1-02 *							2				623
GND 22	B22C2		1-03 *							1				623
GND 22	B22P1		1-04 *							2				623
GND 22	B22T1		1-05 *							1				623
GND 22	B22T2		1-06 *							2				623
GND 22	C22C2		1-07 *							1				623
GND 22	C22T1		1-08 *							2				623
GND 22	D22C2		1-09 *							1				623
GND 22	D22T1		1-10 *							2				623
GND 22	D22T1		1-10 *							1				623
GND 23	A23C2		1-01 *											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	D23T1		1-08 *									31=4/8		624

RF11.B RUN NAME	4/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 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
		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	D25U1	1-07 *				2				626
GND 25	D25C2	1-08 *				1				626
GND 25	D25T1	1-09 *				2				626
		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
		1						34=0/8		627

RF11.B RUN NAME	4/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 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
		1						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	D28U2	1-20 *				1				629
GND 28	D28T1	1-21 *				2				629
		1						68=0/8		629

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - NAME ORDER PIN ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26=JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 79 RUN NUMBER
GO	L A19H2	1-01 *			2				635
GO	L A19J2	1-02 *			1				635
GO	L A19S2	1-03 *			1				635
GO	L B20N1	1-04 *			1				635
GO	L B20S2	1-05 *			1				635
GO CLR	L A19N2	1-01 *	RF11=12=1		1		15-0/8		636
GO CLR	L B26B1	1-02 *	RF11=12=2		1				636
GO CLR	L B26B1	1					7-6/8		636
IN	H B08M1	1-01 *	RF11=07		2				637
IN	H B09P2	1-02 *	RF11=11		1				637
IN	H B09R2	1-03 *	RF11=11		2				637
IN	H C16C1	1-04 *	RF11=11		1				637
IN	H C16C1	1					13-5/8		637
INC DA (0)	H A26K2	1-01 *	RF11=12=2		2				638
INC DA (0)	H B22S1	1-02 *	RF11=13=1		1				638
INC DA (0)	H D18M2	1-03 *	RF11=10		1				638
INC DA (0)	H D18M2	1					18-2/8		638
INC DA (1)	H B22U1	1-01 *	RF11=13=1		1				639
INC DA (1)	H B23L2	1-02 *	RF11=13=1		1				639
INC DA (1)	H B23L2	1					4-3/8		639
INC DAE (0)	H B19N2		RF11=13=1			1-PIN RUN			640
INC DAE (1)	H B19D2	1-01 *	RF11=13=1		1				641
INC DAE (1)	H B23D2	1-02 *	RF11=13=1		1				641
INC DAE (1)	H B23D2	1					5-0/8		641
INC DAR HI (0)	H B16E1		RF11=14=2			1-PIN RUN			642
INC DAR HI (1)	H B16F1	1-01 *	RF11=14=2		1				643
INC DAR HI (1)	H B17B1	1-02 *	RF11=14=2		1				643
INC DAR HI (1)	H B17B1	1					3-6/8		643
INC TA (0)	H B15E1	1-01 *	RF11=14=2		2				644
INC TA (0)	H B16E2	1-02 *	RF11=14=2		1				644
INC TA (0)	H B24T2	1-03 *	RF11=11		1				644
INC TA (0)	H B24T2	1					12-2/8		644
INC TA (1)	H 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 ORDER	Q	DRAW RV PG Y	X	Z	REMARKS	26=JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 80 RUN NUMBER
INC WA	H A06C1	1-01 *	RF11=09		1				646
INC WA	H A16F2	1-02 *	RF11=14=1		2				646
INC WA	H B18B1	1-03 *	RF11=14=1		1				646
INC WA	H B18B1	1					14-6/8		646
INIT	H B05N2	1-01 *	RF11=05		1				647
INIT	H B27E2	1-02 *	RF11=12=2		1				647
INIT	H B27E2	1					14-6/8		647
INIT + DC LO	L B25B1	1-01 *	RF11=12=2		1				648
INIT + DC LO	L B26C1	1-02 *	RF11=12=2		2				648
INIT + DC LO	L B26J2	1-03 *	RF11=12=1		1				648
INIT + DC LO	L B27F2	1-04 *	RF11=12=1		1				648
INIT + DC LO	L B27F2	1					10-1/8		648
INT ENA (0)	H A20N1		RF11=12=1			1-PIN RUN			649
INT ENA (1)	H A07H2	1-01 *	RF11=04		1				650
INT ENA (1)	H A11M2	1-02 *	RF11=06=1		2	TERM HERE?			650
INT ENA (1)	H A20M1	1-03 *	RF11=12=1		1				650
INT ENA (1)	H A31H2	1-04 *	RF11=02		1	CABLE			650
INT ENA (1)	H A31H2	1					22-0/8		650
INTR CLR	H A07M2	1-01 *	RF11=04		1				651
INTR CLR	H A07S1	1-02 *	RF11=04		1				651
INTR CLR	H A07S1	1					3-4/8		651
INTR MASTER	L A07P2	1-01 *	RF11=04		1				652
INTR MASTER	L A07S2	1-02 *	RF11=04		1				652
INTR MASTER	L A07S2	1					2-6/8		652
IO STR 1	H A27J1	1-01 *	RF11=13=1		1				653
IO STR 1	H A27E2	1-02 *	RF11=12=1		2				653
IO STR 1	H A16B1	1-03 *	RF11=14=2		1				653
IO STR 1	H A16J2	1-04 *	RF11=14=1		2				653
IO STR 1	H A16R2	1-05 *	RF11=13=2		1				653
IO STR 1	H A16R1	1-06 *	RF11=18=2		1				653
IO STR 1	H A16U2	1-07 *	RF11=18=1		1				653
IO STR 1	H C16D1	1-08 *	RF11=11		1				653
IO STR 1	H C10F2	1-09 *	RF11=11		1				653
IO STR 1	H C10M2	1-10 *	RF11=11		1				653
IO STR 1	H C09B1	1-11 *	RF11=21		1				653
IO STR 1	H C09B1	1					46-3/8		653

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 81 RUN NUMBER
LD STR 2	A23B1	1-01 *	RF11=13=1		1				654
LD STR 2	A19B1	1-02 *	RF11=12=1		1				654
LD STR 2	A18B1	1-03 *	RF11=14=2		1				654
LD STR 2	A17B1	1-04 *	RF11=14=1		1				654
LD STR 2	A14B1	1-05 *	RF11=18=2		1				654
LD STR 2	A13B1	1-06 *	RF11=18=1		1				654
LD STR 2	B09B1	1-07 *	RF11=08		1				654
LD STR 2	B09E2	1-08 *	RF11=08		1				654
LD STR 2	B09E1	1-09 *	RF11=08		1				654
LD STR 2	B09J1	1-10 *	RF11=08		1				654
LD STR 2	C07N1	1-11 *	RF11=21		1				654
LD STR 2	C09R2	1-12 *	RF11=21		1				654
LD STR 2	C10T2	1-13 *	RF11=11		1				654
LD STR 2	C16A1	1-14 *	RF11=11		1				654
LD STR 2		1					57-6/8		654
IOB TO DAE	A23C1	1-01 *	RF11=13=1		2				655
IOB TO DAE	A23D1	1-02 *	RF11=13=1		1				655
IOB TO DAE	A23E1	1-03 *	RF11=13=1		2				655
IOB TO DAE	A28M2	1-04 *	RF11=12=2		1				655
LD LY (0)	B23U2	1-01 *	RF11=12=1		1				656
LD LY (0)	C12E1	1-02 *	RF11=12=1		1				656
LD LY (0)		1					10-6/8		656
LD LY (1)	C12F1		RF11=12=1						1-PIN RUN
LD SR (0)	B28U2	1-01 *	RF11=12=1		1				658
LD SR (0)	C12C1	1-02 *	RF11=12=1		2				658
LD SR (0)	D17H1	1-03 *	RF11=11		1				658
LD SR (0)		1					19-7/8		658
LD SR (1)	B21A1	1-01 *	RF11=12=2		1				659
LD SR (1)	D23T2	1-02 *	RF11=11		2				659
LD SR (1)	D19S2	1-03 *	RF11=11		1				659
LD SR (1)	D17F1	1-04 *	RF11=11		2				659
LD SR (1)	D10M1	1-05 *	RF11=11		1				659
LD SR (1)		1					28-5/8		659
LOCK	C14R1	1-01 *	RF11=11		1				660
LOCK	C28V1	1-02 *	RF11=22		2				660
LOCK	D28V2	1-03 *	RF11=22		1				660
LOCK		1					16-4/8		660

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 82 RUN NUMBER
LOCK	C14L2	1-01 *	RF11=11		1				661
LOCK	D28V1	1-02 *	RF11=22		1				661
LOCK		1					13-4/8		661
LS EN	C14S2	1-01 *	RF11=11		1				662
LS EN	D17M2	1-02 *	RF11=11		2				662
LS EN	D19K2	1-03 *	RF11=11		1				662
LS EN		1					10-6/8		662
LS EN	C18J1	1-01 *	RF11=11		1				663
LS EN	D17N2	1-02 *	RF11=11		1				663
LS EN		1					6-4/8		663
LSTE (0)	B25J2	1-01 *	RF11=13=1		1				664
LSTE (0)	C18L1	1-02 *	RF11=11		1				664
LSTE (0)		1					8-7/8		664
LSTE (1)	C18M1		RF11=11						1-PIN RUN
MA (0)	B28D1	1-01 *	RF11=12=2		2				665
MA (0)	A20S2	1-02 *	RF11=12=1		1				666
MA (0)	C13P2	1-03 *	RF11=11		2				666
MA (0)	D16J1	1-04 *	RF11=10		1				666
MA (0)		1					25-6/8		666
MA (1)	A11J1	1-01 *	RF11=06=1		2				667
MA (1)	A20R2	1-02 *	RF11=12=1		1				667
MA (1)	A31R2	1-03 *	RF11=02		1				667
MA (1)		1					17-0/8		667
MA IN HI	B10N2	1-01 *	96+ 7		1				668
MA IN HI	C09A1	1-02 *	RF11=21		2				668
MA IN HI	C07P1	1-03 *	RF11=21		1				668
MA IN HI	C07R1	1-04 *	RF11=21		1				668
MA IN HI		1					12-0/8		668
MA IN LD	B10M2	1-01 *	RF11=07		1				669
MA IN LD	C09J2	1-02 *	RF11=21		2				669
MA IN LD	C09N2	1-03 *	RF11=21		1				669
MA IN LD	C09R1	1-04 *	RF11=21		2				669
MA IN LD	C09P2	1-05 *	RF11=21		1				669
MA IN LD	C09M1	1-06 *	RF11=21		1				669
MA IN LD	C08H1	1-07 *	RF11=21		1				669
MA IN LD	C08C1	1-08 *	RF11=21		1				669
MA IN LD		1					23-5/8		669

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 83 RUN NUMBER
MAT (0)	H C07U1		1-01 *		RF11=21		1			TERM HERE?	670
MAT (0)	H D07E2		1-02 * 1	C	RF11=23				4=4/8	CABLE	670
MAT (1)	H C07S1				RF11=21					1-PIN RUN	671
MBT (0)	H C07M1		1-01 *		RF11=21		1			TERM HERE?	672
MBT (0)	H D07H2		1-02 * 1	C	RF11=23				5=4/8	CABLE	672
MBT (1)	H C07L1				RF11=21					1-PIN RUN	673
MCT (0)	H C07J2		1-01 *		RF11=21		1			TERM HERE?	674
MCT (0)	H D07K2		1-02 * 1	C	RF11=23				6=0/8	CABLE	674
MCT (1)	H C07H2				RF11=21					1-PIN RUN	675
MDT (0)	H C07F1		1-01 *		RF11=21		1			TERM HERE?	676
MDT (0)	H D07M2		1-02 * 1	C	RF11=23				6=4/8	CABLE	676
MDT (1)	H C07E1				RF11=21					1-PIN RUN	677
MNEP (0)	H A24S2		1-01 *		RF11=12=2		2				678
MNEP (0)	H B21E1		1-02 *		RF11=13=2		1				678
MNEP (0)	H C19H2		1-03 * 1		RF11=10				11=6/8		678
MNEP (1)	H A32C2		1-01 *	C	RF11=02		1			CABLE	679
MNEP (1)	H C19J2		1-02 * 1		RF11=10				12=1/8	TERM HERE?	679
MPEN (0)	H A24T2		1-01 *		RF11=12=2		2				680
MPEN (0)	H B21D1		1-02 *		RF11=13=2		1				680
MPEN (0)	H C19L1		1-03 * 1		RF11=10				12=6/8		680
MPEN (1)	H A32E2		1-01 *	C	RF11=02		1			CABLE	681
MPEN (1)	H C19M1		1-02 * 1		RF11=10				12=7/8	TERM HERE?	681
MXF (0)	H A27V2		1-01 *		RF11=12=2		1				682
MXF (0)	H A27R2		1-02 *		RF11=12=2		2				682
MXF (0)	H A24K2		1-03 * 1		RF11=12=2				8=6/8		682

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 84 RUN NUMBER
MXF (1)	H A31H1		1-01 *	C	RF11=02		2			CABLE	683
MXF (1)	H A27T2		1-02 *		RF11=12=2		1				683
MXF (1)	H A27S2		1-03 *		RF11=12=2		2				683
MXF (1)	H A12E1		1-04 * 1		RF11=06=2				19=6/8	TERM HERE?	683
NDT (0)	H A21C1		1-01 *		RF11=13=2		2				684
NDT (0)	H A22S1		1-02 *		RF11=13=2		1				684
NDT (0)	H B26R1		1-03 * 1		RF11=13=2				11=6/8		684
NDT (1)	H A22U1		1-01 *		RF11=13=2		1				685
NDT (1)	H D21E2		1-02 * 1		RF11=20=2				9=6/8		685
NED	H A31E1		1-01 *	C	RF11=02		2			CABLE	686
NED	H A27B1		1-02 *		RF11=12=2		1				686
NED	H A27A1		1-03 *		RF11=12=2		2				686
NED	H A27F1		1-04 *		RF11=12=2		1				686
NED	H A12J1		1-05 * 1		RF11=06=2				22=1/8	TERM HERE?	686
NED	L A24H1		1-01 *		RF11=12=2		1				687
NED	L A27C1		1-02 * 1		RF11=12=2				5=0/8		687
NEM (0)	H A24R2		1-01 *		RF11=12=2		1				688
NEM (0)	H B07K1		1-02 * 1		RF11=13=2				14=0/8	CABLE	688
NEM (1)	H A32P2		1-01 *	C	RF11=02		1				689
NEM (1)	H A12D2		1-02 *		RF11=06=2		2			CABLE	689
NEM (1)	H B07L1		1-03 * 1		RF11=13=2				22=2/8	TERM HERE?	689
NPC MASTER	L A07N1		1-01 *		RF11=03=1		1				690
NPC MASTER	L B07H2		1-02 * 1		RF11=03=2				5=2/8		690
NPC STR=1	H B07R2				RF11=03=2					1-PIN RUN	691
NPC STR=1	L A10K1		1-01 *		RF11=18=2		1				692
NPC STR=1	L A10P1		1-02 *		RF11=18=1		2				692
NPC STR=1	L B07S2		1-03 * 1		RF11=03=2		1				692
NPC STR=1	L B07S1		1-04 * 1		RF11=03=2				13=4/8		692

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 85 RUN NUMBER
NPC STR-2	H B07M2		RF11=03=2		1				693
NPC STR-2	H C18B1		RF11=11				9-6/8		693
NPC STR-2	L A14D1		RF11=18=2		1				694
NPC STR-2	L A13D1		RF11=18=1		2				694
NPC STR-2	L B07L2		RF11=03=2		1				694
NPC STR-2	L B07T2		RF11=03=2		1		15-4/8		694
DFLO (0)	H C06M1		RF11=11		2				695
DFLO (0)	H D10E2		RF11=03=1		1				695
DFLO (0)	H D10F2		RF11=03=1		1		8-3/8		695
DFLO (1)	H A31K2	C	RF11=02		2			CABLE	696
DFLO (1)	H A27H2		RF11=11		1				696
DFLO (1)	H C06N1		RF11=11		1			TERM HERE?	696
DFLO (1)	H C06N1		RF11=11		1		24-6/8		696
OUT HI	H B08M2		RF11=07		1				697
OUT HI	H B10A1		RF11=07		1		4-7/8		697
OUT HI	H B08N1		RF11=07		1				698
OUT LO	H B10D1		RF11=07		1		4-4/8		698
OUT LO	H B10D1		RF11=07		1				698
PDT (0)	H A21A1		RF11=13=2		1				699
PDT (0)	H A22P2		RF11=13=2		2				699
PDT (0)	H B25H1		RF11=13=2		1				699
PDT (0)	H D15S1		RF11=19		1				699
PDT (0)	H D15S1		RF11=19		1		24-0/8		699
PDT (1)	H A22R2		RF11=13=2		1				700
PDT (1)	H D21D2		RF11=20=2		1		10-2/8		700
PDT (1)	H D21D2		RF11=20=2		1				700
PSLER (0)	H A22E1		RF11=12=2		1				701
PSLER (0)	H A27E1		RF11=12=2		1		5-4/8		701
PSLER (0)	H A27E1		RF11=12=2		1				701
PSLER (1)	H A22E1		RF11=12=2		1			TERM HERE?	702
PSLER (1)	H A32E1	C	RF11=02		1		8-0/8	CABLE	702
PSLER (1)	H A32E1		RF11=02		1				702

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 86 RUN NUMBER
RB FULL (0)	H B26L1		RF11=12=2		1				703
RB FULL (0)	H D19T2		RF11=11		2				703
RB FULL (0)	H D15K2		RF11=11		1		18-2/8		703
RB FULL (0)	H D15J2		RF11=11					1-PIN RUN	704
RD CLK	L B25D2		RF11=12=2		1				705
RD CLK	L C13S1		RF11=19		2				705
RD CLK	L D16L2		RF11=19		1				705
RD CLK	L D16R1		RF11=19		1		22-5/8		705
RD CLK	L D16R1		RF11=19		1				705
RD DIS	L B28K2		RF11=11		1				706
RD DIS	L C13S2		RF11=11		2				706
RD DIS	L D10D1		RF11=11		1		18-7/8		706
RD DIS	L D10D1		RF11=11		1				706
RD LD	H B25V2		RF11=13=2		2				707
RD LD	H B26F2		RF11=13=2		1				707
RD LD	H B21H1		RF11=13=2		1		11-0/8		707
RD LD	H B21H1		RF11=13=2		1				707
RD SR (0)	H B25T2		RF11=12=2		2				708
RD SR (0)	H C18T2		RF11=11		1				708
RD SR (0)	H C18S1		RF11=11		1		11-3/8		708
RD SR (0)	H C18S1		RF11=11		1				708
RD SR (1)	H C18U1		RF11=11		1				709
RD SR (1)	H D19U2		RF11=11		1		6-4/8		709
RD SR (1)	H D19U2		RF11=11		1				709
RD TEST	L B21D2		RF11=13=2		1				710
RD TEST	L D11J2		RF11=19		1		11-4/8		710
RD TEST	L D11J2		RF11=19		1				710
READ	L C28V2		RF11=22		1			TERM HERE?	711
READ	L D32V2	C	RF11=23		1		7-2/8	CABLE	711
READ	L D32V2		RF11=23		1				711
RSTE (0)	H B25H2		RF11=13=1		1				712
RSTE (0)	H C18V2		RF11=11		1		8-5/8		712
RSTE (0)	H C18V2		RF11=11		1				712
RSTE (1)	H C18V1		RF11=11					1-PIN RUN	713

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	H 827B1	1-01 *	RF11=13=2		1				714
SBM	H D17R2	1-02 *	RF11=19						714
SBM		1					14=1/8		714
SBM	L A22U2	1-01 *	RF11=13=2		2				715
SBM	L B26S1	1-02 *	RF11=13=2		2				715
SBM	L C18N1	1-03 *	RF11=11		2				715
SBM	L D18S2	1-04 *	RF11=19		2				715
SBM	L D17P2	1-05 *	RF11=19		2				715
SBM	L D16S2	1-06 *	RF11=19		2				715
SBM	L D15T2	1-07 *	RF11=19		2				715
SBM	L D15P2	1-08 *	RF11=19		2				715
SBM	L D15L1	1-09 *	RF11=19		2				715
SBM	L D16E1	1-10 *	RF11=19		2				715
SBM	L C12B1	1-11 *	RF11=12=2		1				715
SEL DSK 0	L B11V1	1-01 *	RF11=06=1		1		49=4/8		716
SEL DSK 0	L B11U2	1-02 *	RF11=06=1		2				716
SEL DSK 0	L B12U2	1-03 *	RF11=06=2						716
SEL DSK 0	L C25D1	1-01 *	RF11=17		1				717
SEL DSK 0	L D26A1	1-02 *	RF11=17						717
SEL DSK 1	L C25E1	1-01 *	RF11=17		1		5=7/8		718
SEL DSK 1	L D26C1	1-02 *	RF11=17						718
SEL DSK 2	L C25J1	1-01 *	RF11=17		1		6=0/8		719
SEL DSK 2	L D26E1	1-02 *	RF11=17						719
SEL DSK 3	L C25N1	1-01 *	RF11=17		1		5=6/8		720
SEL DSK 3	L D26H1	1-02 *	RF11=17						720
SEL DSK 4	L C25F1	1-01 *	RF11=17		1		5=4/8		721
SEL DSK 4	L D26K1	1-02 *	RF11=17						721
SEL DSK 5	L C25M1	1-01 *	RF11=17		1		6=4/8		722
SEL DSK 5	L D26M1	1-02 *	RF11=17						722
SEL DSK 5	L D26V2	1-03 *	RF11=17		1		6=2/8		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	L C25H1	1-01 *	RF11=17		1				723
SEL DSK 6	L D26P1	1-02 *	RF11=17						723
SEL DSK 6	L D26S1	1					7=0/8		723
SEL DSK 7	L C25L1	1-01 *	RF11=17		1				724
SEL DSK 7	L D26S1	1-02 *	RF11=17						724
SEL DSK A	L C26F1	1-01 *	RF11=17		1		6=6/8		725
SEL DSK A	L D26D2	1-02 *	RF11=17		2				725
SEL DSK A	L D27U1	1-03 *	RF11=22						725
SEL DSK A	L C26H1	1-01 *	RF11=17		1		10=4/8		726
SEL DSK R	L D26F2	1-02 *	RF11=17		2				726
SEL DSK R	L D27R1	1-03 *	RF11=22						726
SEL DSK C	L C26J1	1-01 *	RF11=17		2		10=2/8		727
SEL DSK C	L D26J2	1-02 *	RF11=17		1				727
SEL DSK C	L D27N1	1-03 *	RF11=22						727
SEL DSK D	L C26K1	1-01 *	RF11=17		2		9=4/8		727
SEL DSK D	L D26L2	1-02 *	RF11=17		1				728
SEL DSK D	L D27L1	1-03 *	RF11=22						728
SEL DSK E	L C26K2	1-01 *	RF11=17		1		9=0/8		728
SEL DSK E	L D27J1	1-02 *	RF11=22		2				729
SEL DSK E	L D26N2	1-03 *	RF11=17						729
SEL DSK F	L C26L2	1-01 *	RF11=17		1		9=4/8		729
SEL DSK F	L D27F1	1-02 *	RF11=22		2				730
SEL DSK F	L D26S2	1-03 *	RF11=17						730
SEL DSK H	L C26M2	1-01 *	RF11=17		2		10=0/8		730
SEL DSK H	L D27D1	1-02 *	RF11=22		1				731
SEL DSK H	L D26T2	1-03 *	RF11=17						731
SEL DSK J	L C26N2	1-01 *	RF11=17		2		10=0/8		731
SEL DSK J	L D27B1	1-02 *	RF11=22		1				732
SEL DSK J	L D26V2	1-03 *	RF11=17						732
SEL DSK J	L D26V2	1					10=0/8		732

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - PIN ORDER	Q	DRAN RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 89 RUN NUMBER
SEL ERR	A22C1		RF11=12=2		1				733
SEL ERR	A2E2		RF11=12=2		2				733
SEL ERR	C26P2		RF11=17				14=0/8		733
SEL ERR									733
SELECT 00	D27V2		RF11=22		1			TERM HERE? CABLE	734
SELECT 00	D32D2		RF11=23				6=7/8		734
SELECT 00									734
SELECT 01	D27S2		RF11=22		1			TERM HERE? CABLE	735
SELECT 01	D32E2		RF11=23				6=6/8		735
SELECT 01									735
SELECT 02	D27P2		RF11=22		1			TERM HERE? CABLE	736
SELECT 02	D32H2		RF11=23				6=2/8		736
SELECT 02									736
SELECT 03	D27M2		RF11=22		1			TERM HERE? CABLE	737
SELECT 03	D32K2		RF11=23				5=6/8		737
SELECT 03									737
SELECT 04	D27K2		RF11=22		1			TERM HERE? CABLE	738
SELECT 04	D32M2		RF11=23				5=6/8		738
SELECT 04									738
SELECT 05	D27H2		RF11=22		1			TERM HERE? CABLE	739
SELECT 05	D32P2		RF11=23				6=2/8		739
SELECT 05									739
SELECT 06	D27E2		RF11=22		1			TERM HERE? CABLE	740
SELECT 06	D32S2		RF11=23				6=6/8		740
SELECT 06									740
SELECT 07	D27D2		RF11=22		1			TERM HERE? CABLE	741
SELECT 07	D32T2		RF11=23				7=0/8		741
SELECT 07									741
SEGER (0)	A22H2		RF11=12=2		1				742
SEGER (0)	A27D1		RF11=12=2				5=6/8		742
SEGER (0)									742
SEGER (1)	A22J2		RF11=12=2		1			TERM HERE? CABLE	743
SEGER (1)	A32C1		RF11=02				8=2/8		743
SEGER (1)									743

RF11.B RUN NAME	WRP288.V17(17) 06/22/72 A/P PIN ORDER BAY - PIN ORDER	Q	DRAN RV PG Y	X	Z	REMARKS	26-JAN-73 LENGTH	1151 EXCEPTIONS	PAGE 90 RUN NUMBER
SR 00 (0)	C21M2		RF11=20=1		1				744
SR 00 (0)	C22V1		RF11=20=1				4=2/8		744
SR 00 (0)									744
SR 00 (1)	B32V1		RF11=02		2			CABLE	745
SR 00 (1)	C22V2		RF11=20=1		1			TERM HERE?	745
SR 00 (1)	B13C1		RF11=18=1				20=2/8		745
SR 00 (1)									745
SR 01 (0)	C22U1		RF11=20=1					1-PIN RUN	746
SR 01 (1)	B32U1		RF11=02		2			CABLE	747
SR 01 (1)	C22T2		RF11=20=1		1				747
SR 01 (1)	C22S1		RF11=20=1		2			TERM HERE?	747
SR 01 (1)	B13E2		RF11=18=1				22=0/8		747
SR 01 (1)									747
SR 02 (0)	C22R2		RF11=20=1					1-PIN RUN	748
SR 02 (1)	B32T1		RF11=02		2			CABLE	749
SR 02 (1)	C22P2		RF11=20=1		1				749
SR 02 (1)	C22P1		RF11=20=1		2			TERM HERE?	749
SR 02 (1)	B13J1		RF11=18=1				22=6/8		749
SR 02 (1)									749
SR 03 (0)	C22M1		RF11=20=1					1-PIN RUN	750
SR 03 (1)	B32S1		RF11=02		2			CABLE	751
SR 03 (1)	C22M2		RF11=20=1		1				751
SR 03 (1)	C22L1		RF11=20=1		2			TERM HERE?	751
SR 03 (1)	B13M2		RF11=18=1				21=7/8		751
SR 03 (1)									751
SR 04 (0)	C22J2		RF11=20=1					1-PIN RUN	752
SR 04 (1)	B13P1		RF11=18=1		2			TERM HERE?	753
SR 04 (1)	C22J1		RF11=20=1		1				753
SR 04 (1)	C22H2		RF11=20=1		2			CABLE	753
SR 04 (1)	B32R1		RF11=02				21=3/8		753
SR 04 (1)									753
SR 05 (0)	C22F1		RF11=20=1					1-PIN RUN	754

RF11-B RUN NAME	A/P	PIN	NAME	ORDER	REF	Q	DRAW	RV	PG	Y	X	Z	REMARKS	26=JAN-73	LENGTH	1151	EXCEPTIONS	PAGE 91	RUN NUMBER		
																26=JAN-73	LENGTH	1151	EXCEPTIONS	PAGE 91	RUN NUMBER
SR 05 (1)	H	B13T2		1-01 *			RF11E18=1					2		TERM HERE?					755		
SR 05 (1)	H	C22E1		1-02 *			RF11E20=1					1							755		
SR 05 (1)	H	C22E2		1-03 *		C	RF11E20=1					2							755		
SR 05 (1)	H	B32P1		1-04 *			RF11E02							CABLE	20=2/8				755		
SR 06 (0)	H	C21V1					RF11E20=1							1-PIN RUN					756		
SR 06 (1)	H	B15K1		1-01 *			RF11E18=1					1		TERM HERE?					757		
SR 06 (1)	H	C21V2		1-02 *			RF11E20=1					2							757		
SR 06 (1)	H	C22C1		1-03 *			RF11E20=1					1							757		
SR 06 (1)	H	B32N1		1-04 *		C	RF11E02							CABLE	22=4/8				757		
SR 07 (0)	H	C21U1					RF11E20=1							1-PIN RUN					757		
SR 07 (1)	H	B15F2		1-01 *			RF11E18=1					2		TERM HERE?					758		
SR 07 (1)	H	C21S1		1-02 *			RF11E20=1					1							759		
SR 07 (1)	H	C21T2		1-03 *			RF11E20=1					2							759		
SR 07 (1)	H	B32M1		1-04 *		C	RF11E02							CABLE	22=7/8				759		
SR 07 (1)	H						RF11E02					1							759		
SR 08 (0)	H	C21M1					RF11E20=2							1-PIN RUN					760		
SR 08 (1)	H	B14C1		1-01 *			RF11E18=2					2		TERM HERE?					761		
SR 08 (1)	H	C21P1		1-02 *			RF11E20=1					1							761		
SR 08 (1)	H	C21L1		1-03 *			RF11E20=2					2							761		
SR 08 (1)	H	B32L1		1-04 *		C	RF11E02							CABLE	22=0/8				761		
SR 09 (0)	H	C21J2					RF11E20=2							1-PIN RUN					761		
SR 09 (1)	H	B14E2		1-01 *			RF11E18=2					2		TERM HERE?					762		
SR 09 (1)	H	C21J1		1-02 *			RF11E20=2					1							763		
SR 09 (1)	H	C21H2		1-03 *			RF11E20=2					2							763		
SR 09 (1)	H	B32K1		1-04 *		C	RF11E02							CABLE	20=6/8				763		
SR 10 (0)	H	C21F1					RF11E20=2							1-PIN RUN					764		
SR 10 (1)	H	B14J1		1-01 *			RF11E18=2					2		TERM HERE?					765		
SR 10 (1)	H	C21E1		1-02 *			RF11E20=2					1							765		
SR 10 (1)	H	C21E2		1-03 *			RF11E20=2					2							765		
SR 10 (1)	H	B32J1		1-04 *		C	RF11E02							CABLE	21=6/8				765		

RF11-B RUN NAME	A/P	PIN	NAME	ORDER	REF	Q	DRAW	RV	PG	Y	X	Z	REMARKS	26=JAN-73	LENGTH	1151	EXCEPTIONS	PAGE 92	RUN NUMBER		
																26=JAN-73	LENGTH	1151	EXCEPTIONS	PAGE 92	RUN NUMBER
SR 11 (0)	H	C20J2					RF11E20=2							1-PIN RUN					766		
SR 11 (1)	H	B14M2		1-01 *			RF11E18=2					1		TERM HERE?					767		
SR 11 (1)	H	C20H2		1-02 *			RF11E20=2					2							767		
SR 11 (1)	H	C21C1		1-03 *			RF11E20=2							CABLE					767		
SR 11 (1)	H	B32H1		1-04 *		C	RF11E02												767		
SR 12 (0)	H	C20M1					RF11E20=2							1-PIN RUN					768		
SR 12 (1)	H	B14P1		1-01 *			RF11E18=2					2		TERM HERE?					769		
SR 12 (1)	H	C20L1		1-02 *			RF11E20=2					1							769		
SR 12 (1)	H	C20E2		1-03 *			RF11E20=2					2							769		
SR 12 (1)	H	B32F1		1-04 *		C	RF11E02							CABLE	23=0/8				769		
SR 13 (0)	H	C20R2					RF11E20=2							1-PIN RUN					770		
SR 13 (1)	H	B14T2		1-01 *			RF11E18=2					2		TERM HERE?					771		
SR 13 (1)	H	C20J1		1-02 *			RF11E20=2					1							771		
SR 13 (1)	H	C20P2		1-03 *			RF11E20=2					2							771		
SR 13 (1)	H	B32E1		1-04 *		C	RF11E02							CABLE					771		
SR 14 (0)	H	C20U1					RF11E20=2							1-PIN RUN					772		
SR 14 (1)	H	B15S1		1-01 *			RF11E18=2					2		TERM HERE?					773		
SR 14 (1)	H	C20S1		1-02 *			RF11E20=2					1							773		
SR 14 (1)	H	C20M2		1-03 *			RF11E20=2					2							773		
SR 14 (1)	H	B32D1		1-04 *		C	RF11E02							CABLE	22=3/8				773		
SR 15 (0)	H	C20V1					RF11E20=2							1-PIN RUN					774		
SR 15 (1)	H	B32C1		1-01 *		C	RF11E02					1		CABLE					775		
SR 15 (1)	H	B15N2		1-02 *			RF11E18=2					2							775		
SR 15 (1)	H	C20P1		1-03 *			RF11E20=2					1							775		
SR 15 (1)	H	C20V2		1-04 *			RF11E20=2							TERM HERE?					775		

RF11.B RUN NAME	A/P PIN ORDER PIN BAY - ORDER	Q DRAW RV PG Y X Z	REMARKS	26=JAN=73 LENGTH	1151 EXCEPTIONS	PAGE 93 RUN NUMBER
SR CLK 1	C20H1	1-01 *	RF11=20=2	1		776
SR CLK 1	C20D2	1-02 *	RF11=20=2	2		776
SR CLK 1	C21B1	1-03 *	RF11=20=2	1		776
SR CLK 1	C21D2	1-04 *	RF11=20=2	2		776
SR CLK 1	C21H1	1-05 *	RF11=20=2	1		776
SR CLK 1	C20L2	1-06 *	RF11=20=2	2		776
SR CLK 1	C20N1	1-07 *	RF11=20=2	1		776
SR CLK 1	C20S2	1-08 *	RF11=20=2	2		776
SR CLK 1	D21J1	1-09 *	RF11=20=2	1		776
SR CLK 1	D16S1	1-10 *	RF11=19	1		776
SR CLK 1		1		31=4/8		776
SR CLK 2	C22B1	1-01 *	RF11=20=1	1		777
SR CLK 2	C22D2	1-02 *	RF11=20=1	2		777
SR CLK 2	C22H1	1-03 *	RF11=20=1	1		777
SR CLK 2	C22L2	1-04 *	RF11=20=1	2		777
SR CLK 2	C22S2	1-05 *	RF11=20=1	1		777
SR CLK 2	C22N1	1-06 *	RF11=20=1	2		777
SR CLK 2	C21S2	1-07 *	RF11=20=1	1		777
SR CLK 2	C21N1	1-08 *	RF11=20=1	2		777
SR CLK 2	C21L2	1-09 *	RF11=20=1	1		777
SR CLK 2	C19L2	1-10 *	RF11=20=1	2		777
SR CLK 2	D16P2	1-11 *	RF11=19	1		777
SR CLK 2		1		35=3/8		777
SR CLR (00-07)	C21K2	1-01 *	RF11=20=1	1		778
SR CLR (00-07)	C22A1	1-02 *	RF11=20=1	2		778
SR CLR (00-07)	C22K2	1-03 *	RF11=20=1	1		778
SR CLR (00-07)	D22P2	1-04 *	RF11=20=1	2		778
SR CLR (00-07)		1		14=6/8		778
SR CLR (08-15)	C21A1	1-01 *	RF11=20=2	2		779
SR CLR (08-15)	C20A1	1-02 *	RF11=20=2	1		779
SR CLR (08-15)	C20K2	1-03 *	RF11=20=2	2		779
SR CLR (08-15)	D22L1	1-04 *	RF11=20=2	1		779
SR CLR (08-15)	D22N1	1-05 *	RF11=20=1	2		779
SR CLR (08-15)		1		17=2/8		779

WRP288.V17(17) 06/22/72 A/P PIN ORDER PIN BAY - ORDER 26=JAN=73 LENGTH 1151 EXCEPTIONS PAGE 94 RUN NUMBER

RF11.B RUN NAME	A/P PIN ORDER PIN BAY - ORDER	Q DRAW RV PG Y X Z	REMARKS	26=JAN=73 LENGTH	1151 EXCEPTIONS	PAGE 94 RUN NUMBER
SR TO BR	A15V2	1-01 *	RF11=18=1	2		780
SR TO BR	B15E2	1-02 *	RF11=18=1	1		780
SR TO BR	B15J1	1-03 *	RF11=18=1	2		780
SR TO BR	B15M2	1-04 *	RF11=18=2	1		780
SR TO BR	B15R1	1-05 *	RF11=18=2	2		780
SR TO BR	B14S2	1-06 *	RF11=18=2	1		780
SR TO BR	B14N1	1-07 *	RF11=18=2	2		780
SR TO BR	B14L2	1-08 *	RF11=18=2	1		780
SR TO BR	B14D2	1-09 *	RF11=18=2	2		780
SR TO BR	B14B1	1-10 *	RF11=18=2	1		780
SR TO BR	B13D2	1-11 *	RF11=18=1	2		780
SR TO BR	B14H1	1-12 *	RF11=18=2	1		780
SR TO BR	B13L2	1-13 *	RF11=18=1	2		780
SR TO BR	B13S2	1-14 *	RF11=18=1	1		780
SR TO BR	B13N1	1-15 *	RF11=18=1	2		780
SR TO BR	B13H1	1-16 *	RF11=18=1	1		780
SR TO BR	B13B1	1-17 *	RF11=18=1	2		780
SR TO BR		1		50=4/8		780
SRI (0)	A16E2	1-01 *	RF11=14=1	1		781
SRI (0)	C13R1	1-02 *	RF11=19	2		781
SRI (0)	C18K1	1-03 *	RF11=11	1		781
SRI (0)	C18H2	1-04 *	RF11=11	2		781
SRI (0)	D19H1	1-05 *	RF11=19	1		781
SRI (0)	D19N2	1-06 *	RF11=11	2		781
SRI (0)		1		29=4/8		781
SRI (1)	C06S1	1-01 *	RF11=11	2		782
SRI (1)	D12A1	1-02 *	RF11=11	1		782
SRI (1)	C18J2	1-03 *	RF11=11	2		782
SRI (1)	D22H1	1-04 *	RF11=20=2	1		782
SRI (1)	D22L2	1-05 *	RF11=20=1	2		782
SRI (1)		1		25=3/8		782
SRI CLR	C18F2	1-01 *	RF11=11	2		783
SRI CLR	D21N1	1-02 *	RF11=11	1		783
SRI CLR	D10P1	1-03 *	RF11=11	2		783
SRI CLR	C06P1	1-04 *	RF11=11	1		783
SRI CLR		1		23=6/8		783
SRID (0)	C06V2		RF11=11		1=PIN RUN	784
SRID (1)	C06U2	1-01 *	RF11=11	1		785
SRID (1)	D10D2	1-02 *	RF11=03=1	2		785
SRID (1)		1		6=2/8		785

RF11.B RUN NAME	WRP288.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 95 RUN NUMBER
SRD (0)	H A10E2		1-01 *	RF11E14=1		1				786
SRD (0)	H A16D2		1-02 *	RF11E18=1		2				786
SRD (0)	H A15R2		1-03 *	RF11E11		1				786
SRD (0)	H D15H2		1-04 *	RF11E11		1				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		1		30=0/8	1=PIN RUN	786
SSYN IN	H 807A1		1-01 *	RF11E03=2		2				787
SSYN IN	H 805L2		1-02 *	RF11E05		1				788
SSYN IN	H C13D1		1-03 *	RF11E11		1				788
STROBE	H 825M1		1-01 *	RF11E13=2		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		24=6/8		789
STROBE	L D17K2		1-02 *	RF11E19		1				790
STROBE	L D14B1		1-03 *	RF11E19		1				790
STRT XTIM	L B10H1	D12R1	1-01 *			1		10=1/8		791
STRT XTIM	L D12R1		1-02 *			1				791
T00 (0)	H C28S2		1-01 *	RF11E22		1		10=2/8	TERM HERE? CABLE	792
T00 (0)	H C32D2		1-02 *	RF11E23		1		6=3/8		792
T00 (1)	H C29S2		1-01 *	RF11E22		1				793
T00 (1)	H C31D2		1-02 *	RF11E23		1				793
T01 (0)	H C28P2		1-01 *	RF11E22		1		4=6/8	TERM HERE? CABLE	794
T01 (0)	H C32E2		1-02 *	RF11E23		1				794
T01 (0)	H C29P2		1-01 *	RF11E22		1		6=0/8	TERM HERE? CABLE	794
T01 (1)	H C31E2		1-02 *	RF11E23		1				795
T01 (1)	H C31E2		1-02 *	RF11E23		1		4=4/8	TERM HERE? CABLE	795

RF11.B RUN NAME	WRP288.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 96 RUN NUMBER
T02 (0)	H C28M2		1-01 *	RF11E22		1			TERM HERE? CABLE	796
T02 (0)	H C32H2		1-02 *	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		4=4/8		797
T03 (0)	H C28K2		1-01 *	RF11E22		1		5=0/8	TERM HERE? CABLE	798
T03 (0)	H C32K2		1-02 *	RF11E23		1				798
T03 (1)	H C29K2		1-01 *	RF11E22		1		4=0/8	TERM HERE? CABLE	799
T03 (1)	H C31K2		1-02 *	RF11E23		1				799
T04 (0)	H C28H2		1-01 *	RF11E22		1		5=4/8	TERM HERE? CABLE	800
T04 (0)	H C32M2		1-02 *	RF11E23		1				800
T04 (1)	H C29H2		1-01 *	RF11E22		1		4=4/8	TERM HERE? CABLE	801
T04 (1)	H C31M2		1-02 *	RF11E23		1				801
T05 (0)	H C28E2		1-01 *	RF11E22		1		6=0/8	TERM HERE? CABLE	802
T05 (0)	H C32P2		1-02 *	RF11E23		1				802
T05 (1)	H C29E2		1-01 *	RF11E22		1		4=4/8	TERM HERE? CABLE	803
T05 (1)	H C31P2		1-02 *	RF11E23		1				803
T06 (0)	H C30H2		1-01 *	RF11E22		2		10=0/8	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 C30J2		1-01 *	RF11E22		2		8=6/8	TERM HERE? CABLE	805
T06 (1)	H C29D2		1-02 *	RF11E23		1				805
T06 (1)	H C31S2		1-03 *	RF11E23		1				805
TA 00 (0)	H B16F2		1-01 *	RF11E14=2		2				806
TA 00 (0)	H B16J1		1-02 *	RF11E14=2		1				806
TA 00 (0)	H B16K2		1-03 *	RF11E14=2		2				806
TA 00 (0)	H C29R1		1-04 *	RF11E22		2		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)	B16N1	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 (1)	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)	C28N1	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)	B12R1	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)	B22M1	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				15-4/8		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	C18D2	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.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 EXCEPTIONS 1151 PAGE 99
RUN NUMBER

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	EXCEPTIONS 1151	PAGE 99 RUN NUMBER
TP2	H D11C1	1-01 * RF11=19			822
TP2	H D1OH2	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	25-1/8		823
TP2 + 50	L D19M1	1-02 * RF11=19			823
TP2 + 50	L D11S1	1-02 * RF11=19	7-2/8		823
TP3	L C18N2	1-01 * RF11=11			824
TP3	L D11S1	1-02 * RF11=19			824
TP3	L D11S1	1-02 * RF11=19	8-7/8		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 B29V2	1-02 * RF11=24	7-2/8		825
UPD ADS (-)	H B29V2	1-02 * RF11=24		1-PIN RUN	826
WA 00 (O)	H B27L2	1-01 * RF11=14=1			827
WA 00 (O)	H B18D2	1-02 * RF11=14=1			827
WA 00 (O)	H B18F1	1-03 * RF11=14=1			827
WA 00 (O)	H B18C1	1-04 * RF11=14=1			827
WA 00 (O)	H C17N1	1-05 * RF11=16=1			827
WA 00 (O)	H C17N1	1-05 * RF11=16=1	20-7/8		827
WA 00 (1)	H B11B1	1-01 * RF11=06=1			828
WA 00 (1)	H B18E1	1-02 * RF11=14=1		TERM HERE?	828
WA 00 (1)	H C17R1	1-03 * RF11=16=1			828
WA 00 (1)	H B31V1	1-04 * C RF11=02			828
WA 00 (1)	H B31V1	1-04 * C RF11=02		CABLE	828
WA 01 (O)	H B18J2	1-01 * RF11=14=1	25=6/8		828
WA 01 (O)	H B18E2	1-02 * RF11=14=1			829
WA 01 (O)	H B18M1	1-03 * RF11=14=1			829
WA 01 (O)	H C17L2	1-04 * RF11=16=1			829
WA 01 (O)	H C17L2	1-04 * RF11=16=1	11=5/8		829
WA 01 (O)	H C17L2	1-04 * RF11=16=1			829

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 EXCEPTIONS 1151 PAGE 100
RUN NUMBER

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	EXCEPTIONS 1151	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		TERM HERE?	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 * C RF11=02			830
WA 01 (1)	H B31U1	1-05 * C RF11=02	29=4/8		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	1-04 * RF11=16=1	11=1/8		831
WA 02 (1)	H B11E2	1-01 * RF11=06=1		TERM HERE?	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 * C RF11=02			832
WA 02 (1)	H B31T1	1-04 * C RF11=02	24=6/8		832
WA 03 (O)	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	1-04 * RF11=16=1	10-5/8		833
WA 03 (1)	H B11J1	1-01 * RF11=06=1		TERM HERE?	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 * C RF11=02			834
WA 03 (1)	H B31S1	1-04 * C RF11=02	22=4/8		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	1-04 * RF11=16=1	9=2/8		835
WA 04 (1)	H B11J2	1-01 * RF11=06=1		TERM HERE?	836
WA 04 (1)	H C17D1	1-02 * RF11=16=1			836
WA 04 (1)	H B18S1	1-03 * RF11=14=1			836
WA 04 (1)	H B31R1	1-04 * C RF11=02			836
WA 04 (1)	H B31R1	1-04 * C RF11=02	21=4/8		836

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 101 RUN NUMBER
WA 05 (0)	B16R1		RF11=14=1		2				837
WA 05 (0)	B18T2		RF11=14=1		1				837
WA 05 (0)	B18V1		RF11=14=1		2				837
WA 05 (0)	C17S2		RF11=16=1				12=6/8		837
WA 05 (1)	B11M1		RF11=06=1		1			TERM HERE?	838
WA 05 (1)	C17U2		RF11=16=1		2				838
WA 05 (1)	B18V2		RF11=14=1		1				838
WA 05 (1)	B31P1	C	RF11=02				23=3/8	CABLE	838
WA 06 (0)	B16M2		RF11=14=1		2				839
WA 06 (0)	B16S1		RF11=14=1		1				839
WA 06 (0)	B16V2		RF11=14=1		2				839
WA 06 (0)	C16N1		RF11=16=1				11=3/8		839
WA 06 (1)	B31N1	C	RF11=02		1			CABLE	840
WA 06 (1)	B11M2		RF11=06=1		2				840
WA 06 (1)	B16U2		RF11=14=1		1				840
WA 06 (1)	C16R1		RF11=16=1				24=4/8	TERM HERE?	840
WA 07 (0)	B16B1		RF11=14=2		2				841
WA 07 (0)	B16N2		RF11=14=1		1				841
WA 07 (0)	B16S2		RF11=14=1		2				841
WA 07 (0)	C16L2		RF11=16=1				12=3/8		841
WA 07 (1)	B11R1		RF11=06=1		1			TERM HERE?	842
WA 07 (1)	B16R2		RF11=14=1		2				842
WA 07 (1)	C16N2		RF11=16=1		1				842
WA 07 (1)	B31M1	C	RF11=02				23=6/8	CABLE	842
WA 08 (0)	B17D2		RF11=14=2		2				843
WA 08 (0)	B17C1		RF11=14=2		1				843
WA 08 (0)	B17F1		RF11=14=2		2				843
WA 08 (0)	C16H1		RF11=16=1				12=0/8		843
WA 08 (1)	B31L1	C	RF11=02		1			CABLE	844
WA 08 (1)	B17E1		RF11=14=2		2				844
WA 08 (1)	B12B1		RF11=06=2		1				844
WA 08 (1)	C16K1		RF11=16=1				24=6/8	TERM HERE?	844
WA 08 (1)					1				844

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 102 RUN NUMBER
WA 09 (0)	B17J2		RF11=14=2		2				845
WA 09 (0)	B17E2		RF11=14=2		1				845
WA 09 (0)	B17H1		RF11=14=2		2				845
WA 09 (0)	C16E2		RF11=16=1				11=1/8		845
WA 09 (1)	B12E1		RF11=06=2		1			TERM HERE?	846
WA 09 (1)	C16H2		RF11=16=1		2				846
WA 09 (1)	B17H2		RF11=14=2		1				846
WA 09 (1)	B31K1	C	RF11=02				23=0/8	CABLE	846
WA 10 (0)	B15B1		RF11=14=2		2				847
WA 10 (0)	B17J1		RF11=14=2		1				847
WA 10 (0)	B17M1		RF11=14=2		2				847
WA 10 (0)	C16S2		RF11=16=1				13=3/8		847
WA 10 (1)	B31J1	C	RF11=02		1			CABLE	848
WA 10 (1)	B12E2		RF11=06=2		2				848
WA 10 (1)	B17L1		RF11=14=2		1				848
WA 10 (1)	C16U2		RF11=16=1				25=4/8	TERM HERE?	848
WB FULL (0)	A10A1		RF11=03=1		1				849
WB FULL (0)	C18E1		RF11=11				12=4/8		849
WB FULL (0)					1				849
WB FULL (1)	C18F1		RF11=11		1				850
WB FULL (1)	D19J2		RF11=11				6=6/8		850
WB FULL (1)					1				850
WBM	C18L2		RF11=11		1				851
WBM	D17J2		RF11=19		2				851
WBM	D12H2		RF11=11				11=6/8		851
WBM					1				851
WBM	C18S2		RF11=11		2				852
WBM	D19D1		RF11=19		1				852
WBM	D17H2		RF11=19				9=0/8		852
WBM					1				852
WC CARRY OUT	B28M1		RF11=12=1		1				853
WC CARRY OUT	B28N1		RF11=12=1		2				853
WC CARRY OUT	B06S2		RF11=09		1				853
WC CARRY OUT	C06J1		RF11=11				21=3/8		853

ERROR LISTING

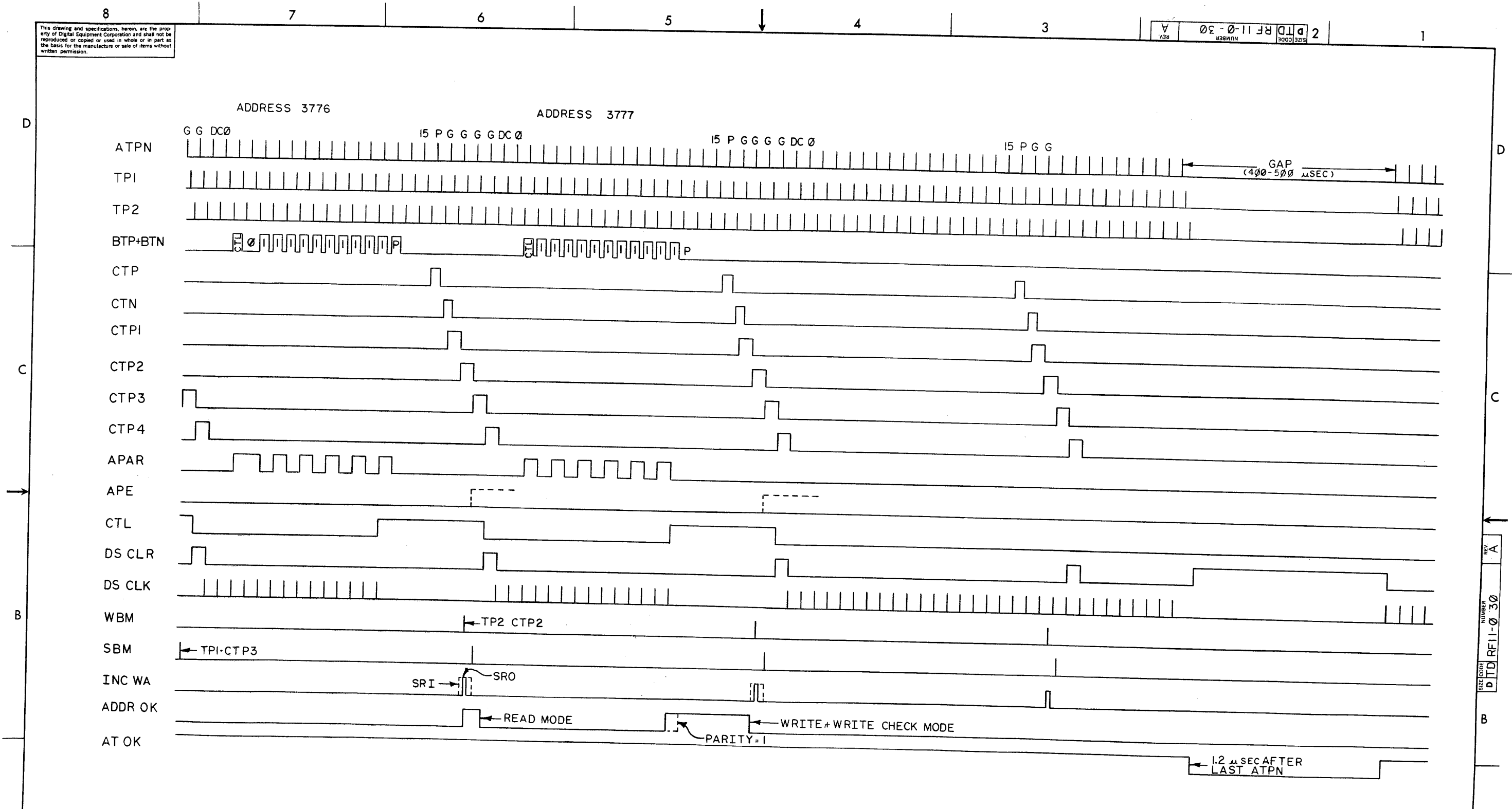
WIRE WRAP RUN NAME	A/P	PIN NAME	ORDER PIN	BAY ORDER	DATE	REMARKS	LENGTH	EXCEPTIONS	PAGE 1 RUN NUMBER
ADS 00 (0)		B30F1			26-JAN-73			1-PIN RUN	127
ADS 01 (0)	H	B30J2						1-PIN RUN	129
ADS 02 (0)	H	B30M1						1-PIN RUN	131
ADS 03 (0)	H	B30R2						1-PIN RUN	133
ADS 04 (0)	H	B30U1						1-PIN RUN	135
ADS 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
BC 00 (1)	H	D14F1						1-PIN RUN	200
BC 04 (1)	H	D14S1						1-PIN RUN	216
BC 00 (0)	H	B13F1						1-PIN RUN	221
BR 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	B20E1						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	645
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	DATE	REMARKS	LENGTH	EXCEPTIONS	PAGE 2 RUN NUMBER
SR 05 (0)	H	C22F1			26-JAN-73			1-PIN RUN	754
SR 06 (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

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REV. A
 NUMBER 03-0-30
 SIZE CODE DTD RF11-0-30
 2



REV.	CHG.	NO.	DATE
A		0007	10/2/70
B		0008	10/2/70
C		0009	10/2/70
D		0010	10/2/70

CHK: JENKINS
 DATE: 10/2/70

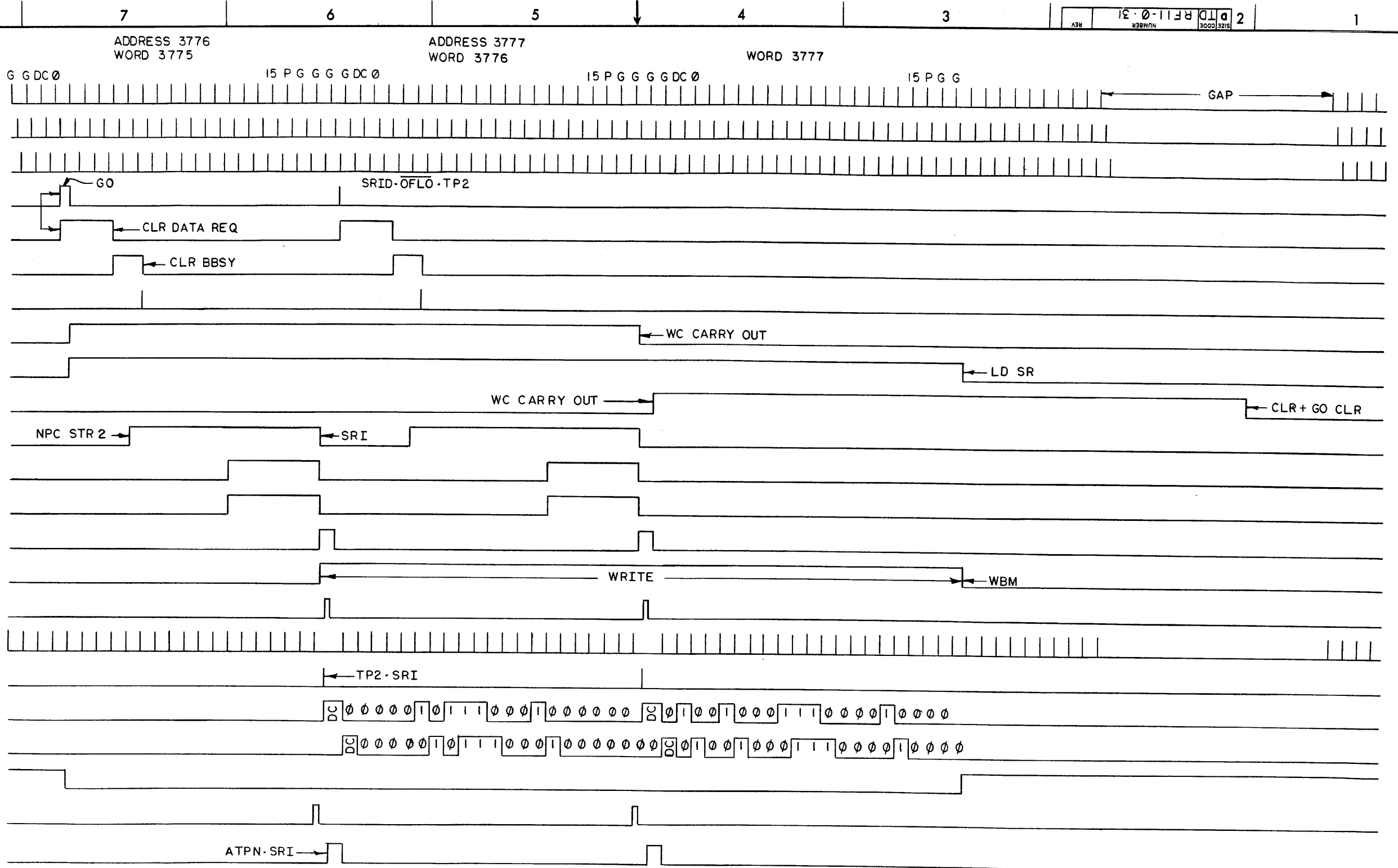
FIRST USED ON OPTION / MODEL
 RF 11

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		
	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
	TITLE ADDRESS TIMING		
	NEXT HIGHER ASSY A-ML-RF11-0		
	SCALE NONE		
	SHEET OF		
	SIZE CODE DTD RF11-0-30		
	NUMBER 03-0-30		
	REV. A		

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REV. NUMBER
 2
 DTD RF11-0-31

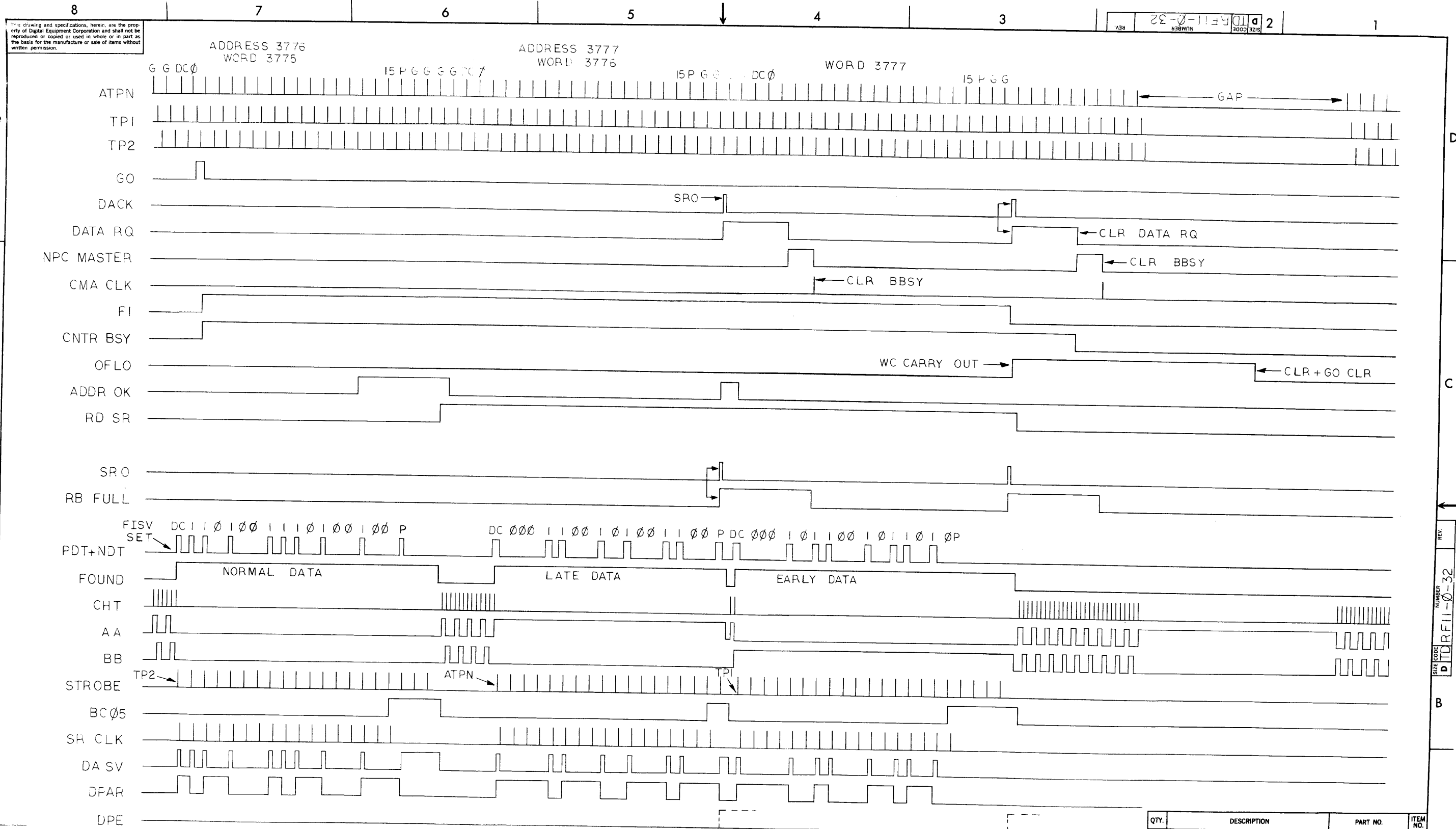


REV.	NO.
CHK.	NO.

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

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 DTD RF11-0-31	NUMBER 1
	SCALE NONE	DIST.	REV.
	SHEET 1 OF 1		



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REV. 11-0-32

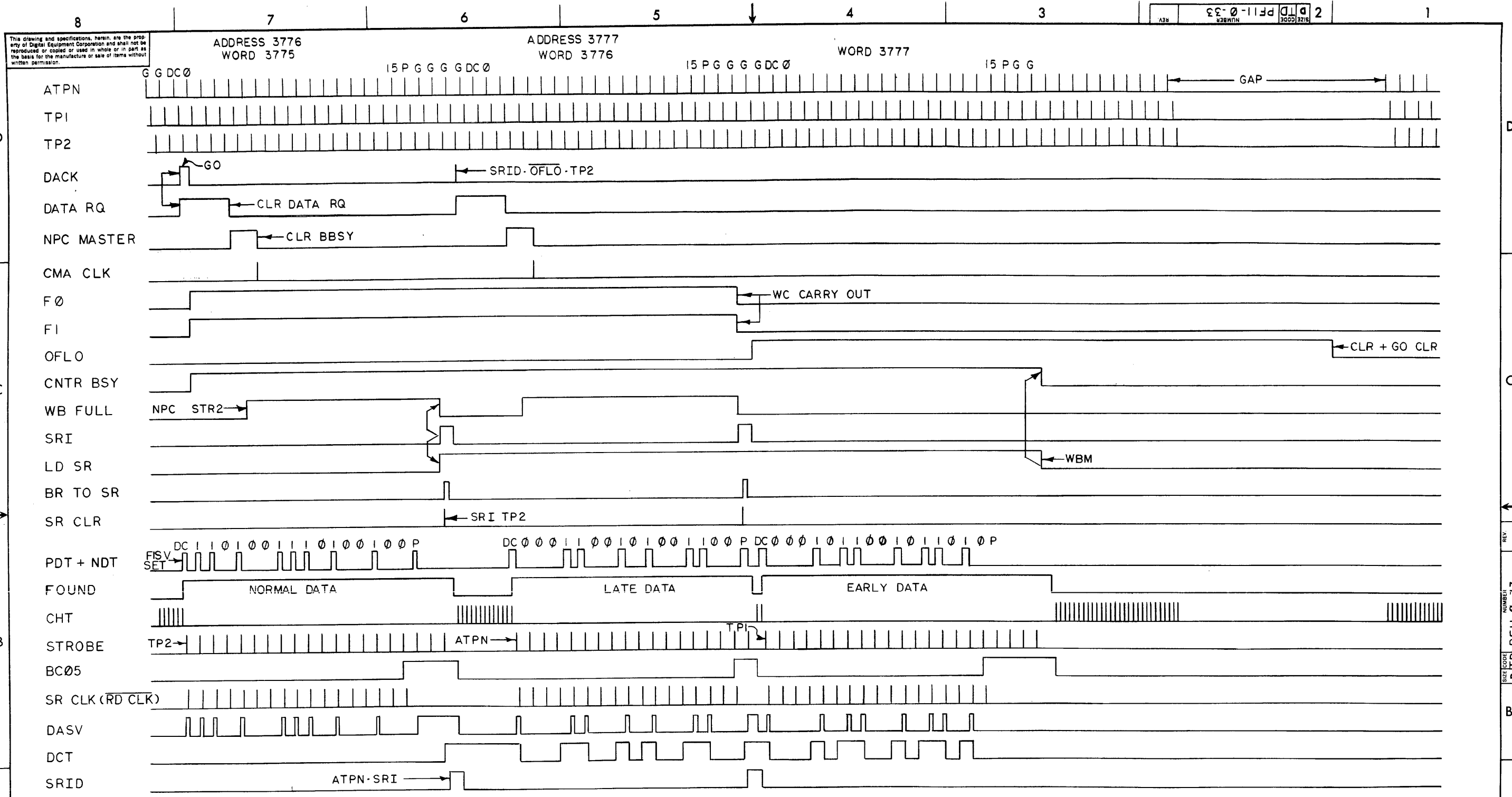
REV. NO.	CHANG. NO.	REC.
CHK		

FIRST USED ON OPTION/MODEL
RF11

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
- .005 - .04 - .125
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN. <i>Jan Davis</i>	DATE 9-17-70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHK'D. <i>R. Bobk</i>	DATE 9/23/70		
ENG. <i>2-1-71</i>	DATE 11-5		
PRD. <i>Eng</i>	DATE 10/2-70		
PRD. <i>Call</i>	DATE 10/1/70	TITLE READ MODE	
NEXT HIGHER ASSY A-ML-RF11-0		SIZE CODE D	NUMBER RF11-0-32
SCALE			REV.
SHEET 1 OF 1	DIST.		

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REV.	
CHG	
NO.	

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

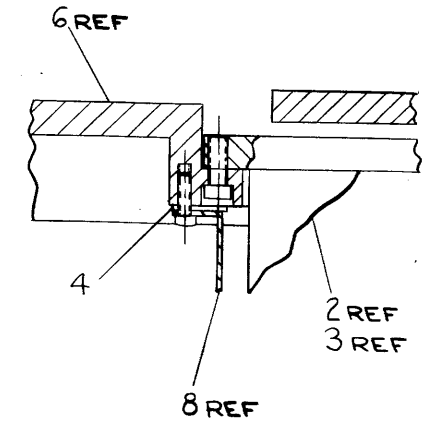
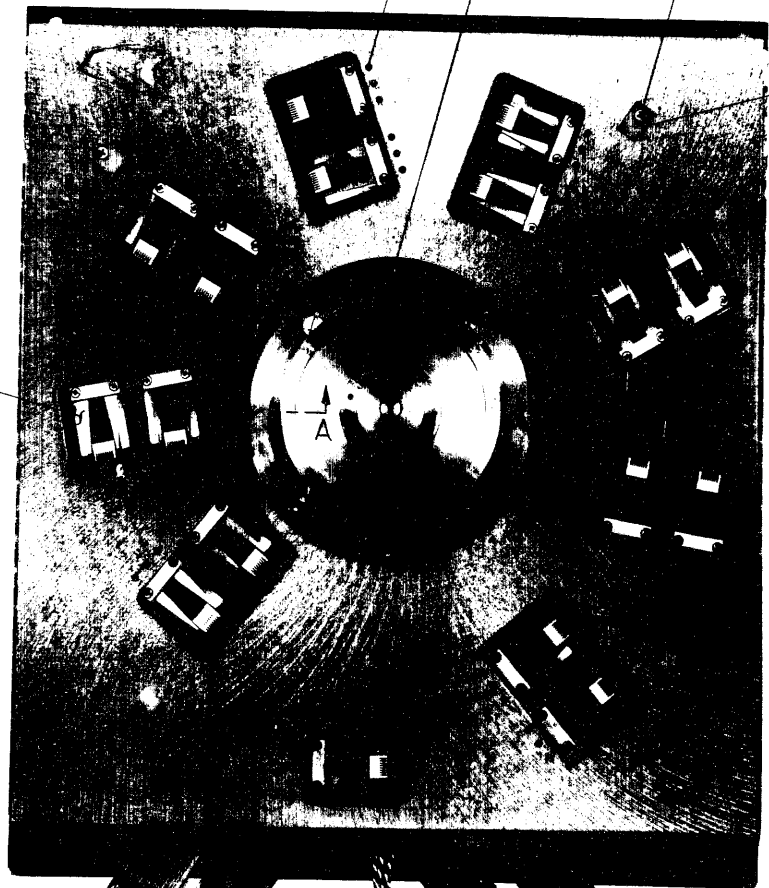
QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
ORIG. <i>[Signature]</i>	DATE <i>1/25/70</i>	digital EQUIPMENT CORPORATION MATTAPOISETT, MASSACHUSETTS	
CHK'D. <i>[Signature]</i>	DATE <i>2/25/70</i>		
ENG. <i>[Signature]</i>	DATE <i>2/16</i>		
PROJ. ENG. <i>[Signature]</i>	DATE <i>2/16</i>		
PROD. <i>[Signature]</i>	DATE <i>1/25/70</i>	TITLE WRITE CHECK MODE	
MATERIAL #		NEXT HIGHER ASSY A-ML-RF11-0	SIZE CODE D
FINISH #		SCALE NONE	NUMBER RF11-0-33
SHEET OF		DIST.	REV.

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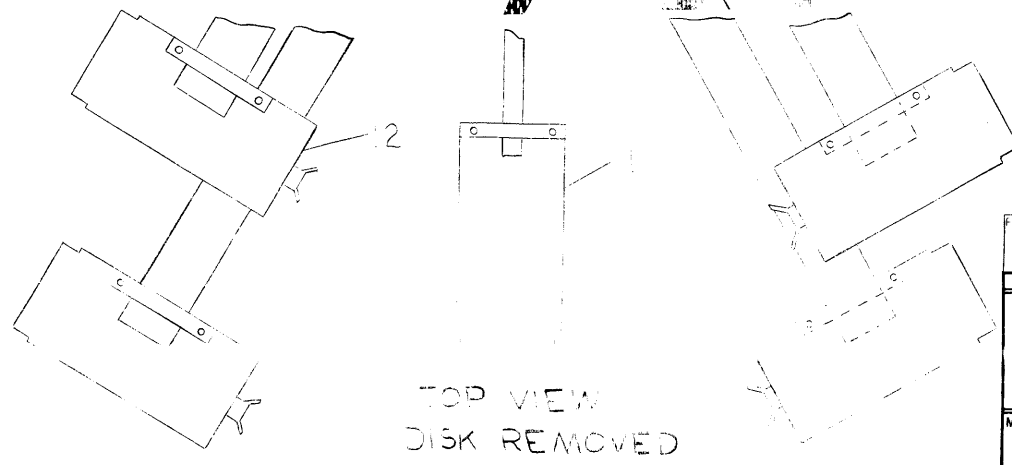
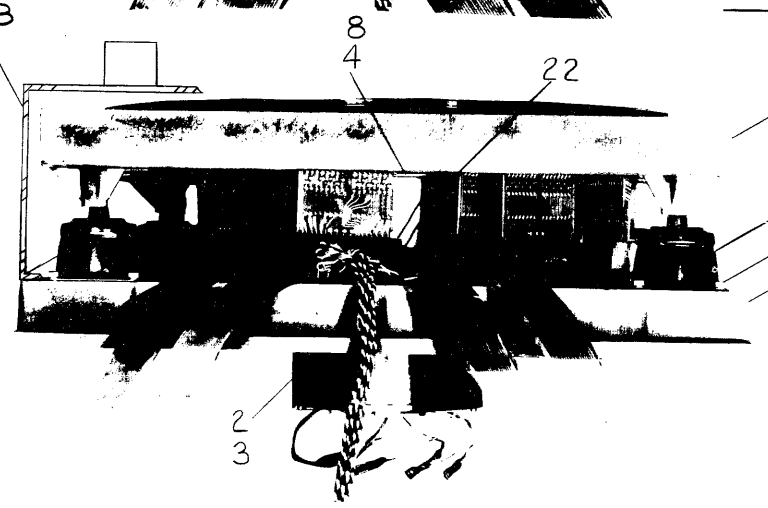
0-W-808-M-0 2

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

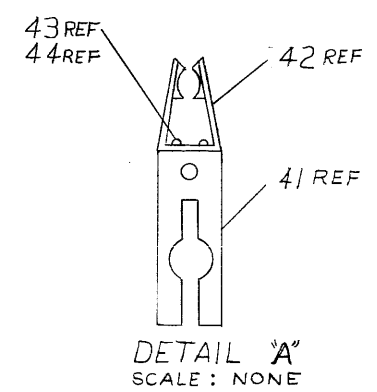
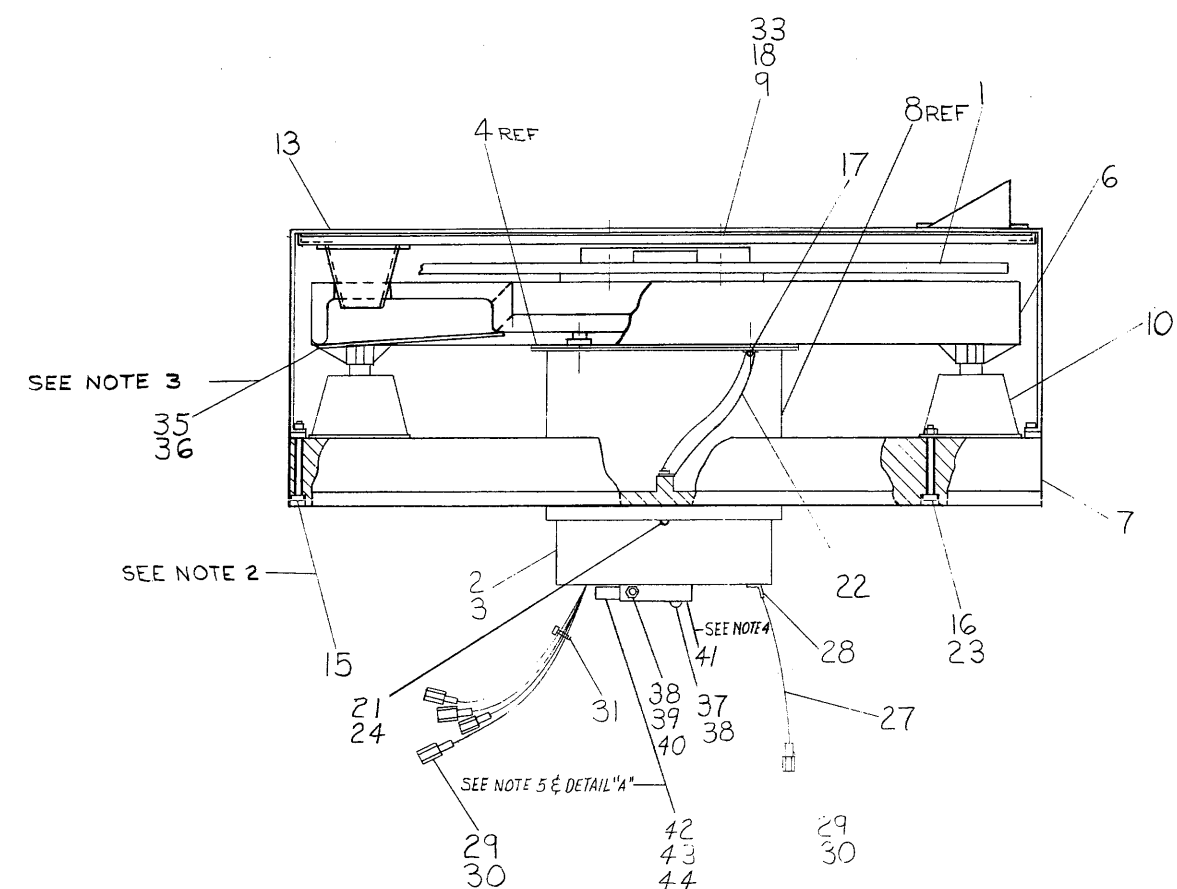


TOP VIEW DISK REMOVED

REV.	CHG. NO.	BY	DATE
1	0001	ED	10/10/69
2	0002	ED	11/10/69
3	0003	ED	12/10/69
4	0004	ED	01/10/70
5	0005	ED	02/10/70
6	0006	ED	03/10/70
7	0007	ED	04/10/70
8	0008	ED	05/10/70
9	0009	ED	06/10/70
10	0010	ED	07/10/70
11	0011	ED	08/10/70
12	0012	ED	09/10/70
13	0013	ED	10/10/70
14	0014	ED	11/10/70
15	0015	ED	12/10/70
16	0016	ED	01/10/71
17	0017	ED	02/10/71
18	0018	ED	03/10/71
19	0019	ED	04/10/71
20	0020	ED	05/10/71
21	0021	ED	06/10/71
22	0022	ED	07/10/71
23	0023	ED	08/10/71
24	0024	ED	09/10/71
25	0025	ED	10/10/71
26	0026	ED	11/10/71
27	0027	ED	12/10/71
28	0028	ED	01/10/72
29	0029	ED	02/10/72
30	0030	ED	03/10/72
31	0031	ED	04/10/72
32	0032	ED	05/10/72
33	0033	ED	06/10/72
34	0034	ED	07/10/72
35	0035	ED	08/10/72
36	0036	ED	09/10/72
37	0037	ED	10/10/72
38	0038	ED	11/10/72
39	0039	ED	12/10/72
40	0040	ED	01/10/73
41	0041	ED	02/10/73
42	0042	ED	03/10/73
43	0043	ED	04/10/73
44	0044	ED	05/10/73
45	0045	ED	06/10/73
46	0046	ED	07/10/73
47	0047	ED	08/10/73
48	0048	ED	09/10/73
49	0049	ED	10/10/73
50	0050	ED	11/10/73
51	0051	ED	12/10/73
52	0052	ED	01/10/74
53	0053	ED	02/10/74
54	0054	ED	03/10/74
55	0055	ED	04/10/74
56	0056	ED	05/10/74
57	0057	ED	06/10/74
58	0058	ED	07/10/74
59	0059	ED	08/10/74
60	0060	ED	09/10/74
61	0061	ED	10/10/74
62	0062	ED	11/10/74
63	0063	ED	12/10/74
64	0064	ED	01/10/75
65	0065	ED	02/10/75
66	0066	ED	03/10/75
67	0067	ED	04/10/75
68	0068	ED	05/10/75
69	0069	ED	06/10/75
70	0070	ED	07/10/75
71	0071	ED	08/10/75
72	0072	ED	09/10/75
73	0073	ED	10/10/75
74	0074	ED	11/10/75
75	0075	ED	12/10/75
76	0076	ED	01/10/76
77	0077	ED	02/10/76
78	0078	ED	03/10/76
79	0079	ED	04/10/76
80	0080	ED	05/10/76
81	0081	ED	06/10/76
82	0082	ED	07/10/76
83	0083	ED	08/10/76
84	0084	ED	09/10/76
85	0085	ED	10/10/76
86	0086	ED	11/10/76
87	0087	ED	12/10/76
88	0088	ED	01/10/77
89	0089	ED	02/10/77
90	0090	ED	03/10/77
91	0091	ED	04/10/77
92	0092	ED	05/10/77
93	0093	ED	06/10/77
94	0094	ED	07/10/77
95	0095	ED	08/10/77
96	0096	ED	09/10/77
97	0097	ED	10/10/77
98	0098	ED	11/10/77
99	0099	ED	12/10/77
100	0100	ED	01/10/78

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

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REV. 11 8-8

REVISIONS	REV.
CHANGE NO.	
CHK	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED		DRN. <i>J. Jones</i> DATE <i>3/25/69</i>	
UNLESS OTHERWISE SPECIFIED		CHK'D. <i>J. Jones</i> DATE <i>4/3/69</i>	
DIMENSION IN INCHES		ENG. <i>J. Jones</i> DATE <i>4/10/69</i>	
TOLERANCES		PROD. ENG. <i>W. Smith</i> DATE <i>4/10/69</i>	
DECIMALS FRACTIONS ANGLES		PROD. DATE	
± .005 ± 1/64 ± 0°30'		TITLE	
FINAL SURFACE QUALITY		DISK ASSY	
REMOVE BURRS AND BREAK SHARP CORNERS		RS08-M	
MATERIAL		FIRST USED ON	
FINISH		SCALE	
		SHEET 2 OF 2	
		SIZE CODE NUMBER REV.	
		DUARS08-M-0 C	
		DIST.	

REV. C
 NUMBER DUARS08-M-0
 SIZE CODE

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

DESIGNED BY G. FLANDERS
DATE 3/25/69
CHECKED D. HEALY
DATE 3/26/69
PROD *[Signature]*
DATE 4/10/69
ISSUED SECT. 1

EM NO.	DWG NO. / PART NO.	DESCRIPTION
1	3005981	DISK
2	D-IA-7406866-1-0	MOTOR & HUB ASSY (60HZ)
3	D-IA-7406866-2-0	MOTOR & HUB ASSY (50HZ)
4	B-MD-7407023-0-0	GASKET, FUNNEL
5	B-MD-7406999-0-0	BUMPER, DISK
6	E-IA-7407058-0-0	DECK
7	E-IA-7407008-0-0	DECK MOUNTING, BOTTOM
8	D-IA-7407024-0-0	FUNNEL
9	C-MD-740704-0-0	CAP, DISK
10	1209317	SHOCK MT 156-PHLW-13 (LORD)
11	D-AD-7006197-0-0	HARNESS TIMING TRACK
12	D-IA-7006221-0-0	DATA HEAD HARNESS
13	D-AD-7006147-0-0	COVER ASSY
14	C-AD-7005745-0-0	HEAD SHOE ASSY
15	9007909	SCR SOC HD #6-32 x 1 3/4
16	9007955	SCR SOC HD #8-32 x 1 1/2
17	9006024-1	SCR PH HD PAN #6-32 x 1/2
18	9006332	SCR SOC HD #6-32 x 3/4
19	9006347	SCR SOC HD #10-32 x 5/8
20	9006021-2	SCR FLAT HD #6-32 x 5/16
21	9006029-1	SCR PH HD PAN #6-32 x 1 1/4
22	9006990	GND STRAP JANCO #740F-33-20

TITLE DISK ASSY RS08-M
ASSY NO. D-UA-RS08-M-Ø
SIZE CODE A PL
NUMBER RS08-M-Ø
REV. C
ECO NO. RS08M-00009

QUANTITY / VARIATION	
RS08-M (60HZ)	1
RS08-MA (50HZ)	1
	1
	1
	1
	4
	4
	1
	1
	1
	1
	1
	1
	4
	1
	1
	1
	1
	1
	17
	17
	12
	12
	16
	16
	59
	59
	4
	4
	4
	4
	4
	1
	1
	1

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

DESIGNED BY G. FLANDERS
DATE 3/25/69
CHECKED D. HEALY
DATE 3/26/69
PROD *[Signature]*
DATE 4/10/69
ISSUED SECT. 1

EM NO.	DWG NO. / PART NO.	DESCRIPTION
3	9006563	NUT KEPS #8
4	9006560	NUT KEPS #6
5	9006633	WASH INT TOOTH LOCK #6
6	9006656	WASH FLAT #6
7	9107360-ØØ	#18 GA STRD TEF INS (BLK)
8	9006781	SOLDERLESS CONN #34132 AMP INC
9	9006997	SOLDERLESS CONN#42025-1 AMP INC
30	9107305	HY SHRINK TUBING RED
31	9007031	TY WRAP #SST-1-B
2	9007906	SPLIT LOCK WASH #10
3	9007801	SPLIT LOCK WASH #6
34	9007941	TORQUE SEAL (BLUE) ORGANIC PROD
35	9009058	RTV (LOW ORGANIC) GE
36	C-MD-7408195-0-0	AIR COVER
37	9006011-1	#4-40 X .38 PH PAN HD SCREW
38	9008172	#4 WASHER
REF	E-MD-9305076-0-0	GLASS ALIGNMENT DISK
39	9006017-1	#4-40 X 1.00 PH PAN HD SCREW
40	9006557	#4-40 KEPS NUT
41	C-MD-7408858	MOTOR LOCK
42	12-10659	BRUSH ASSEMBLY
43	9006000-1	#2-56 X .25 PH PAN HD SCREW

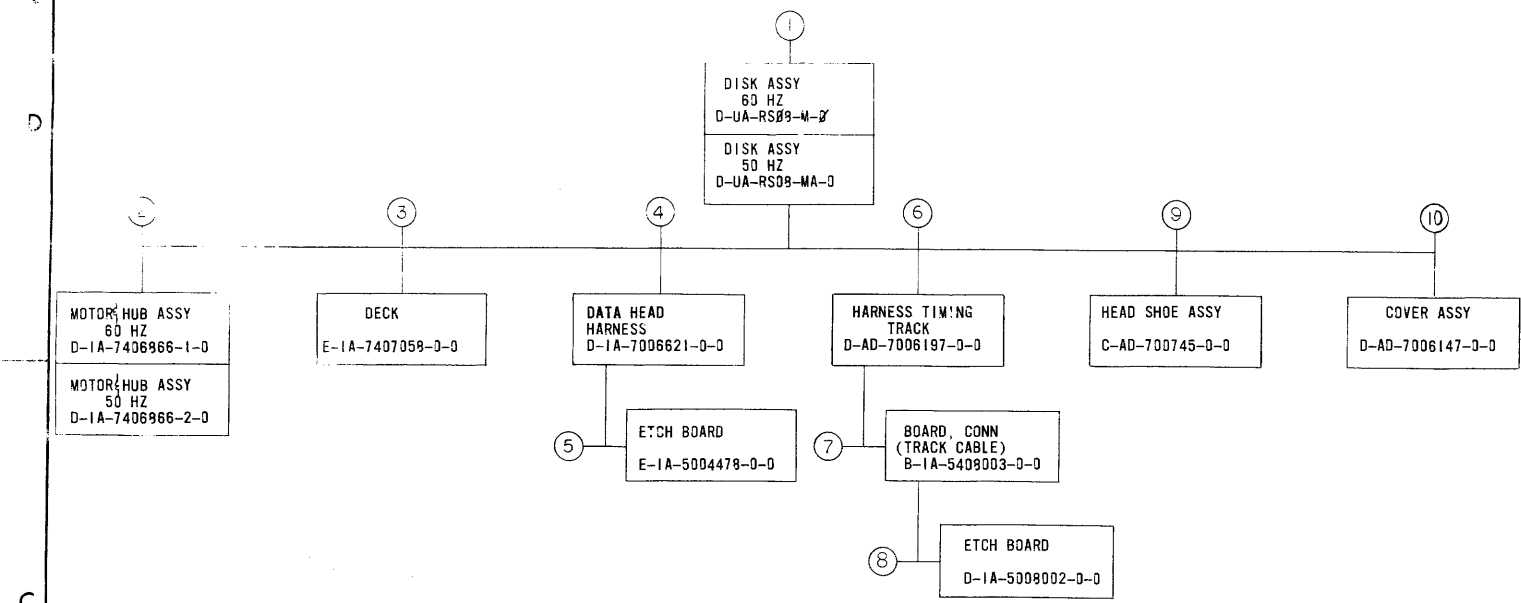
TITLE DISK ASSY RS08-M
ASSY NO. D-UA-RS08-M-Ø
SIZE CODE A PL
NUMBER RS08-M-Ø
REV. C
ECO NO. RS08M-00009

QUANTITY / VARIATION	
RS08-M (60HZ)	16
RS08-MA (50HZ)	16
	1
	1
	59
	59
	A/RA/R
	1
	1
	5
	5
	A/RA/R
	A/RA/R
	4
	4
	4
	A/R A/R
	A/R A/R
	1
	1
	1
	2
	1
	1
	1
	1
	1
	1
	2
	2

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST				QUANTITY/VARIATION																		
MADE BY G. FLANDERS		CHECKED D. HEALY		SECTION		RS08-M (60HZ)	RS08-MA (50HZ)															
DATE 3/25/69		DATE 3/26/69		ISSUED SECT.																		
ENG IRA MORRIS		PROD <i>[Signature]</i>		ISSUED SECT.																		
DATE 4/10/69		DATE 4/10/69		ISSUED SECT.																		
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																				
44	9006631	#2 INTERNAL TOOTH LOCKWASHER				2	2															
TITLE DISK ASSY RS08-M				ASSY NO. D-UA-RS08-M-Ø		SIZE CODE A PL		NUMBER RS08-M-Ø						REV. C		ECO NO.						
SHEET 3 OF 3				DIST. G																		

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

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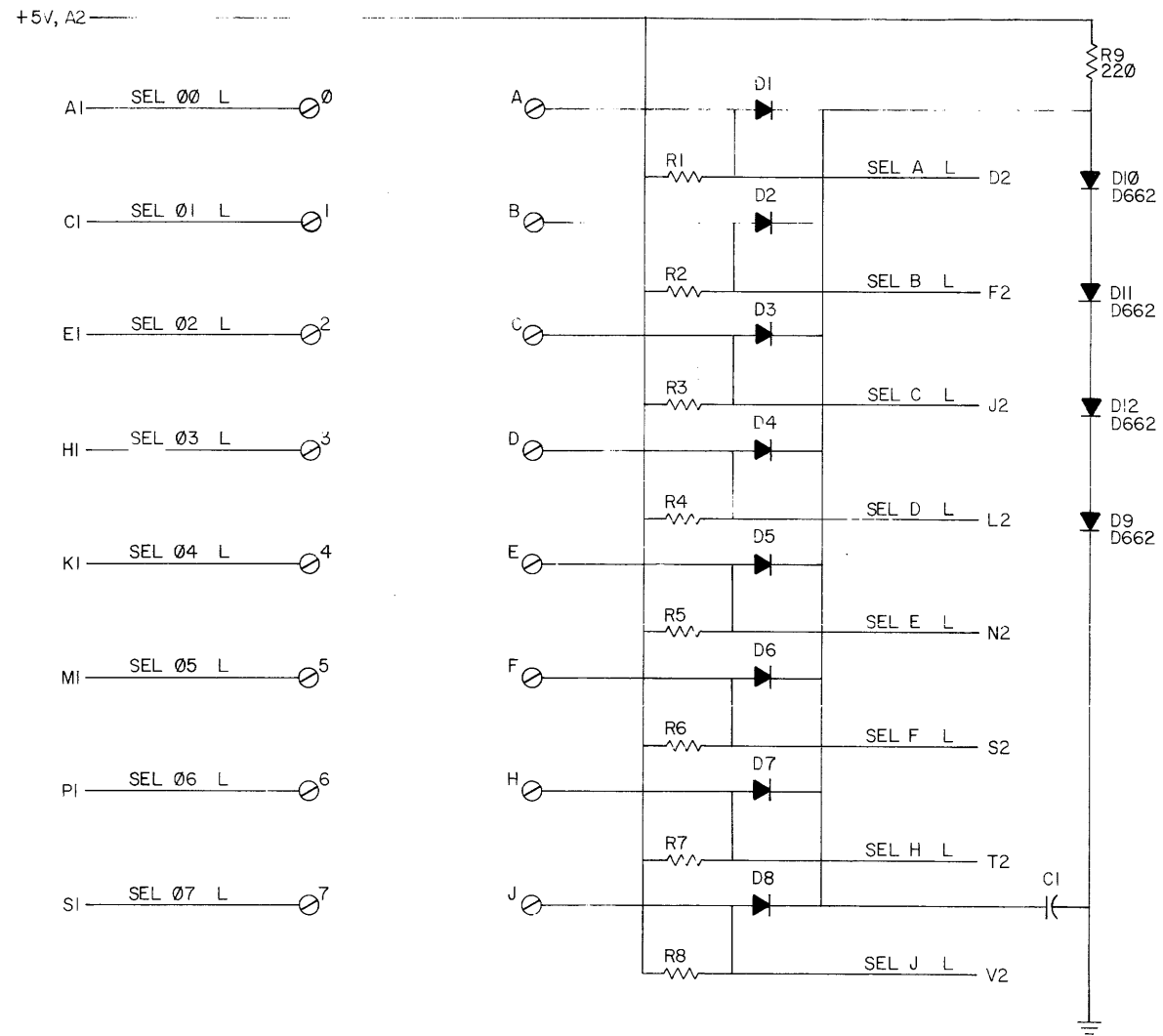
MECHANICAL				DEPT USAGE			ELECTRICAL				DEPT USAGE		
FIND NO	DESCRIPTION	PART NO	PROD	CUST	F	C	FIND NO	DESCRIPTION	PART NO	PROD	CUST	F	C
1	DISK ASSY 60 HZ DISK ASSY 50 HZ DISK ASSY (PL) GASKET, FUNNEL BUMPER, DISK DECK MOUNTING BOTTOM FUNNEL CAP, DISK GLASS ALIGNMENT DISK AIR COVER	D-UA-RS08-M-0 D-UA-RS08-MA-0 A-PL-RS08-M-0 B-MD-7404023-0-0 B-MD-7406999-0-0 E-IA-7407009-0-0 D-IA-7407024-0-0 C-MD-7407004-0-0 E-MD-9305076-0-0 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-BB-RS08-M-2 K-WL-RS08-P-WL				
2	MOTOR HUB ASSY 60 HZ MOTOR HUB ASSY 50 HZ HUB, MOTOR	D-IA-7406966-1-0 D-IA-7406966-2-0 C-MD-7407002-0-0					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-IA-7407059-0-0 B-MD-7407029-0-0					REF	RS08 / RS08 CABLE ARRANGEMENT	D-IC-RS08-0-3				
4	DATA HEAD HARNESS RECP, 18 PIN DATA HEAD HARNESS PACKAGING INSTR. RS08 CABLE HARNESS PACK	D-IA-7006621-0-0 B-MD-5508250-0-0 A-PI-3700029-0-0											
5	ETCH BOARD PRINTED CIRCUIT	E-IA-5004478-0-0 PC-5004478											
6	HARNESS TIMING TRACK HARNESS TIMING TRACK (PL)	D-AD-7006197-0-0 A-PL-7006197-0-0											
7	BOARD, CONN (TRACK CABLE) 18 PIN RECP, (TIMING TRACK HARNESS)	B-IA-5408003-0-0 B-MD-5508273-0-0											
8	ETCH BOARD P.C. ETCH PATTERN	D-IA-5008002-0-0 PC-5408003											
9	HEAD SHOE ASSY HEAD SHOE ASSY (PL) RS08-M READ-WRITE HEAD	C-AD-700745-0-0 A-PL-700745-0-0 A-PI-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-IA-7407001-0-0 C-IA-7407023-0-0 A-DC-7407205-0-0											

CHK	NO	DATE	BY
ORIGINA	002		
RS08-M	003		
RS08-M	006		
RS08-M	007		
RS08-M	008		
RS08-M	009		
RS08-M	010		
RS08-M	011		
RS08-M	012		
RS08-M	013		
RS08-M	014		
RS08-M	015		
RS08-M	016		
RS08-M	017		
RS08-M	018		
RS08-M	019		
RS08-M	020		

UNLESS OTHERWISE SPECIFIED	DRN. <i>A. Fludis</i>	DATE <i>3/5/69</i>
UNLESS OTHERWISE SPECIFIED	CHK'D. <i>D. Naby</i>	DATE <i>4/10/69</i>
UNLESS OTHERWISE SPECIFIED	ENG. <i>W. M. Mc...</i>	DATE <i>4/14/69</i>
UNLESS OTHERWISE SPECIFIED	PROJ. ENG. <i>W. M. Mc...</i>	DATE <i>4/15/69</i>
UNLESS OTHERWISE SPECIFIED	PROD. <i>W. M. Mc...</i>	DATE <i>4/15/69</i>
UNLESS OTHERWISE SPECIFIED	SCALE <i>1</i>	SHEET <i>1</i> OF <i>1</i>

QTY.	DESCRIPTION	PART NO.	ITEM NO.
	RS08-M		
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
TITLE DWG INDEX RS08-M			
MATERIAL A-ML-RS08-M		SIZE CODE D	NUMBER DIRS08-M-1
FINISH 1		REV. C	

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

REV. _____
 NUMBER G740-0-1
 SIZE CODE C CS

REV	CHG	NO	REV

DRN jeanne french	DATE 8/27/70
CHK'D Orway	DATE 9/22/70
ENG C. Cochran	DATE 9/22/70
PROD. L. H. ...	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	FIA
D664	IN3606		
D662	IN645		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE DISK SELECTION G740			
SIZE C	CODE CS	NUMBER G740-0-1	REV.
PRINTED CIRCUIT REV.			A

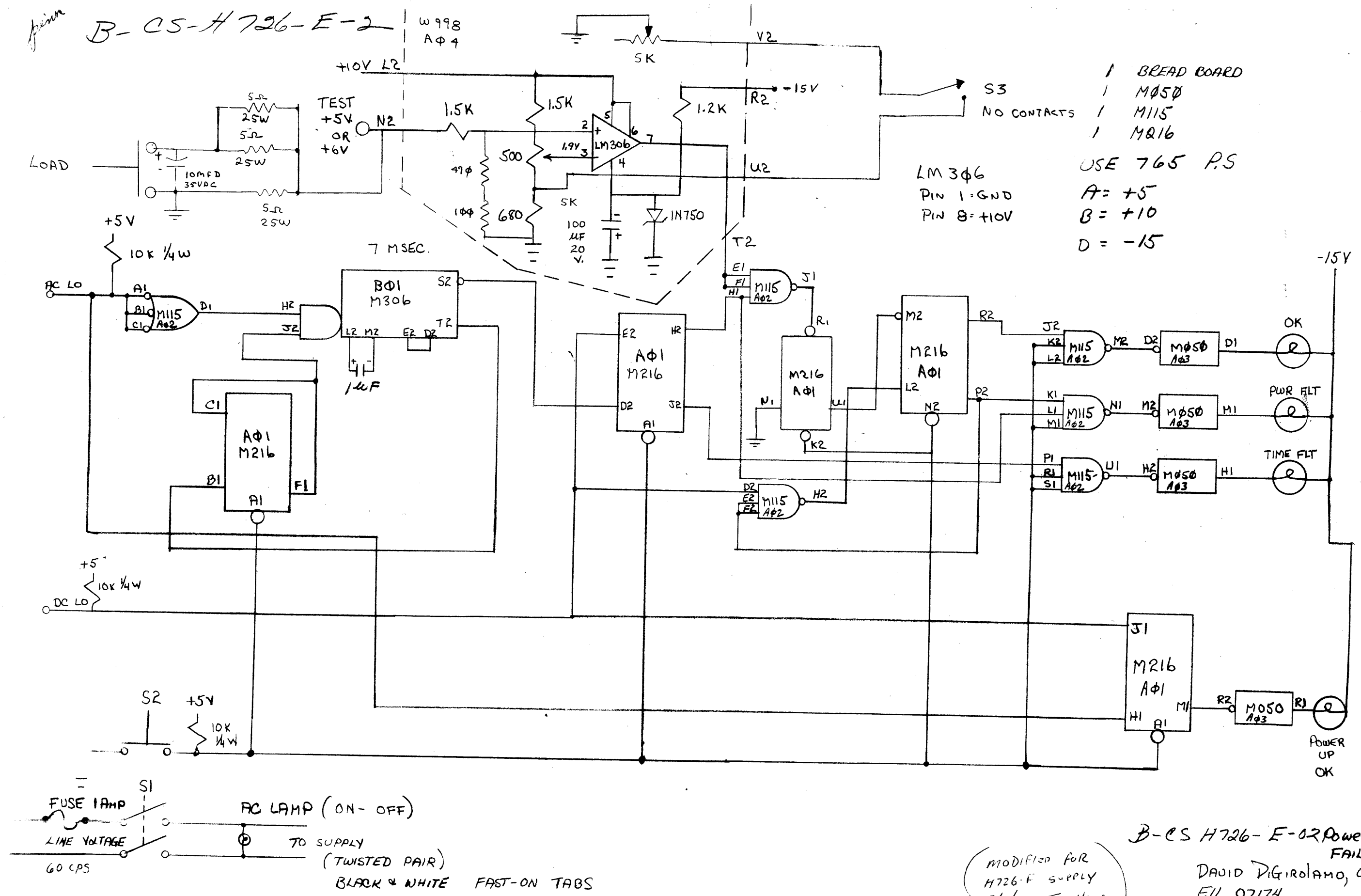
DEC FORM NO. DRC 102

DIST. 324,049,737 3 5 PINK

pin

B-CS-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
2/11/72 J. VAGAN

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

B-SP-H726-E-3

TEST PROCEDURE SHEET

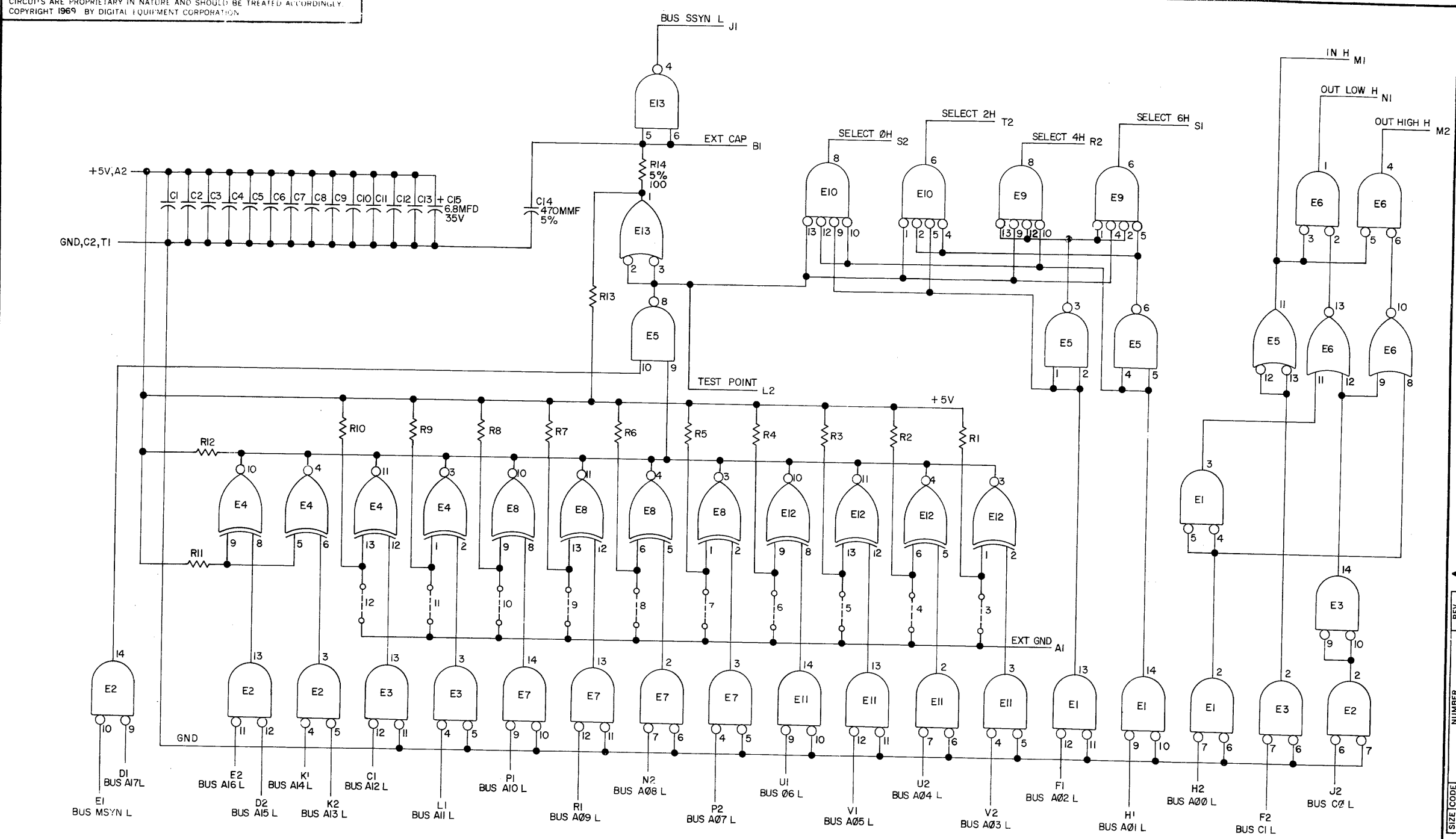
MODULE TYPE H726-E VALID FOR CIRCUIT SCHEMATIC REVISIONS ALL

SPECIAL SET-UP NOTES: PERFORM ALL TESTS WITH H726 TESTER. DISCONNECT H726 TESTER. NEED 765 P.S., SET A TO +5V, B TO +10V, AND D TO -15V. CONNECT 120V A.C. IN TO TESTER AND AC WIRES (BLACK & WHITE) TO #1 AND #2 ON SIDE OF H726-E P.S. - MAKE SURE S1 (POWER) IS OFF. CONNECT TEST +5V TO #3 AND A GROUND TO #4. CONNECT AC LO + DC LO WIRES TO AC LO #2 AND DC LO #2. CONNECT OTHER 2 GROUNDS TO AC LO #3 AND DC LO #3

PAGE 1 OF 1
 ENG: DAVE DIGIROLAMO
 DATE: 8/30/71
 REVISED: _____

TEST	SUB TITLE	S1	S2 RESET	LOAD LOAD	S3 S3	S5	S6	S7	S8	METER	SCOPE	BURST GEN	OTHER NOTES	SPECS	
														MIN	MAX
POWER DOWN		ON ↓ THEN LATER OFF	PUSH + RELEASE	PUSH + HOLD	E								AFTER TURNING S1 ON, PUSH & RELEASE S2 - TIME FLT. LITE SHOULD BE ON, WHILE HOLDING DOWN LOAD SWITCH, TURN S1 OFF, OK LITE SHOULD COME ON DISREGARD POWER UP OK LITE		
POWER UP		OFF ↓ THEN LATER ON	PUSH + RELEASE	PUSH + HOLD	E								WITH S1 OFF, PUSH & RELEASE S2, PUSH & HOLD LOAD SWITCH & THEN TURN S1 ON POWER UP OK LITE SHOULD BE ON DISREGARD PWR FLT LITE		

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:
 O---O INDICATES JUMPERS
 RESISTORS ARE 1K, 1/4W, 5%
 CAPACITORS ARE 0.1MFD, 100V, 20%
 E1, E2, E3, E7, E11 ARE DEC8380
 E4, E8, E12 ARE DEC8242
 E9, E10 ARE DEC8815
 E5 IS DEC74H00
 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, E5, E6, E8, E9, E10, E12, E13 = GND
 PIN 14 ON E4, E5, E6, E8, E9, E10, E12, E13 = +5V

REV	NO	REV	A	B
CHK	CHG	NO		
T/S	LRI		A	B
			00002	

DEC FORM NO. DRC 102

DRN	DATE
<i>D. Riley</i>	11-26-69
CHK'D	DATE
ENG.	DATE
PROD.	DATE

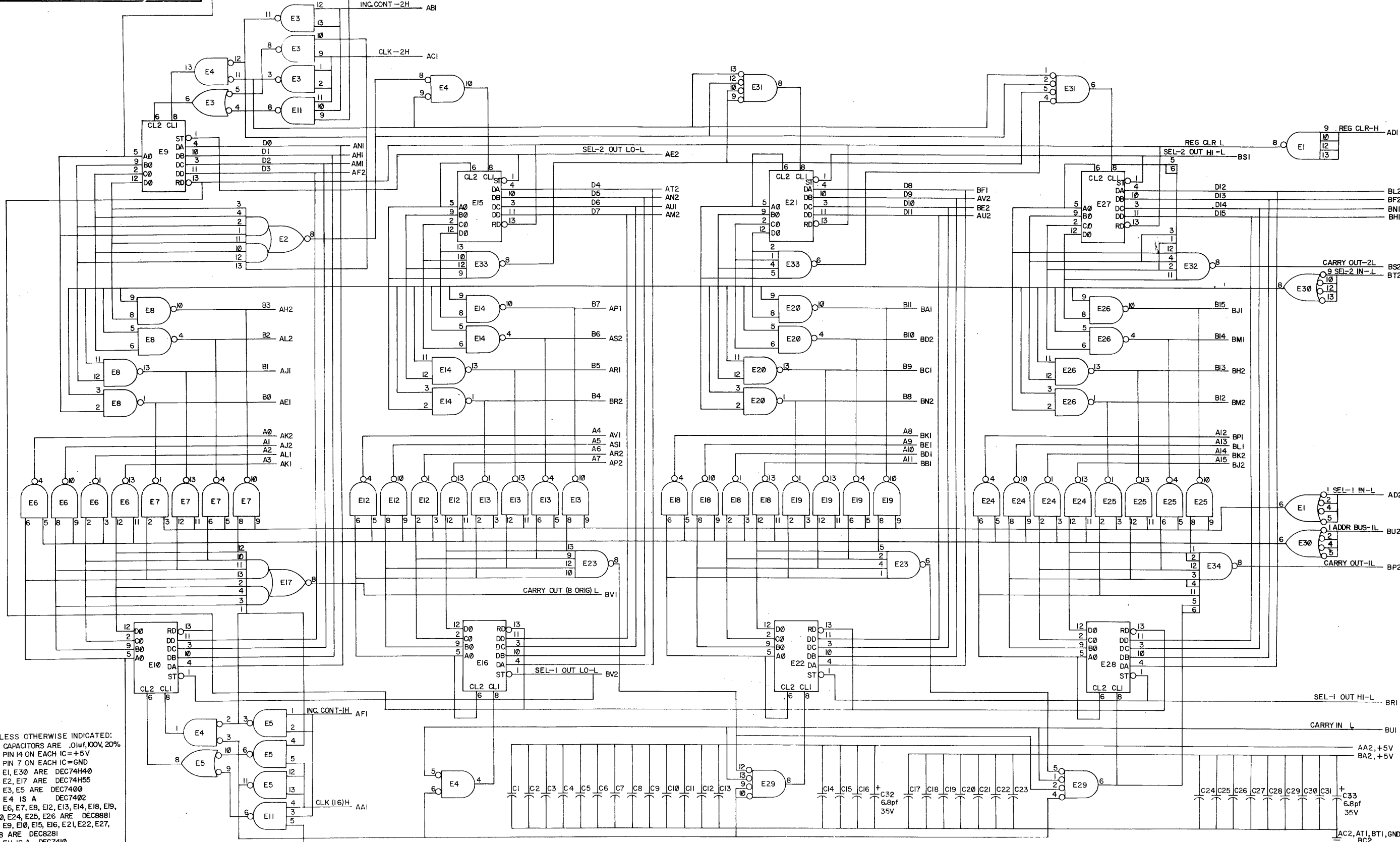
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	FIA

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE			
ADDRESS SELECTOR MIO5			
SIZE	CODE	NUMBER	REV
C	CS	MIO5-0-1	B
PRINTED CIRCUIT REV.			
C			

REV. B.
 NUMBER MIO5-0-1
 SIZE CODE C CS

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UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01uf, 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 DEC6881
 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	CHK
1	7-6-70	J. M. French	
2			
3			
4			

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
 EQUIPMENT CORPORATION
 MATHARD, MASSACHUSETTS

TITLE: WC AND CMA MODULE
 M795

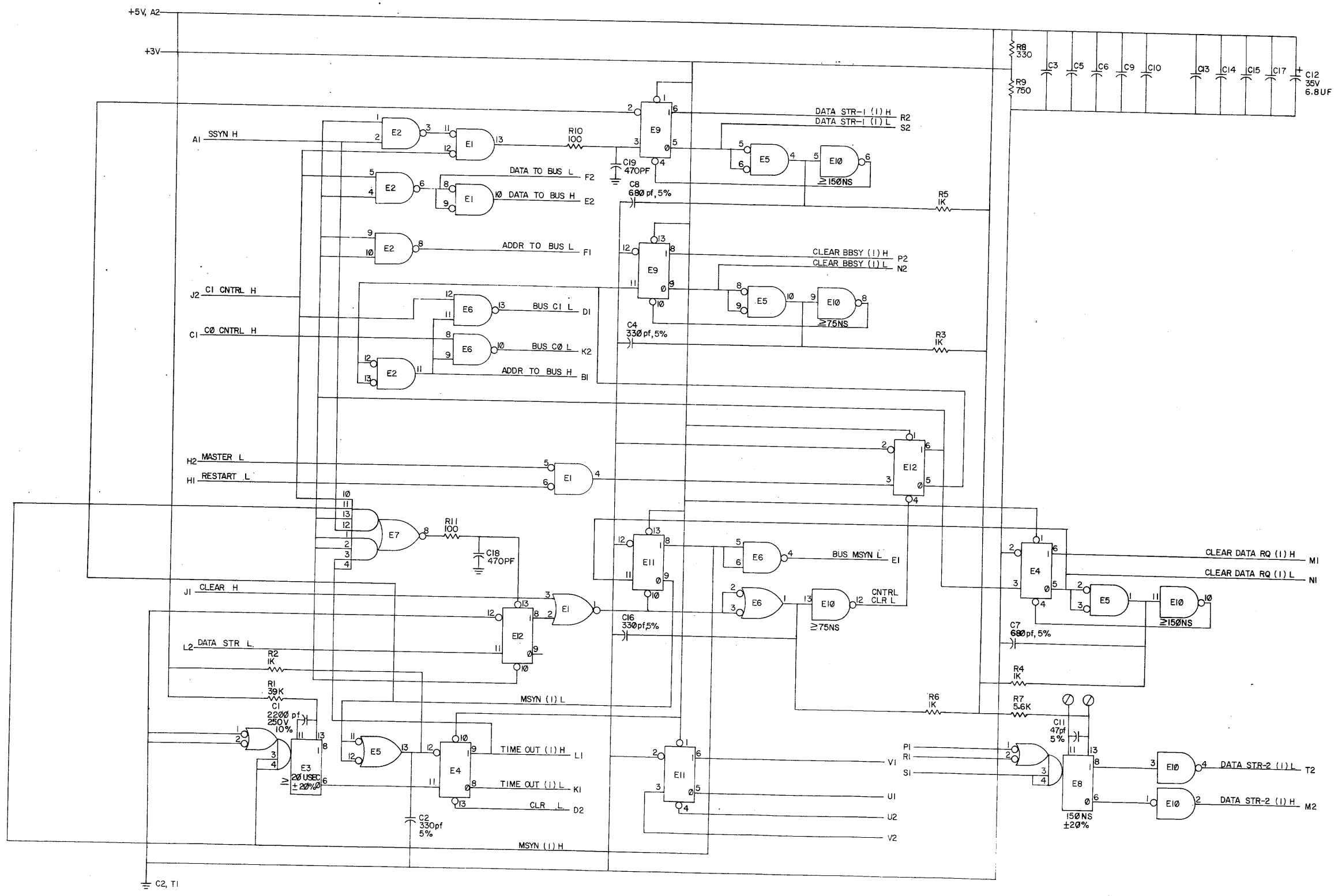
SIZE: D CS
 NUMBER: M795-0-1
 REV: B

PRINTED CIRCUIT REV: ABC

REV B
 M795-0-1

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0 1-0-962M SC D
A3M NUMBER 3000 12/15



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 DEC74H55
 E10 IS DE7404
 ⊕ = SPLIT LUGS

SIZE CODE NUMBER REV
 D CS M796-0-1 C

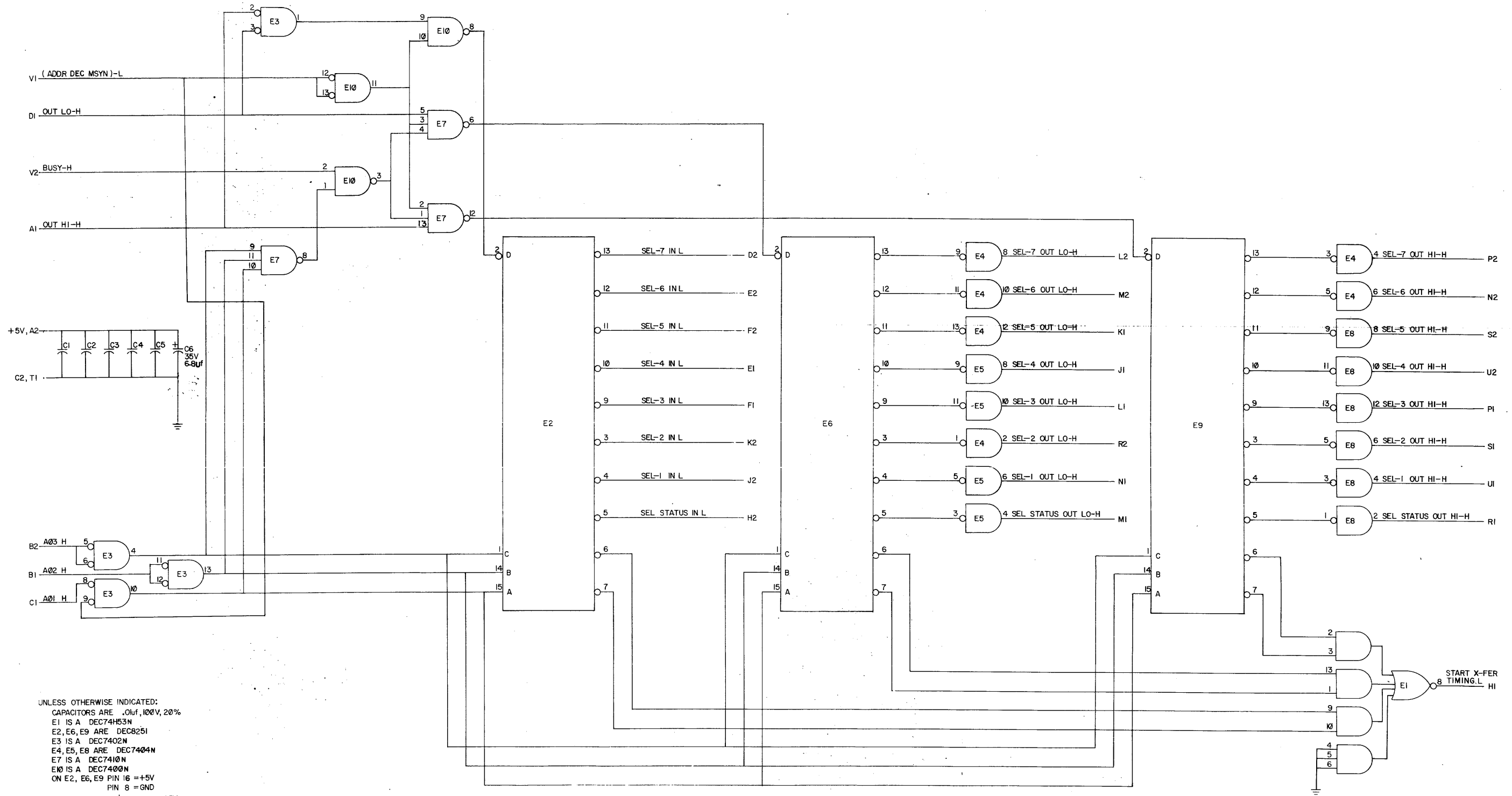
REV	DATE	BY	CHKD
1	10/29/70	JENKINS	
2	7-26-71		
3	8-21-70		

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
 EQUIPMENT
 CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE
 UNIBUS MASTER
 CONTROL M796
 SIZE CODE NUMBER
 D CS M796-0-1
 PRINTED CIRCUIT REV. C

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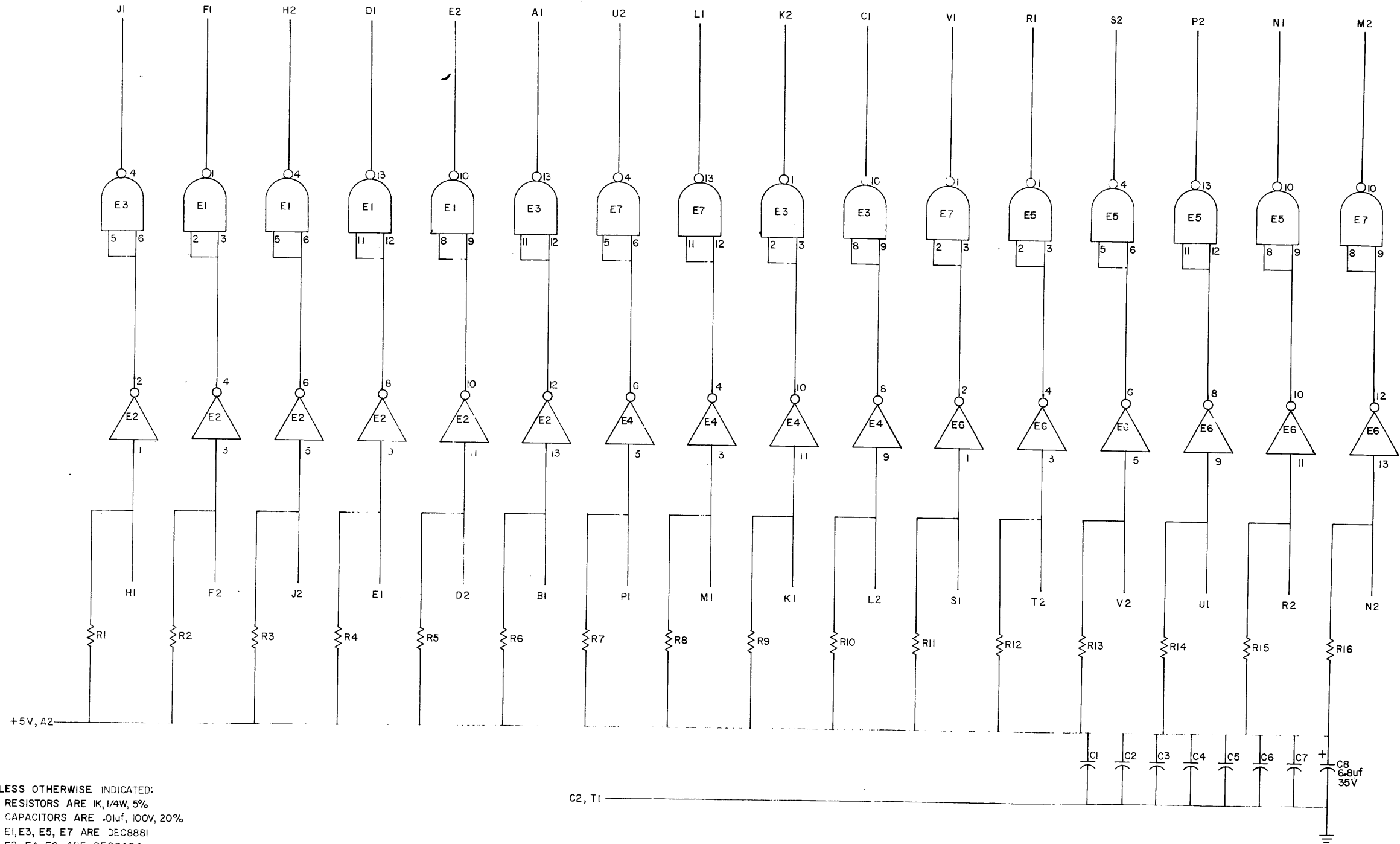


UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01uf, 100V, 20%
 E1 IS A DEC74H53N
 E2, E6, E9 ARE DEC8251
 E3 IS A DEC7402M
 E4, E5, E8 ARE DEC7404N
 E7 IS A DEC7410N
 E10 IS A DEC7400N
 ON E2, E6, E9 PIN 16 = +5V
 PIN 8 = GND
 ON ALL OTHER IC'S PIN 14 = +5V
 PIN 7 = GND

REVISIONS CHK CHG NO. REV 37 10000 J A	DATE	7/11/70	TRANSISTOR & DIODE CONVERSION CHART				TITLE REGISTER SELECT M797 MODULE
	DATE	7/22/70	DEC	EIA	DEC	EIA	
DATE	8/2/70						
DATE							
DATE							

DIGITAL EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS
 SIZE D CODE NUMBER M797-0-1 REV A
 PRINTED CIRCUIT REV. B
 DIST. 5011 424,425 B

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

REV. A
 NUMBER 0-1
 M798
 CS

REV	NO	CHG	CHK
A	00001		

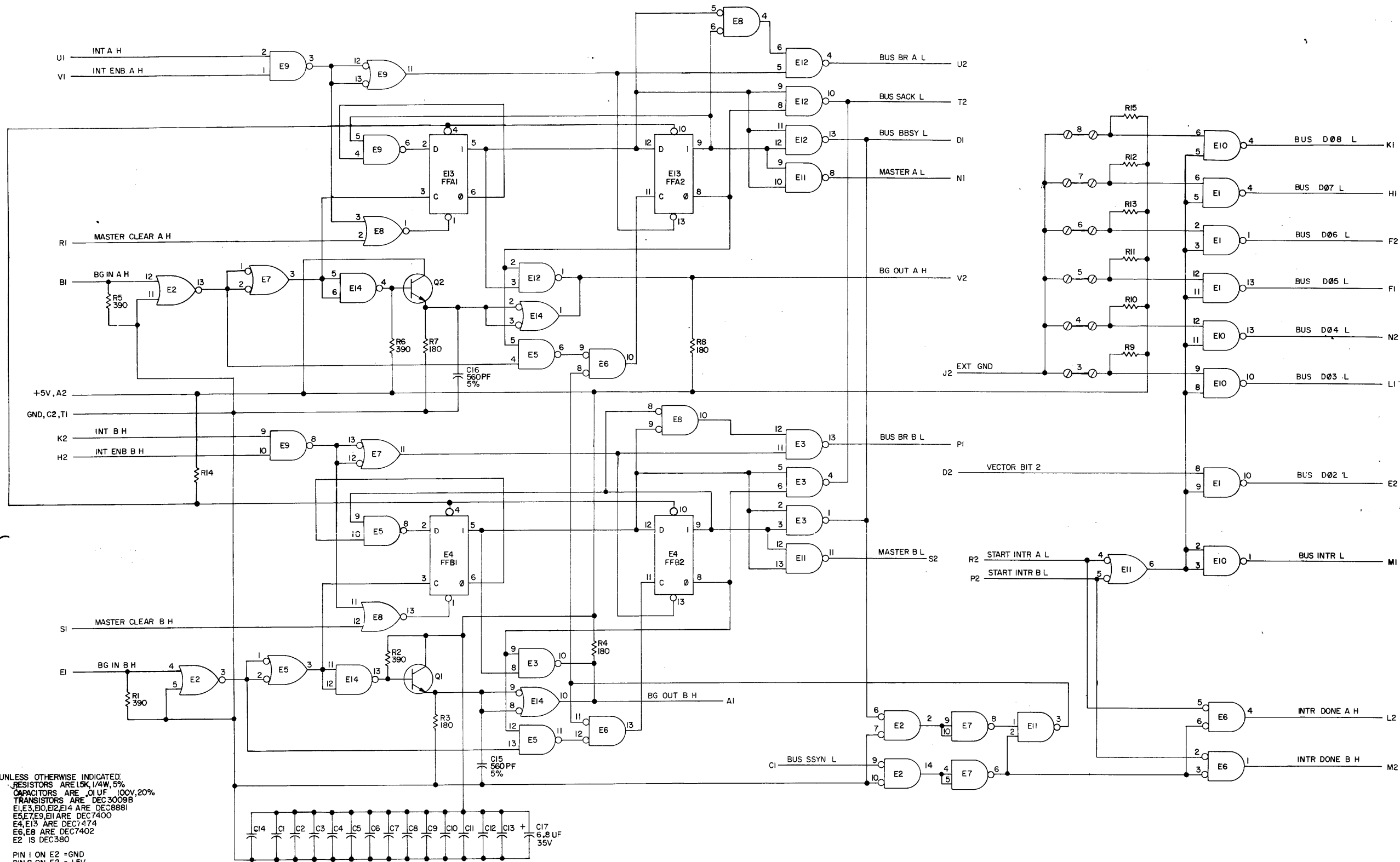
DRN	DATE	7/1/70
CHK D	DATE	7-28-70
ENG	DATE	
PROD	DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

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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 380
 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			
DATE	BY	DATE	BY
DEC 13/70	S. Cooper	DEC 30/70	W. Williams
		DEC 30/70	W. Williams

TITLE		INTERRUPT CONTROL M7820	
SIZE	CODE	NUMBER	REV
D	CS	M7820-0-1	B
EQUIPMENT CORPORATION		PRINTED CIRCUIT REV	
MAYNARD, MASSACHUSETTS		B C	

REV B M7820-0-1

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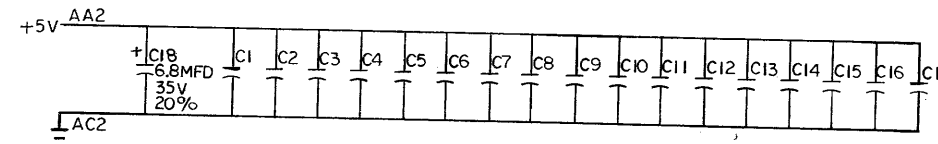
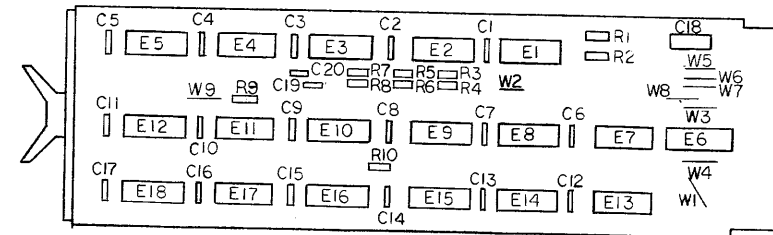
ITEM NO.	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	E12, E18	I.C. DEC 7474	1905547	2
2	E4, E7, E17	I.C. DEC 7400	1905575	3
3	E6, E13, E14	I.C. DEC 7402	1909004	3
4	E1, E11	I.C. DEC 380	1909485	2
5	E5	I.C. DEC 74H74	1909667	1
6	E2, E8, E9, E15, E16	I.C. DEC 8881	1909705	5
7	E3	I.C. DEC 74H04	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	1
11	C1 THRU C17	CAP, .01 MFD, 100V, 20% DISC	1001610	17
12	R7, R8	RES, 47 Ω , 1/4W, 5%	1300202	2
13	R1, R2	RES, 390 Ω , 1/4W, 5%	1300309	2
14	R4, R10	RES, 180 Ω , 1/4W, 5%	1301322	2
15	R3, R5, R6, R9	RES, 1k Ω , 1/4W, 5%	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 EXCEPTIONS 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 .01 MFD.

COMPONENT PLACEMENT

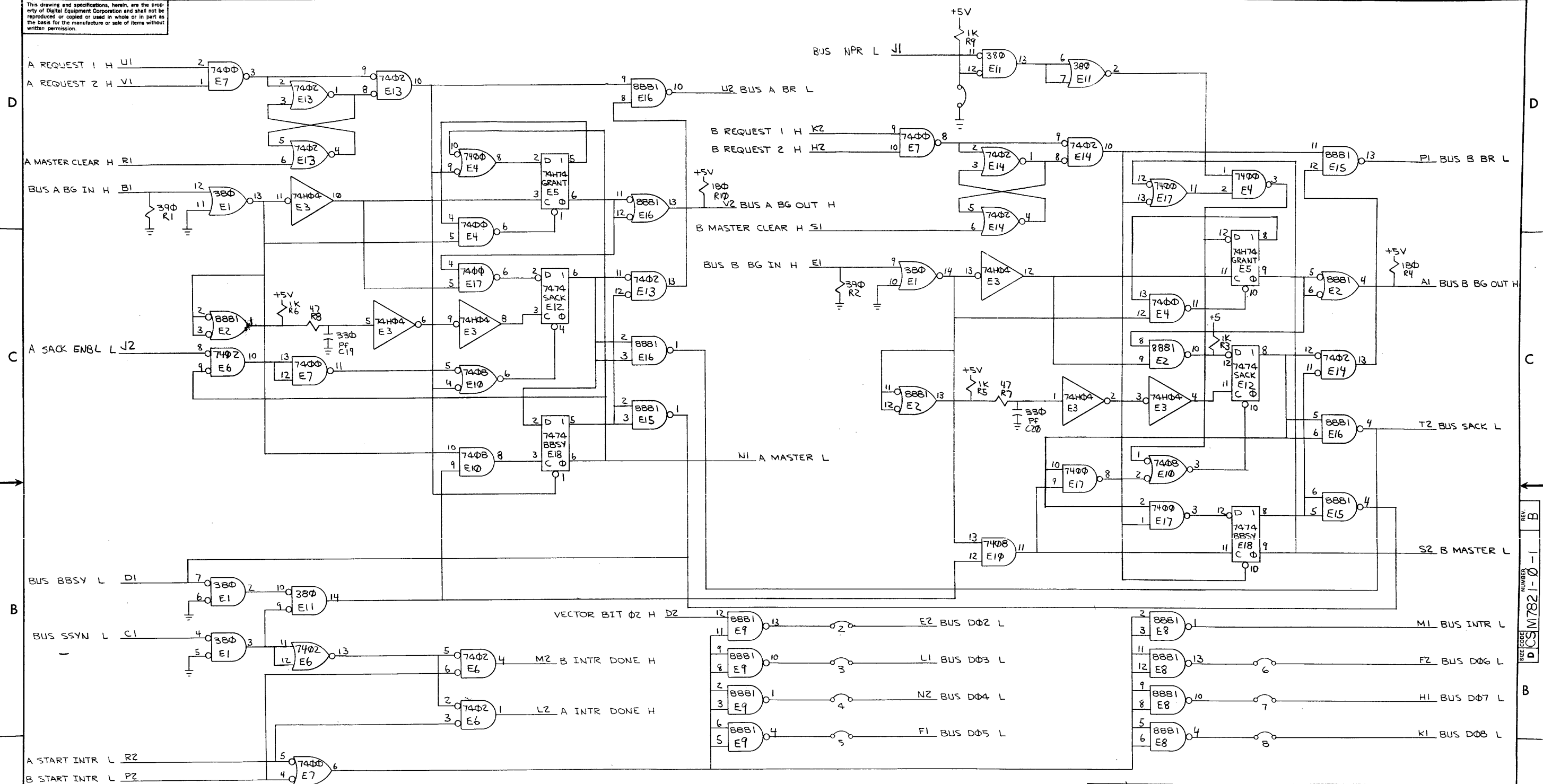


REV	CHANGE NO	DATE
B	M7821-0001	4-13-72
A	S. ROTHMAN	

DATE USED ON OPT/MOD 11/20	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	TITLE	
DIMENSION IN INCHES			INTERRUPT CONTROL M7821	
TOLERANCES	ENG	DATE	SIZE CODE NUMBER	
DECIMALS FRACTIONS ANGLES			DCS M7821-0-1	
= .005 = .004 = 0°30'	PROJ. ENG.	DATE	REV.	
FINAL SURFACE QUALITY			B	
REMOVE BURRS AND BREAK SHARP CORNERS	PROD.	DATE	SHEET 1 OF 2	
MATERIAL	NEXT HIGHER ASSY			
FINISH	SCALE			

REV B
NUMBER
DCS M7821-0-1

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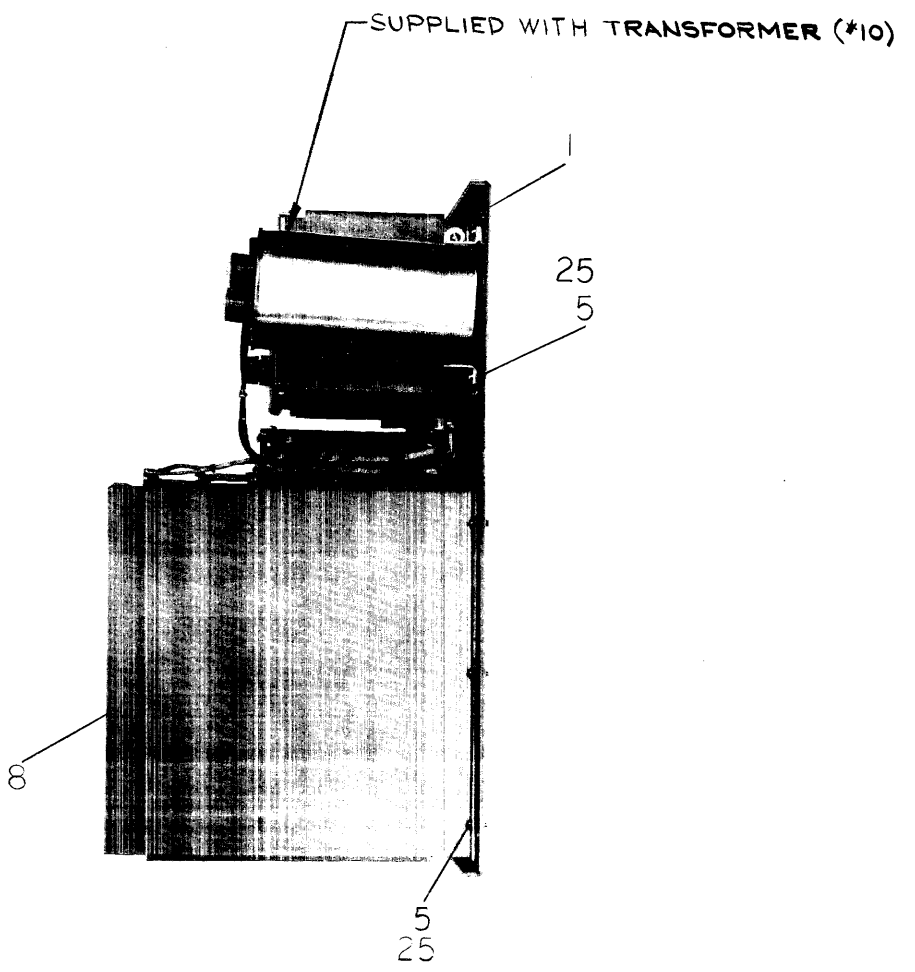
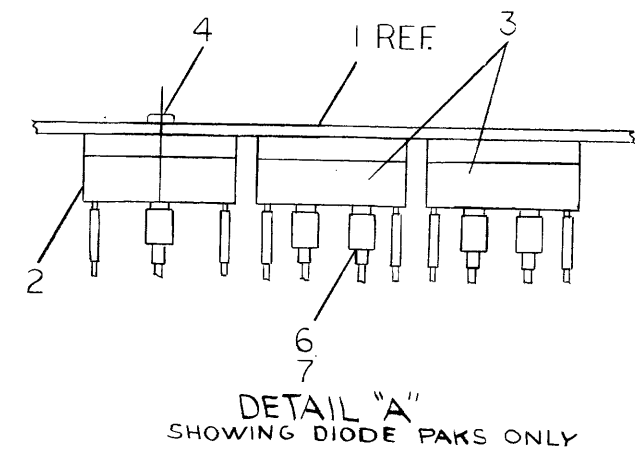
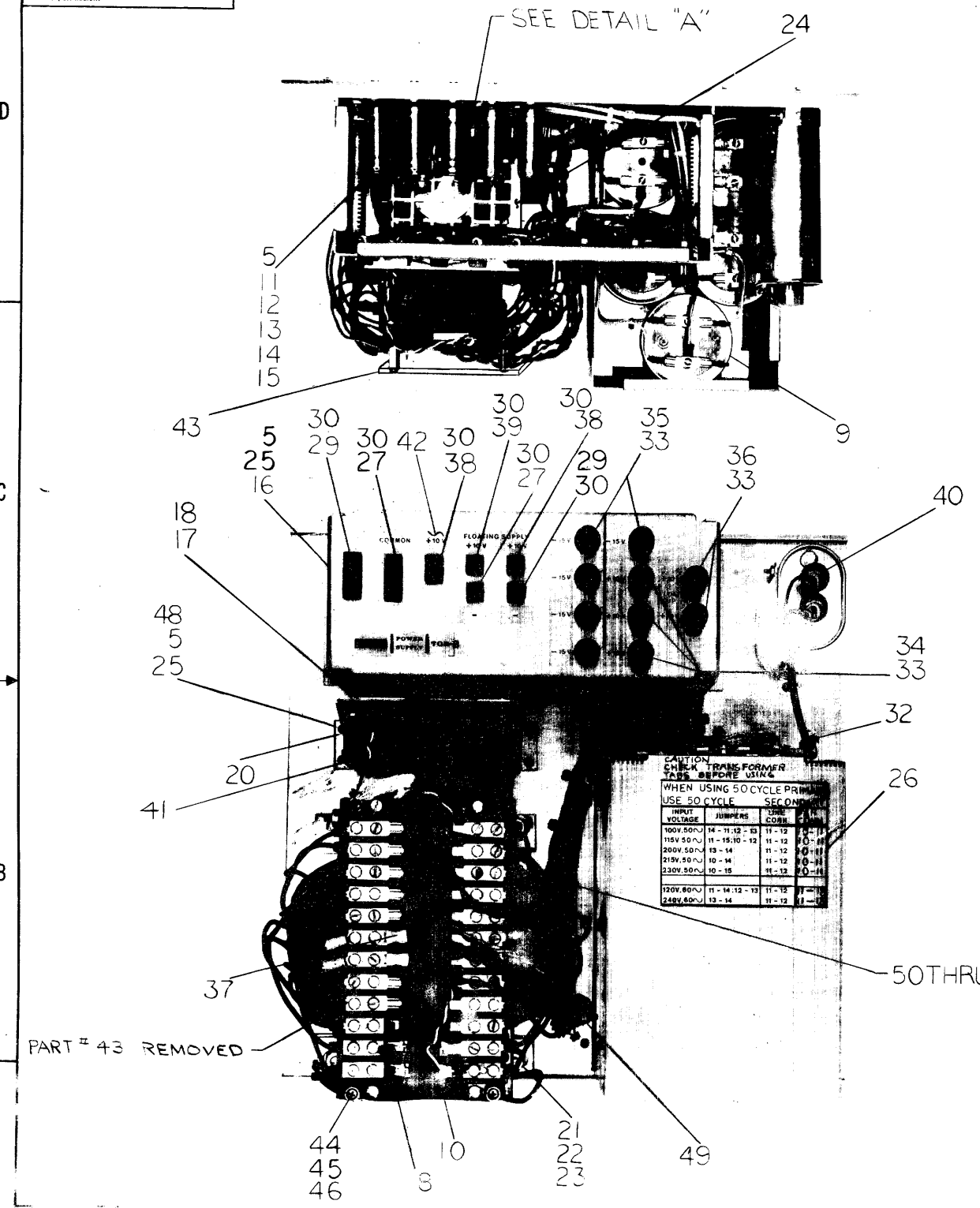


QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV B				
DRN. <i>Thom Cyprian</i> DATE 20-Sep-71 CHK'D. DATE ENG. DATE 8-29-71 PROJ. ENGR. DATE 8-25-71 PROD. DATE		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE INTERRUPT CONTROL M7821 SIZE CODE NUMBER REV. DCS M7821-0-1 B		
ORIGINATED CHANGE NO. REVISIONS		NEXT HIGHER ASSY DEC. NO. EIA NO. DEC. NO. EIA NO. SCALE SHEET 2 OF 2		
SEMICONDUCTOR CONVERSION CHART				

REV. B
NUMBER
DCS M7821-0-1

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- 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.



CAUTION
CHECK TRANSFORMER
TAPS BEFORE USING
WHEN USING 50 CYCLE PRIMARY
USE 50 CYCLE SECONDARY

INPUT VOLTAGE	JUMPERS	SECONDARY
100V. 50Hz	34 - 11, 12 - 13	11 - 12
115V. 50Hz	11 - 12, 10 - 12	11 - 12
200V. 50Hz	13 - 14	11 - 12
215V. 50Hz	10 - 14	11 - 12
230V. 50Hz	10 - 15	11 - 12
120V. 60Hz	11 - 14, 12 - 13	11 - 12
240V. 60Hz	13 - 14	11 - 12

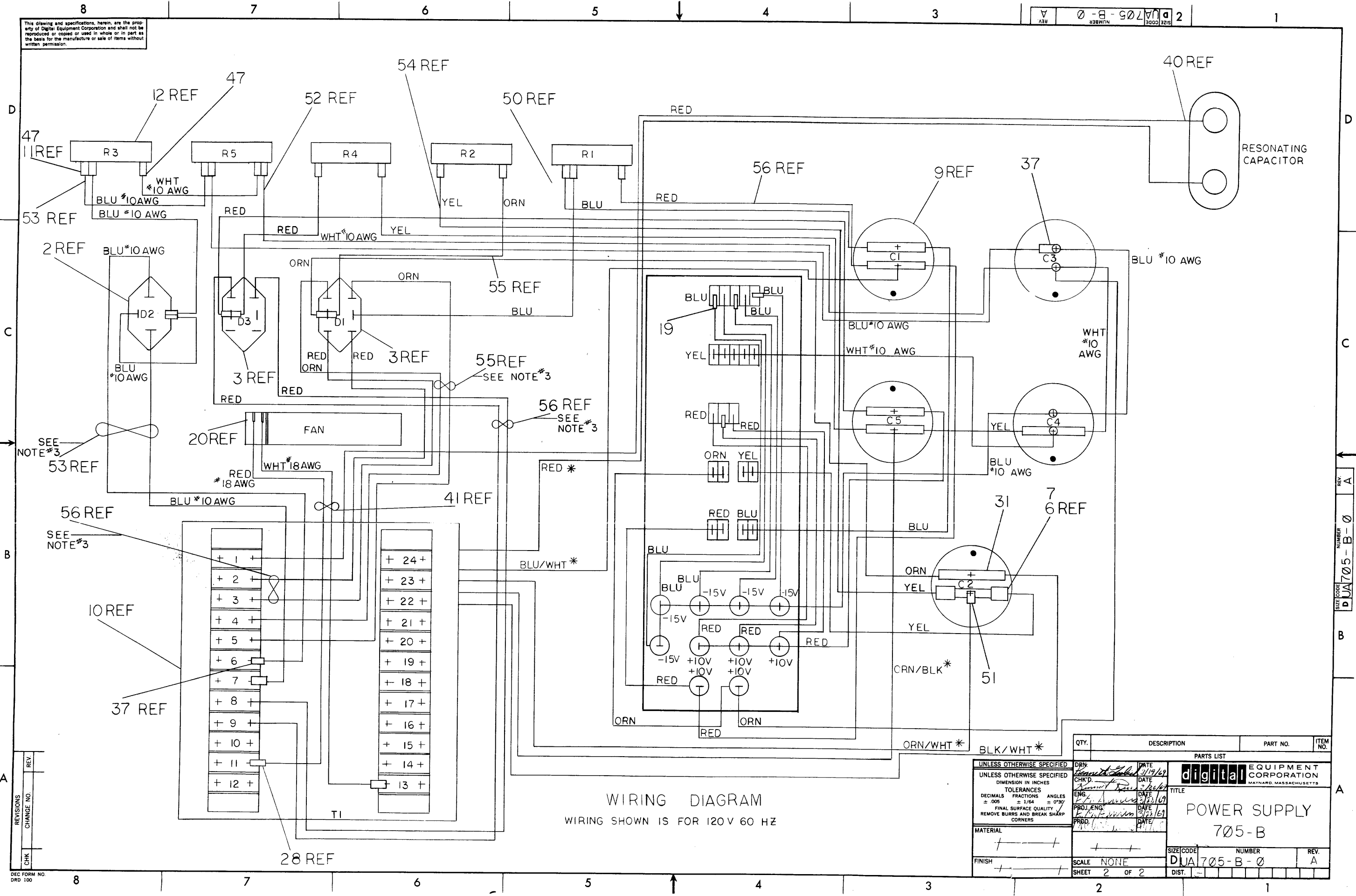
REVISIONS

CHK	CHANGE NO.	DATE	BY
	705B-0000		

LAWRENCE

FIRST USED ON / OPTION / MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRW	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHKD	DATE	TITLE	
DIMENSION IN INCHES		3/12/69	POWER SUPPLY	
TOLERANCES		3/26/69	705-B	
DECIMALS	FRACTIONS	ANGLES	SIZE CODE	NUMBER
± .005	± 1/64	± 0°30'	DUA	705-B-0
FINAL SURFACE QUALITY:		DATE	DIST.	REV
REMOVE BURRS AND BREAK SHARP CORNERS		3/27/69		A
MATERIAL	NEXT HIGHER ASSY			
FINISH	SCALE NONE			
	SHEET	OF		
	1	2		

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WIRING DIAGRAM
WIRING SHOWN IS FOR 120V 60 HZ

REV.	CHANGE NO.

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			
DRY		DATE 3/19/69	digital CORPORATION <small>MAYNARD, MASSACHUSETTS</small>
CHK'D.	DATE	TITLE	
ENG.	DATE		
PROJ. ENG.	DATE		
POWER SUPPLY			
705-B			
MATERIAL		SIZE CODE	NUMBER
FINISH		SCALE NONE	REV. A
SHEET 2 OF 2		DIST.	

REV. A
NUMBER DUA 705-B-0
REV. A

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

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

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	SIZE CODE	NUMBER	REV.	ECO NO.
REL	C-CS-705-B-1	705-B P/S CIRCUIT SCHEMATIC	A PL	705-B-0	A	705B-00001
1	E-IA-5308234-0-0	CHASSIS				
2	1105799	DM-15 DIODE PAK				
3	1102933	DM-1 DIODE PAK				
4	9006027-1	SCR PHL HD PAN #6-32 x 7/8 LG				
5	9006633	WASH INT TOOTH #6 HOLE				
6	9006997	SLDLSS CONN 42025-1 AMP				
7	9107305	HY SHRINK TUBING #14 RED				
8	D-MD-5304483-0-0	RETAINER CAPACITOR				
9	1004874	CAP 160,000 20 VDC				
10	1605802	TRANSFORMER T-65238 ACME				
11	9007925	ADAPTER #300H21A ARK-LES				
12	1300190	RESISTOR 25F25 W.L.				
13	9006033-1	SCR PHL HD PAN 6-32 x 2 1/2 LG				
14	9006674	CTR. WASH #916 CORE TYPE 2A W.L.				
15	9006829	SPACER 1/2 AF C 3/8 LG x #10 HOLE				
16	D-MD-5304499-0-0	BRACKET, TERMINAL				
17	9006024-1	SCR PHL HD PAN #6-32 x 5/8 SST				
18	9006560	NUT KEPS #6-32 SST				
19	9107253	TUBING SHRINKABLE WHT 1/4				
20	1205761	FAN BOXER/ROTRON 50/60 CPS				
21	9006568	NUT KEPS #5/16-18 SST				
TITLE						

POWER SUPPLY 705-B
ASSY NO. D-UA-705-B-0
SHEET 1 OF 3
SIZE CODE A PL
DIST. 1

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

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

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	SIZE CODE	NUMBER	REV.	ECO NO.
22	9006255	CAP SCR HEX HD 5/16-18 x 3/4 LG				
23	9007858	WASH. FLAT 11/16 O.D. x 3/8 I.D.x1/16 THK				
24	C-MD-7404881-0-0	SCREEN, FAN				
25	9006022-1	SCR PHL HD PAN #6-32 x 3/8 LG SST				
26	A-DC-5304512-0-0	CAUTION CHECK LABEL				
27	9007233	BUSHING #DC-202-1 YEL HEYMAN				
28	9006776	CONN. #31889 AMP				
29	9007232	BUSHING #DC-202-1 BLU HEYMAN				
30	9007238	SOLDER TAB #T-202-S HEYMAN				
31	9007613	ADAPTER #3000C27-1N3				
32	9007031	TIE WRAP SST-1-B PANDUIT				
33	9007242	FUSE HOLDER TYPE HKP BUSS				
34	9007218	FUSE 3AG 3 AMP S.B.				
35	9007225	FUSE 3AG 10 AMP S.B.				
36	9007224	FUSE 3AG 7 AMP S.B.				
37	9006779	SLDLSS CONN #329509 AMP				
38	9007231	BUSHING #DC-202-1 RED HEYMAN				
39	9007234	BUSHING #DC-202-1 ORN HEYMAN				
40	9006999	SLDLSS CONN #41829 AMP				
41	9107430-2	WIRE #18AWG TWP RED/WHT				
42	B-DC-5308355-0-0	DECALS POWER SUPPLY				
43	C-MD-5304458-0-0	COVER PROTECTION				
TITLE						

POWER SUPPLY 705-B
ASSY NO. D-UA-705-B-0
SHEET 2 OF 3
SIZE CODE A PL
DIST. 1

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY	K. GULICK	CHECKED	K. RUSS	SECTION	
DATE	3/12/69	DATE	3/24/69		1
ENG	<i>F.M. Amicus</i>	PROD.	<i>[Signature]</i>	ISSUED SECT.	
DATE		DATE	4/11/68		1

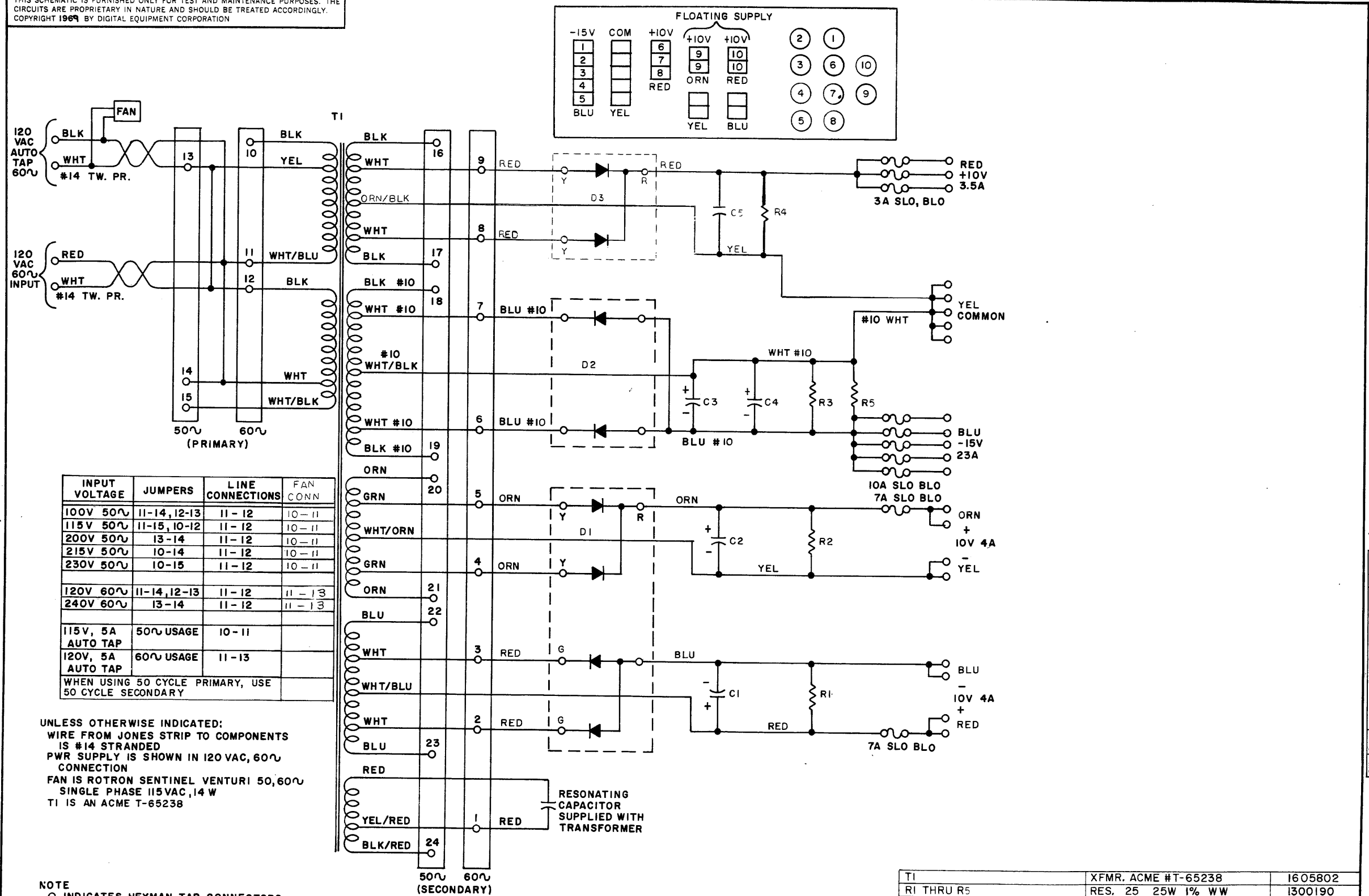
QUANTITY / VARIATION

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
44	9006634	WASH INT TOOTH #8 HOLE
45	9006045-1	SCR PHL HD PAN #8-32 x 1 1/2 LG
46	9006823	SPACER 3/8 A.F. x 3/4 LG x #8 HOLE
47	9007920	CONN #50906-7 ARK-LES
48	D-MD-5304451-0-0	FAN BRKT
49	9007032	TIE WRAP SST-2-B PANDUIT
50	9107370-7	WIRE #14 AWG STRD TEF BLU
51	9007634	CONN #362429 AMP
52	9107390-10	WIRE #10 AWG STRD TEF INS WHT
53	9107390-7	WIRE #10 AWG STRD TEF INS BLU
54	9107370-5	WIRE #14 AWG STRD TEF INS YEL
55	9107370-4	WIRE #14 AWG STRD TEF INS ORN
56	9107370-3	WIRE #14 AWG STRD TEF INS RED
57	A-PI-3700060-0-0	705B POWER SUPPLY INTERPLANT
		SHIPPING PACKAGE

4																		
4																		
4																		
8																		
1																		
A/R																		
A/R																		
A/R																		
A/R																		
A/R																		
A/R																		
A/R																		
1																		

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

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INPUT VOLTAGE	JUMPERS	LINE CONNECTIONS	FAN CONN
100V 50 \sim	11-14, 12-13	11-12	10-11
115V 50 \sim	11-15, 10-12	11-12	10-11
200V 50 \sim	13-14	11-12	10-11
215V 50 \sim	10-14	11-12	10-11
230V 50 \sim	10-15	11-12	10-11
120V 60 \sim	11-14, 12-13	11-12	11-13
240V 60 \sim	13-14	11-12	11-13
115V, 5A AUTO TAP	50 \sim USAGE	10-11	
120V, 5A AUTO TAP	60 \sim 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 \sim CONNECTION
 FAN IS ROTRON SENTINEL VENTURI 50, 60 \sim SINGLE PHASE 115VAC, 14W
 T1 IS AN ACME T-65238

NOTE
 ○ INDICATES HEYMAN TAB CONNECTORS
 ⊕ INDICATES FUSES

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

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		

REVISIONS	CHK	CHG NO.	REV.

DRN	DATE
<i>Ben...</i>	3/13/69
CHK'D	DATE
<i>R. P...</i>	3/26/69
ENGR	DATE
<i>R. P...</i>	3/23/69
PRD	DATE
<i>R. P...</i>	2/11/69

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE: **POWER SUPPLY 705-B**

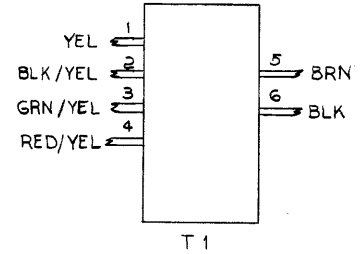
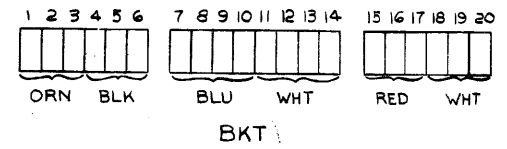
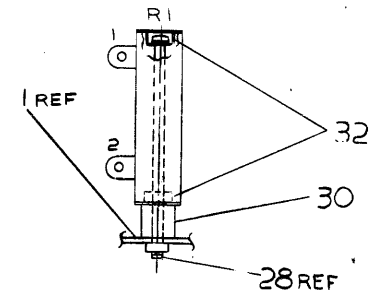
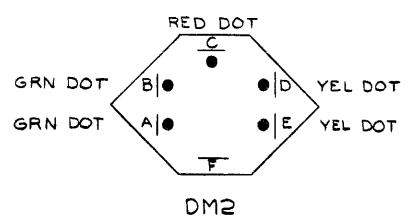
SIZE: C CODE: CS NUMBER: 705-B-1 REV.:

PRINTED CIRCUIT REV.

REV. NUMBER 705-B-1

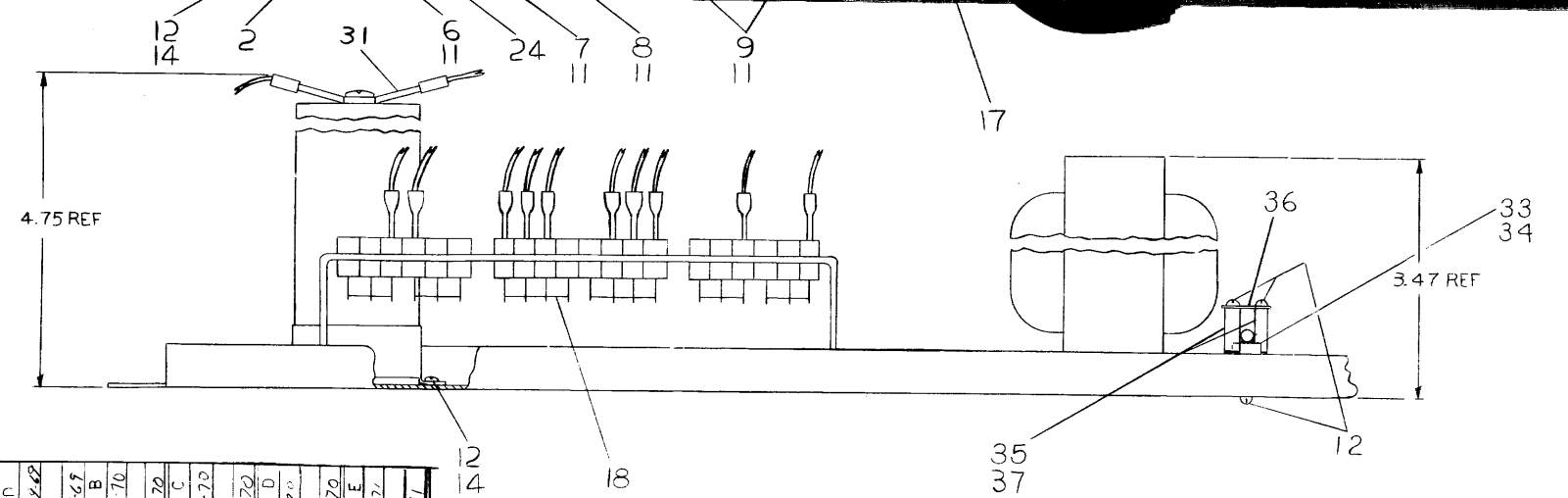
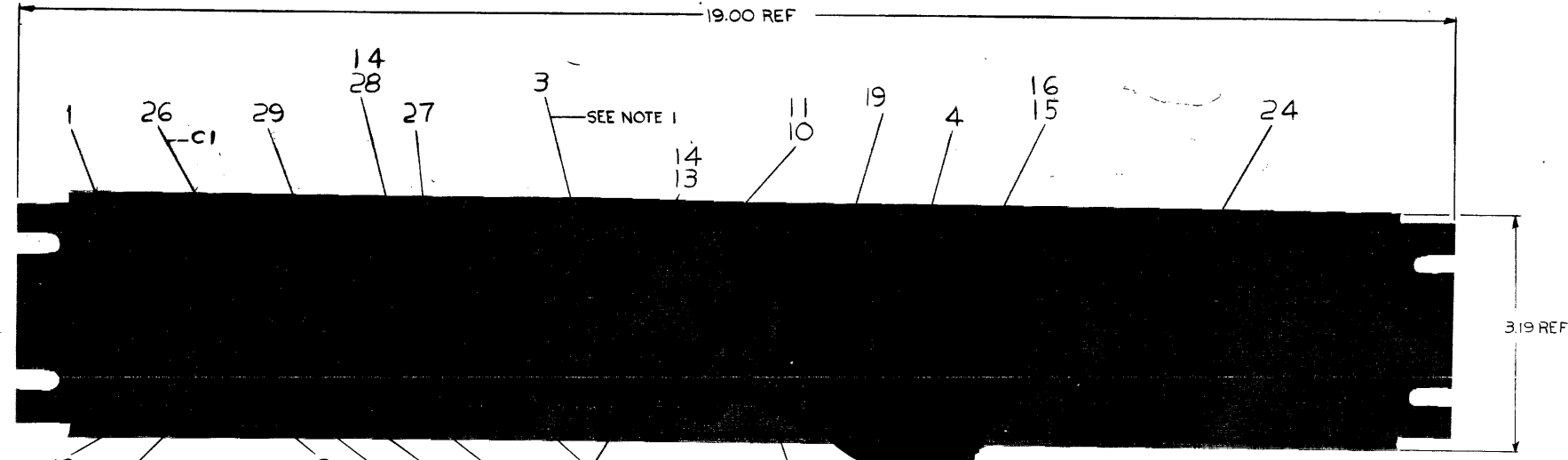
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REV 3 0-0-912 UN D 2 300 1275



WIRE TABLE						
ITEM NO	DESCRIPTION	CONNECTIONS		EQUIP FROM WITH ITEMS	EQUIP TO WITH ITEMS	REMARKS
AWG	COLOR	FROM	TO			
-	YEL	T1-1	BKT-9	-	5	
-	RED/YEL	T1-4	BKT-14	-	5	
-	BRN	T1-5	F1	-	5	
-	BLK	T1-6	BKT-17	-	5	SOLDER F1
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	T1-3	-	-	19	TIE END
-	BLK/YEL	T1-2	-	-	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.



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

REV.	CHANGE NO.	REV.
A	6-0001	REDESIGNED & REVISED
B	11-2467	REVISED
C	3-2570	REVISED
D	5-172	REVISED
E	9-270	REVISED
F	3-17-71	REVISED

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NC
RF09				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
FINISH				
DRN. ROBICHAUD		DATE 6-5-69	PARTS LIST	
CHK'D. D. HEALY		DATE 6-10-69	TITLE	
ENG. ZNAMIEROWSKI		DATE 6-10-69	INDICATOR	
PROJ. ENG. D. VONADA		DATE 6-10-69	POWER SUPPLY 716	
PROD. ANTONUCCIO		DATE 6-12-69	FIRST USED ON	
D-UA-RF09-0-0			D UA 716-0-0	
SCALE 1/1		SHEET 1 OF 1		

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

QUANTITY / VARIATION

BY ROBERT
6/5/69
S. ZNAMEROWSKI
6/10/69

CHECKED D. HEALEY
DATE 6/6/69
PROD R. ANTONIUCIO
DATE 6/12/69

SECTION 1
ISSUED SECT. 1

DWG NO. / PART NO.

DESCRIPTION

1	D-MD-5308466-0-0	PANEL, MTG 716 P.S.
2	B-MD-5308465-0-0	BRACKET MTG. TERMINAL
3	1105397	DIODE PACK DM-2
4	1309588	TRANSFORMER #F64-U TRIAD
5	9007919	CONN SOLDERLESS #50906 ARKLESS
6	9007234	BUSHING JUNC TERM ORN #DC-202-1 HEYMAN
7	9007233	BUSHING JUNC TERM BLK, #DC-202-1 HEYMAN
8	9007232	BUSHING JUNC TERM BLU, #DC-202-1 HEYMAN
9	9007231	BUSHING JUNC TERM WHT, #DC-202-1 HEYMAN
10	9007230	BUSHING JUNC TERM RED, #DC-202-1 HEYMAN
11	9007238	TERM TAB T-202-S HEYMAN
12	9006022-1	SCR PHL HD PAN #6-32 x 3/8 LG SST
13	9007794-1	SCR PHL HD PAN #6-32 x 11/16 LG SST
14	9006633	WASH INT TOOTH LOCK #6 SST
15	9006071-1	SCR PHL HD PAN #10-32 x 3/8 LG SST
16	9006635	WASH INT TOOTH LOCK #10 SST
17	9007031	TEE WRAP SST-1B PANDUIT
18	9107560-1	WIRE BUSSING #22 AWG
19	9107305-02	TUBING, SHRINKABLE, RED 3/16 D x 9/16 LG
20	9107370-99	WIRE, STRANDED #14 TEF INS WHT
21	9107370-66	WIRE, STRANDED #14 TEF INS BLU
22	9107370-33	WIRE, STRANDED #14 TEF INS ORN

TITLE		INDICATOR POWER SUPPLY 716	ASSY NO.	D-UA-716-0-0	SIZE CODE	A PL	NUMBER	716-0-0	REV.	E	ECO NO.	716-00007
SHEET		1	OF	2	DIST.							

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

QUANTITY / VARIATION

MADE BY ROBERT CHARD
DATE 6/5/69
ENGINEER S. ZNAMEROWSKI
DATE 6/10/69

CHECKED D. HEALEY
DATE 6/6/69
PROD R. ANTONIUCIO
DATE 6/12/69

SECTION 1
ISSUED SECT. 1

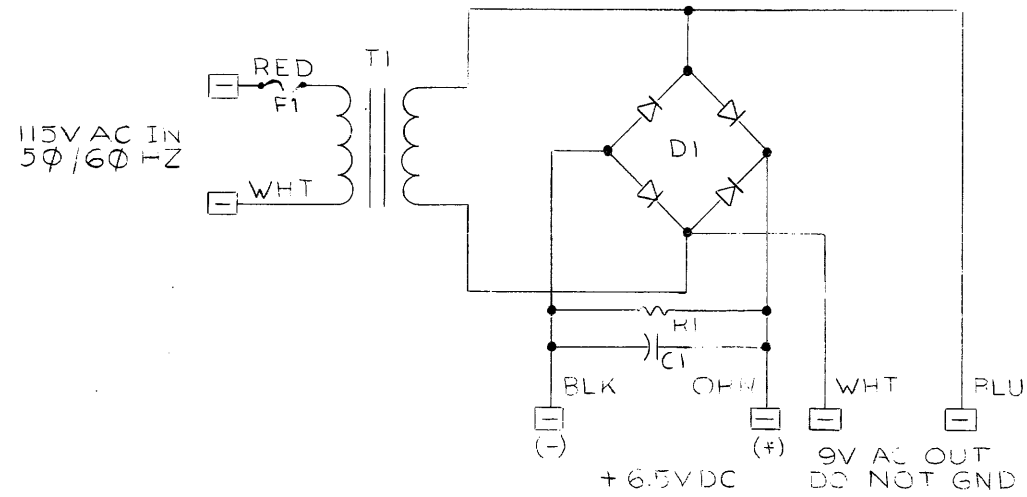
DWG NO. / PART NO.

DESCRIPTION

23	9107370-00	WIRE, STRANDED #14 TEF INS BLK
24	A-DC-5308448-0-0	DECAL, 716 POWER SUPPLY
25		THERMAL COMPOUND #340 DOW CORNING
26	1009437	CAP 18000 MFD 10V
27	1300165	RESISTOR 50hm 25W 5%
28	9006033	SCR PHL PAN HD 6-32 x 2-1/2 SST
29	9009052	CAP MOUNTING BRACKET
30	9006829	SPACER 1/2AFX x 3/8LG #10 HOLE AL
31	9007776	TAB #61349-1 AMP
32	9006674	WASH #916 CORE WARD LEONARD
33	9006996	#4405 FUSE HOLDER
34	9007209	1/2 AMP S.B. FUSE
35	9006859	THREADED STAND OFF 3/4 6-32
36	7404508	FIBER COVER PLATE
37	9006633	A6 INTERNAL LOCK WASHER
REF	C-CS-716-0-1	CIRCUIT SCHEMATIC

TITLE		INDICATOR POWER SUPPLY	ASSY NO.	D-UA-716-0-0	SIZE CODE	A PL	NUMBER	716-0-0	REV.	E	ECO NO.	
SHEET		2	OF	2	DIST.							

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F1	1/2 AMP S.P. FUSE	90072C9
R1	5ohm 25W RES	1300165
C1	18000MFD 16V DC CAP	1009437
	PARTS LIST	D-UA-716-0-0
T1	XMFR*F64-U TRIAD	1609588
D1	DIODE PACK DM-2	1105397
REF DESIGNATION	DESCRIPTION	PART NO

PARTS LIST

REVISIONS	CHK	ENG	NO.	REV.
1	71600001	A		
2	71600001	V		
3	71600001	V		
4	71600001	V		

DRN. RAIMOND	DATE 8-18-69
CHK'D HEALY	DATE 8-25-69
ENG. VONADA	DATE 7-23-69
PROD. ANTONUCCIO	DATE 7-23-69

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
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PRINTED CIRCUIT REV.

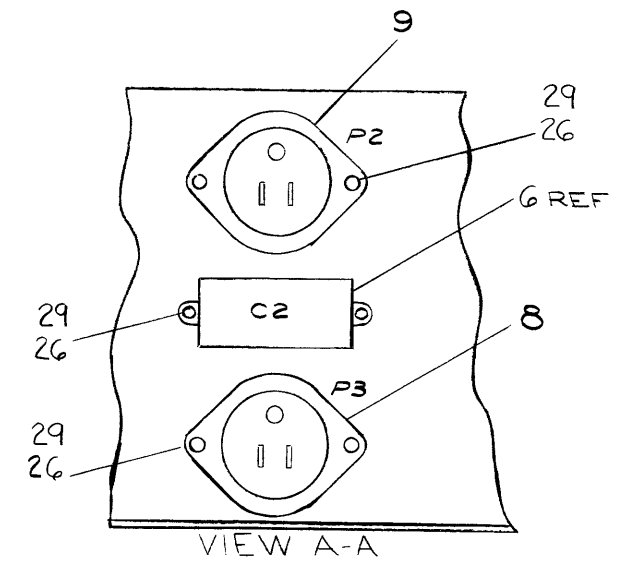
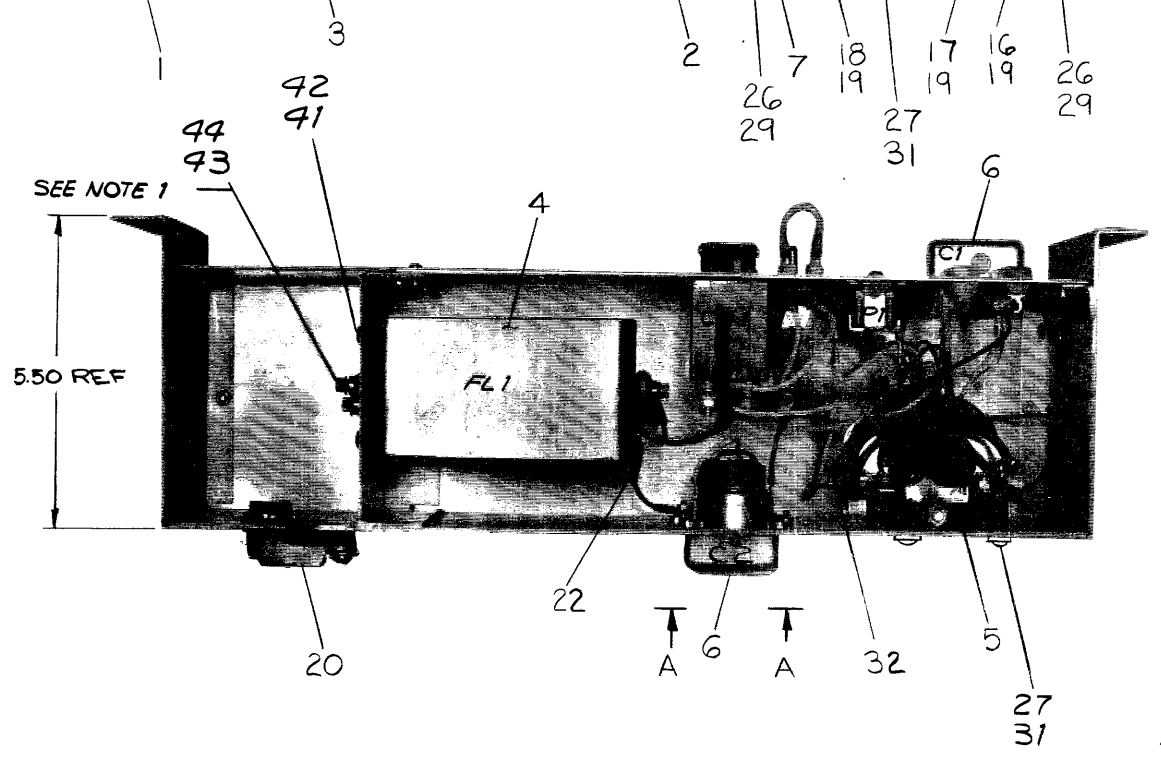
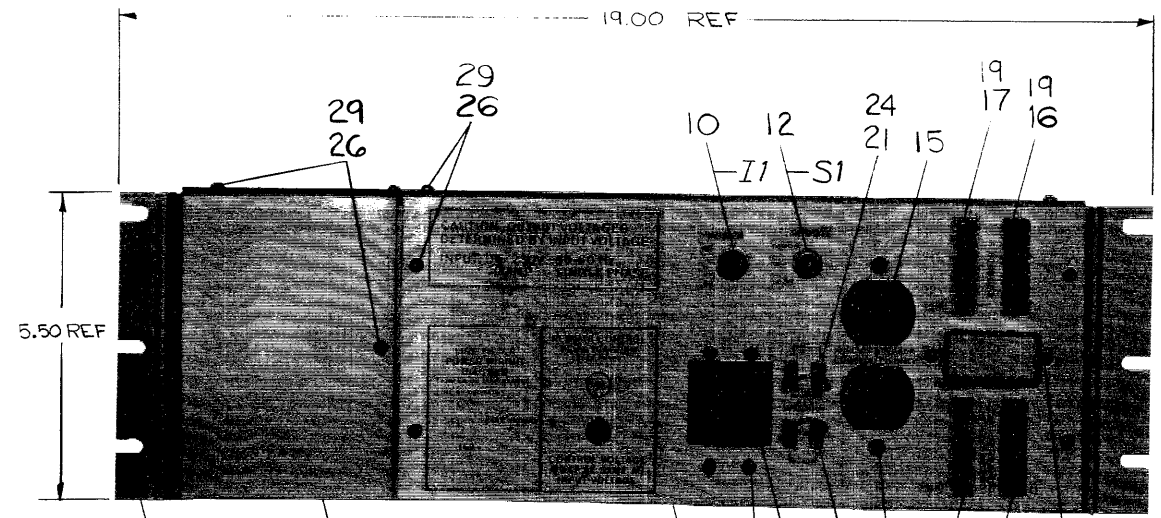
SIZE CODE NUMBER REV.
C CS 716-0-1 C

pink

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0-0-998 V D 2 1

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



REVISIONS	CHG NO.	REV.
855-00002	A	
VONAHIA		
2-4-70		

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

QUANTITY	DESCRIPTION	PART NO.	ITEM NO.
1	LINE FILTER & PWR CONT 855	D-UA-R509-0-0	A

REV. A
 NUMBER 855-0-0
 SHEET 2 OF 2

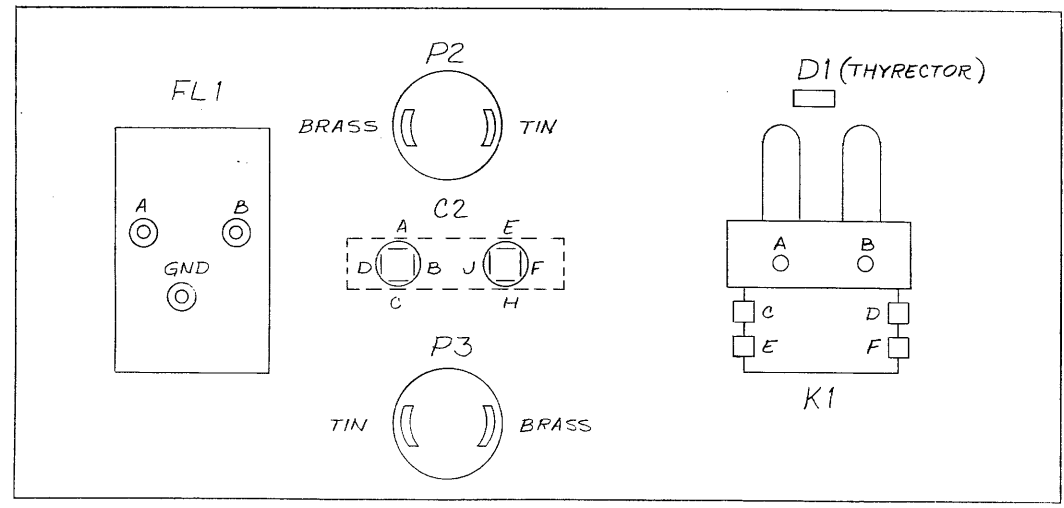
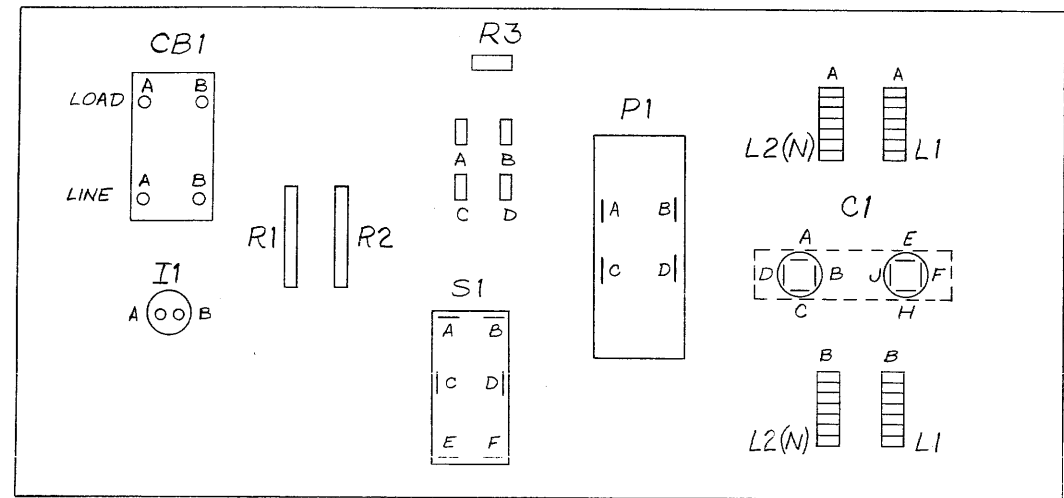
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V 133 WUN J-0-98 2 1

WIRE TABLE						
ITEM NO	DESCRIPTION	CONNECT DISE		EQUIP FROM WITH ITEMS	EQUIP TO WITH ITEMS	REMARKS
		FROM	TO			
40	#10 REL	FL1-A	CB1-LINE-B	23	23	
39	#10 WHT	FL1-B	CB1-LINE-A	23	23	
36	#14 BLK	FL1-GND	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	IA-B	115V-A	-	*A	
35	#14 WHT	S1-A	C2-D	21	21	
33	#14 RED	S1-B	C2-F	21	21	
35	#14 WHT	S1-C	115V-C	21	*A	
33	#14 RED	S1-D	K1-B	21	22	

WIRE TABLE						
ITEM NO	DESCRIPTION	CONNECT DISE		EQUIP FROM WITH ITEMS	EQUIP TO WITH ITEMS	REMARKS
		FROM	TO			
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	#14 WHT	P2-TIN	C2-A	*A	21	
35	#14 WHT	P3-TIN	C2-C	*A	21	
33	#14 RED	P3-BRASS	C2-H	*A	21	
34	#14 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(D1)
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.



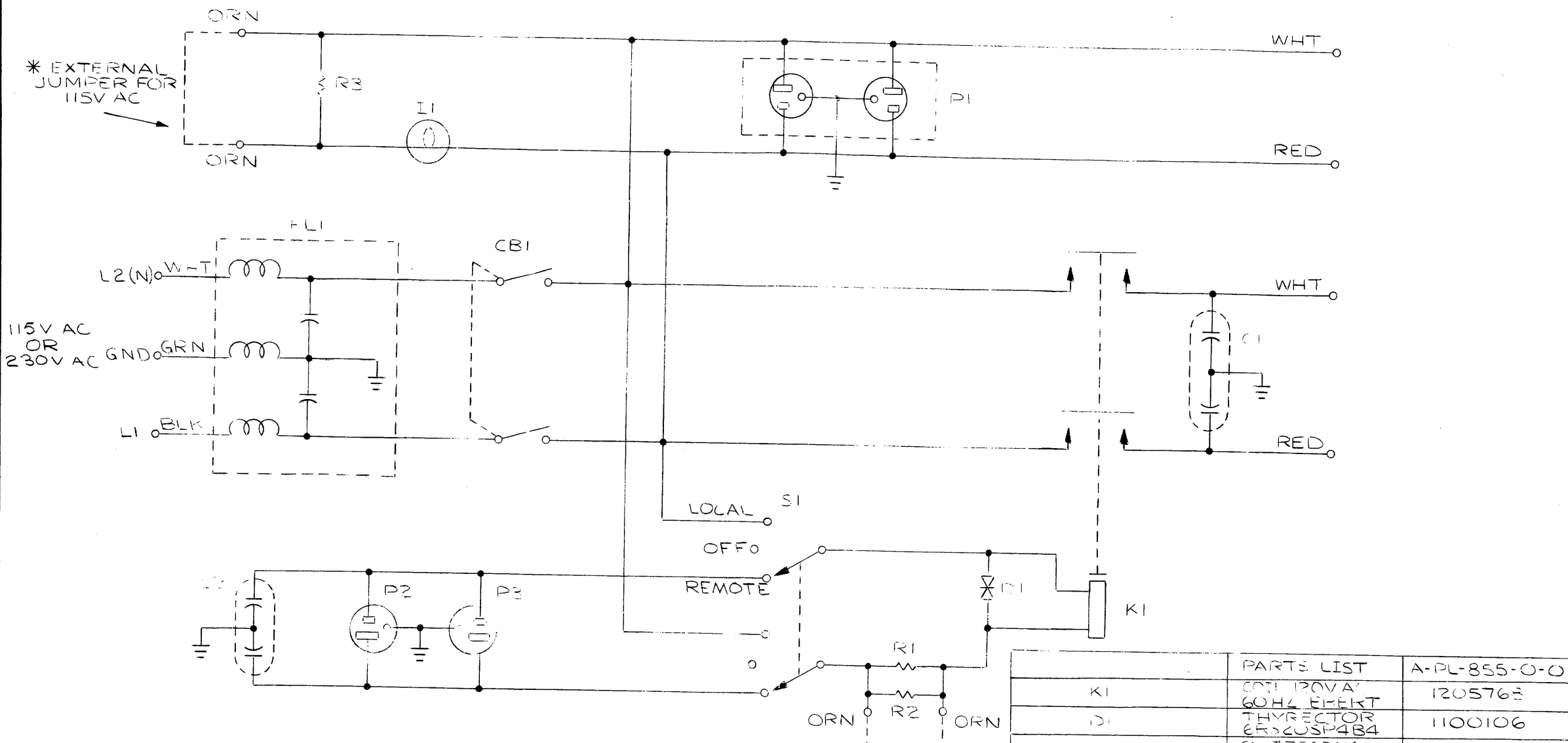
REV	
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL
RS09-0

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

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN	FLANDERS	DATE 6-1-61	digital EQUIPMENT CORPORATION MATTAPOISETT, MASSACHUSETTS TITLE LINE FILTER & PWR CONT 855 SIZE CODE D1UA NUMBER 855-0-0 REV. A DIST.
CHK'D	HEALY	DATE 6-26-61	
ENG	ZNAMIEROWSKI	DATE 7-28-61	
PROJ. ENG.	VONADA	DATE 1-21-69	
PROD.	ANTONUCCIO	DATE 7-21-71	
NEXT HIGHER ASSY			
SCALE			
SHEET 2 OF 2			

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NOTES:
1 * REMOVE JUMPER IF 230V AC

* EXTERNAL JUMPER FOR 115V AC

REF. NO.	DESCRIPTION	PART NO.
K1	COIL 120VAC 60HZ 100W	1205763
D1	THYRECTOR ER520SP4B4	1100106
S1	SW #7563K6 DPST C.H.	1205964
CBI	CKT RKR 40AMP 2P CURVE 4	1201219-02
P3	FFEMALE AC PLUG #10-4 AMPH.	1201251
P2	MALE AC PLUG #10-15 AMPH.	1201252
PI	RECT BRIDGE #1010S A HART LAMP #1 200W 125V IND. DEV	1205351
LI	LAMP #1 200W 125V IND. DEV	1201250
FL1	LINE FILTER #JN17-3/15B1	1209269
C1, C2	CAP 2X 1MFD 100V DC	1002153
R3	RES 130K, 1W, 5%	1305604
R1, R2	RES 2K, 10W, 10%	1305603

REV.	CHG. NO.	REV.

DEC FORM NO. DRC 102

DRN	DATE
CHK'D	DATE
ENG	DATE
PRGD	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
CIRCUIT SCHEMATIC
855
SIZE CODE NUMBER REV
C CS 855-0-1

REV. NUMBER 855-0-1
SIZE CODE C CS

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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.

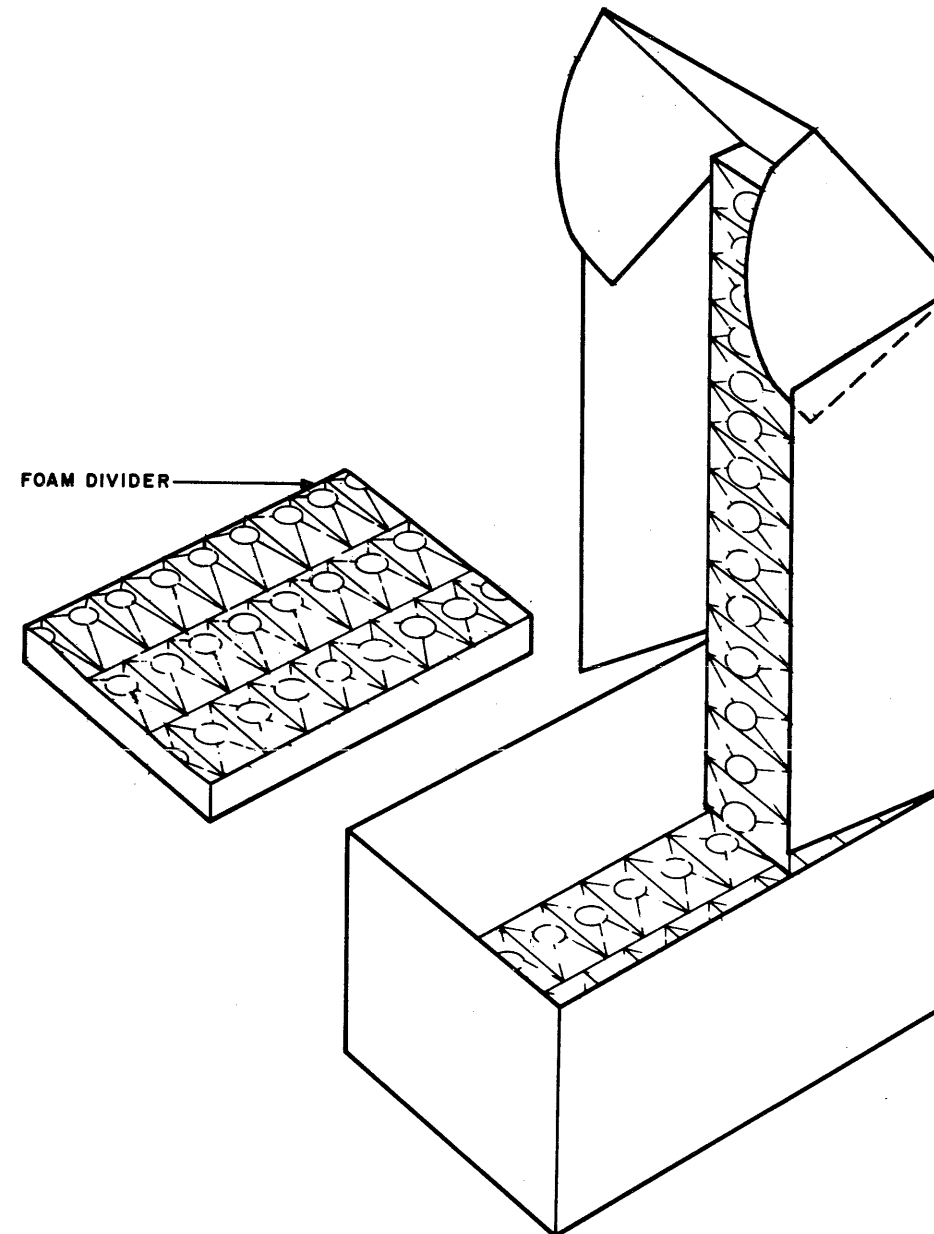
ENG *R. E. Bernier* 8/30/71 APPD *R. E. Bernier* 8/30/71 SIZE A CODE PI NUMBER 3700004-0-0

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

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

MATERIAL HANDLING INSTRUCTION

REV: B DATE:

TITLE RS08 CABINET-MOUNTED DISK etc.

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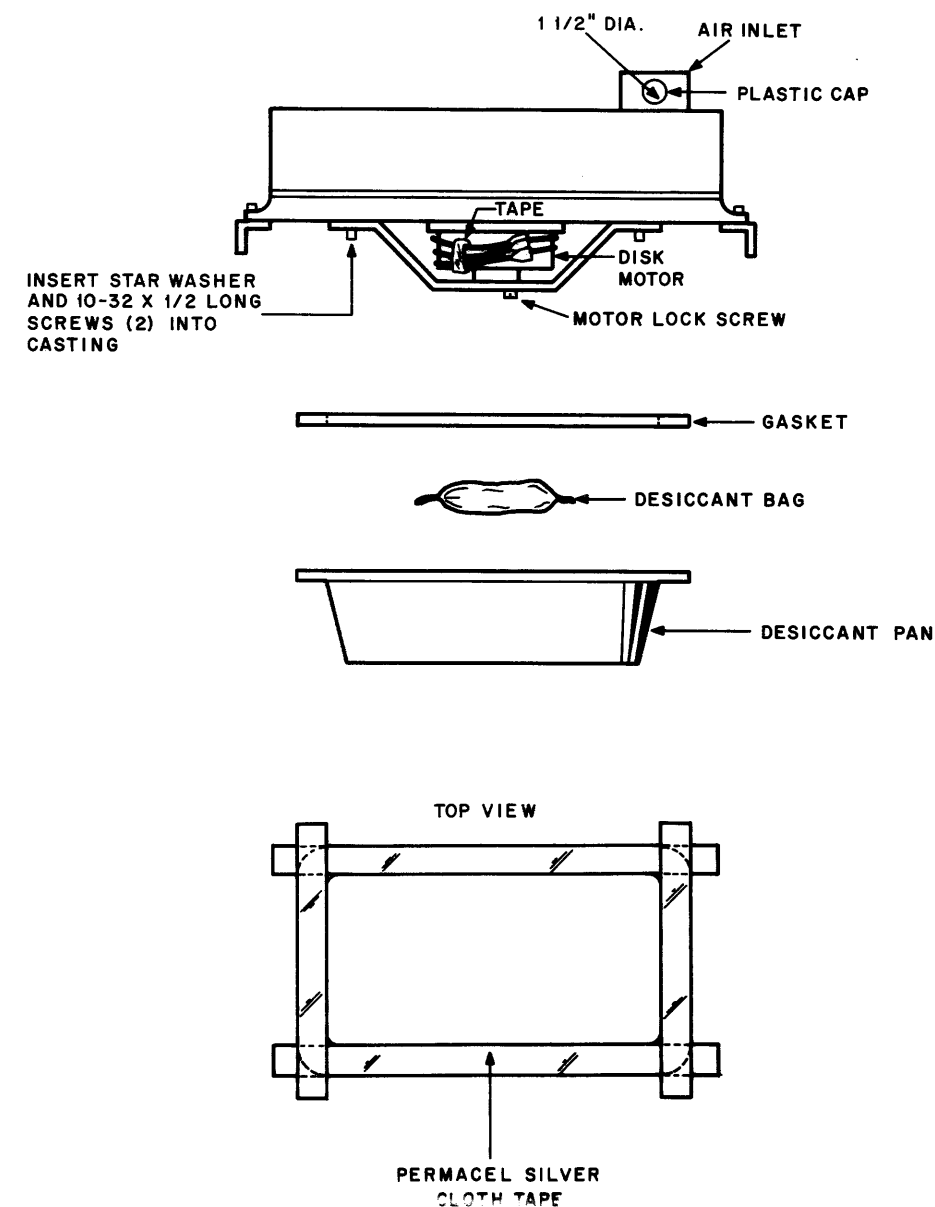
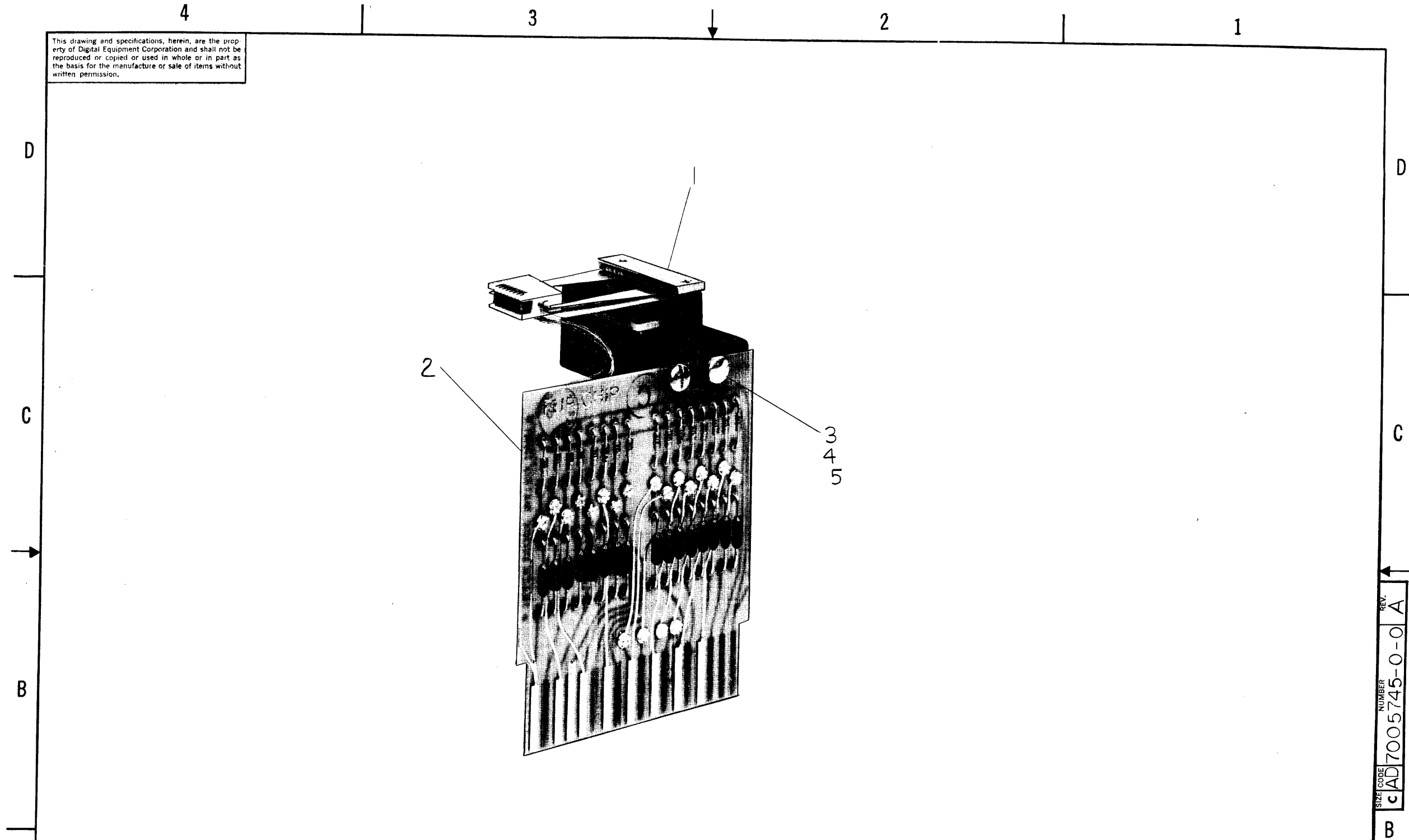


FIGURE 1

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

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REVISIONS	CHK	CHANGE NO.	REV.
	97	RS08-00002	A
		<i>1/13/69</i>	
		IRA MORRIS	
		<i>W.W.</i>	

DEC FORM NO. DPC

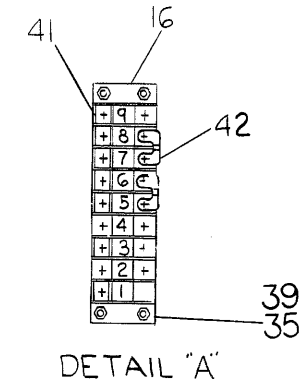
FIRST USED ON OPTION/MODEL RS08-M	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES + .005 + 1/64 + 0°30' FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS	DRN. R. COOK	G. F. DATE 2/5/68	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE HEAD SHOE ASSY	
	CHK'D. J. MOLSHEFSKI	D-H DATE 3/6/68		
	ENG. K. E. FITZGERALD	DATE 4-12-68		
	PROJ. ENG. S. F. LAMBERT	DATE 4-12-68		
MATERIAL +-----+	PROD. R. W. ANTONUCCI	DATE 5-12-68	SIZE CODE NUMBER REV. C AD 7005745-0-0 A	
FINISH +-----+	NEXT HIGHER ASSY D-UA-RS08-M-0		SCALE +-----+ DIST.	
	SHEET 1 OF 1			

SIZE CODE NUMBER REV.
 C AD 7005745-0-0 A

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NOTES:

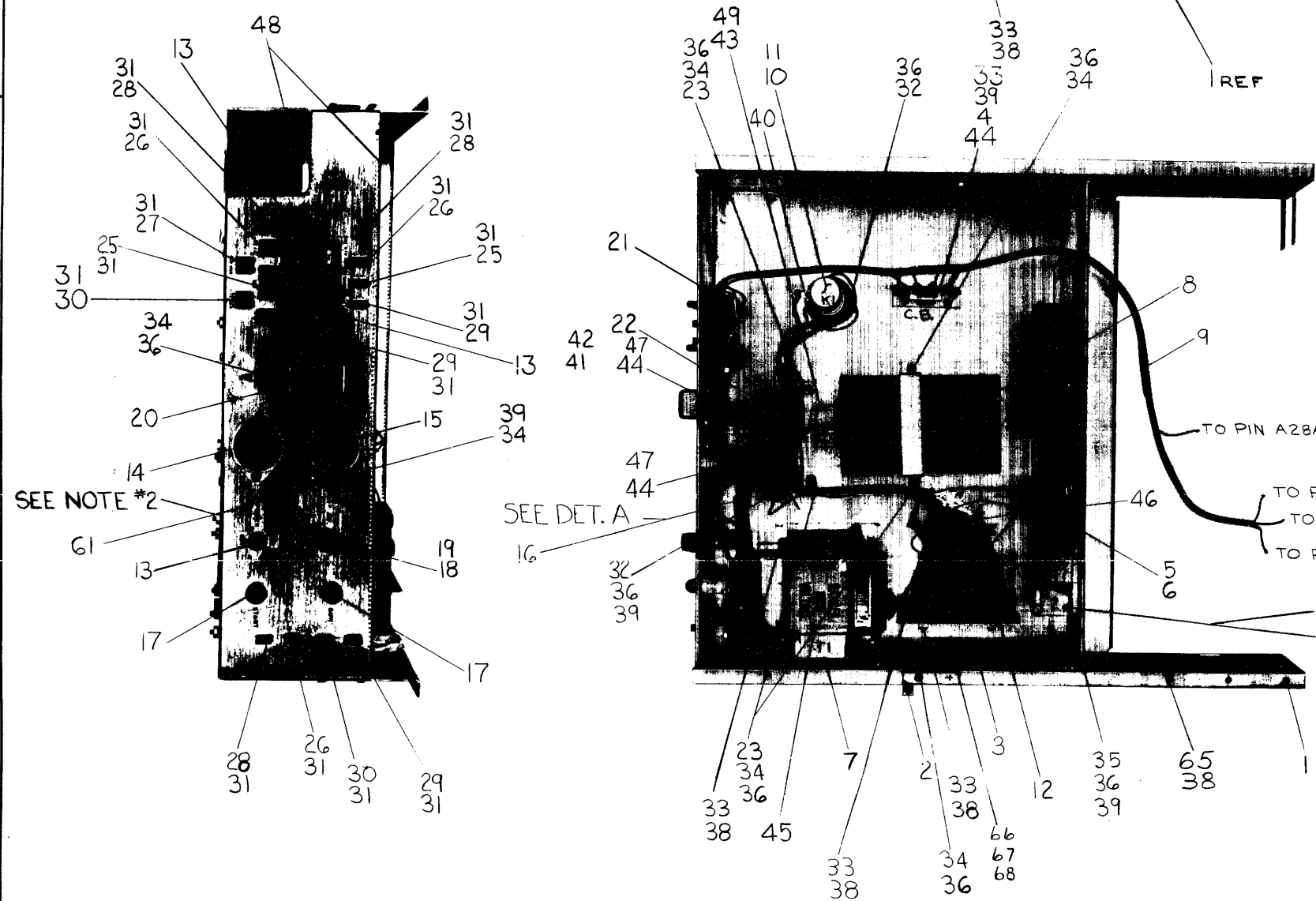
1. TAG END OF WIRES AS INDICATED.
2. PLACE PROPER DECAL *A-DC-7406707-0-0 (50 OR 60HZ) AT TIME OF INSTALLATION IN SYSTEM CABINET AS SHOWN.
3. SPACE FAN SCREENS OFF FANS WITH #6 FLAT WASHERS (ITEM 69) 16 PLACES



D

C

B



SEE NOTE #2

SEE DET. A

SEE NOTE 3

A

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

FIRST USEL OR OPTION / MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RSØ8-P				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	MAYNARD, MASSACHUSETTS	
TOLERANCES	ENG.	DATE	TITLE	
DECIMALS FRACTIONS ANGLES	PROJ. ENG.	DATE	CHASSIS ASSY	
±.005 ± 1/64 ± 0°30'	PROD.	DATE	W/O LOGIC	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS			FIRST USEL OR OPTION	
MATERIAL			D-UA-RSØ8-P-Ø	
FINISH	SCALE		SIZE CODE	NUMBER
	SHEET	OF	DAD	7006156-0-0
			DIST.	REV. J

REV. J NUMBER 7006156-0-0 SIZE CODE DAD

B

A

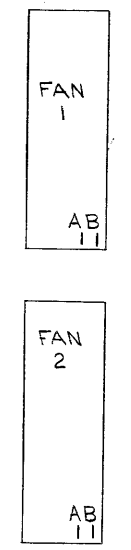
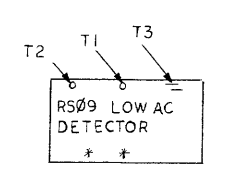
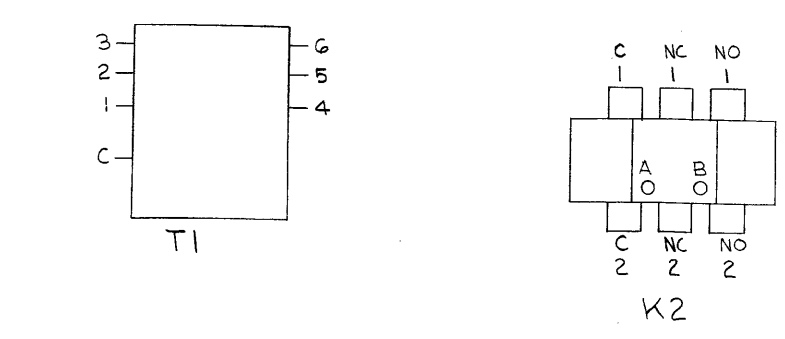
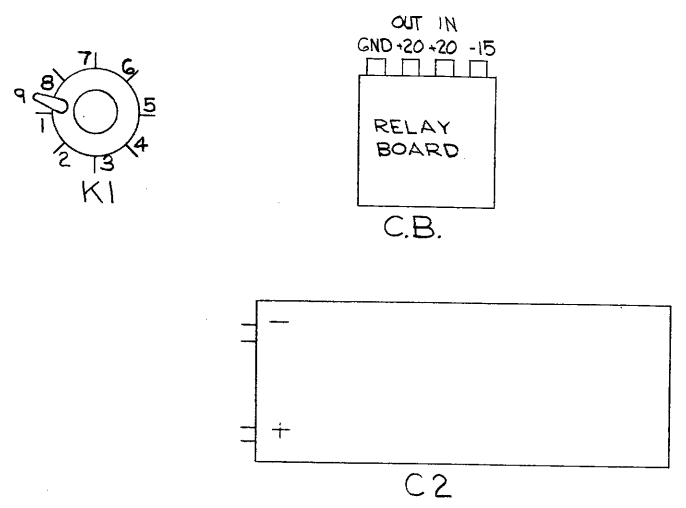
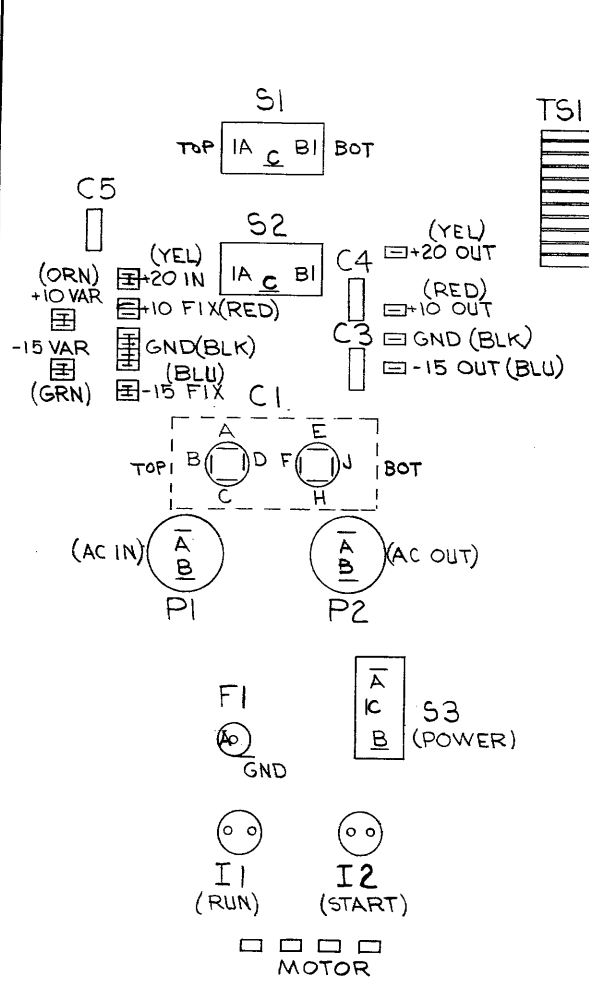
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0-0-991900407 2

WIRE TABLE

ITEM NO	DESCRIPTION	CONNECTIONS FROM	CONNECTIONS 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	T1-6	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 *A
-		BLK	I1(RUN)	MOTOR-GRN	*A *A
-		RED	I2(START)	MOTOR-RED	*A *A
-		BLK	I2(START)	MOTOR-GRN	*A *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	P1-B(TIN)	P2-B(TIN)	*A *A
56		WHT	P2-A(BRASS)	TSI-3	*A *A
63		RED	P2-B(TIN)	TSI-1	*A *A
62		WHT	C1-B	TSI-3	44,47,22 44,47,22
56		WHT	C1-E	TSI-1	44,47,22 44,47,22
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		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

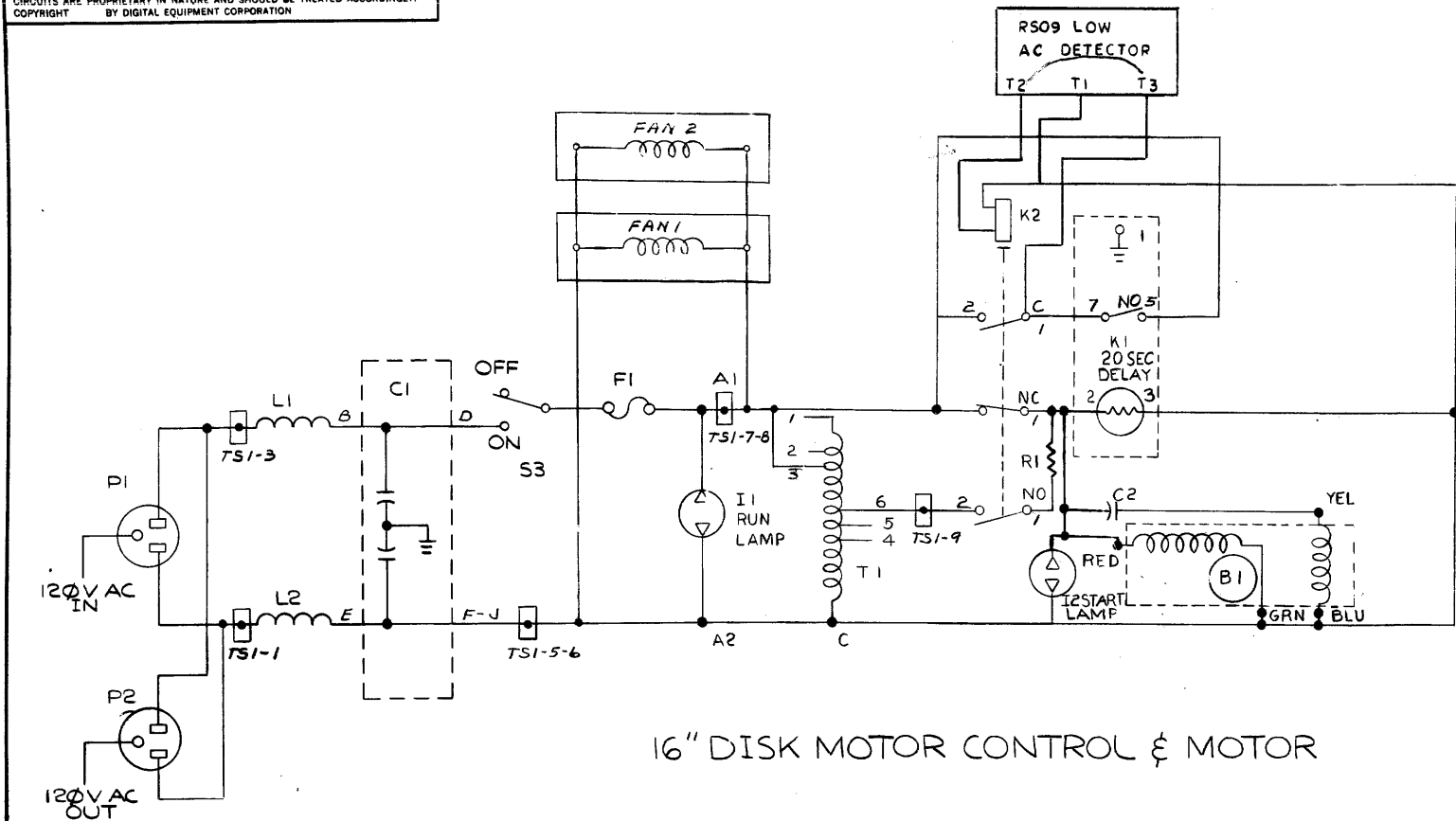
REV.	
CHANGE NO.	
CHK	

UNLESS OTHERWISE SPECIFIED	DRN. <i>[Signature]</i>	DATE 4/2/69	PARTS LIST	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE SPECIFIED	CHKD. <i>[Signature]</i>	DATE 4/14/69		
DIMENSION IN INCHES	ENG. <i>[Signature]</i>	DATE 4/11/69	TITLE	
TOLERANCES	PROJ. ENG. <i>[Signature]</i>	DATE 4/11/69	CHASSIS ASSY W/O LOGIC	
DECIMALS FRACTIONS ANGLES	PROD.	DATE	SIZE CODE NUMBER	
FINAL SURFACE QUALITY	FIRST USED ON		DAD7006156-0-0	
REMOVE BURRS AND BREAK SHARP CORNERS	FINISH		REV.	
	SCALE		SHEET 2 OF 2	
			DIST. G	

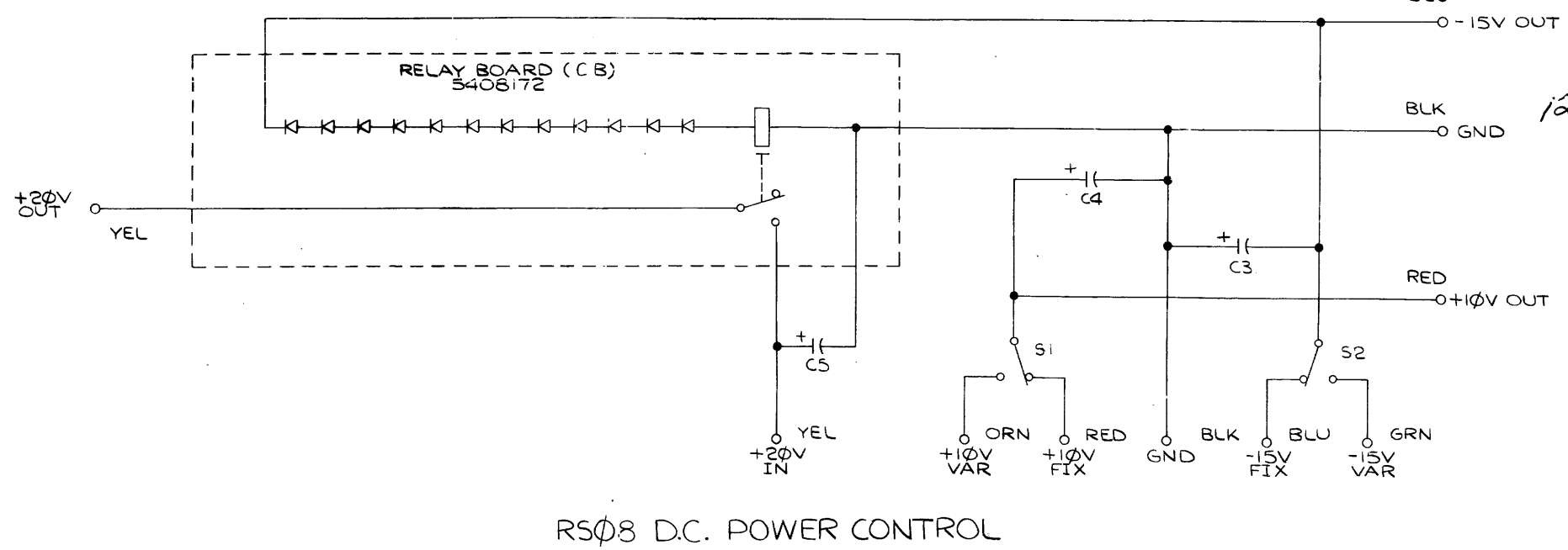
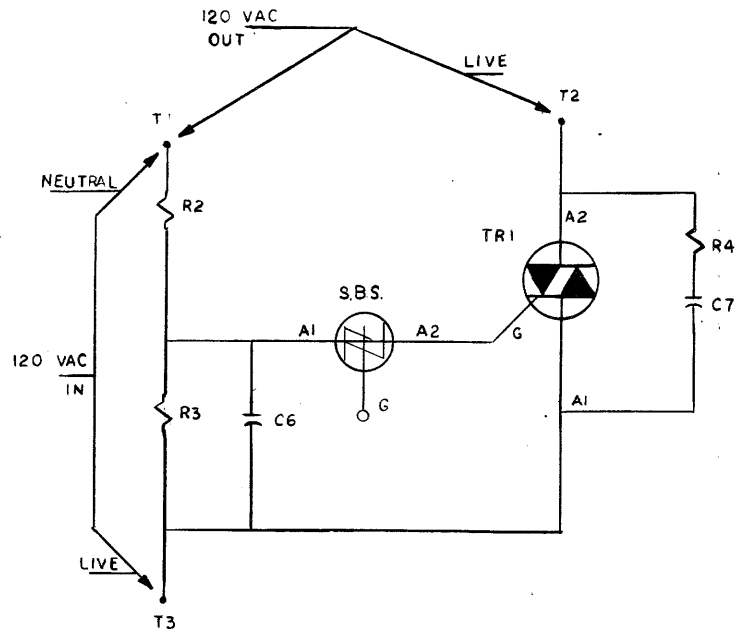
NUMBER DAD7006156-0-0

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1-0-951900Z



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
S.B.S.	2N4992 TRIAC TRIGGER	1510910
TR1	TRIAC DEC 40669	1510070
FAN1, FAN2	FAN, MUFFIN ROTRON	1205033
TS1	TERM STRIP #9-540 PINCH JONES	9006912
R1	RES 1.5Ω .55W	1302702
C1	CAP 2x.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
FI	7 AMP 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	CHK
A	11-10-68		
B	11-10-68		
C	11-10-68		
D	11-10-68		
E	11-10-68		

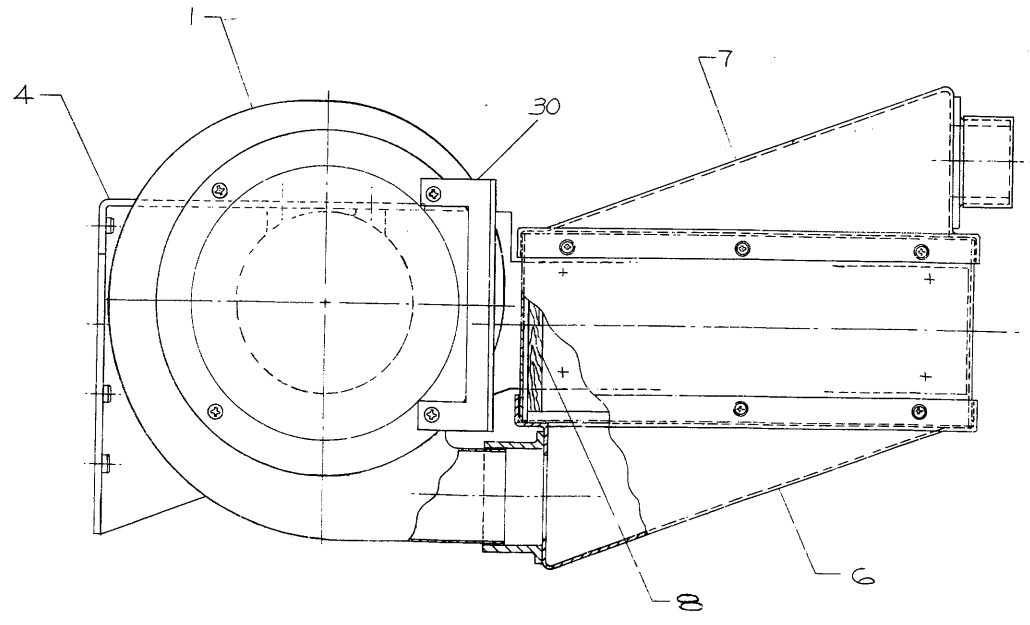
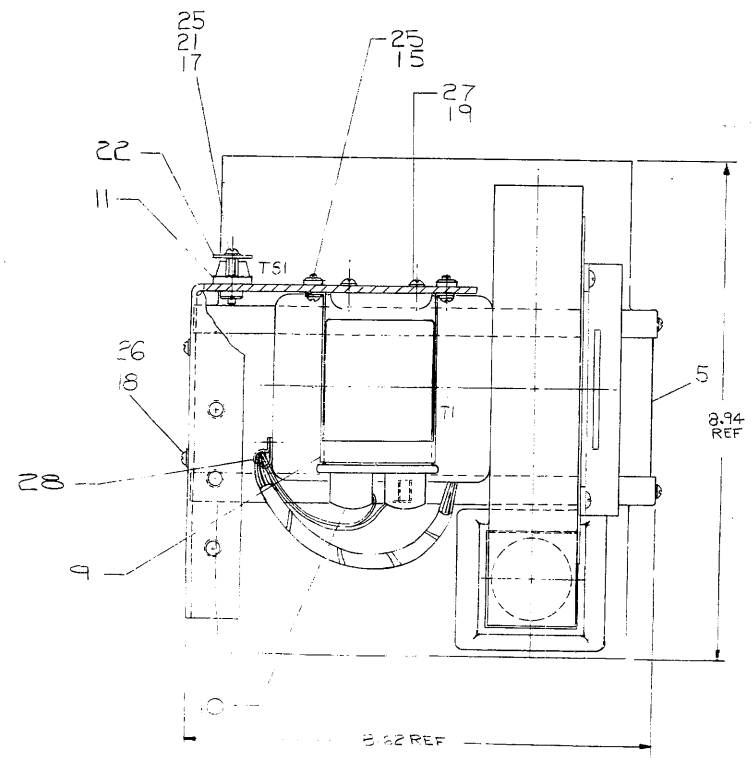
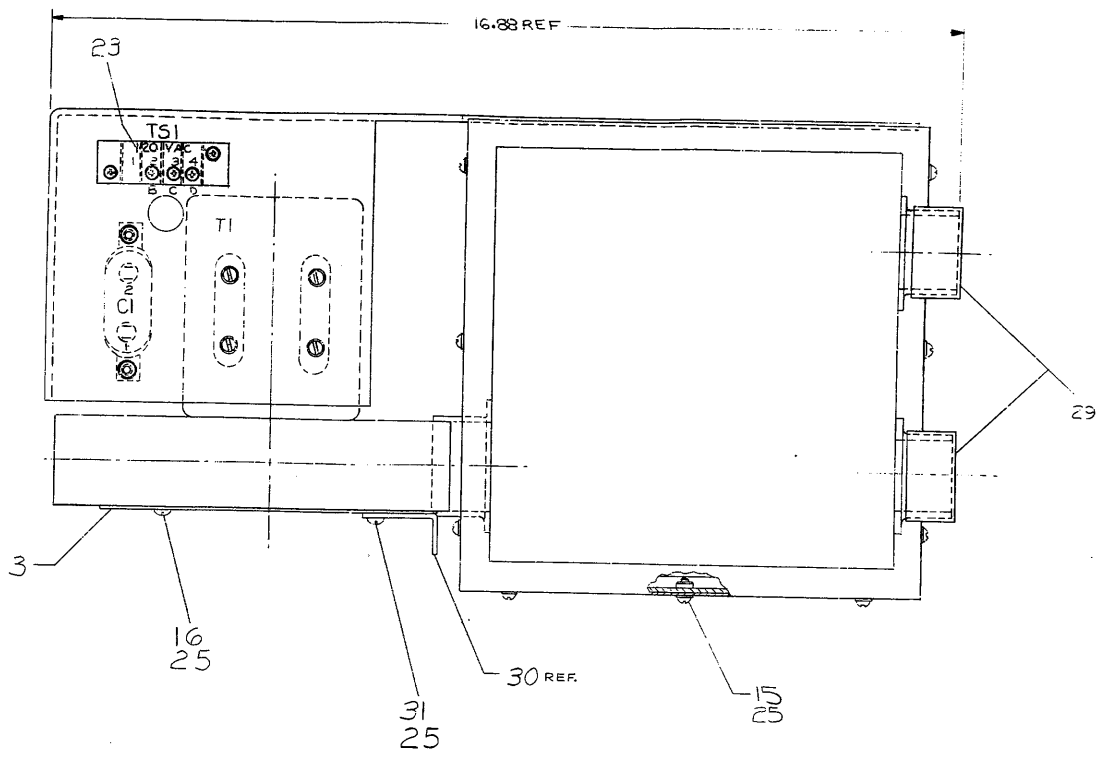
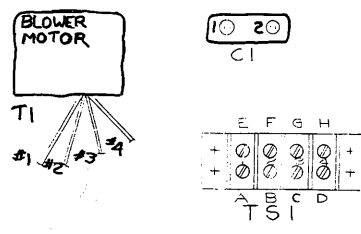
DRN	DATE
11-10-68	11-10-68
11-10-68	11-10-68
11-10-68	11-10-68
11-10-68	11-10-68

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: POWER CONTROL AND MOTOR CONTROL
NUMBER: 7006156-0-1
REV: E
PRINTED CIRCUIT REV.

ITEM NO	DESCRIPTION	CONNECTIONS		EQUIP. PART NO.	EQUIP. TO
		FROM	TO		
12 18	RED	C1-2	TS1-4	13 20	14
12 18	WHT	C1-1	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



REV	DESCRIPTION	DATE	BY	CHKD
1	ISSUED	10/17/54	W. J. WEAVER	
2	REVISED	11/1/54	W. J. WEAVER	
3	REVISED	11/1/54	W. J. WEAVER	
4	REVISED	11/1/54	W. J. WEAVER	
5	REVISED	11/1/54	W. J. WEAVER	
6	REVISED	11/1/54	W. J. WEAVER	
7	REVISED	11/1/54	W. J. WEAVER	

FIRST USED IN DRAWING		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RS09-0					
UNLESS OTHERWISE SPECIFIED		PARTS LIST			
DIMENSIONS IN INCHES		EQUIPMENT CORPORATION			
TOLERANCES		DRAWN BY: [Signature]			
DECIMALS		DATE: 11/1/54			
FRACTIONS		CHECKED BY: [Signature]			
ANGLES		TITLE: BLOWER FILTER ASSY (RS09)			
FINISH		SCALE: 1/2"			
MATERIAL		SHEET 1 OF 1			
FINISH		DWT. 121			

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.H. Hendricks*
 DATE 6/10/69

SECTION 1

ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
1	1209389-1	BLOWER 115V 50/60 HZ # EC2918 B IMC MAGNETICS CORP	1
2	B-MD-7407181-0-0	SCREEN, PREFILTER	1
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 # 1D-25-2	1
9	1009397	CAPACITOR MOTOR RUN 5 MFD 370 VAC (CORNELL DUBILIER)	1
10	9006901	CAP, CAPACITOR #41611 ACME	2
11	9006901	TERM STRIP BARRIER #4-140 CINCH JONES	1
12	9107430-29	#18 AWG TEF INS. TWPR RED/WHT	A/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 (RSØ9)
 ASSY NO. E-AD-7006255-0-0
 SIZE CODE A PL
 NUMBER 7006255-0-0
 REV. C
 ECO NO. RS09-00019
 DIST. G

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.H. Hendricks*
 DATE 6/10/69

SECTION 1

ISSUED SECT. 1

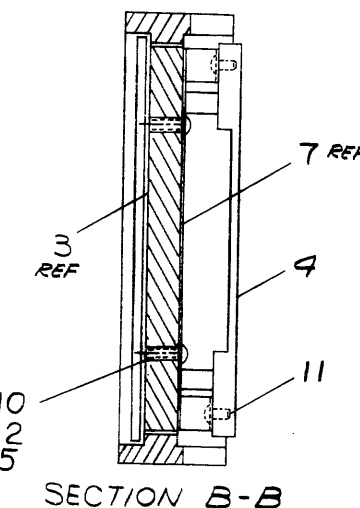
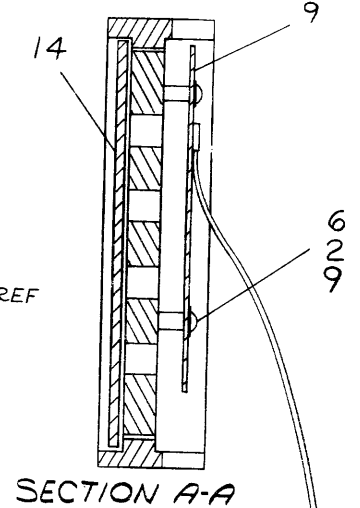
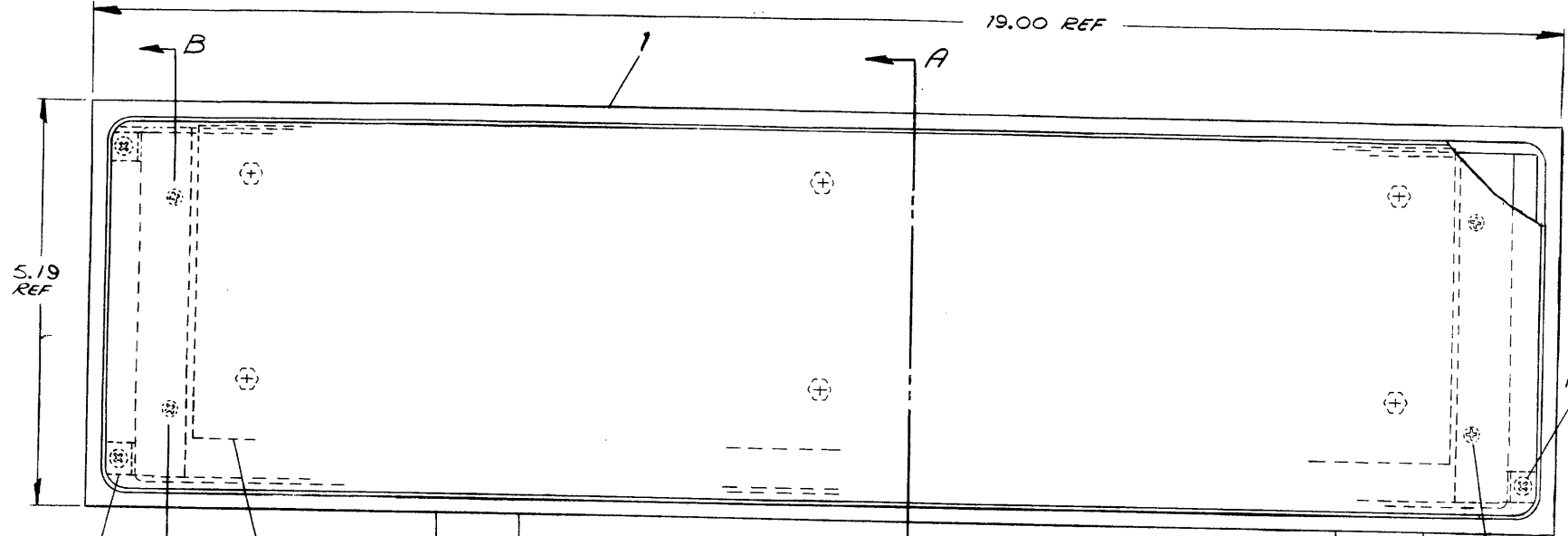
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
22	B-100204	PROT PLATE (140 TERM STRIP) 4 TERM	1
23		DECAL (120 VAC)	1
24	9107240	SPIRAL WRAP 1/4 O.D. x 7" LG	1
25	9006633	WASH INT TOOTH LOCK #6	32
26	9006634	WASH INT TOOTH LOCK #8	4
27	9006635	WASH INT TOOTH LOCK #10	4
28	9007081	CLAMP, 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

TITLE BLOWER FILTER ASSY (RSØ9)
 ASSY NO. E-AD-7006255-0-0
 SIZE CODE A PL
 NUMBER 7006255-0-0
 REV. C
 ECO NO. RS09-00019
 DIST. G

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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
	7006331-8	D-VA-H963-F-0
	7006331-9	D-VA-NP02-0-0
	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-7605950-0-0
	7006331-18	D-VA-DA26-C-0
	7006331-19	D-VA-7605950-0-0
	7006331-20	D-VA-H963-E-0
	7006331-21	D-VA-7605956-0-0
	7006331-22	D-VA-7605957-0-0
	7006331-23	D-VA-7605955-0-0
	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-CO-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.

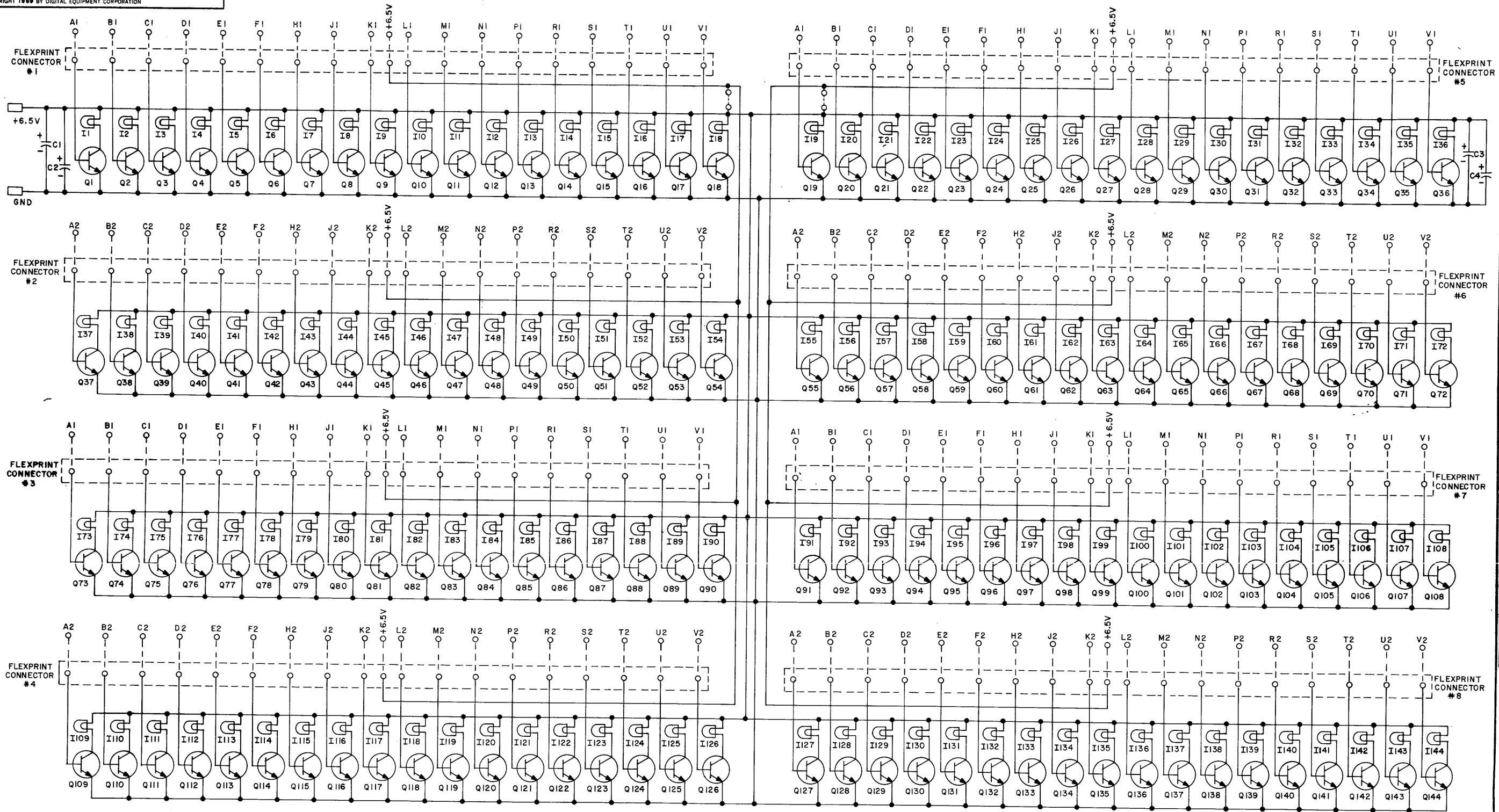


REV	NO	DATE	BY	CHK'D	DESCRIPTION
1	0001	4-22-69	G. FLANDERS		REVISED
2	0002	5-11-69	D. HEALY		REVISED
3	0003	6-10-69	Z. NAMIEROWSKI		REVISED
4	0004	6-10-69	D. VONADA		REVISED
5	0005	6-12-69	ANTONUCCIO		REVISED

QTY	DESCRIPTION	PART NO.	ITEM NO.
	INDICATOR PANEL ASSY	DAD7006331-0-0	AB

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SIZE CODE NUMBER
D CS 5408458-0-1
REV P



UNLESS OTHERWISE INDICATED:

TRANSISTORS ARE DEC3009B
 O--O INDICATES JUMPER
 CAPACITORS ARE 39MFD 10V 10%
 LAMPS ARE 1209219

REVISIONS	CHK	ENG	NO	REV
	2	1	00001	A
	2	1	00003	P

DRN	Mr. Neller	DATE	9-3-69
CHK'D		DATE	9-15-69
ENG	W. J. Gagnier	DATE	9-15-69
APP'D	W. J. Gagnier	DATE	9-15-69
PROD.		DATE	

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

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE PERIPHERAL INDICATOR
 PANEL 5408458
 SIZE CODE NUMBER
 D CS 5408458-0-1
 PRINTED CIRCUIT REV. P