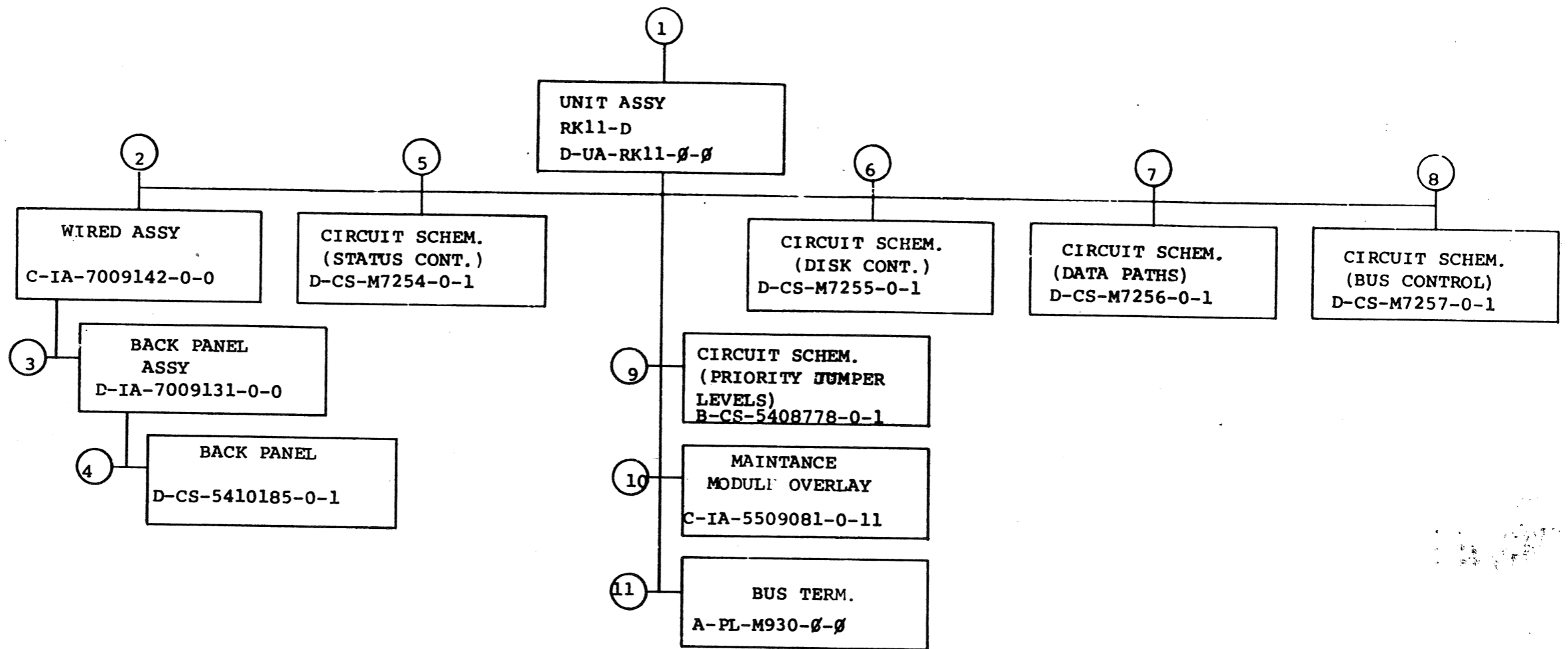


**RK11-D 109008**  
**disk drive controller**  
**engineering drawings**





TITLE	DISK CONTROL	SHEET 2 OF 4	SIZE CODE	NUMBER	REV
			B DD	RK11-D	M

CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET		ELECTRICAL						
1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE	1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE
X		1	D-UA-RK11-0-0	B	1	UNIT ASSY (RK11-D)		X		8	D-CS-M7257-0-1	#	6	CIRCUIT SCHEMATIC (BUS CONT.)	
X			D-MU-RK11-D-1	*	1	MODULE UTILIZATION (RK11-D)					K-CO-M7257-0-4		1	X-Y COORDINATE HOLE LOCATION	
X			A-PL-RK11-D-1	*	1	MODULE UTILIZATION (RK11-D) PL					D-AH-M7257-0-5		1	ASSY DRILLING HOLE LOCATION	
			D-IA-7008992-0-0		1	POWER HARNESS (REF)					B-MH-M7257-0-6		1	MODULE ECO HISTORY	
X			D-IC-RK11-D-3	C	4	BACK PANEL INTERCONNECTION									
X			D-IA-7009559-0-0	#	1	OPTION HARNESS									
X		2	C-IA-7009142-0-0	B	1	WIRED ASSY (RK11-D)				9	B-CS-5408778-0-1		1	CIRCUIT SCHEMATIC (PRIORITY JUMPER LEVELS)	
											C-IA-5408778-0-0		1	PRIORITY JUMPER LEVEL #5	
											D-IA-5008777-0-0		1	ETCH BOARD	
		3	D-IA-7009131-0-0		1	BACK PANEL		X		10	A-SS-5509081-0-11	#		MAINTENANCE MODULE OVERLAY (RK11D)	
											C-IA-5509081-0-0			MAINTENANCE MODULE OVERLAY	
X		4	D-CS-5410185-0-1	#	1	CIRCUIT SCHEMATIC (BACKPANEL)		X			D-OC-RK05-0-15	#		RK05 OPTION CONFIGURATION (REF)	
			K-CO-5410185-0-4		1	X-Y COORDINATE HOLE LOCATION									
			E-AH-5410185-0-5		1	ASSY DRILLING HOLE LOCATION									
			B-MH-5410185-0-6		1	MODULE ECO HISTORY									
C			K-WI-RK11-D-2	F	1	ETCH/WIRE LIST (RK11-D)		X		11	A-PL-M930-0-0	#		BUS TERMINATOR	
X		5	D-CS-M7254-0-1	#	6	CIRCUIT SCHEMATIC (STATUS CONT)				12	A-SP-RK11-D-4	A	10	RK11-D ENGINEERING SPEC	
			K-CO-M7254-0-4		1	X-Y COORDINATE HOLE LOCATION					A-SP-RK11-D-5		4	RK11-D CHECK OUT PROCEDURE	
			D-AH-M7254-0-5		1	ASSY DRILLING HOLE LOCATION		X			A-AL-RK11-D-6	*	1	RK11-D ACCESSORY LIST	
			B-MH-M7254-0-6		1	MODULE ECO HISTORY		X			A-SL-RK11-D-7	*	1	RK11-D SOFTWARE LIST	
								X			A-SP-RK11-D-8		4	RK11-D ACCEPTANCE PROCEDURE	
X		6	D-CS-M7255-0-1	#	7	CIRCUIT SCHEMATIC (DISK CONT.)					D-FD-RK11-D-9	*	5	RK11-D,E FUNCTION FLOWS	
			K-CO-M7255-0-4		1	X-Y COORDINATE HOLE LOCATION					B-DD-RK11-TA			RK11-D,E TESTER	
			D-AH-M7255-0-5		1	ASSY DRILLING HOLE LOCATION									
			B-MH-M7255-0-6		1	MODULE ECO HISTORY									
X		7	D-CS-M7256-0-1	#	7	CIRCUIT SCHEMATIC (DATA PATHS)									
			K-CO-M7256-0-4		1	X-Y COORDINATE HOLE LOCATION									
			D-AH-M7256-0-5		1	ASSY DRILLING HOLE LOCATION									
			B-MH-M7256-0-6		1	MODULE ECO HISTORY									

CUSTOMER PRINT SET CODES	X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED	# = PRINT OF DOCUMENT IS LATEST REVISION LEVEL	TITLE DISK CONTROL	SIZE CODE B DD	NUMBER RK11-D	REV 10
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CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET						
MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE
1	1	D-UA-RK11-0-0	B	1	UNIT ASSY (RK11-D)		1	8	D-CS-M7257-0-1	#	5	CIRCUIT SCHEMATIC (BUK CONTROL)	
									K-CO-M7257-0-4		1	X-Y COORDINATE HOLE LOCATION	
									D-AH-M7257-0-5		1	ASSY DRILLING HOLE LOCATION	
									B-MH-M7257-0-6		1	MODULE ECO HISTORY	
	2	C-1A-7009142-0-0	B	1	WIRED ASSY (RK11-D)								
	3	D-1A-7009131-0-0	#	1	BACKPANEL								
		E-SC-1209583-0-1		1	CASTING, THREE BLOCK								
		A-SS-7407846-0-0		1	DECAL LOGIC SERIAL NUMBER								
	4	D-CS-5410185-0-1	#	1	CIRCUIT SCHEMATIC (BACKPANEL)								
		K-CO-5410185-0-4		1	X-Y COORDINATE HOLE LOCATION								
		E-AH-5410185-0-5		1	ASSY DRILLING HOLE LOCATION								
		B-MH-5410185-0-6		1	MODULE ECO HISTORY								
	5	D-CS-M7254-0-1	#	5	CIRCUIT SCHEMATIC (STATUS CONT.)								
		K-CO-M7254-0-4		1	X-Y COORDINATE HOLE LOCATION								
		D-AH-M7254-0-5		1	ASSY DRILLING HOLE LOCATION								
		B-MH-M7254-0-6		1	MODULE ECO HISTORY								
	6	D-CS-M7255-0-1	#	6	CIRCUIT SCHEMATIC (DISK CONT.)								
		K-CO-M7255-0-4		1	X-Y COORDINATE HOLE LOCATION								
		D-AH-M7255-0-5		1	ASSY DRILLING HOLE LOCATION								
		B-MH-M7255-0-6		1	MODULE ECO HISTORY								
	7	D-CS-M7256-0-1	#	6	CIRCUIT SCHEMATIC (DATA PATHS)								
		K-CO-M7256-0-4		1	X-Y COORDINATE HOLE LOCATION								
		D-AH-M7256-0-5		1	ASSY DRILLING HOLE LOCATION								
		B-MH-M7256-0-6		1	MODULE ECO HISTORY								

CUSTOMER PRINT SET CODES  
X = PRINT OF DOCUMENT INCLUDED IN PRINT SET  
C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT  
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

# - PRINT OF DOCUMENT IS LATEST REVISION LEVEL

TITLE DISK CONTROL

SHEET 4 OF 4 B DD

NUMBER REV  
RK11-D M

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NOTE:  
 FOR PROPER OPERATION OF RKII-D, E THE RK05 DRIVE MUST HAVE AN M7700 REV. J OR LATER AND HAVE A BACK PANEL OF REV. A OR LATER. FOR RKII-E THE RK05 MUST ALSO HAVE A G180 REV. K OR LATER.

4	UNIBUS OUT	M930 TERMINATOR OR M920 INTERNAL CONNECTOR OR BC11-A CABLE	M7257	BUS CONTROL
3	POWER CONN.	W130 K M11 A MAINTENANCE BOARD (OPTIONAL)	M7256	DATA PATHS CONTROL
2	DISK CABLE	BC11-A	M7255	DISK CONTROL
1	UNIBUS IN	M920 INTERNAL CONNECTOR OR BC11-A CABLE	M7254	STATUS CONTROL

FORM NO. 100  
 DATE: 11/15/72  
 REV. 1

FIRST USED ON OPTION/MODEL  
 RKII-D

DO NOT SCALE DRAWING  
 UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS IN INCHES  
 TOLERANCES  
 DECIMALS FRACTIONS ANGLES  
 ±.005 ±.004 ±.002  
 FINAL SURFACE QUALITY  
 REMOVE BURRS AND BREAK SHARP EDGES

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRW: <i>R. D. DeLoach</i> DATE: 11/15/72 CHK: <i>R. D. DeLoach</i> DATE: 11/15/72 ENGR: <i>R. D. DeLoach</i> DATE: 11/15/72 PROD: <i>R. D. DeLoach</i> DATE: 11/15/72		digital EQUIPMENT CORPORATION TITLE: MODULE UTILIZATION SIZE CODE: DMURKII-D-1 NUMBER: 1 REV. 1	
MATERIAL		NEXT HIGHER ASSY B-DD-RKII-D	
FINISH		SCALE: NONE	
SHEET 1 OF 1		DWT.	

REV. 1  
 NUMBER: DMURKII-D-1  
 SIZE CODE: DMURKII-D-1



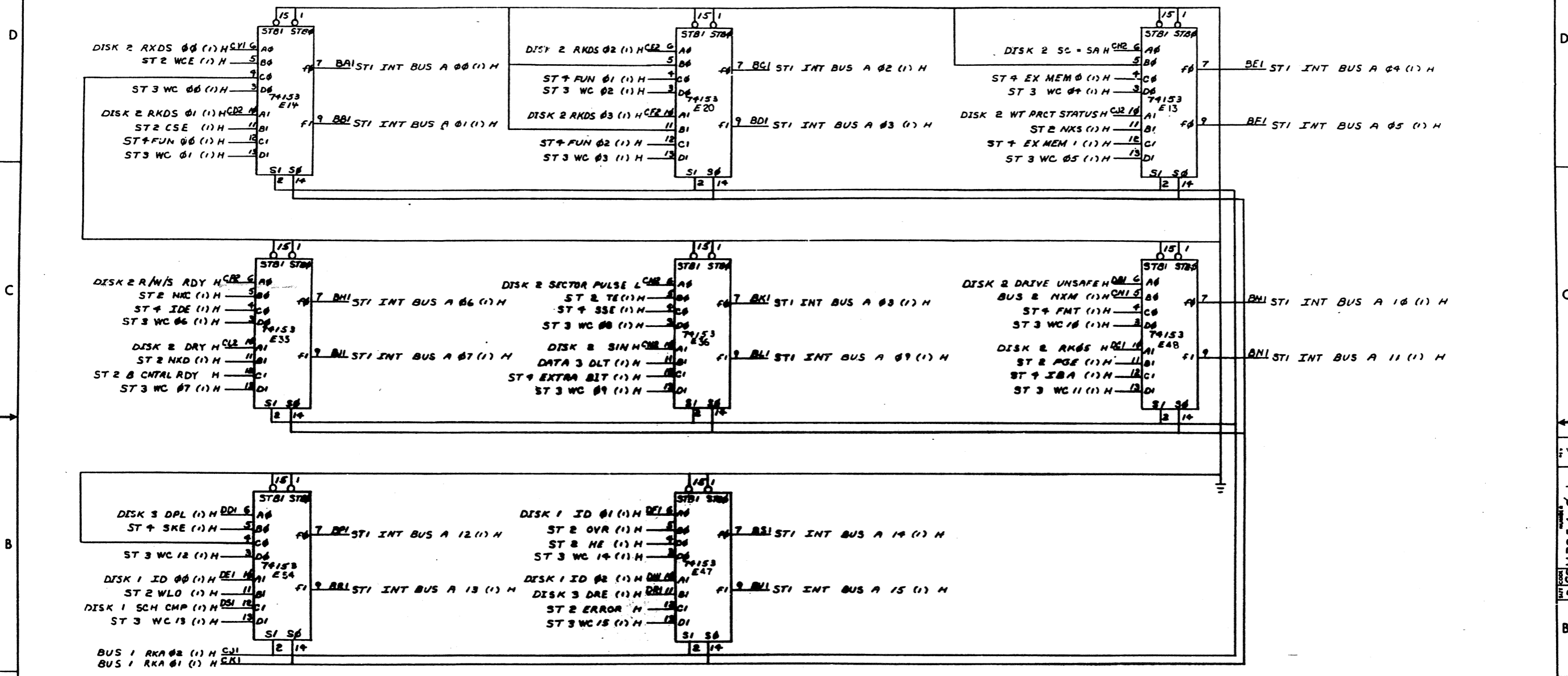






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1-0-2522 WSC 2



- NOTES:
1. CUT W3 FOR 16 BIT OPERATION (RKII-D)
  2. CUT W1 FOR 18 BIT OPERATION (RKII-B)  
CUT W2 FOR 16 BIT OPERATION (RKH-D)
  3. CUT W5 FOR NORMAL OPERATION (CHECKS HEADER 16 TIMES BEFORE FLAGGING SEEK ERROR)  
CUT W4 FOR RKII-C COMPATIBILITY (CHECKS HEADER ONCE)

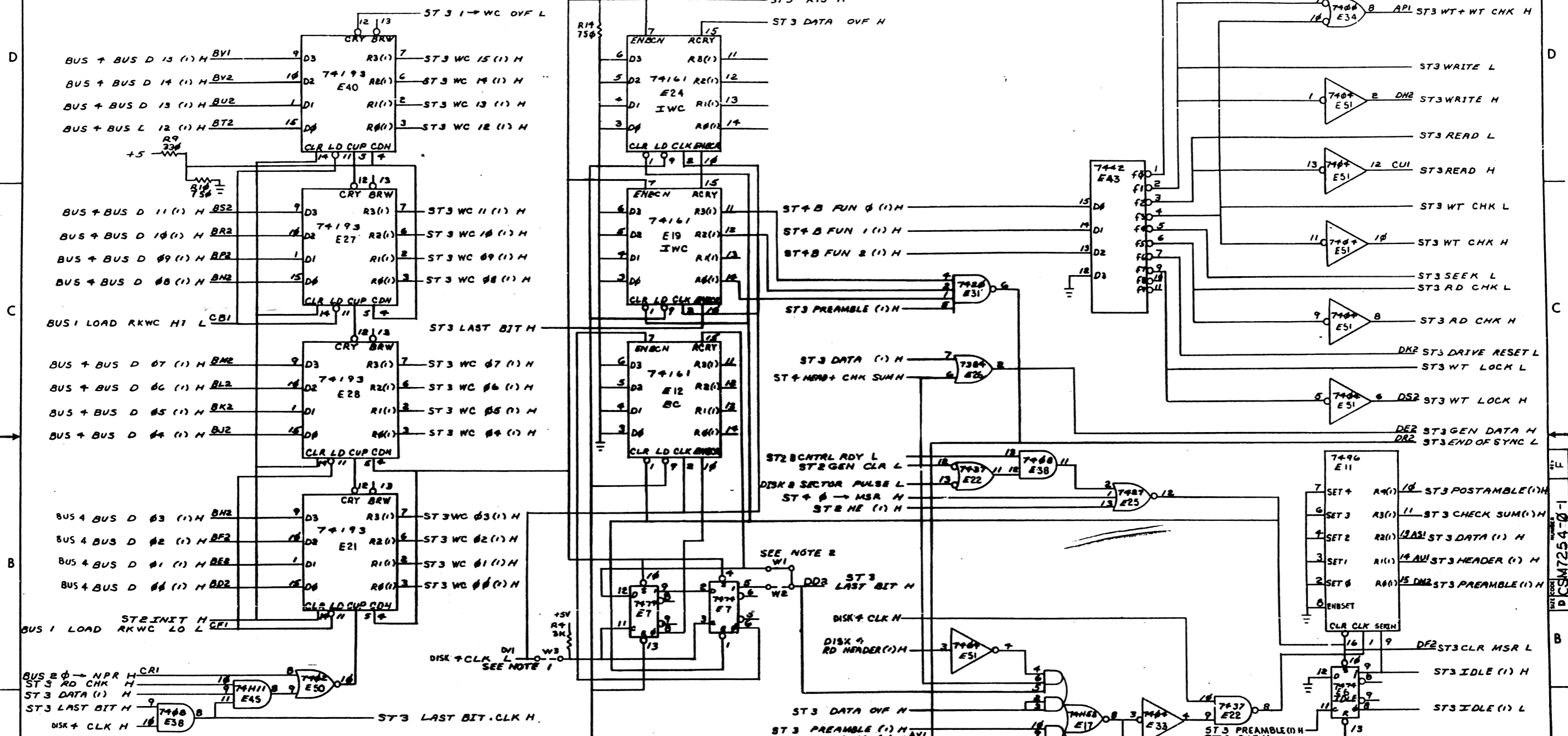
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RKII-D		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DATE 4-4-75	DIGITAL EQUIPMENT CORPORATION MAYFIELD MASSACHUSETTS		
DECIMALS ANGLES	DATE 5-27-75	TITLE STATUS CONTROL		
1/16 - .001 10° 30'	DATE 7-17-75	REV. (ST I)		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE 8-14-75	NEXT HIGHER ASSY. B-DD-RKII-D		
MATERIAL	SCALE NONE	DCS M7254-0-1		
FINISH	SHEET 3 OF	REV. C		

REV. NO. CHANGE NO. DATE

CSM7254-0-1



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REV	CHG	NO	DATE

DEC 1964 NO 8

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK11-D				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
DECIMALS		ANGLES		
±.005		±.005		
±.010		±.010		
±.020		±.020		
±.050		±.050		
±.100		±.100		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL		NEXT HIGHER ASSY.		
FINISH				
B-DD-RK11-D		SIZE CODE	NUMBER	REV.
SCALE NONE		DCSM7254-0-1		F
SHEET 5 OF		DIST.		

STATUS CONTROL

(ST 3)

DCSM7254-0-1







NOTES:

1. INSTALL W1 FOR RK05.
2. CUT W4 FOR RKII-C COMPATIBILITY (NORMAL OPERATION)
3. FOR RKII-D (RK05) CUT JUMPER W3 FOR RKII-E (18 BIT RK05) CUT JUMPER W2.
4. FOR NORMAL OPERATION INSTALL W6 (CHANGES ID BITS ONLY FOR SEARCH COMPLETE INTERRUPT). INSTALL W5 TO CHANGE ID BITS FOR ANY INTERRUPT.
5. INSTALL PROPER CRYSTAL IN SPLIT LUGS AS OUTLINED IN TABLE I.

	DISK	BITS/WORD	MHZ	DEC F/N
RKII-D	RK05	16	2.880	18-10694-3
RKII-E	RK05	18	3.090	18-10694-4

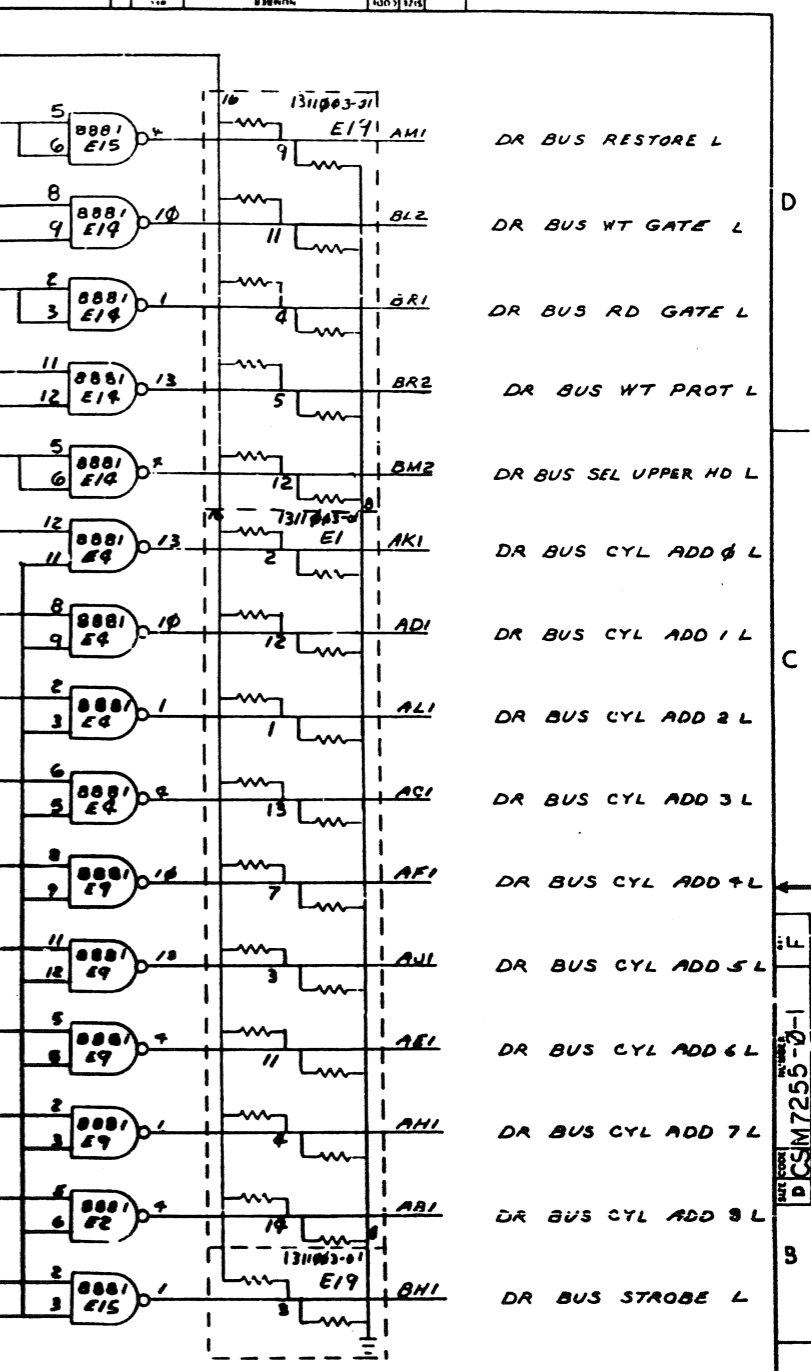
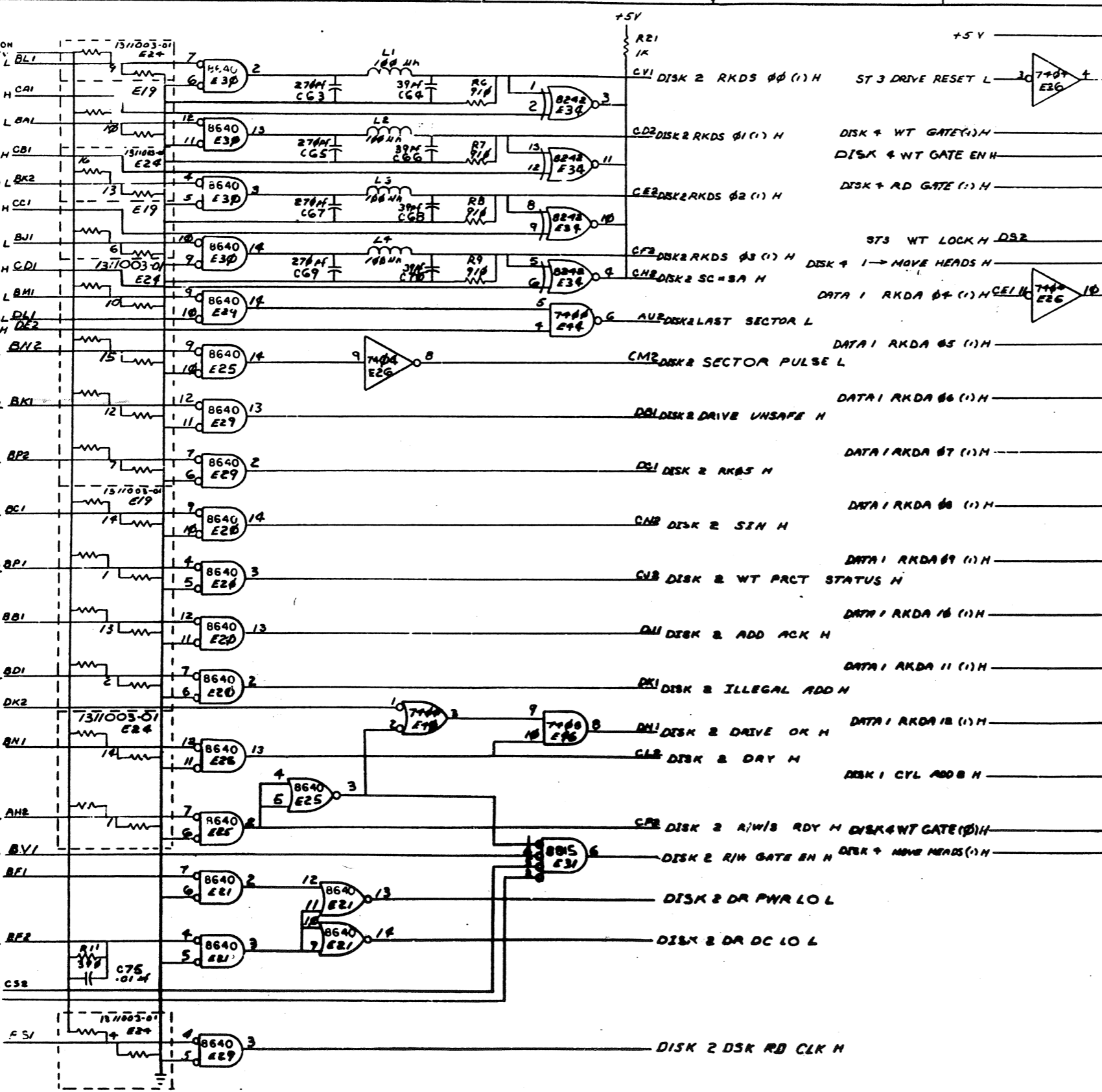
FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	REV NO.
RKII-D				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN.	DATE	<b>digital</b> EQUIPMENT CORPORATION TITLE: DISK CONTROL RKII-D	
TOLERANCES	CHK'D	DATE		
DECIMALS ANGLES	ENG	DATE		
.XX = .005 .XX = .02 .X = .1	PROB'G	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1	PRD.	DATE		
MATERIAL	NEXT HIGHER ASSY		SIZE CODE	NUMBER
+	B-DC-RKII C		D CS	M7255-0-1
FINISH	SCALE NCNE		SHEET	OF
+	3 OF		DIST	

D  
C  
B





DIGITAL EQUIPMENT CORPORATION  
 DR BUS SEL CNTR 3 (1) L BL1  
 DATA 1 RKDA 00 (1) H CA1  
 DR BUS SEC CNTR 1 (1) L BA1  
 DATA 1 RKDA 01 (1) H CB1  
 DR BUS SEC CNTR 2 (1) L BK2  
 DATA 1 RKDA 02 (1) H CC1  
 DR BUS SEC CNTR 3 (1) L BJ1  
 DATA 1 RKDA 03 (1) H CD1  
 DR BUS INDX PLS L BH1  
 DISK 4 RD HEADER (0) L DL1  
 ST 3 GEN DATA H DE2  
 DR BUS SEC PULSE L BH2  
 DR BUS WT CHK L BK1  
 DR BUS RKAS L BP2  
 DR BUS SIN L BC1  
 DR BUS WT PRCT STATUS L BP1  
 DR BUS ADD ACK L BB1  
 DR BUS LOG ADD INTL BD1  
 ST 3 DRIVE RESET L DK2  
 DR BUS DRY L BN1  
 DR BUS R/W/S RDY L AH2  
 DISK 1 POLL H BV1  
 BUS AC LO L BE1 (UNIBUS)  
 DR BUS DC LO L BE2 (DISK BUS)  
 ST 2 B CNTRL RDY H CS2  
 DISK 3 DRIVE BAD H  
 DR BUS RD CLK L ES1



REVISIONS

REV	CHANGE NO

DEF / DPM NO  
 CHD 102-B

FIRST USED ON	QTY	DESCRIPTION	PART NO	ITEM NO
RK11-D				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS		ANGLES		
		10° 30'		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL				
NEXT HIGHER ASSEMBLY				
B-DD-RK11-D				
FINISH				
SCALE NONE				
SHEET 3 OF 3				

PARTS LIST

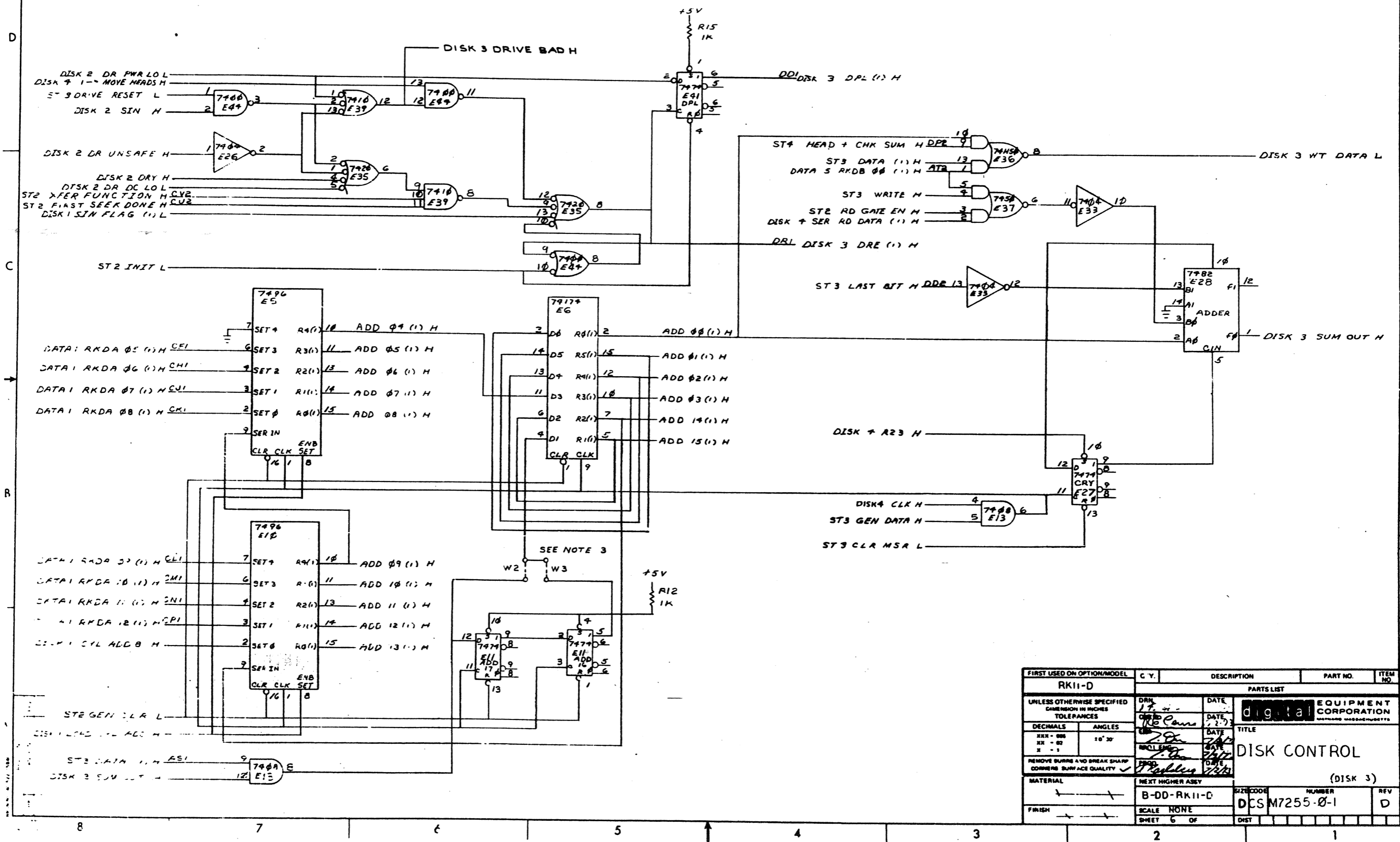
**DIGITAL EQUIPMENT CORPORATION**  
 MAYLAND MASSACHUSETTS

TITLE  
**DISK CONTROL**  
 (DISK 2)

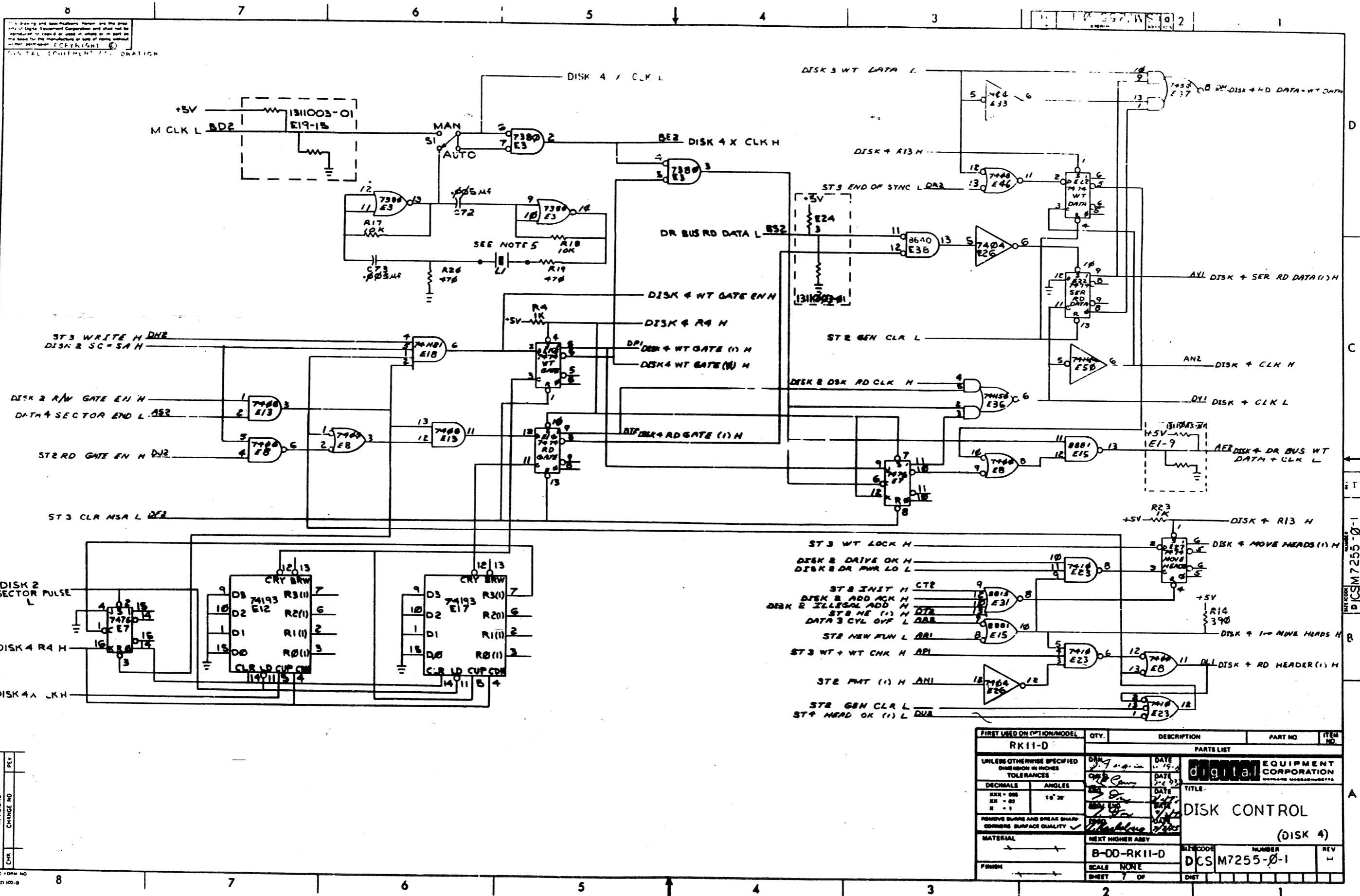
SIZE CODE NUMBER REV  
 B-DD-RK11-D DCS M7255-0-1 F

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DIGITAL EQUIPMENT CORPORATION



FIRST USED ON OPTION/MODEL	C.Y.	DESCRIPTION	PART NO.	ITEM NO.
RK11-D				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		DATE	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE	TITLE	
XXX - 000	10' 30"	DATE	DISK CONTROL	
XX - 00		DATE	(DISK 3)	
X - 0		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSEMBLY	SIZE CODE	NUMBER	REV
	B-DD-RK11-D		DCS M7255-0-1	D
FINISH	SCALE NONE	SHEET 6 OF	DIST	



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43. THE FOLLOWING INFORMATION IS FOR INFORMATION ONLY:

44. THE FOLLOWING INFORMATION IS FOR INFORMATION ONLY:

FIRST USED ON (OPTION/MODEL)	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK11-D				
UNLESS OTHERWISE SPECIFIED				
DIMENSIONS IN INCHES		DATE	PARTS LIST	
TOLERANCES		DATE	DIGITAL EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE	MILWAUKEE	
0.005	10' 30"	DATE	TITLE	
0.010		DATE	DISK CONTROL	
0.015		DATE	(DISK 4)	
REMOVE BURRS AND BREAK SHARP EDGES		DATE	MATERIAL	
CORRUPT SURFACE QUALITY		DATE	NEXT HIGHER ASSY	
		DATE	B-00-RK11-D	
		DATE	SCALE NONE	
		DATE	SHEET 7 OF	
		DATE	DIST	
		DATE	PART CODE	
		DATE	NUMBER	
		DATE	DCS M7255-0-1	
		DATE	REV	
		DATE	L	

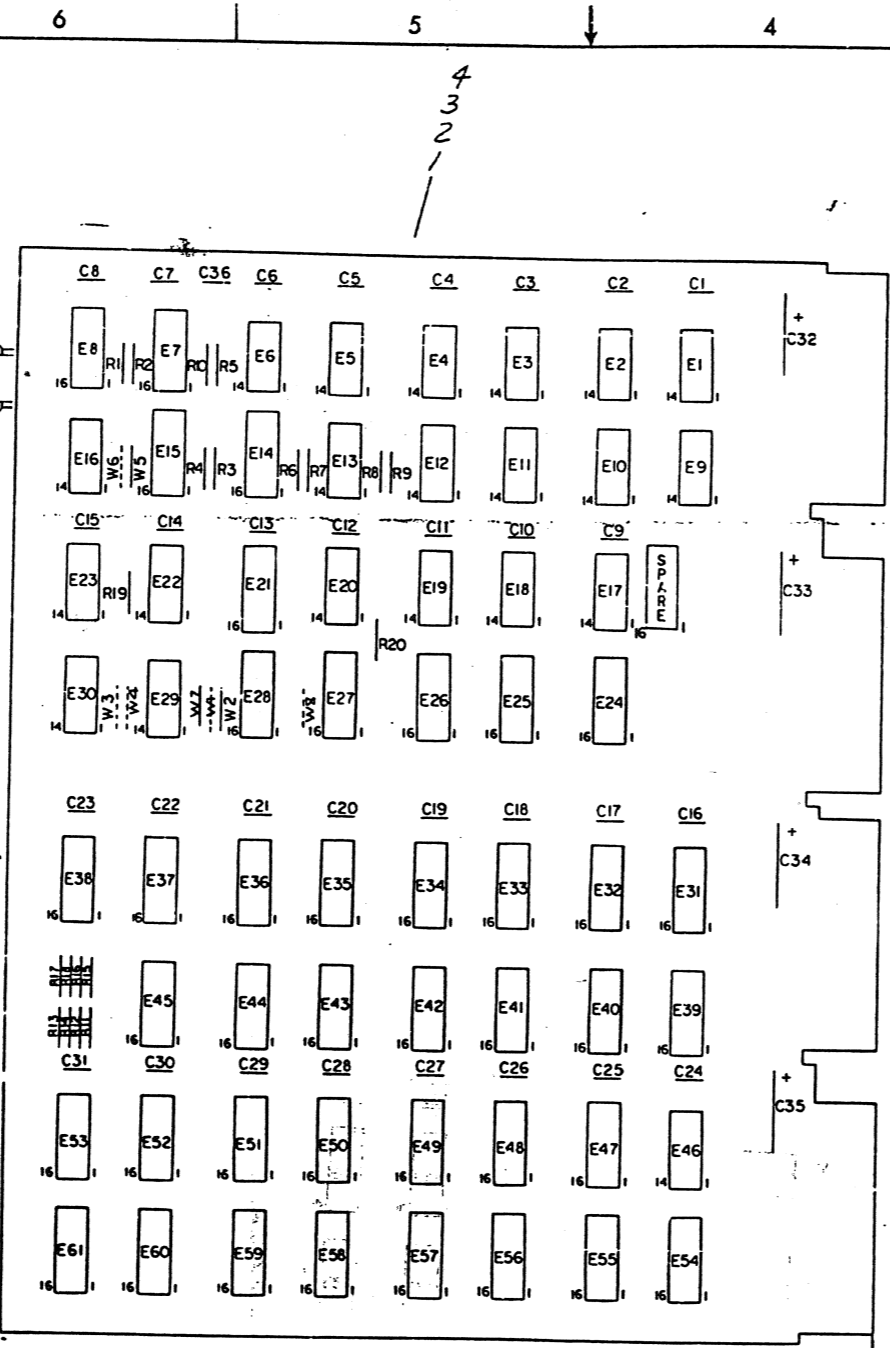
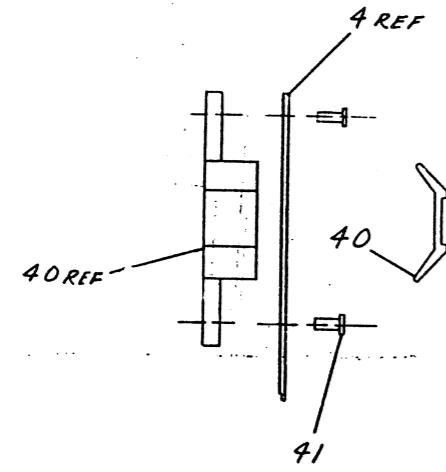
PART CODE DCS M7255-0-1

A



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**NOTES:**



PIN NOMENCLATURE  
MODULE RK11-D

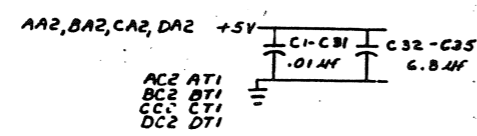
\* DEC 8640'S WERE PHASED IN AS 380 REPLACEMENTS  
\*\* 380 FAILURES SHOULD BE REPLACED BY 8640'S

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	R6	5.6K 1/4 W 5% CC	1301874	43
3	WB, WS, W7	INSULATED JUMPER L-277-1	9206732	42
8		EYELET #659-7 E.B. STIMPSON	9206732	41
4		HANDLE, FLIP CHIP MAGENTA	9206732	40
4	E52, E53, E60, E61	I.C. DEC 74157	1710655	59
8	E48-E51, E56-E59	I.C. DEC 74153	1710655	58
1	E46	I.C. DEC 8291 DC	1909470	37
1	E38	DIP RESISTOR PACK	1311003-02	36
5	E33-E37	I.C. DEC 74170	1710655	57
7	E31, E32, E39, E40, E47, E54, E55	I.C. DEC 74193	1710655	56
1	E30	I.C. DEC 74170	1710655	55
10	E24-E28, E41-E45	I.C. DEC 8271	1709205	32
1	E23	I.C. DEC 8881	1909205	31
2	E22, E29	I.C. DEC 7473	1705597	30
1	E21	I.C. DEC 4807	1709567	29
1	E18	I.C. DEC 74121	1709567	28
1	E17	I.C. DEC 7437	1710091	27
1	E13	I.C. DEC 7412	1709205	26
1	E12	I.C. DEC 7400	1705575	25
4	E11, E16, E19, E20	I.C. DEC 7474	1705547	24
1	E10	I.C. DEC 74116	1709205	23
1	E9	I.C. DEC 74155	1909053	22
1	E8	I.C. DEC 74161	1910250	21
3	E7, E14, E15	I.C. DEC 74123	1910436	20
1	E5	I.C. DEC 74174	1909667	19
2	E4, E6	I.C. DEC 74150	1909205	18
1	E3	I.C. DEC 7400	1909064	17
1	E2	I.C. DEC 74184	1909931	16
1	E1	I.C. DEC 7418	1910155	15
4	R15-R18	RES. 680Ω 1/4W 5% CC	1301924	14
4	R11-R14	RES. 330Ω 1/4W 5% CC	1300275	13
1	R10	RES. 20K 1/4W 5% CC	1302391	12
4	R8, R9, R19, R20	RES. 1K 1/4W 5% CC	1300565	11
4	R3-R5, RT	RES. 5.1K 1/4W 1% MF	1304854	10
1	R2	RES. 370Ω 1/4W 5% CC	1300367	9
1	R1	RES. 180Ω 1/4W 5% CC	1301322	8
1	C36	CAP. 150PF 100V 5% D.M.	1000019	7
4	C32-C35	CAP. 6.8UF 35V 20% TANT	1003067	6
31	C1-C31	CAP. .01UF 100V 20% D15C.	1001610	5
1		ETCHED CIRCUIT BOARD	5009987	4
REF		MODULE ECO HISTORY	B-M-N-M7256-0-3	3
REF		ASSY/DRILLING HOLE LAYOUT	D-M-N-M7256-0-2	2
RI		X-Y COORDINATE HOLE LOCATION	R-CO-M7256-0-1	1

IC TYPE	GND	+5V
DEC 7407	8	16
DEC 7473	11	4
DEC 74170	8	16
DEC 74193	8	16
DEC 74161	8	16
DEC 74157	8	16
DEC 74153	8	16
DEC 8271	8	16
DEC 8640	1	8

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

IC PIN LOCATIONS



FIRST USED ON OPTION MODEL  
RK11-D

ETCH BOARD REV D

digital EQUIPMENT CORPORATION  
MAYNARD MASSACHUSETTS

DATA PATHS

E-I-RK11-D

SIZE CODE: DCS M7256-0-1

NUMBER: 1

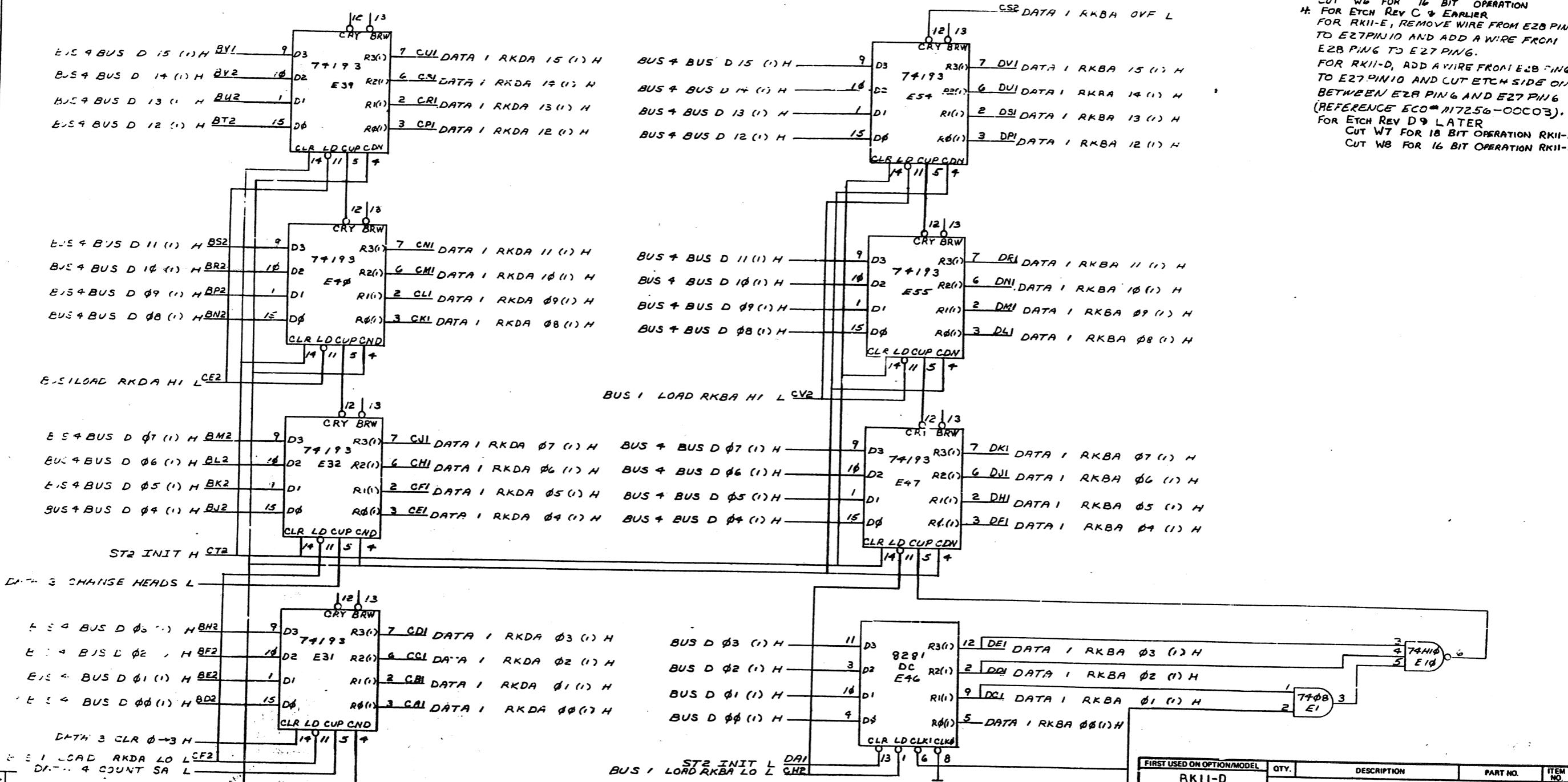
REV: E

SCALE: 1:1

SHEET 2 OF 2

1-0-007-WSJ 2  
 1000 1111

- NOTES:
- CUT W1 FOR 16 BIT OPERATION (RKII-D)  
 CUT W2 FOR 18 BIT OPERATION (RKII-E)
  - CUT W3+W4 FOR 16 BIT OPERATION
  - CUT W5 FOR 18 BIT OPERATION  
 CUT W6 FOR 16 BIT OPERATION
  - FOR ETCH REV C & EARLIER  
 FOR RKII-E, REMOVE WIRE FROM E28 PING  
 TO E27 PIN 10 AND ADD A WIRE FROM  
 E28 PING TO E27 PING.
  - FOR RKII-D, ADD A WIRE FROM E28 PING  
 TO E27 PIN 10 AND CUT ETCH SIDE ONE  
 BETWEEN E28 PING AND E27 PING  
 (REFERENCE ECO# 117256-00003).  
 FOR ETCH REV D & LATER  
 CUT W7 FOR 18 BIT OPERATION RKII-E  
 CUT W8 FOR 16 BIT OPERATION RKII-D



FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RKII-D				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
.XXX - .008	±0°30'	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL		NEXT HIGHER ASSY.		
FINISH		B-DD-RKII-D		
SCALE NONE		SIZE CODE NUMBER		
SHEET 3 OF		DCSM7256-0-1		
DIST.		REV. D		
		TITLE DATA PATHS (DATA 1)		

REV. C  
DCSM7256-0-1

A

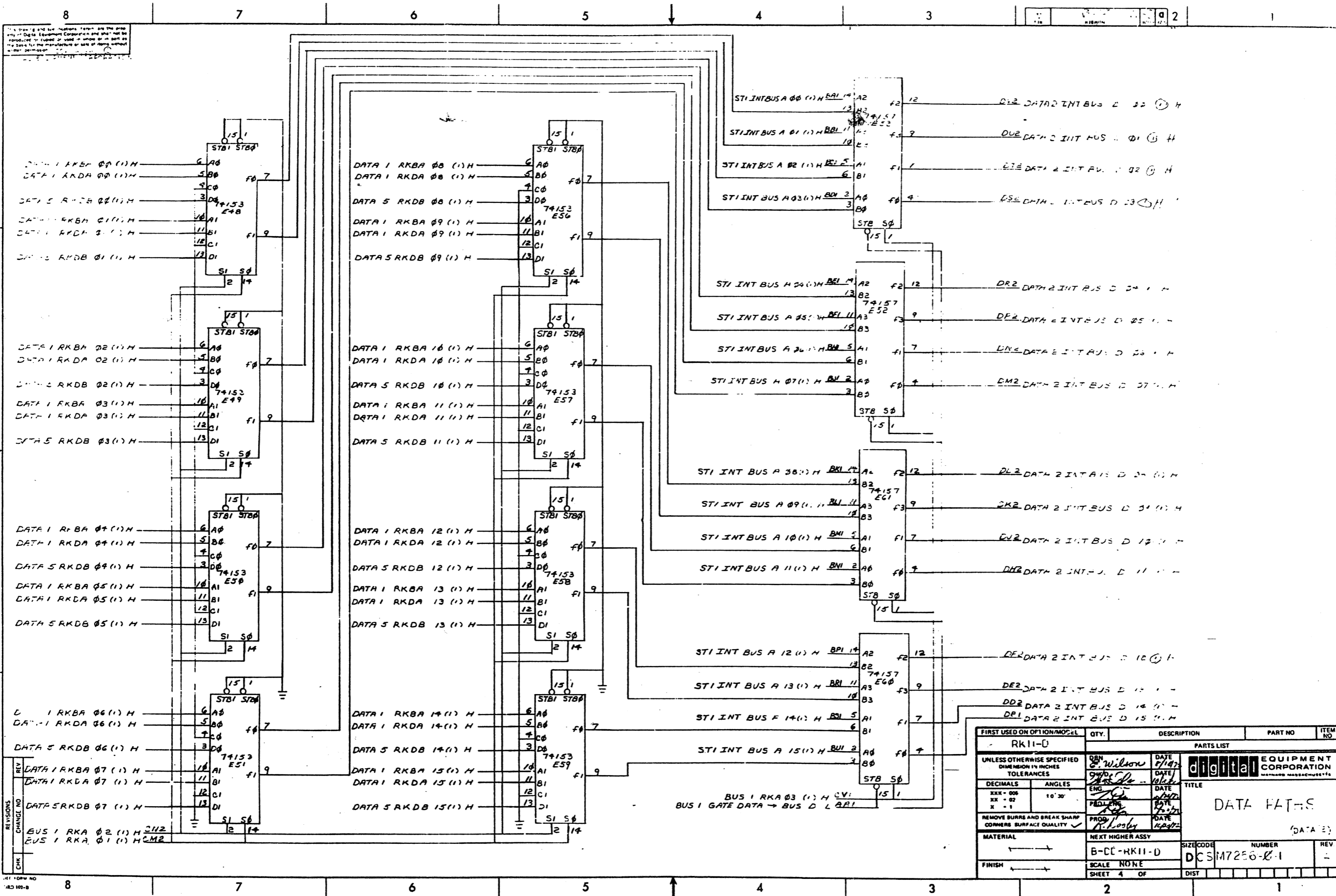
B

C

D

REV. C  
CHANGE NO.  
101-B

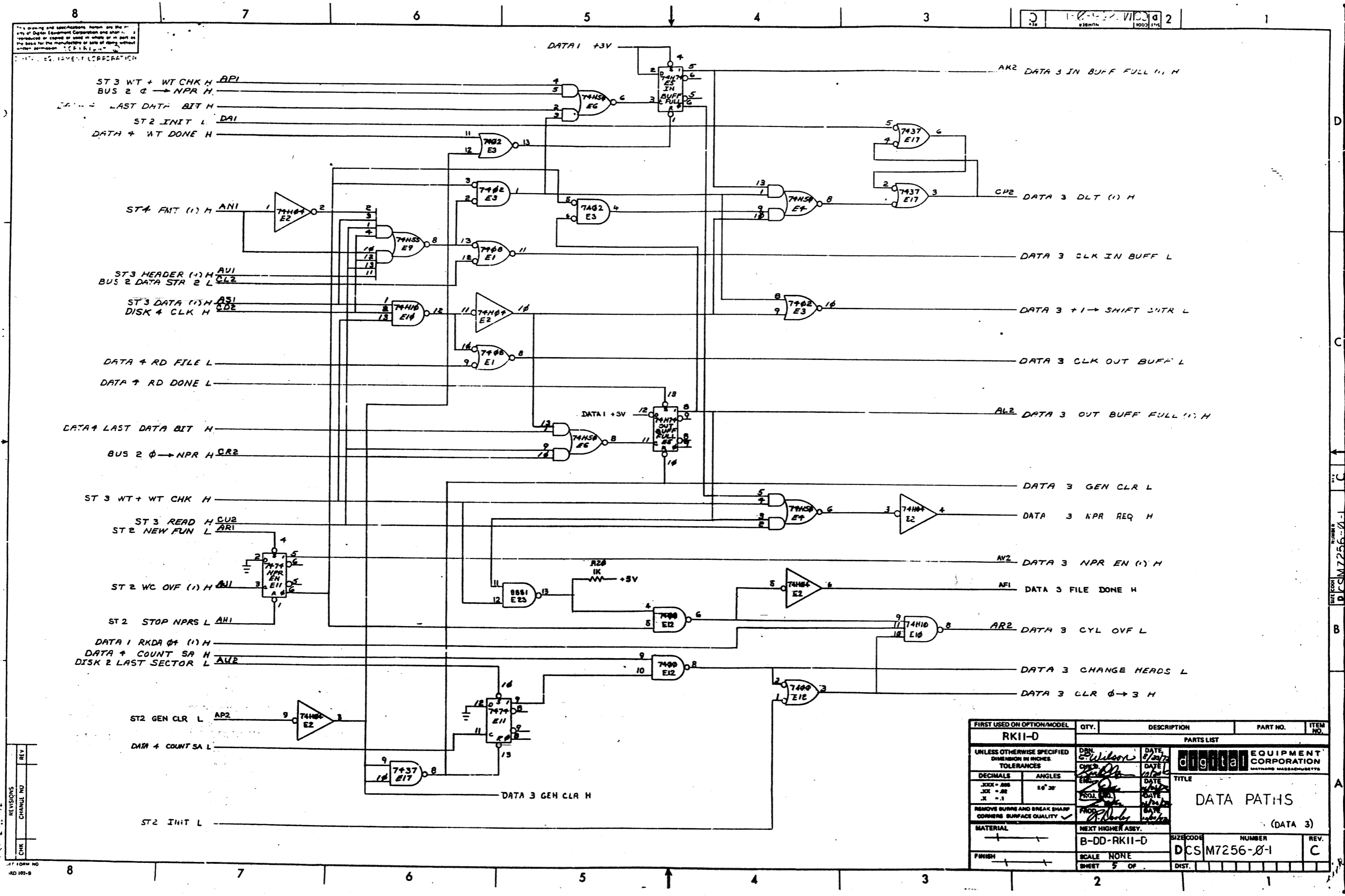
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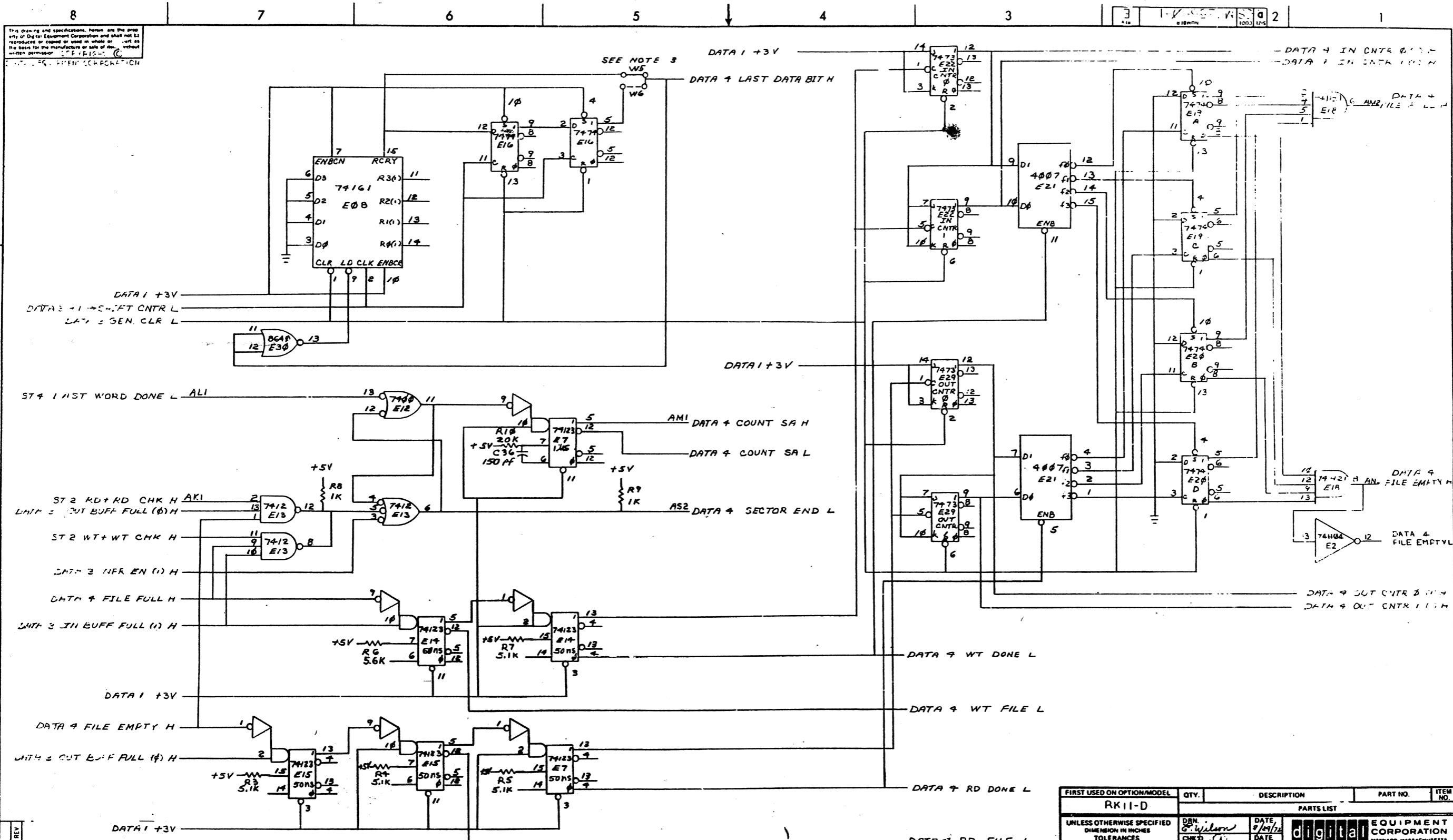
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO	ITEM NO
RK11-D		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DATE 9/19/72	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE 10/2/72	TITLE	
XX - 008	10' 30"	DATE 10/2/72	DATA PARTS	
XX - 02		DATE 10/2/72		
X - 1		DATE 10/2/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 10/2/72		
MATERIAL	NEXT HIGHER ASSY	DATE 10/2/72		
	B-CC-RK11-D	DATE 10/2/72		
FINISH	SCALE NONE	DATE 10/2/72		
	SHEET 4 OF	DATE 10/2/72		
	DIST	DATE 10/2/72		



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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK11-D				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS		ANGLES	PARTS LIST	
.001 - .005		±0°30'	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
.005 - .010			TITLE	
.010 - .020			DATA PATHS	
.020 - .030			(DATA 3)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL		NEXT HIGHER ASSY.	SIZE CODE	NUMBER
		B-DD-RK11-D	DCS	M7256-0-1
FINISH		SCALE NONE	SHEET	REV.
			5 OF	C

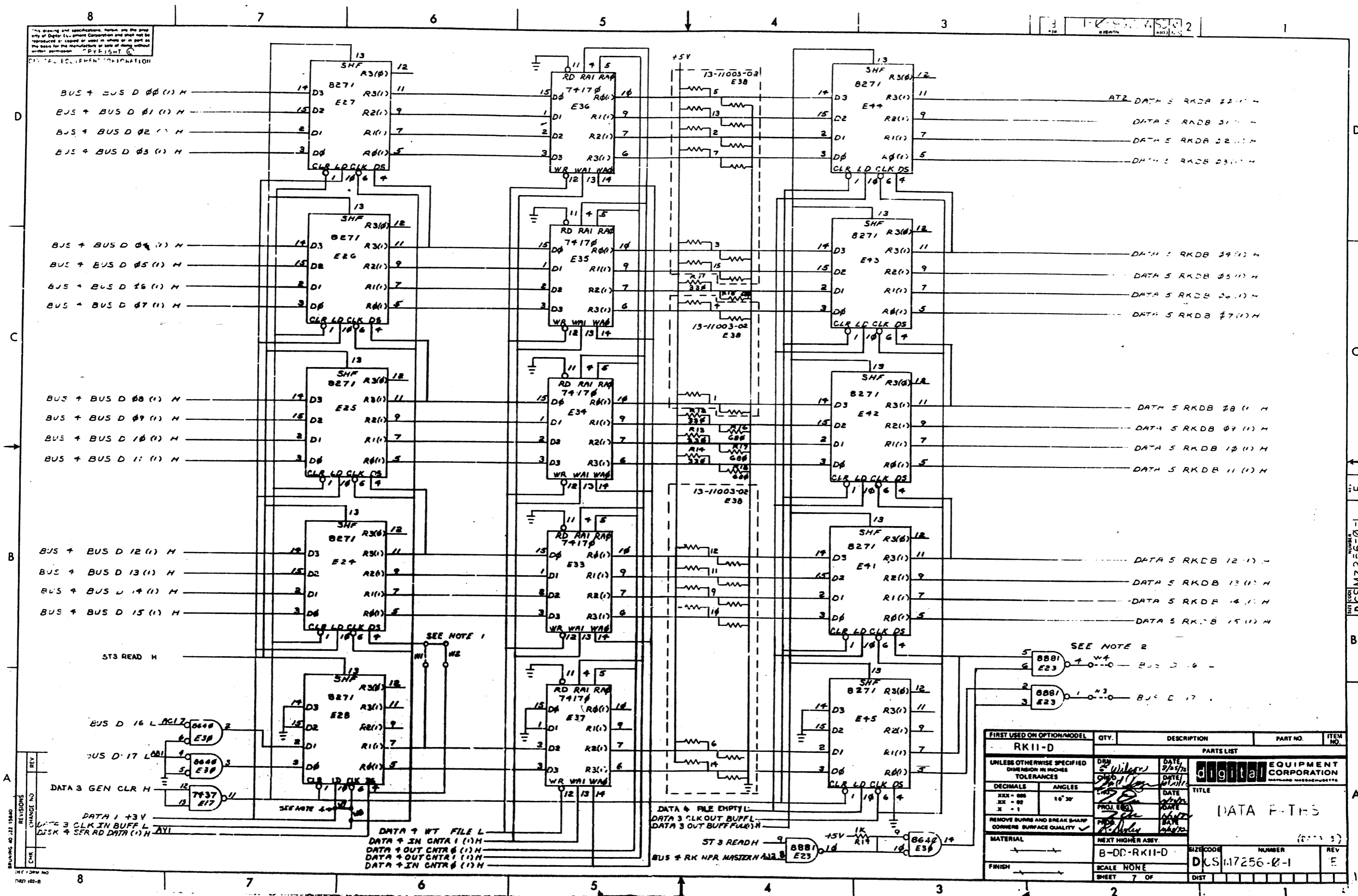


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REVISIONS	
CHANGE NO	
DATE	
BY	
CHK	
DESIGNED BY	
DWG NO	
100-100-B	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK11-D				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DBN G.W. Wilson	DATE 8/24/72	<b>digital</b> EQUIPMENT CORPORATION TITLE <b>DATA PATHS</b> DATA 4	
DECIMALS	ANGLES	DATE		
.XXX - .006	10° 30'	DATE		
.X - .1		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROB. M. Murphy	DATE 1/25/72		
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER
	B-DD-RK11-D		DCS M7256-01	REV
FINISH	SCALE	NONE	DIST.	E
	SHEET	6 OF		

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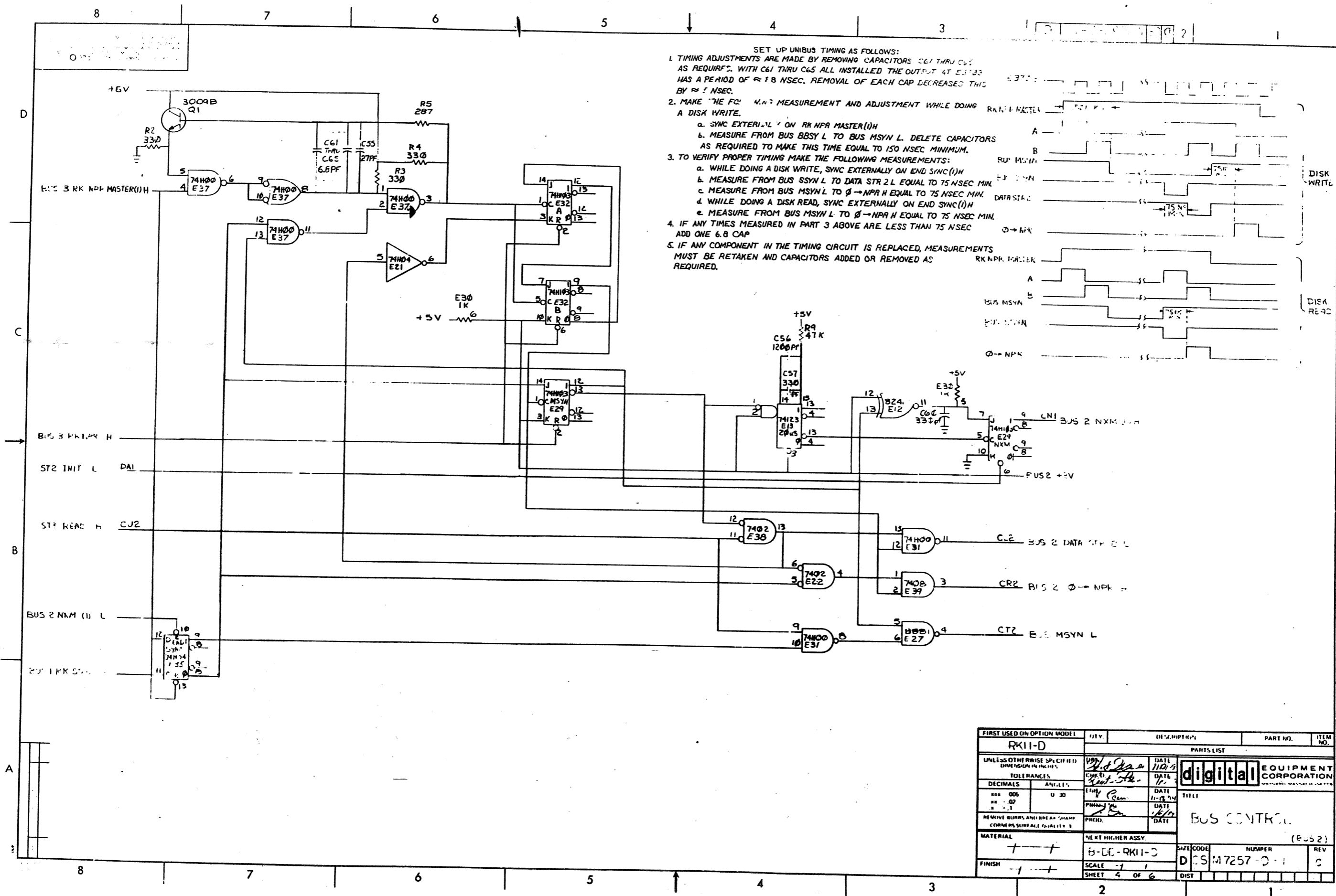
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK11-D				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS		ANGLES	TITLE	
.XX - .000		10° 30'	DATA F-TMS	
.XX - .00				
.X - .1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER
	B-0D-RK11-D		DCSM7256-0-1	REV E
FINISH	SCALE NONE		SHEET 7 OF	DIST

PART NO. DCSM7256-0-1



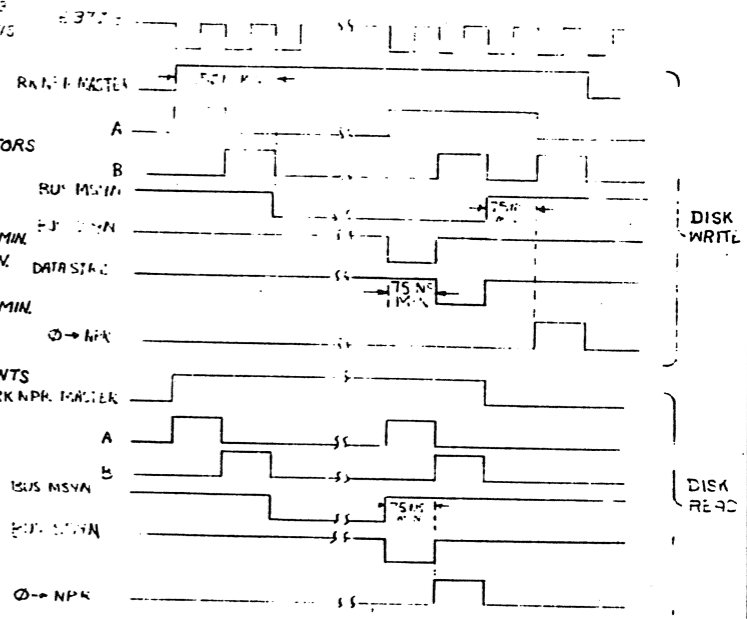




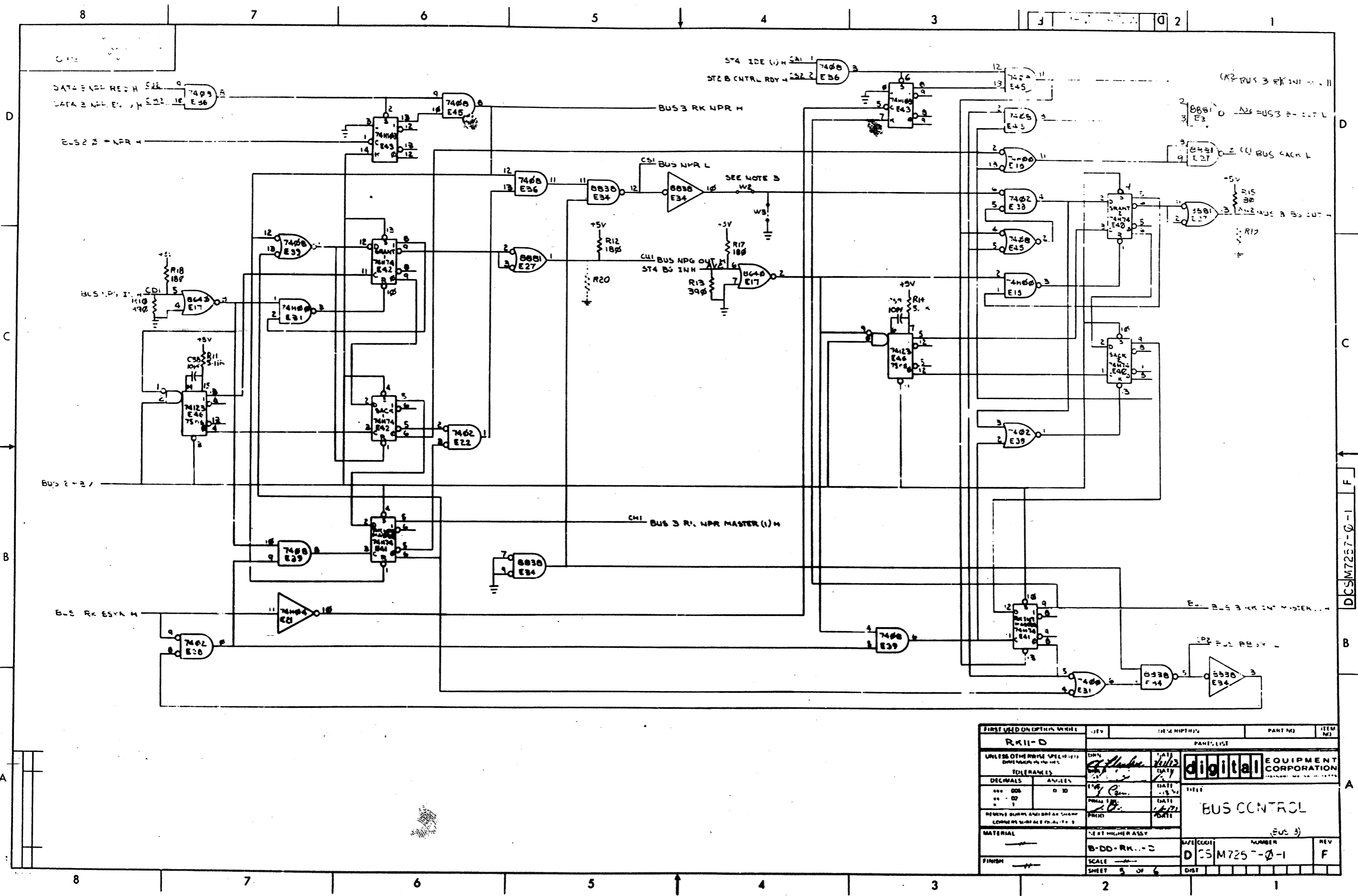


SET UP UNIBUS TIMING AS FOLLOWS:

- TIMING ADJUSTMENTS ARE MADE BY REMOVING CAPACITORS C61 THRU C65 AS REQUIRED. WITH C61 THRU C65 ALL INSTALLED THE OUTPUT AT E3123 HAS A PERIOD OF  $\approx 1.8$  NSEC. REMOVAL OF EACH CAP DECREASES THIS BY  $\approx 1$  NSEC.
- MAKE THE FOLLOWING MEASUREMENT AND ADJUSTMENT WHILE DOING A DISK WRITE.
  - SYNC EXTERNALLY ON RK NPM MASTER (1)H
  - MEASURE FROM BUS BBSY L TO BUS MSYN L. DELETE CAPACITORS AS REQUIRED TO MAKE THIS TIME EQUAL TO 150 NSEC MINIMUM.
- TO VERIFY PROPER TIMING MAKE THE FOLLOWING MEASUREMENTS:
  - WHILE DOING A DISK WRITE, SYNC EXTERNALLY ON END SYNC (1)H
  - MEASURE FROM BUS SSYN L TO DATA STR 2 L EQUAL TO 75 NSEC MIN.
  - MEASURE FROM BUS MSYN L TO  $\phi \rightarrow$  NPM H EQUAL TO 75 NSEC MIN.
  - WHILE DOING A DISK READ, SYNC EXTERNALLY ON END SYNC (1)H
  - MEASURE FROM BUS MSYN L TO  $\phi \rightarrow$  NPM H EQUAL TO 75 NSEC MIN.
- IF ANY TIMES MEASURED IN PART 3 ABOVE ARE LESS THAN 75 NSEC ADD ONE 6.8 CAP
- IF ANY COMPONENT IN THE TIMING CIRCUIT IS REPLACED, MEASUREMENTS MUST BE RETAKEN AND CAPACITORS ADDED OR REMOVED AS REQUIRED.



FIRST USED ON OPTION MODEL	REV	DESCRIPTION	PART NO.	ITEM NO.
RK11-D				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES				
TOLERANCES				
DECIMALS	ANGLES	DATE	DATE	DATE
0.005	0.30	11/18/83	11/18/83	11/18/83
0.01		11/18/83	11/18/83	11/18/83
0.02		11/18/83	11/18/83	11/18/83
0.05		11/18/83	11/18/83	11/18/83
0.1		11/18/83	11/18/83	11/18/83
REMOVE BURRS AND BREAK SHARP CORNERS SIMILAR QUALITY				
MATERIAL				
NEXT HIGHER ASSY.				
B-BE-RK11-D				
SCALE 1/1				
SHEET 4 OF 6				
digital EQUIPMENT CORPORATION				
TITLE BUS CONTROL (E32)				
DCS M7257-0-1				
REV C				



FIRST USED ON OPTION NUMBER	REV	DATE	PART NO	ITEM NO
RK11-D				
UNLESS OTHERWISE SPECIFIED TOLERANCES				
DECIMALS	ANGLES	DIGITAL EQUIPMENT CORPORATION		
0.006	0.10	BUS CONTROL		
0.01		(EUC 3)		
0.02		MATERIAL		
0.05		FINISH		
MATERIAL		SCALE		NUMBER
B-DD-RK...-2		D		CSM7257-0-1
FINISH		SHEET		REV
		5 OF 6		F

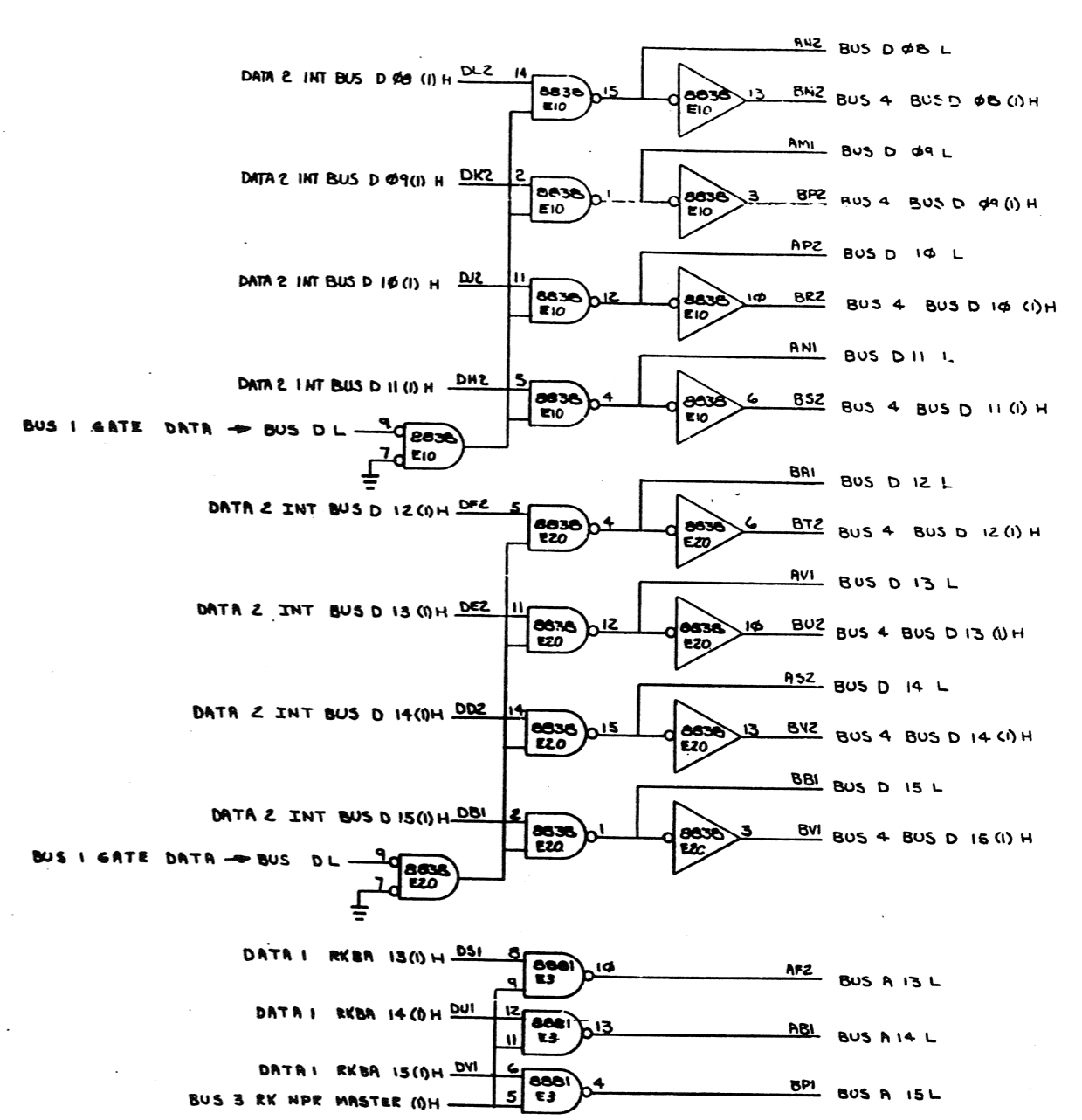
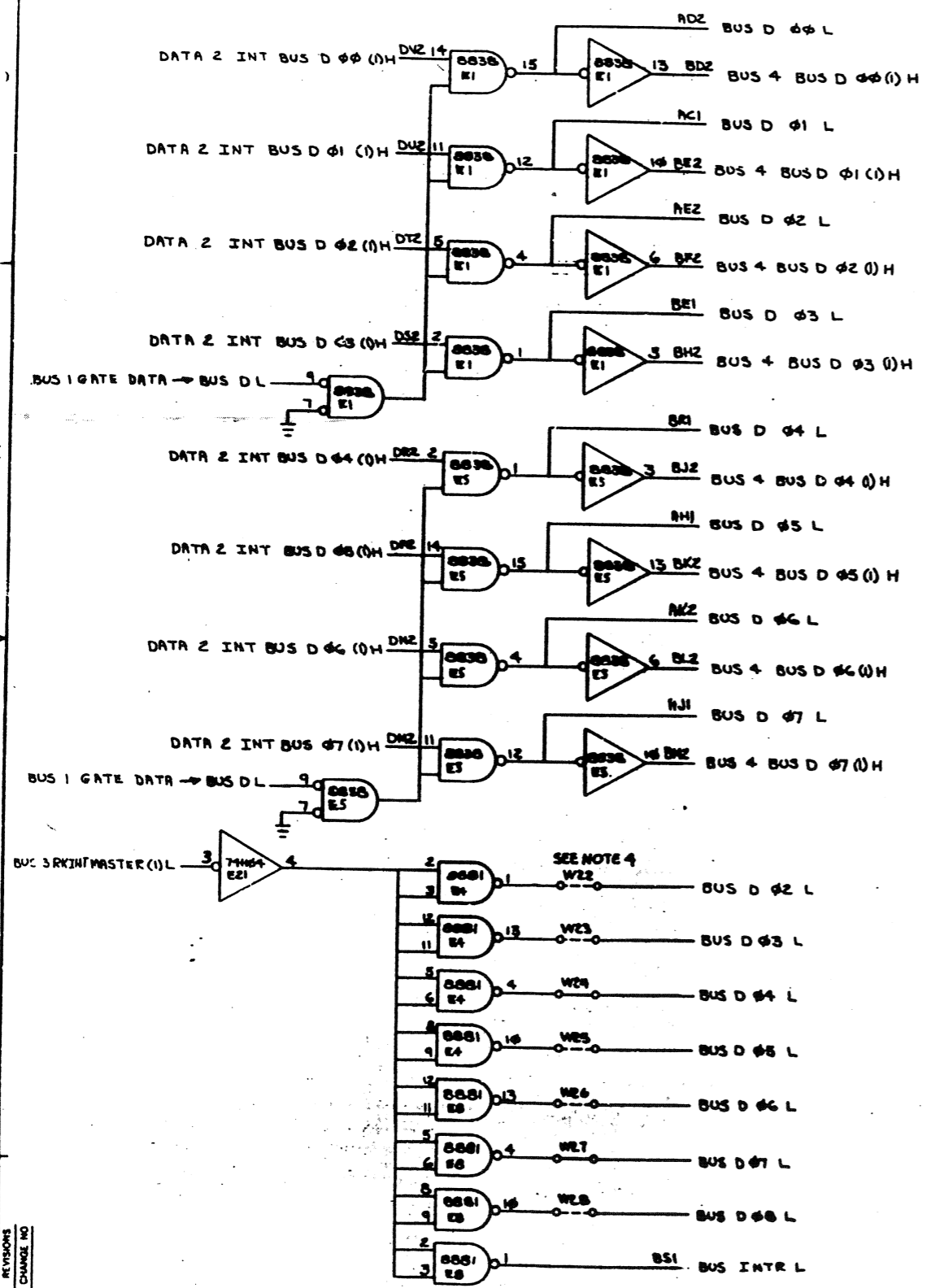


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EQUIPMENT CORPORATION

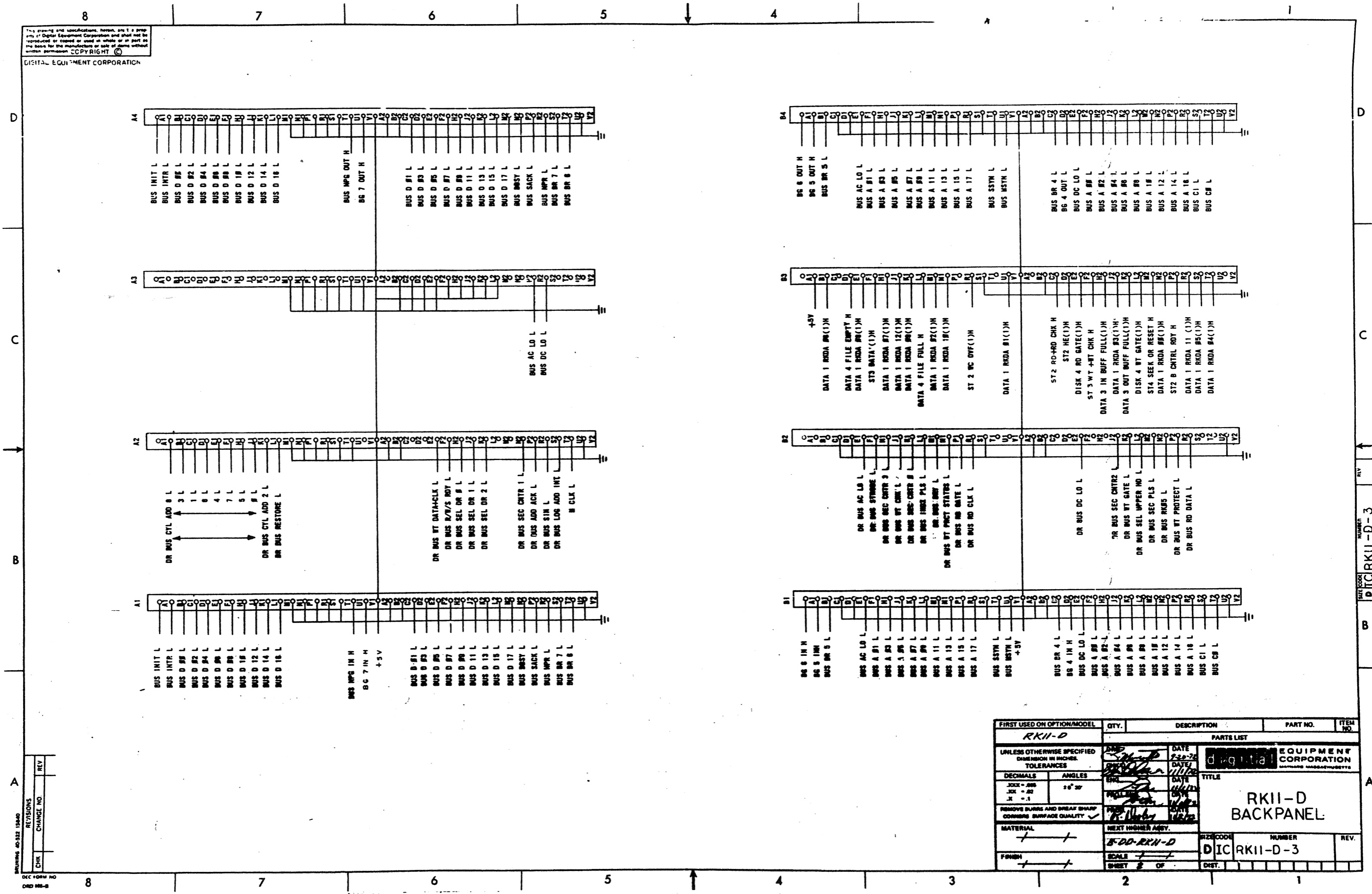


NEXT HIGHER ASSY	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK11-D				
UNLESS OTHERWISE SPECIFIED				
DIMENSIONS IN INCHES				
TOLERANCES				
FRACTIONS DECIMALS ANGLES				
.0005 .001 .005 .010 .015 .030 .050 .100 .150 .300 .500 .750 1.000				
FINISH				
MATERIAL				
PART USED ON				
B-D0-RK11-D-0				
TITLE				
BUS CONTROL				
PART USED ON				
B-D0-RK11-D-0				
DRAWING NUMBER				
DCS M7257-0-1				
REVISION				
REV. C				

REVISIONS  
CHANGE NO.  
CHK



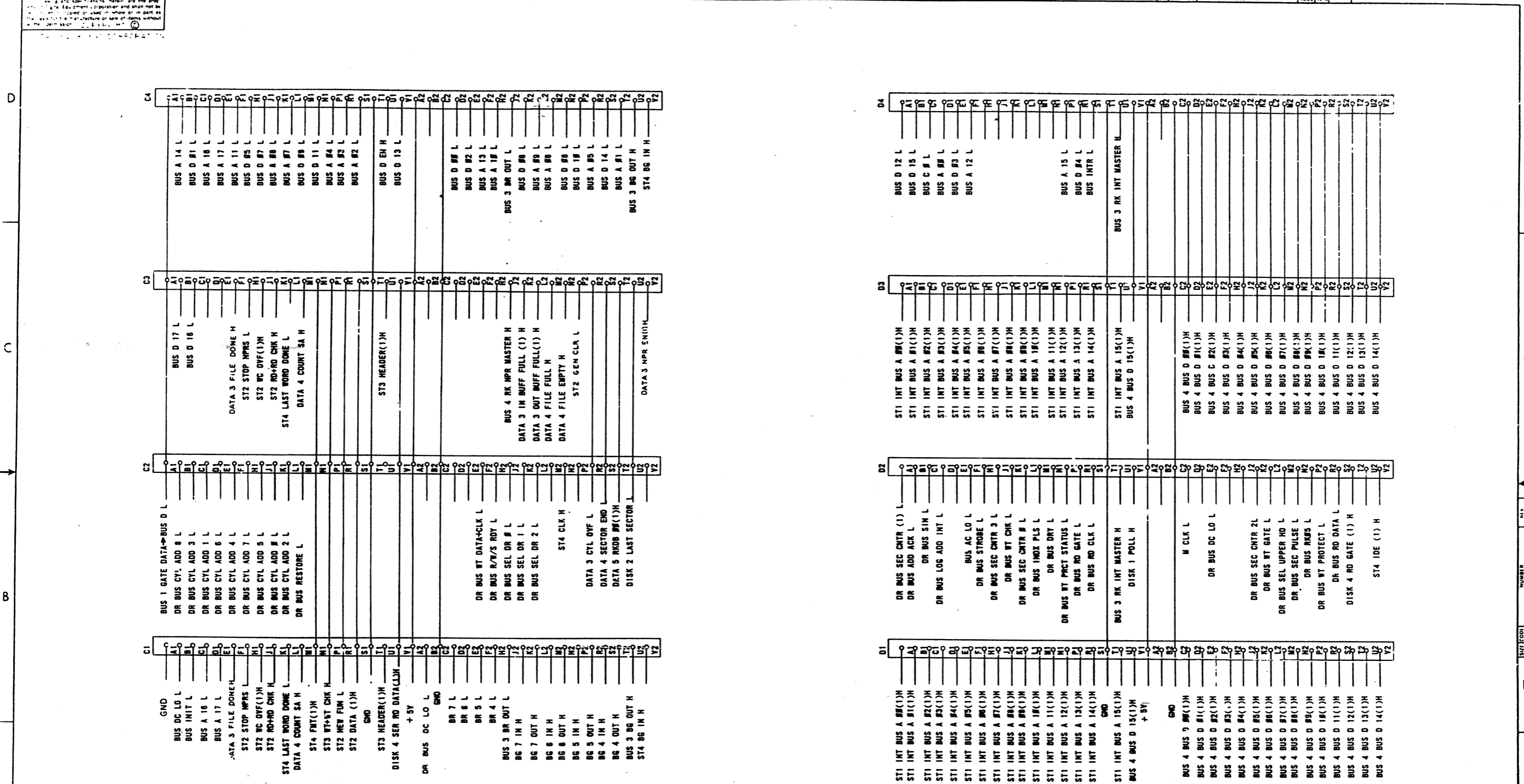
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DIGITAL EQUIPMENT CORPORATION



REV	CHANGE NO

FIRST USED ON OPTION/MODEL <b>RKII-D</b>	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES				
DECIMALS	ANGLES	DATE 2-28-76	PARTS LIST	
		DATE 11/1/72	DIGITAL EQUIPMENT CORPORATION MAYFIELD MASSACHUSETTS	
		DATE 11/1/72	TITLE	
		DATE 11/1/72	RKII-D BACKPANEL	
MATERIAL	NEXT HIGHER ASBY.	SCALE	SIZE CODE	NUMBER
	<b>B-DD-RKII-D</b>		<b>DIC</b>	<b>RKII-D-3</b>
FINISH		SHEET 2 OF 2	REV.	

REV. CODE: D I C R K I I - D - 3



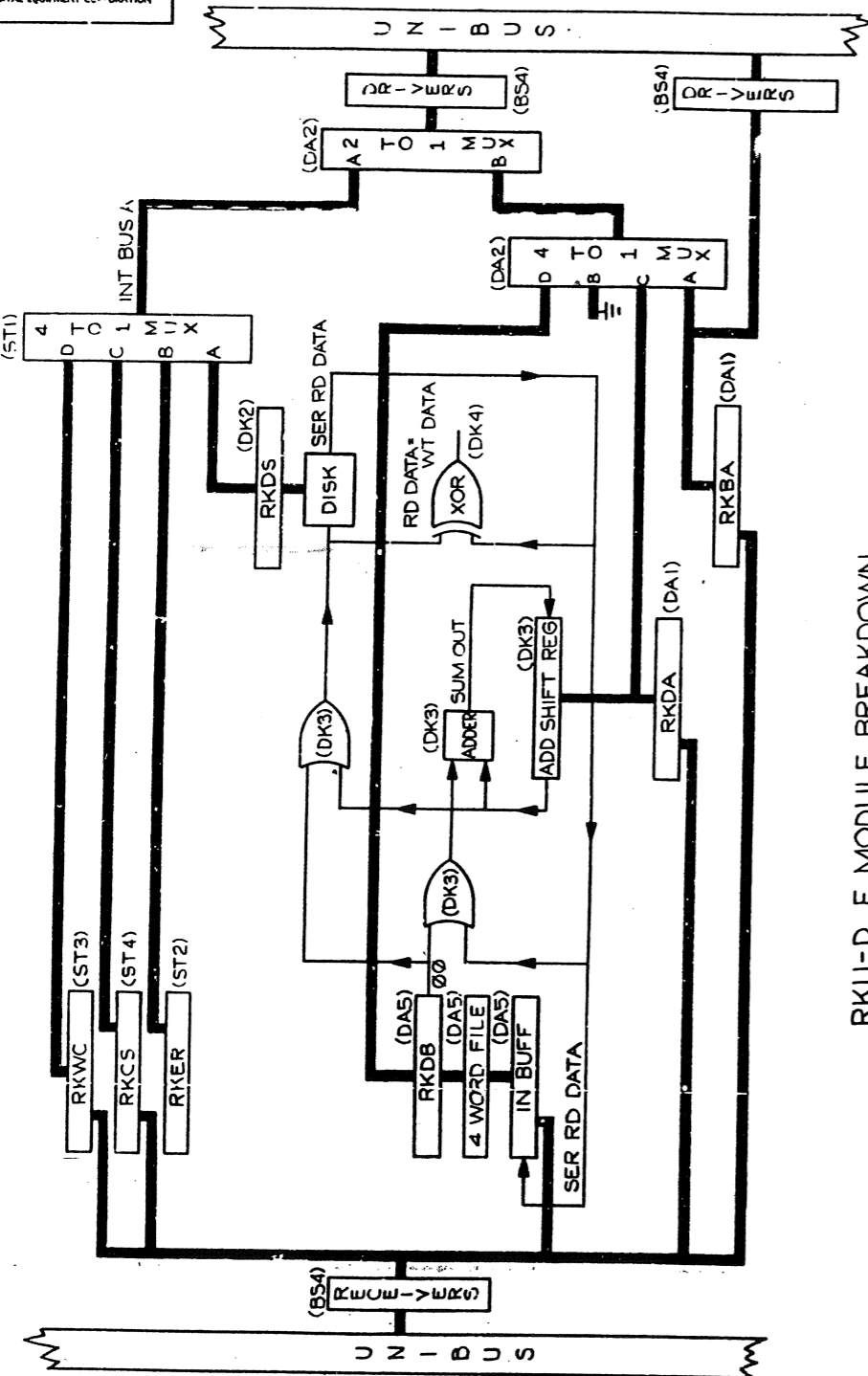
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK11-D				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DATE 1-20-72	 <b>DIGITAL CORPORATION</b> MAINE MASSACHUSETTS		
DECIMALS	DATE 1/11/72			
ANGLES	DATE 1/11/72			
XXX - 006 XX - 02 X - 1	DATE 1/11/72			
REMOVE BURNS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE 1/11/72	TITLE <b>RK11-D BACKPANEL</b>		
MATERIAL	DATE 1/11/72			
FINISH	DATE 1/11/72	NEXT HIGHER ASSY <b>B-DD-RK11-D</b>	SIZE CODE <b>DIC RK11-D-3</b>	NUMBER REV <b>C</b>
		SCALE 3 OF	DIST.	



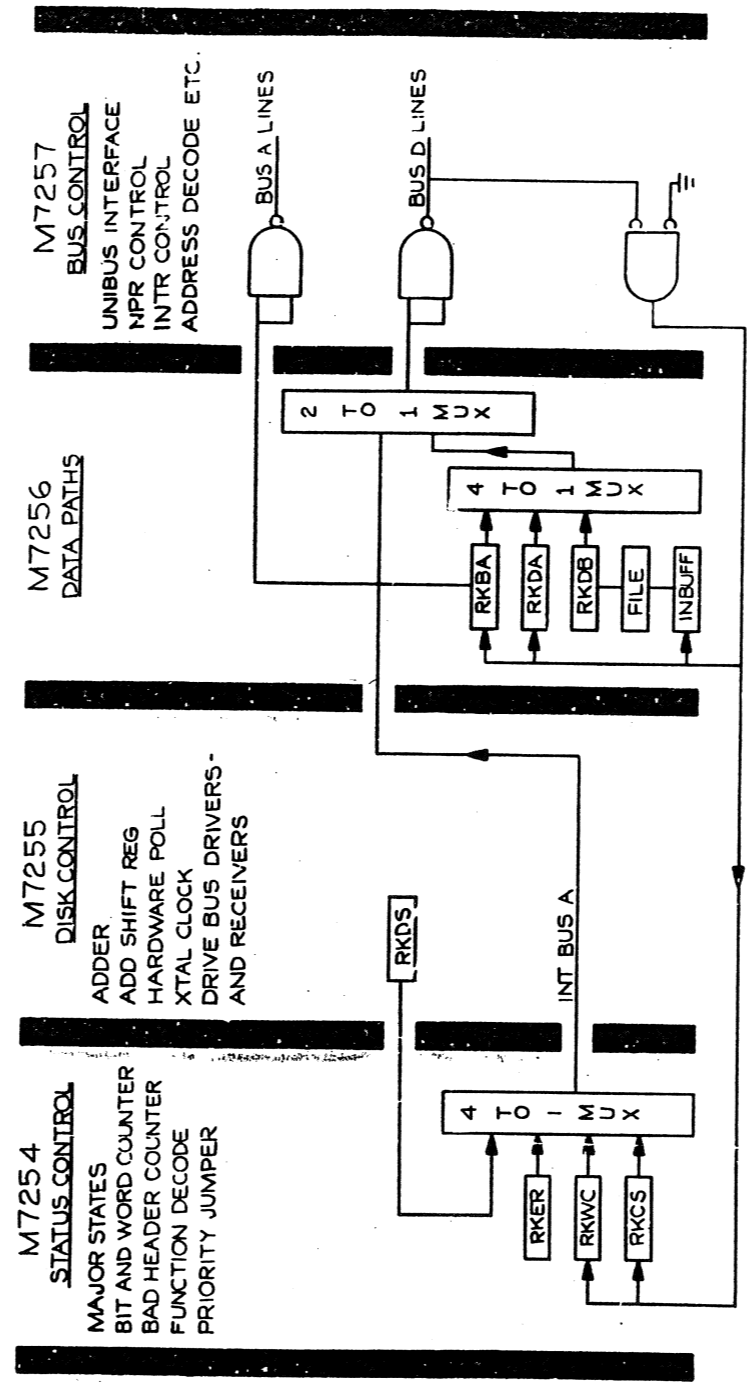
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DESIGNATES PARALLEL TRANSFER  
DESIGNATES SERIAL TRANSFER

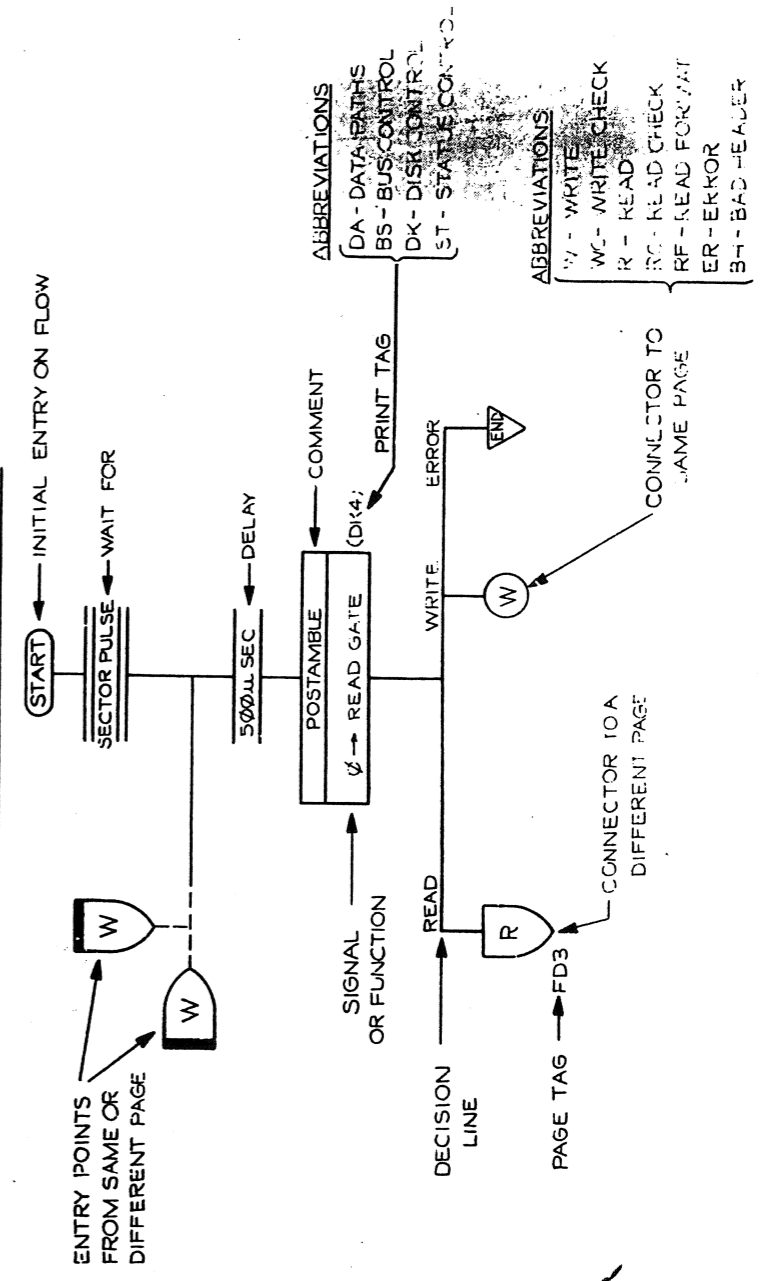
RK11-D, E DATA PATHS



RK11-D, E MODULE BREAKDOWN



FLOW DRAWING EXAMPLE



ABBREVIATIONS  
DA - DATA PATHS  
BS - BUS CONTROL  
DK - DISK CONTROL  
ST - STATUS CONTROL

ABBREVIATIONS  
W - WRITE  
WC - WRITE CHECK  
R - READ  
RC - READ CHECK  
RF - READ FOR FAT  
ER - ERROR  
BT - BAD HEADER

REV	CHANGE NO.	CHK

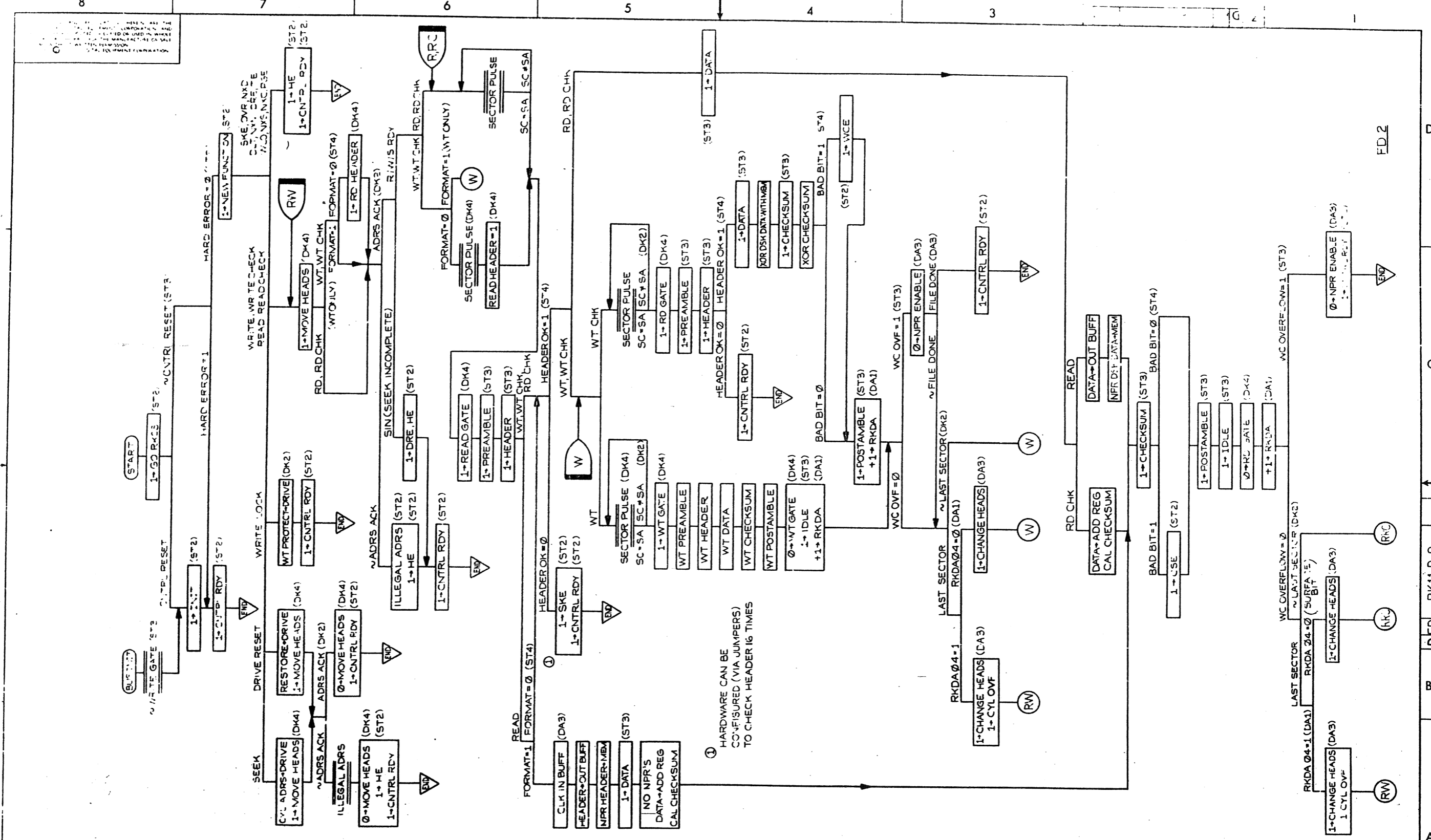
FIRST USED ON OPTION/MODEL RK11-D		QTY.	DESCRIPTION	PART NO.	ITEM NO.
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		DRN J. R. Kinnel	DATE 2-20-74		
MILLIMETERS		CHK R. R. Puro	DATE 3-13-74		
XX - 0.10	XX - 0.05	ENG J. R. Kinnel	DATE 2-19-74		
X - 0.2	X - 0.1	PRD J. R. Kinnel	DATE 2-19-74		
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROG. J. R. Kinnel	DATE 2-19-74	TITLE RK11-D, E FUNCTION FLOWS	
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE D	NUMBER RK11-D-9
FINISH		SCALE SHEET 1 OF 5		REV.	

FD-1

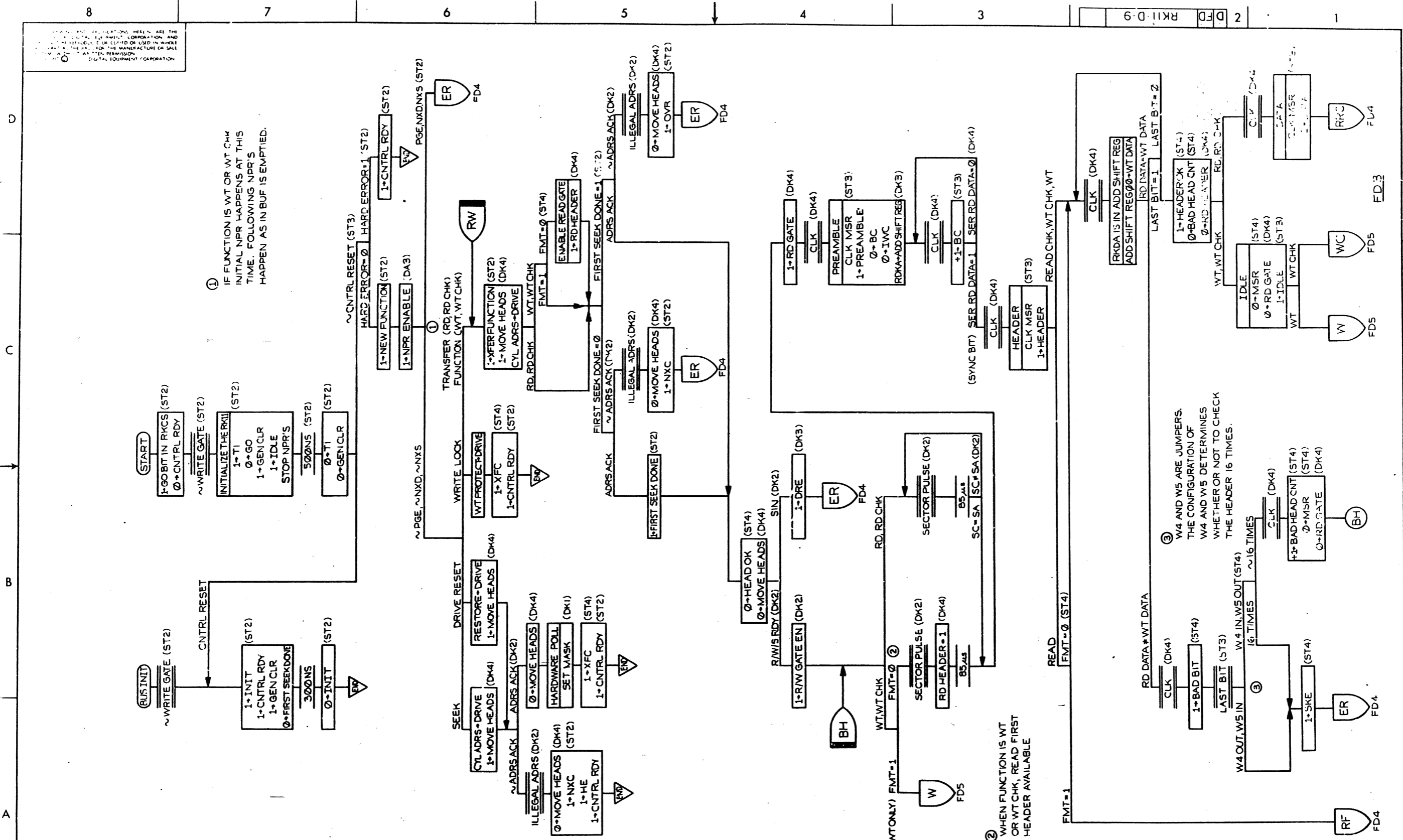
FILE LOCK NUMBER  
DFD RK11-D-9

REV	CHANGES	NO	REV

FUNCTION FLOW OF RW-20



TITLE	RK11-D-E FUNCTION FLOWS	SIZE CODE	DLFD	NUMBER	RK11-D-9	REV.	
SCALE		SHEET	2 OF 5	DIST.			



REV	CHANGE NO	REV

8

7

6

5

4

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2

1

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B

A

D

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B

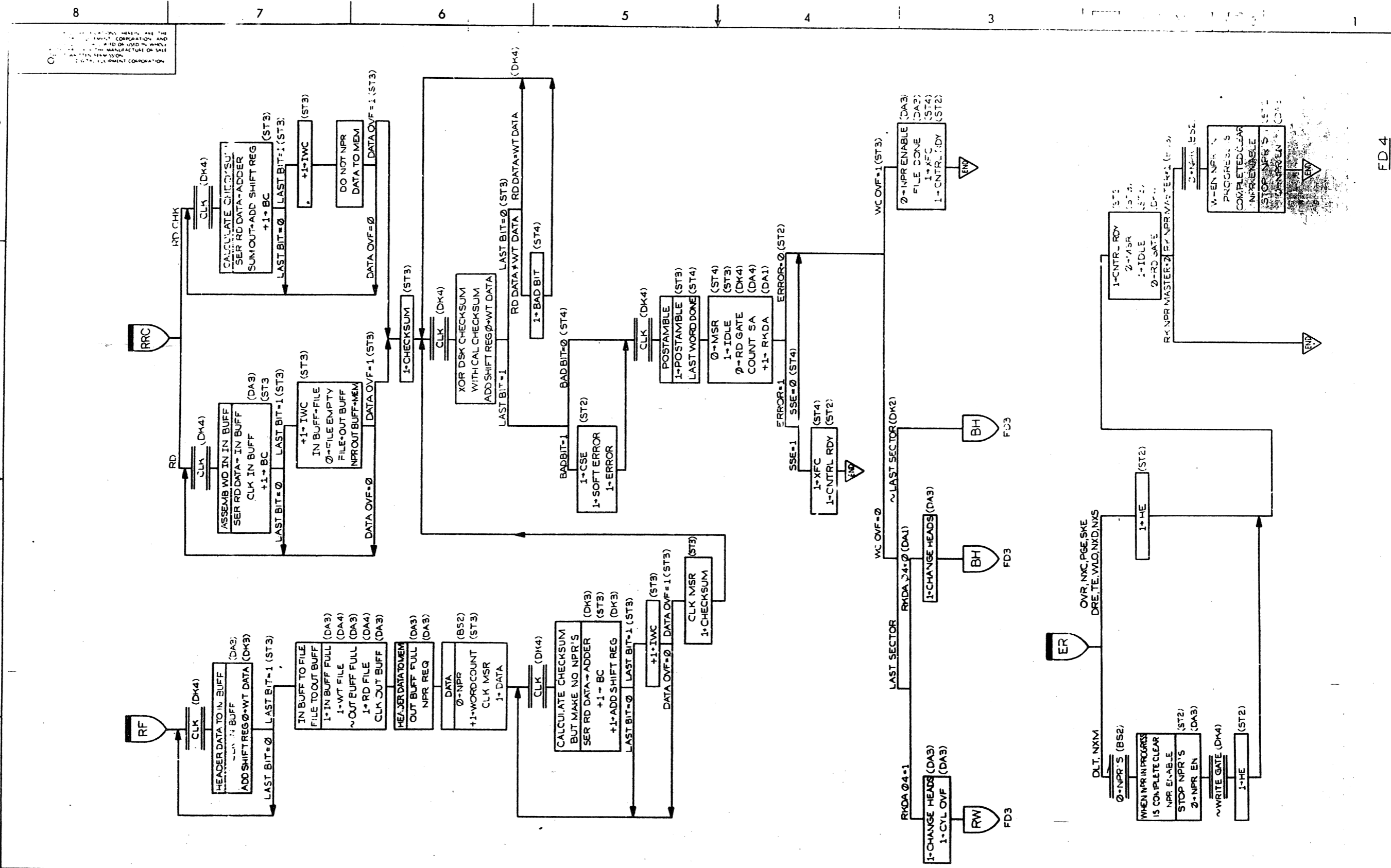
A

RKII-D-9

RKII-D-9



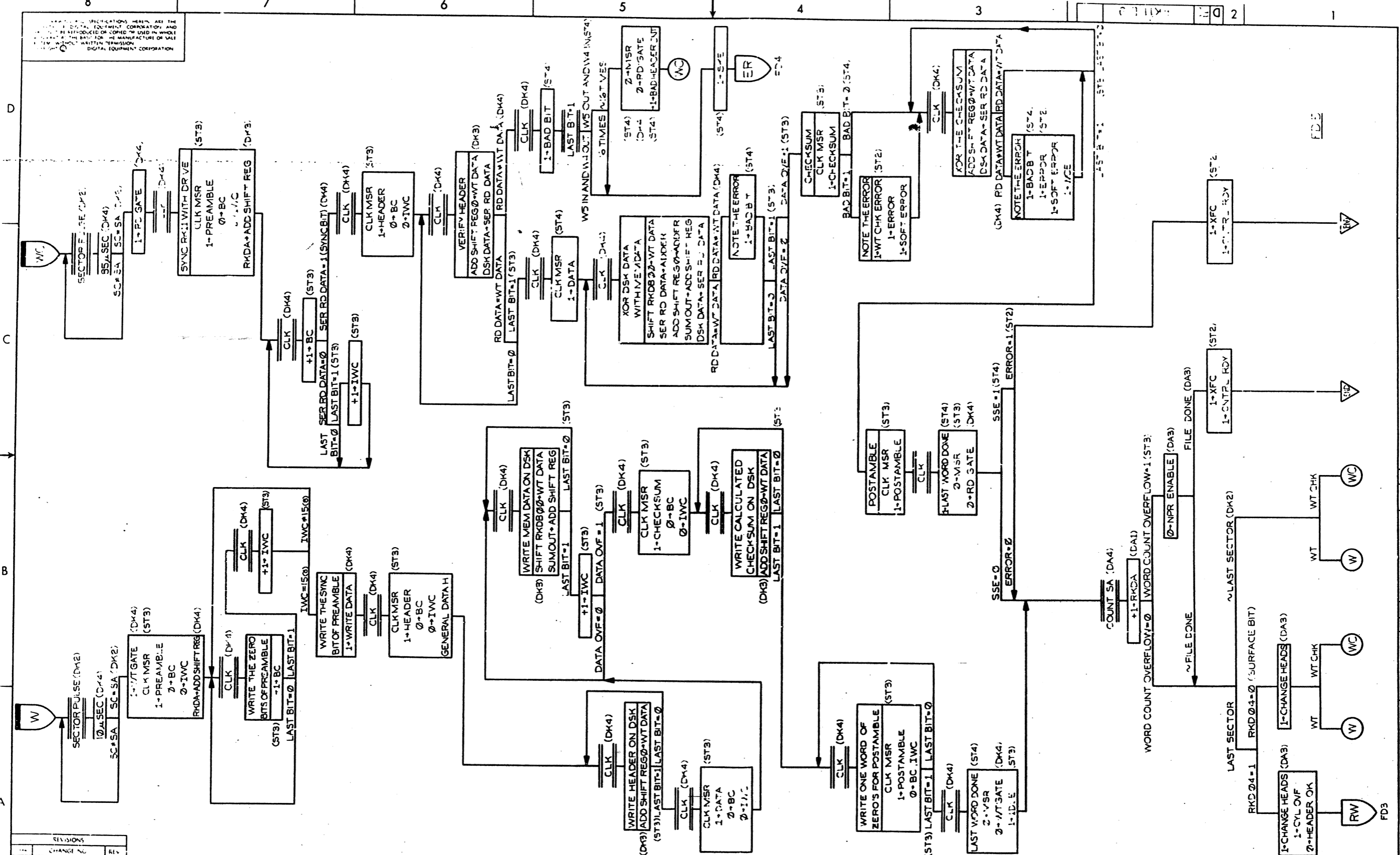
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FD 4

REVISIONS	
CHANGE NO	REV

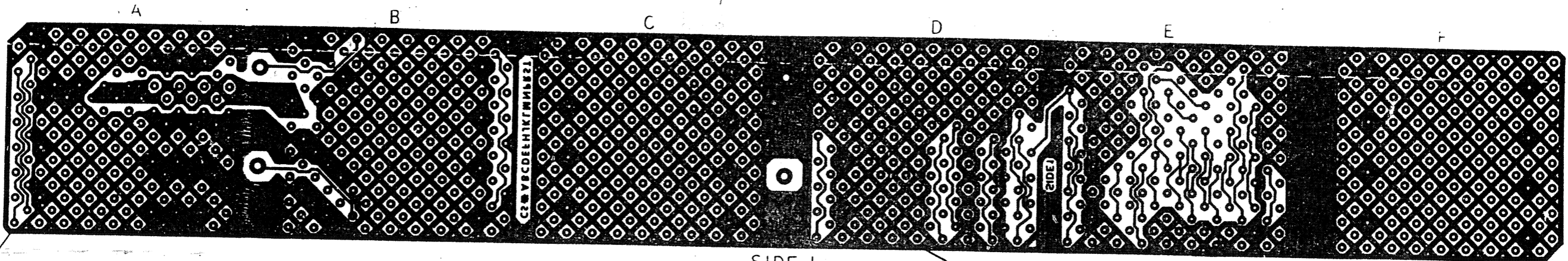
TITLE	RK11-D-9	SIZE CODE	D FD	NUMBER	RK11-D-9	REV.	
SCALE	SHEET 4 OF 5	DIST					



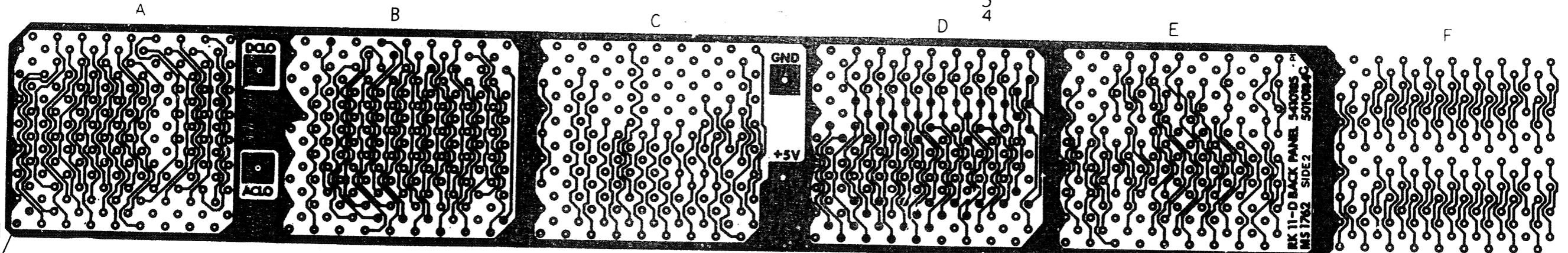
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 D C B A  
 D F D RK11-D-9  
 D F D

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SIDE 1



SIDE 2

REV	CHANGE NO	DATE	BY
A	1	1/24/72	WFD
B	1	1/25/72	WFD
MINOR			

ETCH REV	DESCRIPTION	PART NO.	ITEM NO.
1	AWT REVISION STATUS	A-WT-7009142-0	6
1	ETCH/WIRE LIST (RK11-D)	K-WL-RK11-D-2	5
1	ETCHED CIRCUIT BOARD	5010185	4
REF	MODULE ECO HISTORY	B-MH-5410185-04	3
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-5410185-0-5	2
REF	X-Y COORDINATE HOLE LOCATION	K-CO-5410185-0-9	1

UNLESS OTHERWISE SPECIFIED	DSN	DATE	TITLE
DECIMALS	Wilson	1/17/72	CIRCUIT SCHEMATIC (RK11-D)
ANGLES	DATE	1/17/72	
SIZE - .005	DATE	1/17/72	
SIZE - .010	DATE	1/17/72	

MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
	B-00-RK11-D	D	CS5410185-0-1	B

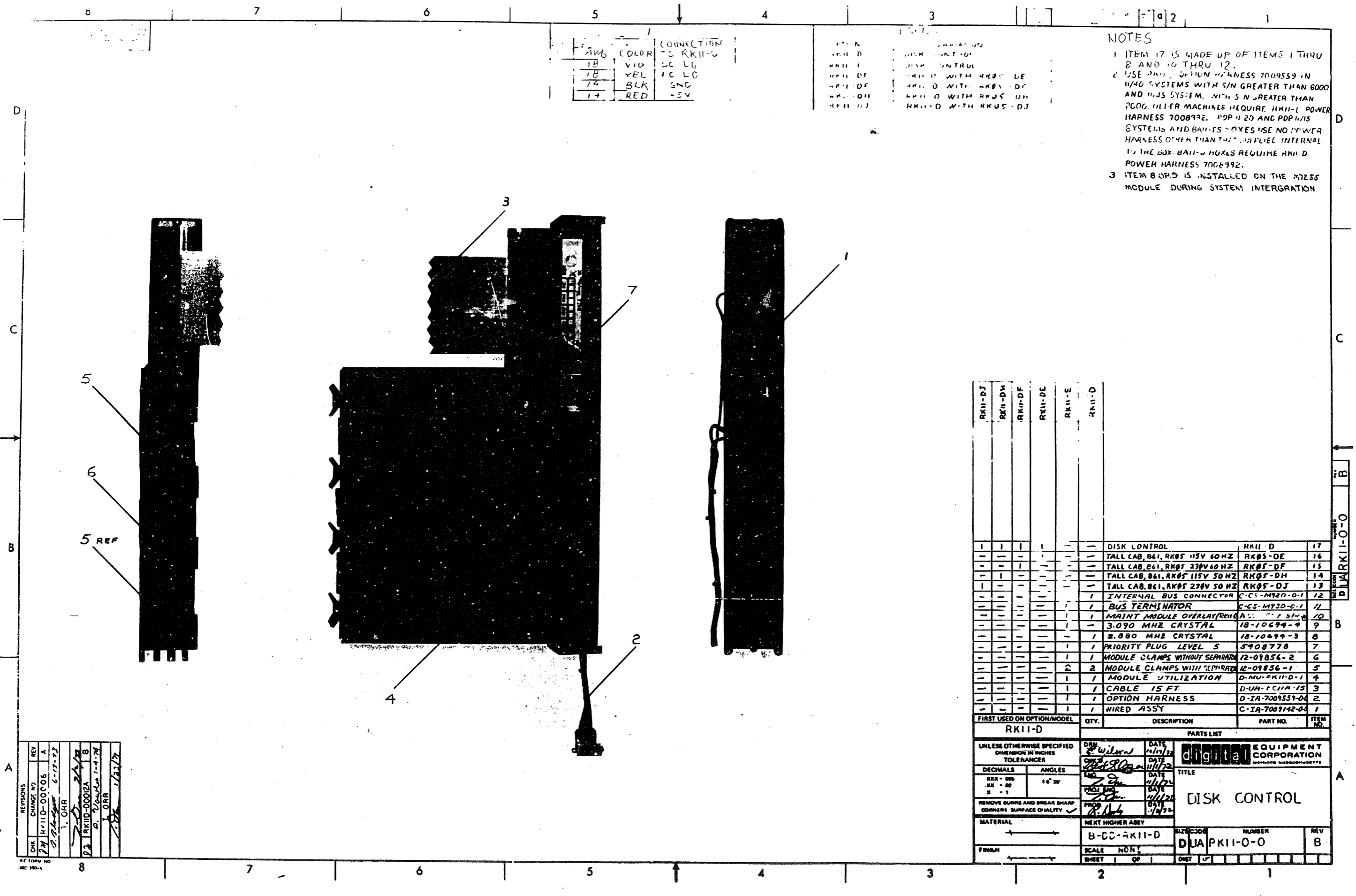
1  
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 B  
A  
 CS5410185-0-1  
 B

AWG	COLOR	CONNECTION TO RKII-D
18	VIO	DC LG
18	YEL	AC LG
14	BLK	3NC
14	RED	-5V

OPTION	DESCRIPTION
RKII-D	DISK CONTROL
RKII-DJ	RKII-D WITH RK05-DE
RKII-DF	RKII-D WITH RK05-DF
RKII-DH	RKII-D WITH RK05-DH
RKII-DJ	RKII-D WITH RK05-DJ

**NOTES**

- ITEM 17 IS MADE UP OF ITEMS 1 THRU 8 AND 10 THRU 12.
- USE RKII-D OPTION HARNESS 7009559 IN 1140 SYSTEMS WITH S/N GREATER THAN 6000 AND 1145 SYSTEMS WITH S/N GREATER THAN 7000. OTHER MACHINES REQUIRE RKII-L POWER HARNESS 7008992. PDP 11 20 AND PDP 11/55 SYSTEMS AND BAILEY BOXES USE NO POWER HARNESS OTHER THAN THAT SUPPLIED INTERNAL TO THE BOX. BAILEY BOXES REQUIRE RKII-D POWER HARNESS 7008992.
- ITEM 8 OPD IS INSTALLED ON THE M7255 MODULE DURING SYSTEM INTEGRATION.



REV	CHG	DATE	BY
A	1	11/17/72	Wilson
B	2	11/17/72	Wilson
C	3	11/17/72	Wilson
D	4	11/17/72	Wilson

RKII-DJ	RKII-DH	RKII-DF	RKII-DE	RKII-E	RKII-D	DESCRIPTION	PART NO.	ITEM NO.
						DISK CONTROL	RKII-D	17
						TALL CAB, 861, RK05 115V 60HZ	RK05-DE	16
						TALL CAB, 861, RK05 230V 60HZ	RK05-DF	15
						TALL CAB, 861, RK05 115V 50HZ	RK05-DH	14
						TALL CAB, 861, RK05 230V 50HZ	RK05-DJ	13
						INTERNAL BUS CONNECTOR	C-CS-M920-0-1	12
						BUS TERMINATOR	C-CS-MY20-0-1	11
						MAINT MODULE OVERLAY (REPLACES 15-151-0)		10
						3.090 MHE CRYSTAL	18-10694-4	9
						2.880 MHE CRYSTAL	18-10694-3	8
						PRIORITY PLUG LEVEL 5	5408778	7
						MODULE CLAMPS WITHOUT SEPARATE	12-09856-2	6
						MODULE CLAMPS WITH SEPARATE	12-09856-1	5
						MODULE UTILIZATION	D-MU-RKII-D-1	4
						CABLE 15 FT.	D-UR-FC11A-15	3
						OPTION HARNESS	D-IA-7009551-04	2
						WIRED ASSY	C-IA-7009142-04	1

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RKII-D				

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCER	DATE	TITLE
DECIMALS	11/17/72	DISK CONTROL
ANGLES		
XXX - 999		
XX - 99		
X - 1		

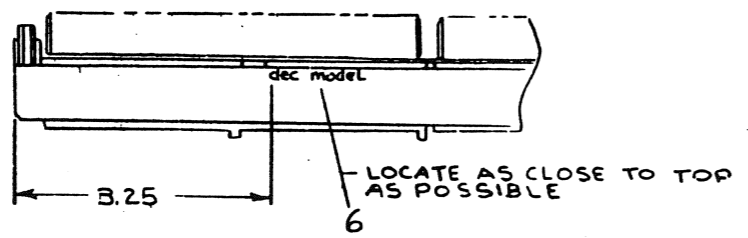
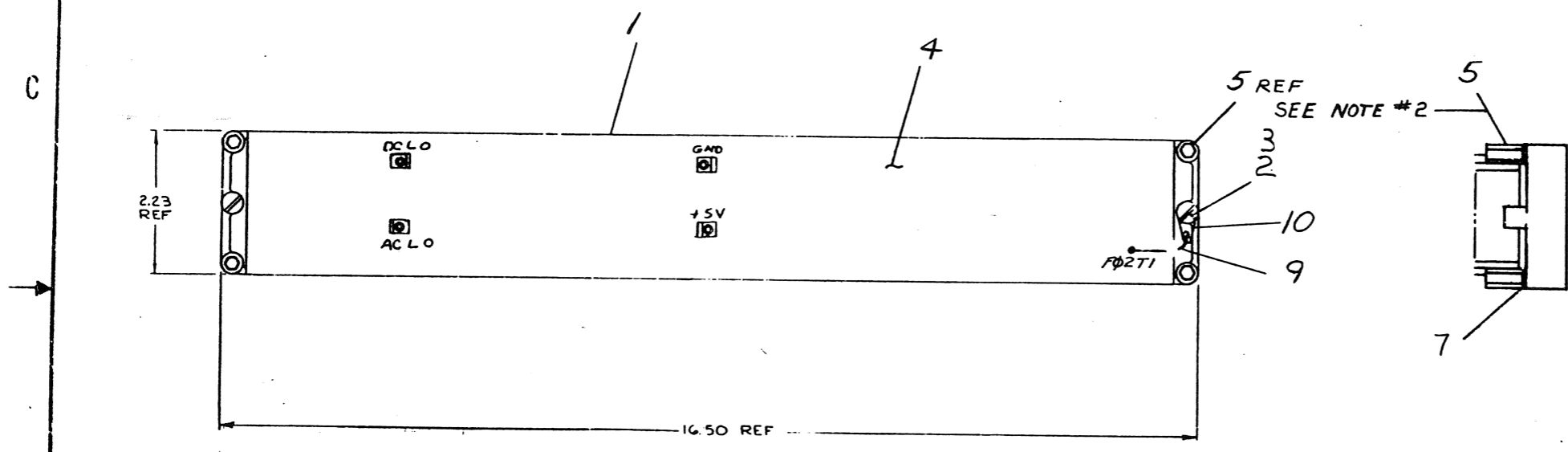
  

MATERIAL	NEXT HIGHER ASSY	SCALE	NUMBER	REV
	B-00-RKII-D	NON	DIA PKII-O-O	B

...ations, herein, are the prop...  
 ... Corporation and shall not be...  
 ... used in whole or in part as...  
 ... manufacture or sale of items without...

NOTES:  
 1. USE YELLOW WIRE ITEM #4  
 ... WRAPPED.  
 ... STAND-OFFS  
 ... BEFORE AWT.  
 ... SCHEMATIC REFER  
 TO DCS-5410185-0-1

4. GROUND BACKPANEL BY WIRE  
 WRAPPING A BLK 24 AWG WIRE  
 (ITEM #9) ON PIN F02T1 AND  
 ATTACH OTHER END UNDER  
 CAPTIVE SCREW (ITEM #3).  
 WITH SOLDER TERMINAL  
 (ITEM #10)



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	LOCKING TERMINAL SHAKEPROOF	9006766	10
A/R	#24 SOLID CONDUCTOR, BLK KYNAR	9107688-00	9
1	GROUND CABLE	CIA-7009142-0-0	8
4	LOCKWASHER #6 EXT TOOTH	9007649	7
1	DECAL LOGIC SERIAL NUMBER	A-SS-740789-00	6
4	STAND-OFF JAN 4146 B	9009120-1	5
A/R	#30 SOLID CONDUCTOR KYNAR	9105740-99	4
2	SCR CAPTIVE (8-32X1 7/8)	9008157	3
2	RETAINING RING	9009316-1	2
1	BACK PANEL (RKII-D)	D-IA-700913100	1

REV	DATE	BY	CHK'D	DATE
1	11-2-73	ORR		
2				
3				
4				

FIRST USED ON OPTION/MODEL RKII-D		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DBN. <i>E. Wilson</i> DATE 9/25/72	 <b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS: .008, .02, .1 ANGLES: ±0° 30'	CHK'D <i>[Signature]</i> DATE 10/1/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	ENG. <i>[Signature]</i> DATE 10/2/72	TITLE WIRED ASS'Y (RKII-D)	
MATERIAL	PROJ. ENG. <i>[Signature]</i> DATE 11/2/72	SIZE CODE	NUMBER
FINISH	PROD. <i>R. Dorley</i> DATE 11/2/72	CIA	7009142-0-0
	NEXT HIGHER ASSY.	REV.	B
	B-DD-RKII-D	SHEET	1 OF 1
	SCALE	DIST.	

REV. B  
 NUMBER  
 CIA 7009142-0-0  
 SHEET NO.

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

MADE BY <i>R. Vargan</i>	CHECKED <i>Coyle</i>	SECTION
DATE <i>1-30-74</i>	DATE <i>7-30-74</i>	ISSUED SECT.
ENG <i>Rene Hargis</i>	PROD <i>Rene Hargis</i>	
DATE <i>7/17/74</i>	DATE <i>9/12/74</i>	

QUANTITY / VARIATION

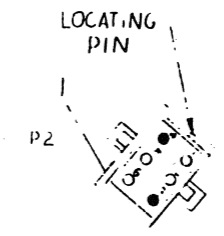
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QTY.																	
1	C-CS-M930-0-1	CIRCUIT SCHEMATIC																		
2	K-CO-M930-0-4	X-Y COORDINATE HOLE LOCATION																		
3	D-AH-M930-0-5	ASSY/ DRILLING BOARD																		
4	B-MH-M930-0-6	MODULE ECO HISTORY																		
5	5008696	ETCHED CIRCUIT BOARD	1																	
6	1000043	CAP. 1000PF, 250V, 20% DISC	2	C2	C3															
7	1000076	CAP 39UF, 10V 10%	1	C1																
8	1305125	RES. 383, 1/4W, 1%	51	R2	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 40, 42, 44, 46, 48, 50, 52, 54, 57, 59, 61, 63, 65, 67, 69, 71, 73, 77, 79, 83, 85, 87, 89, 91, 93, 95, 97, 99, 101, 103, 105, 107, 109															
9	1311422	RES. 178, 1/4W 1%	54	R1	3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 58, 60, 62, 64, 66, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110															
10	1010274-01	CAP. .22UF 50V CER.	4	C4	5, 6, 7															

TITLE	ASSY NO.	SIZE CODE	NUMBER	REV.	ECO NO.
BUS TERMINATOR		A PL	M930-0-0	D	0004
SHEET 1 OF 1	DIST.	324	434	435	3

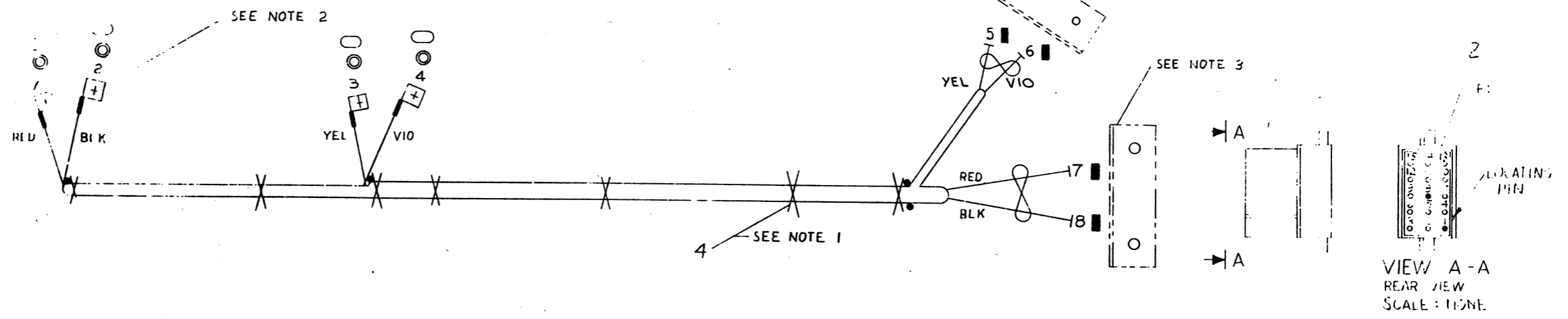
0-0-699600Z-1D 2

WIRE TABLE										
ITEM NO.	DESCRIPTION	FROM				TO				SIGNAL
		AWG	CO. OR	POINT	CONNECTION	TERM	POINT	CONNECTION	TERM	
6	# 8	YEL		3		7,8	5	P2-4	3	AC LO
5	# 18	VIO		4		7,8	6	P2-3	3	DC LO
5	# 4	REL		1		7,8	7	P1-1	3	-5
5	# 4	BLK		2		7,8	8	P1-8	3	GND

- NOTES
- USE TIE WRAPS (ITEM #4 APPROXIMATELY EVERY THREE (3) INCHES WHEN NECESSARY, AND AT EVERY BREAKOUT POINT.
  - ATTACH MALE FASTON DEC # (3008219-0) WITH #4 WOOD SCREWS (4 PLACES).
  - USE CONN. BRKT. # C-MD 3805761-415-0, MOUNT WITH #6 WOOD SCREWS, USE MATING CONN. 1209350-5.
  - USE CONN. BRKT. # C-MD-930575-415-0 MOUNT WITH #6 WOOD SCREWS, USE MATING CONN. 1209350-5.
  - DOT (•) INDICATES NAIL LOCATIONS FOR ASSEMBLY USE ONLY. COVER NAILS WITH SHRINK TUBING TO PREVENT CUTTING HARNESS.



VIEW B-B  
REAR VIEW  
SCALE: NONE



QTY.	DESCRIPTION	PART NO.	ITEM NO.
8	1/8" TUBING, SHRINKABLE 3/16 ID X 3/8 OD	9107395-02	8
4	CONN, SOLDERLESS	9009262-50	7
1	WIRE #18 AWG TYP REL VIO	9107430-47	6
1	WIRE #14 AWG TYP BLK RED	9107440-02	5
4	WRAP, TIE	3007091	4
4	PIN, MALE	1209379-01	3
1	HOUSING, CONN. 15 PIN	1209351-15	2
1	HOUSING, CONN. 6 PIN	1209351-06	1

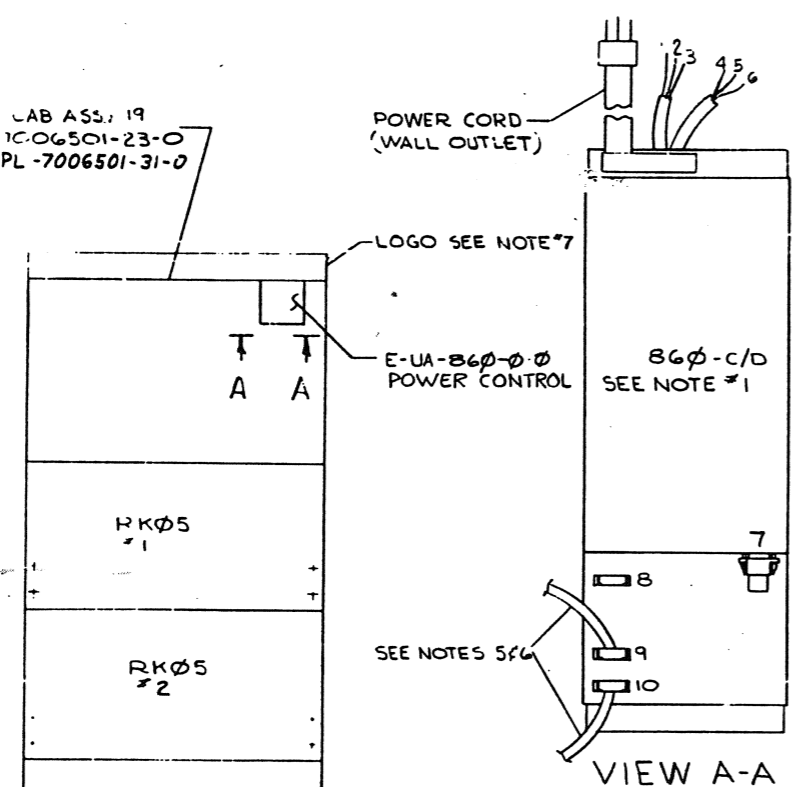
FIRST USED ON OPT. #		QTY.		DESCRIPTION		PART NO.		ITEM NO.	
RK11-D									
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES				DRN		DATE		PARTS LIST	
TOLERANCES				CHK'D		DATE		digital EQUIPMENT CORPORATION	
DECIMALS		ANGLES		END.		DATE		TITLE	
.xxx = .005		° 30'						OPTION HARNESS	
.xx = .02				PROJ. ENG.		DATE		RK11-D	
.x = .1				PROD.		DATE			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1				NEXT HIGHER ASSY.		SIZE CODE		NUMBER	
MATERIAL				SEE PARTS LIST		D 1A		7003559-0-0	
FINISH				SCALE		SHEET		OF	
				1 / 1		1		1	

DO NOT REDUCE  
DO NOT BUILD FROM REDUCED PRINT

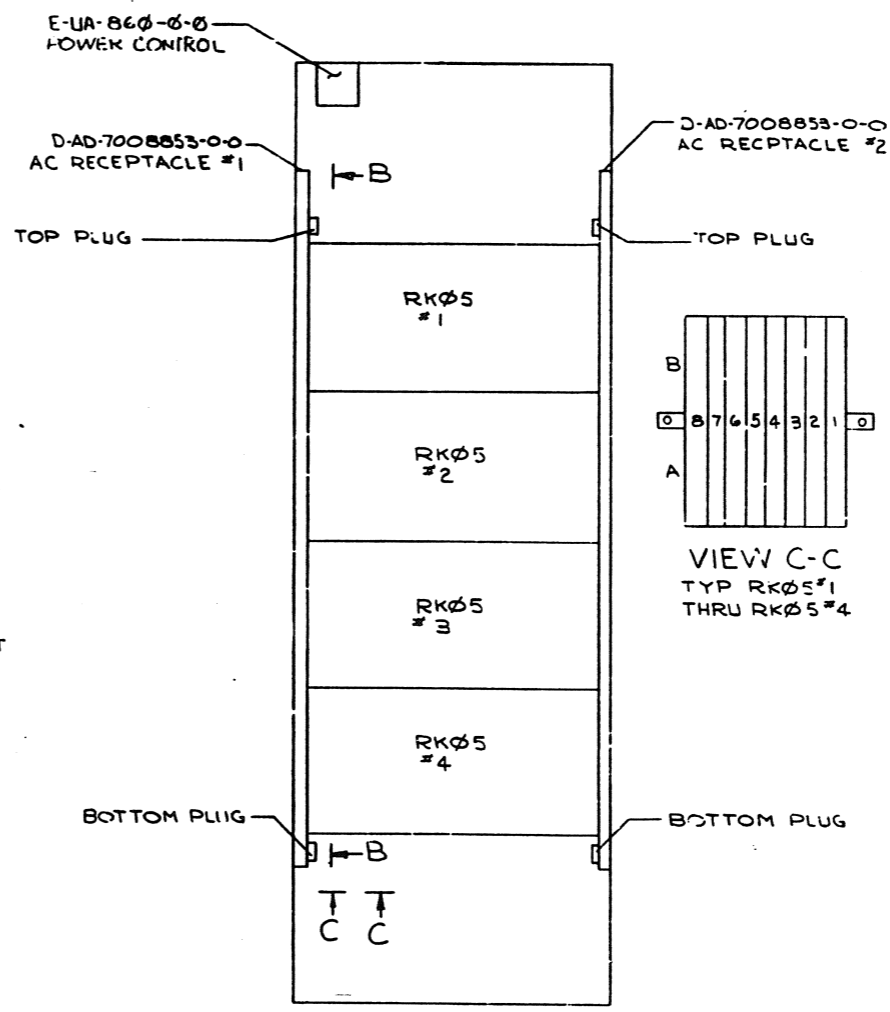
**CAUTION - DRAWING SIZE AND SCALE REDUCED FOR MICROFILM NOT TO BE USED FOR PRODUCTION**

REVISION	DATE	BY
1		
2		

BASIC CAB ASSY 19  
 C-PL-1006501-23-0  
 OR C-PL-7006501-31-0



FRONT VIEW



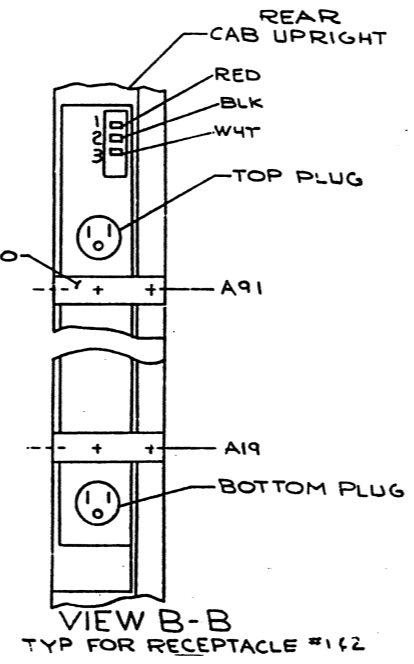
REAR VIEW

CONFIGURATION WITH 860 POWER CONTROL

SEE NOTES 5 & 6

B-MD-7409275-0-0

SEE NOTE 8



VIEW B-B  
 TYP FOR RECEPTACLE #142

NOTES:

- 1) TO REMARK 860 A & B TO 860 C & D REFER TO DRAWING E UA 860-0-0
- 2) IF LESS THAN 4 DRIVES, THE M930 MODULE IS MOVED TO THE LAST DRIVE ON THE BUS IN THE SLOT NORMALLY OCCUPIED BY THE OUTCOMING BC11A CABLE
- 3) IF MORE THAN 4 DRIVES, EACH WILL BE CONFIGURED SIMILARLY IN A SECOND CAB
- 4) AS REQUIRED BY CONTROLLER, THE INCOMING CABLE TO RK05 #5 MAY COME DIRECTLY FROM A DISK CONTROL OR FROM THE SLOT NORMALLY OCCUPIED BY THE M930 IN RK05 #4 (SEE NOTE #2). POWER AND CABLING INFORMATION ALSO APPLY TO CAB #2
- 5) IN A SYSTEM USING PDP-11, 15, 11/20, OR POP-8 PROCESSORS AND IF 860 OR 861 POWER CONTROL IS FIRST IN THE CHAIN OF POWER CONTROLS, CONNECT P1 OF CABLE #7008964 TO POWER CONTROL AND P2 OF 2 CABLE #7008964 TO H720-E/F IN THE PROCESSOR. DO NOT USE ANY OTHER JUMPER PLUG IN THE PROCESSOR POWER SUPPLY. IN ALL OTHER SITUATIONS USE CABLE #7008288 FOR INTERCONNECTIONS.
- 6) PLUGS 8, 9 AND 10 ARE WIRED IN PARALLEL. USE ANY PLUGS AS REQUIRED. NO JUMPER PLUG IS REQUIRED ON THE 860 OR 861 POWER CONTROL.
- 7) USE BLANK LOGO, COLOR TO COINCIDE WITH PRODUCT LINE.
- 8) TO MOUNT CHASSIS SLIDES ON RACK USE MOUNTING HARDWARE KIT #7009276 OR ITEMS.
  1. TINNEMAN NUT #900778E
  2. #10-32 PHL TRUSS #9006074-3
  3. #10 EXTERNAL TOOTH #9007651
 WASHER  
 LOCATION OF MOUNTING HOLES TO BE AS FOLLOWS: STARTING FROM BOTTOM OF RACK HOLE NUMBERS FOR FRONT AND REAR, LEFT AND RIGHT  
 21.24  
 39.42  
 57.60  
 75.78
- 9) USE THE PRE-FOLDED CREASES ON THE DISK BUS CABLE FOR CLAMPING. DO NOT PULL THE CABLE TIGHT AGAINST PRE-FILTER. LEAVE SERVICE LOOP SO THAT HAND CAN FIT BETWEEN THE CABLE AND FILTER.
- 10) RK05'S PLUG INTO SWITCHED AC OUTLETS ONLY.

REV	DATE	BY	CHKD
1	7-14-79	W. J. S.	W. J. S.
2	7-14-79	W. J. S.	W. J. S.
3	7-14-79	W. J. S.	W. J. S.
4	7-14-79	W. J. S.	W. J. S.
5	7-14-79	W. J. S.	W. J. S.
6	7-14-79	W. J. S.	W. J. S.
7	7-14-79	W. J. S.	W. J. S.
8	7-14-79	W. J. S.	W. J. S.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		DRN CHKD DATE 7-12-79	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	ANGLES	DATE 7-12-79	TITLE RK05	
XXX - 004	10° W	DATE 7-12-79	OPTION CONFIGURATION	
XX - 02		DATE 7-12-79	NUMBER DCC-RK05-0-15	
X - 1		DATE 7-12-79	REV B	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD. DATE 7-12-79		
MATERIAL		NEAT HIGHER ASSY		
FINISH		H-DD-RK05-0		
SCALE		SHEET 1 OF 3		



8

7

6

5

4

3

912024 2

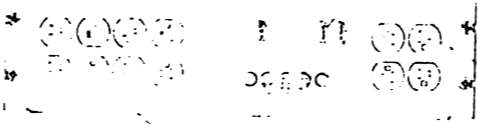
PART CABINET ASSY 3  
C PL-7006501-23-0

LOGO SEE NOTE #7

- BASIC CAB ASSY 19"  
C PL-7006501-23-0  
REF

SWITCHED AC  
SEE NOTE #10

SEE NOTE #5 & 6



UNSWITCHED AC

861-B/C  
POWER CONTROL  
REF

DETAIL "A"  
NOT TO SCALE

RK05 #1

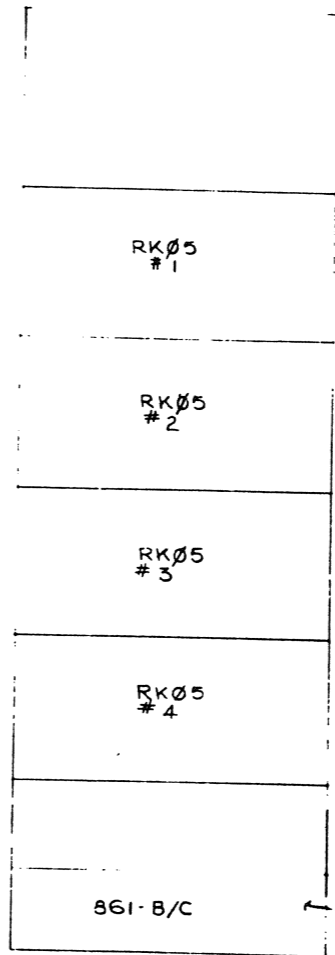
RK05 #2

RK05 #3

RK05 #4

- SEE NOTE #8

FRONT VIEW



E-UA-861 B-C  
POWER CONTROL  
SEE DETAIL "A"

REAR VIEW

### CONFIGURATION WITH 861 POWER CONTROL

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRAWN <i>SLC</i>	DATE 7-12-72	digital EQUIPMENT CORPORATION WATKINS MASSACHUSETTS
DECIMALS ANGLES		CHK'D <i>SLC</i>	DATE 7-12-72	
MATERIAL		ENG E SIMMONS	DATE 7-12-72	TITLE - K 75 CONFIGURATION
FINISH		PROJ ENG E SIMMONS	DATE 7-12-72	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD A KARLSBERG	DATE 7-31-72	NUMBER DCC RK05-0-15
NEXT HIGHER ASSY		SCALE	SHEET 2 OF 3	
REV		DIST		1

8

7

6

5

4

3

2

1

D

C

H

I5

B

B

A

POWER CORD CONNECTIONS WITH 660 POWER CONTROL

WIRE #0	AC RECEPTACLE #1 TOP PLUG
WIRE #1	AC RECEPTACLE #2 TOP PLUG
WIRE #2	AC RECEPTACLE #2 BOTTOM PLUG
WIRE #3	AC RECEPTACLE #1 BOTTOM PLUG

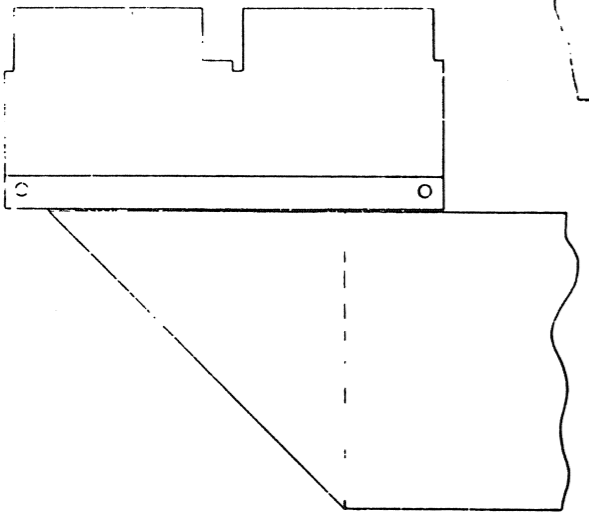
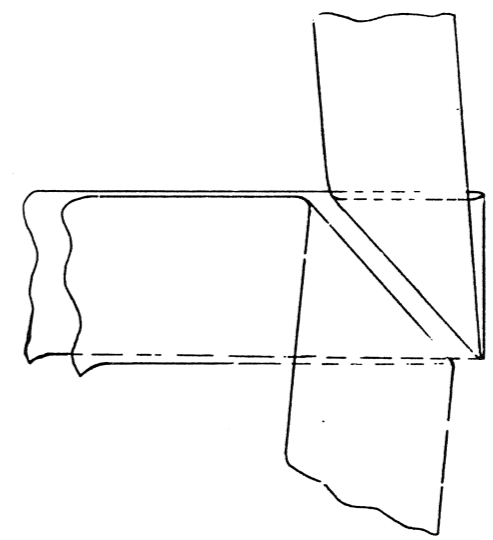
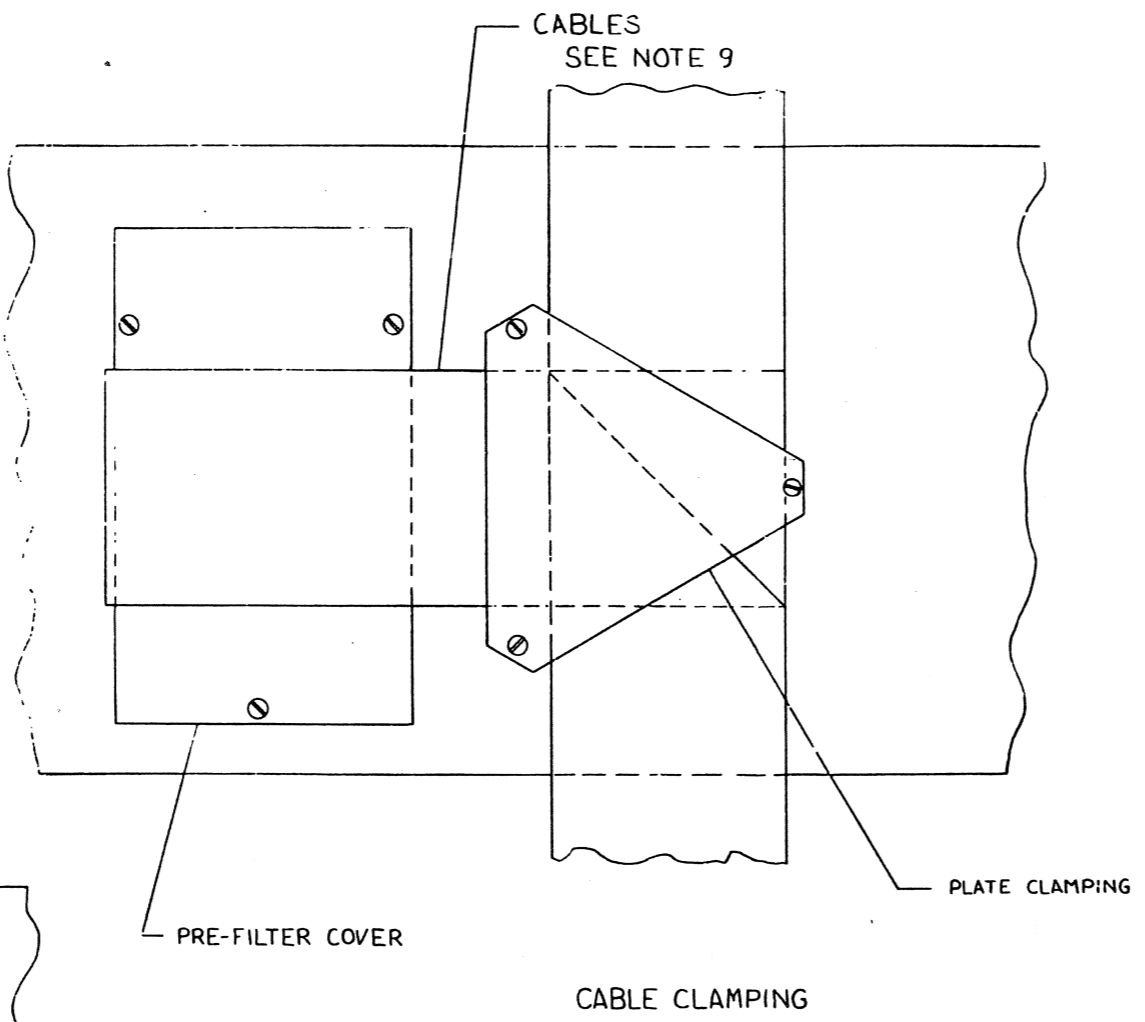
BUS CABLE CONNECTIONS

FROM		TO		CABLE	REMARKS
DEVICE	LOCATION	DEVICE	LOCATION		
DISK CONTROL	A/R	RK05 #1	AB8	BC11A	LENGTH A/R
RK05 #1	AB7	RK05 #2	AB7	BC11A-6	
RK05 #2	AB8	RK05 #3	AB8	BC11A-6	
RK05 #3	AB7	RK05 #4	AB7	BC11A-6	
RK05 #4	AB8			M930	MODULE

660 POWER CONNECTIONS

WIRE	COLOR	FROM	TO	REMARKS
10	BLK	B60-F1	RECP #1-1	
11	WHT	B60-F2	#1-2	
12	RED	B60-F3	#1-3	SEE VIEW W
13	BLK	B60-F4	#2-1	B-B
14	WHT	B60-F5	#2-2	
15	RED	B60-F6	RECP #2-3	

\* ASTERISK INDICATES WIRE POINTS ON 660 POWER CONTROL MARKED WITH BRADY MARKERS.



FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN CHK'D	DATE 7-12-72	digital EQUIPMENT CORPORATION BOSTON MASSACHUSETTS	
DECIMALS ANGLES	DATE 6-21-71	DATE 7-12-72		
MATERIAL	DATE 7-12-72	DATE 7-12-72	TITLE RK05 OPTION CONFIGURATION	
FINISH	DATE 7-12-72	DATE 7-12-72		
SCALE SHEET 3 OF 3		SIZE CODE NUMBER	REV B	
		DIST	DOC RK05-0-15	

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RK11-D BZ			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
HE	HE	HE	HE	HE	HE	HE	HE	HE	HE	HE	HE	HE	HE	HE	HE	HE	HE	HE
DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA
PULL	PULL	PULL	PULL	PULL	PULL	PULL	PULL	PULL	PULL	PULL	PULL	PULL	PULL	PULL	PULL	PULL	PULL	PULL
FILE	FILE	FILE	FILE	FILE	FILE	FILE	FILE	FILE	FILE	FILE	FILE	FILE	FILE	FILE	FILE	FILE	FILE	FILE
D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1	D1
DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA
01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03
04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04
05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05

FIRST #300 IN A "/MOD

RK11-D	
REV.	
CHANGE NO.	
CHK	

SPEC # 9200100-94 (BLACK)

DATE	DATE	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
D. Mattson 4/2/72	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
REV. DATE	TITLE	
4/2/72	MAINTENANCE MODULE OVERLAY (RK11-D)	
4/17/72		
4/16/72		
6/6/72		
NEXT HIGHER ASSY		
C-MD-5509081-0-0		
SCALE	CODE	NUMBER
	A	55 5509081-0-11
SHEET	OF	REV.
DIST.	G	

DIGITAL EQUIPMENT CORPORATION  
 WAYNARD, 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 *[Signature]*  
 DATE *12/15/72*  
 ENG *[Signature]*  
 DATE *12/15/72*

CHECKED *[Signature]*  
 DATE  
 PROD *R. Dooling*  
 DATE *12/13/72*

SECTION  
 ISSUED SECT.

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY/VARIATION										
			RK11-D	RK11-E					KIT CHECK BY	DATE	INSTALLATION CHECK BY	DATE	
1	See variations	Complete print set	1	1									
2	DEC-11-HRADA-A-B	Manual, RK11-D,E	1	1									
3	LIBKIT-11-RK11-B	Sealed software kit	1	1									
4	MAINDEC-11-DZQGA-B-D	GTP write-up (Field add-on only)	1	1									
5	MAINDEC-11-DZQGA-B-PB	GTP binary tape (Field add-on only)	1	1									
6	M920	UNIBUS jumper	1	1									
7	BC11-A-15	15 foot UNIBUS cable	1	1									
8	A-SS-5509081-11	Transparent overlay to KM11-A											

TITLE MOVING HEAD DISK CONTROL RK11-D,E	ASSY. NO.	SIZE CODE A   A L	NUMBER RK11-D-6	REV.	ECO NO.
	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 *[Signature]* CHECKED *[Signature]* SECTION  
 DATE *12/13/72* DATE  
 ENG *[Signature]* PROD *R. Dooley* ISSUED SECT.  
 DATE *1/1/73* DATE *12/13/72*

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION			KIT CHECK	INSTALLATION CHECK	
			RK11-C	RK11-D	RK11-E		BY	DATE
1	MAINDEC-11-D5HA-D	RK11 disk static and data tests - write up	1	1	1			
2	MAINDEC-11-D5HA-PB1	RK11 static test binary tape	1	1	1			
3	MAINDEC-11-D5HA-PB2	RK11 data test binary tape	1	1	1			
4	MAINDEC-11-DZRKG-A-D	RK11 random exercisor write up	1	1	1			
5	MAINDEC-11-DZRKG-A-PB	RK11 random exercisor binary tape	1	1	1			

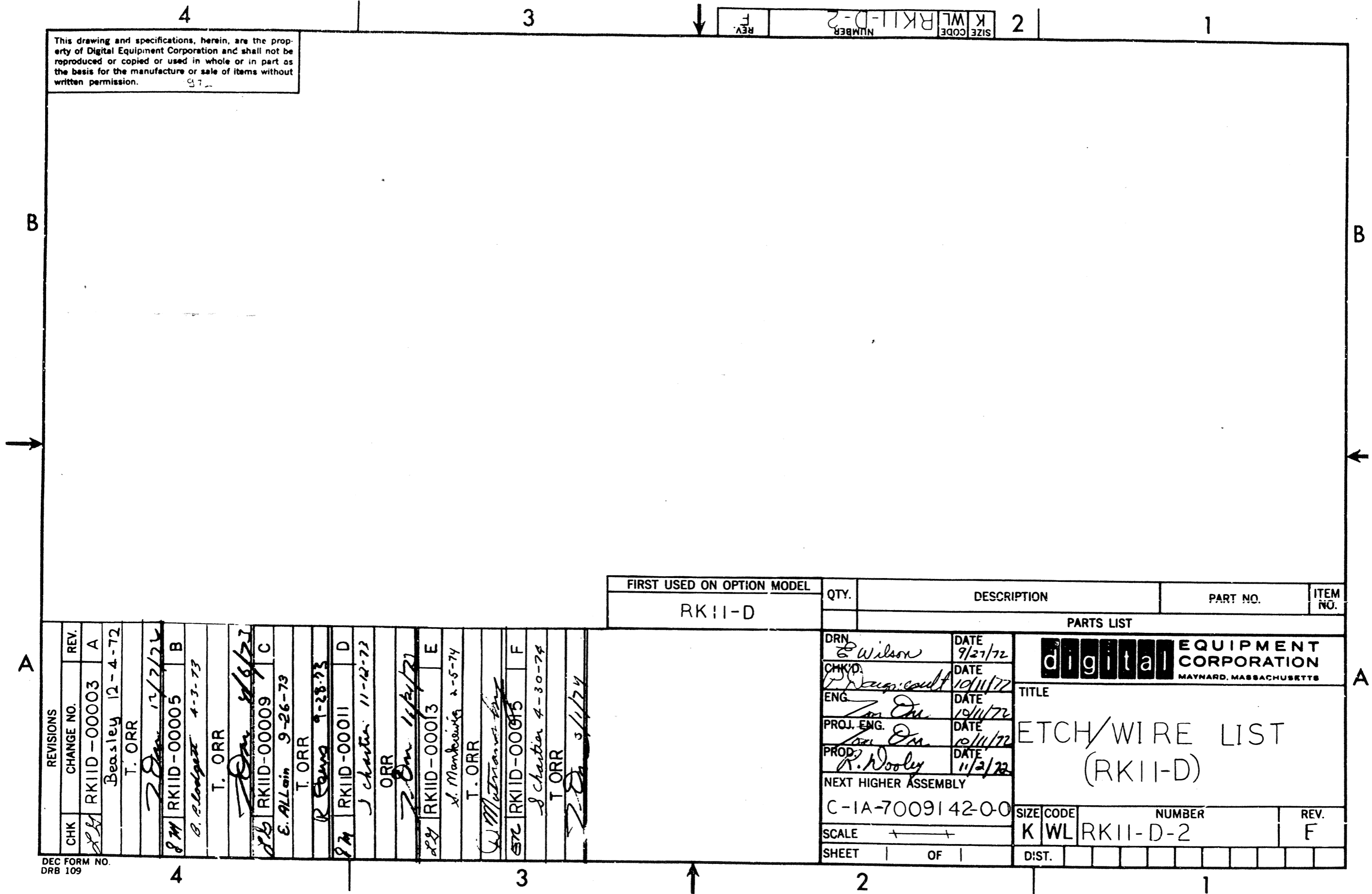
TITLE MOVING HEAD DISK CONTROL RK11-D,E		ASSY. NO.	SIZE CODE <b>A SL</b>	NUMBER RK11-D-7	REV.	ECO NO
SHEET 1 OF 1		DIST.				

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

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FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RKII-D					
PARTS LIST					
DRN <i>E. Wilson</i>	DATE 9/27/72	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE ETCH/WIRE LIST (RKII-D)			
CHK'D <i>P. Deane</i>	DATE 10/11/72				
ENG <i>Tom Orr</i>	DATE 10/11/72				
PROJ. ENG. <i>Tom Orr</i>	DATE 10/11/72				
PROD. <i>R. Woolley</i>	DATE 11/2/72				
NEXT HIGHER ASSEMBLY C-1A-7009142-0-0		SIZE CODE K WL	NUMBER RKII-D-2	REV. F	
SCALE + + +	SHEET   OF		DIST.		

REVISIONS	CHANGE NO.	REV.
<i>SL</i>	RKIID-00003	A
Beasley 12-4-72		
T. ORR		
<i>2</i>	<i>12/7/72</i>	
<i>SM</i>	RKIID-00005	B
<i>B. Blodgett 4-3-73</i>		
T. ORR		
<i>2</i>	<i>4/6/73</i>	
<i>SL</i>	RKIID-00009	C
<i>E. Allain 9-26-73</i>		
T. ORR		
<i>R</i>	RKIID-00011	D
<i>J. Charlier 11-12-73</i>		
ORR		
<i>2</i>	<i>1/24/74</i>	
<i>SL</i>	RKIID-00013	E
<i>A. Manberg 2-5-74</i>		
T. ORR		
<i>W. Matson</i>		
<i>SL</i>	RKIID-00015	F
<i>J. Charlier 4-30-74</i>		
T. ORR		
<i>2</i>	<i>5/1/74</i>	



RK1 H.P.F.  
RUN NAME

HND288.V22(22) 11/06/73  
A/P PIN ORDER BAY -  
NAME PIN ORDER

W DRAW RV PG 1 A Z REMARKS

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LENGTH EXCEPTIONS RUN  
NUMBER

00000000

+5V		A01A2	1-01 *	H															
+5V		A02A2	1-02 *	H															
+5V		A03A2	1-03 *	H															
+5V		A04A2	1-04 *	H															
+5V		A03H2	1-05 *	H															
+5V		A03J2	1-06 *	H															
+5V		A03K2	1-07 *	H															
+5V		A03L2	1-08 *	H															
+5V		A03M2	1-09 *	H															
+5V		H01A2	1-10 *	H															
+5V		H02A2	1-11 *	H															
+5V		H03B1	1-12 *	H															
+5V		H03A2	1-13 *	H															
+5V		H04A2	1-14 *	H															
+5V		C04A2	1-15 *	H															
+5V		C03A2	1-16 *	H															
+5V		C02A2	1-17 *	H															
+5V		C01A2	1-18 *	H															
+5V		D01A2	1-19 *	H															
+5V		D02A2	1-20 *	H															
+5V		D03A2	1-21 *	H															
+5V		D04A2	1-22 *	H															
+5V		E04A2	1-23 *	H															
+5V		E03A2	1-24 *	H															
+5V		E02A2	1-25 *	H															
+5V		E01A2	1-26 *	H															
+5V		F01A2	1-27 *	H															
+5V		F02A2	1-28 *	H															
+5V		F03A2	1-29 *	H															
+5V		F04A2	1-30 *	H															
0 TU NPR	H	E01R1	1-01 *	H															
0 TU NPR	H	E03R2	1-02 *	H															
0 TU NPR	H	E04R2	1-03 *	H															
ADD ACK	H	F01J1	1-01 *	H															
ADD ACK	H	F02J1	1-02 *	H															
ADD ACK																			
B CNTRL RDY	H	H03R2	1-01 *	H															
B CNTRL RDY	H	E04S2	1-02 *	H															
B CNTRL RDY	H	E02S2	1-03 *	H															
B CNTRL RDY	H	E01S2	1-04 *	H															

R9-0/8

6-2/8

2-6/8

16-4/8

RK110.F  
RUN NAME

HND288.V22(22) 11/06/73  
APP PIN ORDER HAY - ORDER

1-MAY-74 LENGTH EXCEPTIONS

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APP	PIN	ORDER	HAY -	ORDER	W	URAM	KV	PG	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
H	C01E2	1-01 *	H	1-01 *										5
H	C01S2	1-02 *	H	1-02 *										5
H	R04E2	1-01 *	H	1-01 *								6-0/8		5
H	C01T2	1-02 *	H	1-02 *										6
H	R01B1	1-01 *	H	1-01 *										6
H	C01P2	1-02 *	H	1-02 *								6-2/8		7
H	R04B1	1-01 *	H	1-01 *										8
H	C01R2	1-02 *	H	1-02 *								7-0/8		8
H	R01A1	1-01 *	H	1-01 *										9
H	C01M2	1-02 *	H	1-02 *								6-2/8		9
H	R04A1	1-01 *	H	1-01 *										10
H	C01N2	1-02 *	H	1-02 *								6-6/8		10
H	A01V1	1-01 *	H	1-01 *										11
H	C01K2	1-02 *	H	1-02 *								6-4/8		11
H	A04V1	1-01 *	H	1-01 *										12
H	C01L2	1-02 *	H	1-02 *								7-2/8		12
H	C01V2	1-01 *	H	1-01 *										13
H	C04V2	1-02 *	H	1-02 *									HAND WIRE H TO WHERE.	13
H	C01U2	1-01 *	H	1-01 *								3-6/8		13
H	C04U2	1-02 *	H	1-02 *										14
L	C01J2	1-01 *	H	1-01 *										14
L	C04J2	1-02 *	H	1-02 *								3-5/8		15

RK110.F  
RUN NAME

HND288.V22(22) 11/06/73  
APP PIN ORDER HAY - ORDER

1-MAY-74 LENGTH EXCEPTIONS

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APP	PIN	ORDER	HAY -	ORDER	W	URAM	KV	PG	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
L	R01H2	1-01 *	H	1-01 *										16
L	R04H2	1-02 *	H	1-02 *										16
L	D04D1	1-03 *	H	1-03 *								3-4		16
L	R01H1	1-01 *	H	1-01 *								11-3/8		16
L	R04H1	1-02 *	H	1-02 *										17
L	C04T2	1-03 *	H	1-03 *										17
L	R01J2	1-01 *	H	1-01 *								10-0/8		17
L	R04J2	1-02 *	H	1-02 *										18
L	C04S1	1-03 *	H	1-03 *										18
L	R01J1	1-01 *	H	1-01 *										19
L	R04J1	1-02 *	H	1-02 *										19
L	C04R1	1-03 *	H	1-03 *								9-6/8		19
L	R01K2	1-01 *	H	1-01 *										20
L	R04K2	1-02 *	H	1-02 *										20
L	C04P1	1-03 *	H	1-03 *								9-2/8		20
L	R01K1	1-01 *	H	1-01 *										21
L	R04K1	1-02 *	H	1-02 *										21
L	C04R2	1-03 *	H	1-03 *								9-4/8		21
L	R01L2	1-01 *	H	1-01 *										22
L	R04L2	1-02 *	H	1-02 *										22
L	C04M2	1-03 *	H	1-03 *								8-6/8		22
L	R01L1	1-01 *	H	1-01 *										23
L	R04L1	1-02 *	H	1-02 *										23
L	C04U1	1-03 *	H	1-03 *								8-4/8		23
L	R01M2	1-01 *	H	1-01 *										24
L	R04M2	1-02 *	H	1-02 *										24
L	C04K1	1-03 *	H	1-03 *								8-4/8		24



RUN NAME

HND288.V22(22) 11/06/73

A/P	PIN NAME	ORDER PIN	RAY ORDER	U	DRAM	KV	PG	I	A	Z	REMARKS	I-MAY-74	LENGTH	EXCEPTIONS	RUN NUMBER
L	BUS A09	U01M1	1-01*	H											
L	BUS A09	4M1	1-02*											HAND WIRE TO HERE	25
L	BUS A09	C04L2	1-03*												25
L	BUS A10	B01N2	1-01*	H									8-6/8		25
L	BUS A10	B04N2	1-02*											HAND WIRE TO HERE	26
L	BUS A10	C04H2	1-03*												26
L	BUS A11	B01N1	1-01*	H									8-0/8		26
L	BUS A11	B04N1	1-02*											HAND WIRE TO HERE	27
L	BUS A11	D04F1	1-03*										3-2		27
L	BUS A12	H01P2	1-01*	H									10-7/8		27
L	BUS A12	H04P2	1-02*											HAND WIRE TO HERE	28
L	BUS A12	C04F1	1-03*												28
L	BUS A13	B01P1	1-01*	H									7-6/8		28
L	BUS A13	B04P1	1-02*											HAND WIRE TO HERE	29
L	BUS A13	C04F2	1-03*												29
L	BUS A14	B01R2	1-01*	H									8-0/8		29
L	BUS A14	B04R2	1-02*											HAND WIRE TO HERE	30
L	BUS A14	C04R1	1-03*												30
L	BUS A15	B01R1	1-01*	H									7-2/8		30
L	BUS A15	B04R1	1-02*											HAND WIRE TO HERE	31
L	BUS A15	D04P1	1-03*										3-5		31
L	BUS A16	H01S2	1-01*	H									11-5/8		31
L	BUS A16	B04S2	1-02*											HAND WIRE TO HERE	32
L	BUS A16	C04D1	1-03*												32
L	BUS A16	C01D1	1-04*											HAND WIRE TO HERE	32
L	BUS A17	H01S1	1-01*	H									11-0/8		32
L	BUS A17	B04S1	1-02*											HAND WIRE TO HERE	33
L	BUS A17	C04R1	1-03*												33
L	BUS A17	C01R1	1-04*											HAND WIRE TO HERE	33
L	BUS A17												11-0/8		33

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A/P	PIN NAME	ORDER PIN	RAY ORDER	U	DRAM	KV	PG	I	A	Z	REMARKS	I-MAY-74	LENGTH	EXCEPTIONS	PAGE 5 RUN NUMBER
L	BUS AC L0	D02F1	1-01*	H											34
L	BUS AC L0	B01F1	1-02*											HAND WIRE TO HERE	34
L	BUS AC L0	B04F1	1-03*												34
L	BUS AC L0	A03R2	1-04*										10-1/8		34
L	BUS BRSY	A01P2	1-01*	H										HAND WIRE TO HERE	35
L	BUS BRSY	A04P2	1-02*												35
L	BUS BRSY	E04P2	1-03*												35
L	BUS HR 4	H04D2	1-01*	H									16-4/8		35
L	BUS HR 4	B01D2	1-02*											HAND WIRE TO HERE	36
L	BUS HR 4	C01H2	1-03*												36
L	BUS HR 5	B04C1	1-01*	H									9-0/8		36
L	BUS HR 5	B01C1	1-02*											HAND WIRE TO HERE	37
L	BUS HR 5	C01F2	1-03*												37
L	BUS HR 6	A04U2	1-01*	H									9-2/8		37
L	BUS HR 6	A01U2	1-02*											HAND WIRE TO HERE	38
L	BUS HR 6	C01E2	1-03*												38
L	BUS HR 7	A04T2	1-01*	H									9-6/8		38
L	BUS HR 7	A01T2	1-02*											HAND WIRE TO HERE	39
L	BUS HR 7	C01D2	1-03*												39
L	BUS C0	H01U2	1-01*	H									9-6/8		39
L	BUS C0	B04U2	1-02*											HAND WIRE TO HERE	40
L	BUS C0	D04C1	1-03*												40
L	BUS C1	B01T2	1-01*	H									10-1/8		40
L	BUS C1	B04T2	1-02*											HAND WIRE TO HERE	41
L	BUS C1	E04R1	1-03*												41
H	BUS D ECU	C04U1	1-01*	H									14-1/8		41
L	BUS D00	A01C1	1-01*	H										1-PIN RUN	42
L	BUS D00													HAND WIRE	43

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LENGTH

EXCEPTIONS

NUMBER

REMARKS

A Z

U

DRAM

KV

PG

I

A Z

U

DRAM

KV

PG

I

A Z

U

DRAM

KV

PG

I

A Z

U

BUS 000 (1)  
BUS 000 (1)  
BUS 000 (1)  
BUS 000 (1)

H D D2  
H D02  
H D04D2

J-01 \* H  
J-02 \* H  
J-03 \* H

D01  
D01  
D01

1  
2

6-0/8  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

44  
44  
44  
44

BUS 001  
BUS 001  
BUS 001  
BUS 001

L A01D2  
L A04D2  
L C04C1

J-01 \* H  
J-02 \* H  
J-03 \* H

D02  
D02  
D01

2  
1

11-4/8  
11-4/8

HAND WIRE  
HAND WIRE  
H TU WHERE

45  
45  
45  
45

BUS 001 (1)  
BUS 001 (1)  
BUS 001 (1)  
BUS 001 (1)

H D01E2  
H D03E2  
H D04E2

J-01 \* H  
J-02 \* H  
J-03 \* H

D01  
D01  
D01

1  
2

6-0/8  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

46  
46  
46  
46

BUS 002  
BUS 002  
BUS 002  
BUS 002

L A01D1  
L A04D1  
L C04E2

J-01 \* H  
J-02 \* H  
J-03 \* H

D02  
D02  
D01

2  
1

11-4/8  
11-4/8

HAND WIRE  
HAND WIRE  
H TU WHERE

47  
47  
47  
47

BUS 002 (1)  
BUS 002 (1)  
BUS 002 (1)  
BUS 002 (1)

H D01F2  
H D03F2  
H D04F2

J-01 \* H  
J-02 \* H  
J-03 \* H

D01  
D01  
D01

1  
2

6-0/8  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

48  
48  
48  
48

BUS 003  
BUS 003  
BUS 003  
BUS 003

L A01E2  
L A04E2  
L D04E1

J-01 \* H  
J-02 \* H  
J-03 \* H

D02  
D02  
D01

2  
1

14-2/8  
14-2/8

HAND WIRE  
HAND WIRE  
H TU WHERE

49  
49  
49  
49

BUS 003 (1)  
BUS 003 (1)  
BUS 003 (1)  
BUS 003 (1)

H D01H2  
H D03H2  
H D04H2

J-01 \* H  
J-02 \* H  
J-03 \* H

D01  
D01  
D01

1  
2

6-0/8  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

50  
50  
50  
50

BUS 004  
BUS 004  
BUS 004  
BUS 004

L A01K1  
L A04E1  
L D04K1

J-01 \* H  
J-02 \* H  
J-03 \* H

D02  
D02  
D01

2  
1

15-2/8  
15-2/8

HAND WIRE  
HAND WIRE  
H TU WHERE

51  
51  
51  
51

BUS 004 (1)  
BUS 004 (1)  
BUS 004 (1)  
BUS 004 (1)

H D01J2  
H D03J2  
H D04J2

J-01 \* H  
J-02 \* H  
J-03 \* H

D01  
D01  
D01

1  
2

6-0/8  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

52  
52  
52  
52

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LENGTH

EXCEPTIONS

NUMBER

REMARKS

A Z

U

DRAM

KV

PG

I

A Z

U

DRAM

KV

PG

I

A Z

U

DRAM

KV

PG

I

A Z

U

BUS 005  
BUS 005  
BUS 005  
BUS 005

L A01F2  
L A04F2  
L C04H1

J-01 \* H  
J-02 \* H  
J-03 \* H

D02  
D02  
D01

2  
1

11-6/8  
11-6/8

HAND WIRE  
HAND WIRE  
H TU WHERE

53  
53  
53  
53

BUS 005 (1)  
BUS 005 (1)  
BUS 005 (1)  
BUS 005 (1)

H D01K2  
H D03K2  
H D04K2

J-01 \* H  
J-02 \* H  
J-03 \* H

D01  
D01  
D01

1  
2

6-0/8  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

54  
54  
54  
54

BUS 006  
BUS 006  
BUS 006  
BUS 006

L A01F1  
L A04F1  
L C04K2

J-01 \* H  
J-02 \* H  
J-03 \* H

D02  
D02  
D01

2  
1

11-6/8  
11-6/8

HAND WIRE  
HAND WIRE  
H TU WHERE

55  
55  
55  
55

BUS 006 (1)  
BUS 006 (1)  
BUS 006 (1)  
BUS 006 (1)

H D01L2  
H D03L2  
H D04L2

J-01 \* H  
J-02 \* H  
J-03 \* H

D01  
D01  
D01

1  
2

6-0/8  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

56  
56  
56  
56

BUS 007  
BUS 007  
BUS 007  
BUS 007

L A01H2  
L A04H2  
L C04J1

J-01 \* H  
J-02 \* H  
J-03 \* H

D02  
D02  
D01

2  
1

11-7/8  
11-7/8

HAND WIRE  
HAND WIRE  
H TU WHERE

57  
57  
57  
57

BUS 007 (1)  
BUS 007 (1)  
BUS 007 (1)  
BUS 007 (1)

H D01M2  
H D03M2  
H D04M2

J-01 \* H  
J-02 \* H  
J-03 \* H

D01  
D01  
D01

1  
2

6-0/8  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

58  
58  
58  
58

BUS 008  
BUS 008  
BUS 008  
BUS 008

L A01H1  
L A04H1  
L C04N2

J-01 \* H  
J-02 \* H  
J-03 \* H

D02  
D02  
D01

2  
1

12-2/8  
12-2/8

HAND WIRE  
HAND WIRE  
H TU WHERE

59  
59  
59  
59

BUS 008 (1)  
BUS 008 (1)  
BUS 008 (1)  
BUS 008 (1)

H D01N2  
H D03N2  
H D04N2

J-01 \* H  
J-02 \* H  
J-03 \* H

D01  
D01  
D01

1  
2

6-0/8  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

60  
60  
60  
60

BUS 009  
BUS 009  
BUS 009  
BUS 009

L A01J2  
L A04J2  
L C04M1

J-01 \* H  
J-02 \* H  
J-03 \* H

D02  
D02  
D01

2  
1

12-0/8  
12-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

61  
61  
61  
61

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EXCEPTIONS  
NUMBER

BUS D09 (1)  
BUS D09 (1)  
BUS D09 (1)  
BUS D09 (1)

H D01P2  
H D03P2  
H D04P2

1-01 \* H  
1-02 \* H  
1-03 \* H

D01  
D01  
D01

1  
2  
1

P  
P  
P  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

b2  
b2  
b2  
b2

BUS D10  
BUS D10  
BUS D10  
BUS D10

L A01J1  
L A04J1  
L C04P2

1-01 \* H  
1-02 \*  
1-03 \*

D02  
D02  
D01

2  
1  
1

P  
12-0/8

HAND WIRE  
TU HERE

b3  
b3  
b3  
b3

BUS D10 (1)  
BUS D10 (1)  
BUS D10 (1)  
BUS D10 (1)

H D03R2  
H D03R2  
H D04R2

1-01 \* H  
1-02 \* H  
1-03 \* H

D01  
D01  
D01

1  
2  
1

P  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

b4  
b4  
b4  
b4

BUS D11  
BUS D11  
BUS D11  
BUS D11

L A01K2  
L A04K2  
L C04K1

1-01 \* H  
1-02 \*  
1-03 \*

D02  
D02  
D01

2  
1  
1

P  
3-1  
12-1/8

HAND WIRE  
TU HERE

b5  
b5  
b5  
b5

BUS D11 (1)  
BUS D11 (1)  
BUS D11 (1)  
BUS D11 (1)

H D01S2  
H D03S2  
H D04S2

1-01 \* H  
1-02 \* H  
1-03 \* H

D01  
D01  
D01

1  
2  
1

P  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

b6  
b6  
b6  
b6

BUS D12  
BUS D12  
BUS D12  
BUS D12

L A01K1  
L A04K1  
L D04A1

1-01 \* H  
1-02 \*  
1-03 \*

D02  
D02  
D01

2  
1  
1

P  
4-5  
13-5/8

HAND WIRE  
TU HERE

b7  
b7  
b7  
b7

BUS D12 (1)  
BUS D12 (1)  
BUS D12 (1)  
BUS D12 (1)

H D01T2  
H D03T2  
H D04T2

1-01 \* H  
1-02 \* H  
1-03 \* H

D01  
D01  
D01

1  
2  
1

P  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

b8  
b8  
b8  
b8

BUS D13  
BUS D13  
BUS D13  
BUS D13

L A01L2  
L A04L2  
L C04V1

1-01 \* H  
1-02 \*  
1-03 \*

D02  
D02  
D01

2  
1  
1

P  
4-2  
12-7/8

HAND WIRE  
TU HERE

b9  
b9  
b9  
b9

BUS D13 (1)  
BUS D13 (1)  
BUS D13 (1)  
BUS D13 (1)

H D01U2  
H D03U2  
H D04U2

1-01 \* H  
1-02 \* H  
1-03 \* H

D01  
D01  
D01

1  
2  
1

P  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

b0  
b0  
b0  
b0

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EXCEPTIONS  
NUMBER

BUS D14  
BUS D14  
BUS D14  
BUS D14

L A01U1  
L A04U1  
L C04S2

1-01 \* H  
1-02 \*  
1-03 \*

D02  
D02  
D01

2  
1  
1

P  
12-0/8

HAND WIRE  
TU HERE

b1  
b1  
b1  
b1

BUS D14 (1)  
BUS D14 (1)  
BUS D14 (1)  
BUS D14 (1)

H D01V2  
H D03V2  
H D04V2

1-01 \* H  
1-02 \* H  
1-03 \* H

D01  
D01  
D01

1  
2  
1

P  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

b2  
b2  
b2  
b2

BUS D15  
BUS D15  
BUS D15  
BUS D15

L A01M2  
L A04M2  
L D04B1

1-01 \* H  
1-02 \*  
1-03 \*

D02  
D02  
D01

2  
1  
1

P  
4-5  
13-5/8

HAND WIRE  
TU HERE

b3  
b3  
b3  
b3

BUS D15 (1)  
BUS D15 (1)  
BUS D15 (1)  
BUS D15 (1)

H D01V1  
H D03V1  
H D04V1

1-01 \* H  
1-02 \* H  
1-03 \* H

D01  
D01  
D01

1  
2  
1

P  
6-0/8

HAND WIRE  
HAND WIRE  
H TU WHERE

b4  
b4  
b4  
b4

BUS D16  
BUS D16  
BUS D16  
BUS D16

L A01M1  
L A04M1  
L C03C1

1-01 \* H  
1-02 \*  
1-03 \*

D02  
D02  
D01

2  
1  
1

P  
10-4/8

HAND WIRE  
TU HERE

b5  
b5  
b5  
b5

BUS D17  
BUS D17  
BUS D17  
BUS D17

L A01N2  
L A04N2  
L C03B1

1-01 \* H  
1-02 \*  
1-03 \*

D02  
D02  
D01

2  
1  
1

P  
10-4/8

HAND WIRE  
TU HERE

b6  
b6  
b6  
b6

BUS DC L0  
BUS DC L0  
BUS DC L0  
BUS DC L0

L A03S2  
L B04E2  
L B01F2  
L C01B1

1-01 \*  
1-02 \*  
1-03 \*  
1-04 \*

D02  
D02  
D01

1  
2  
1

12-4/8

HAND WIRE  
TU HERE

b7  
b7  
b7  
b7

BUS INIT  
BUS INIT  
BUS INIT  
BUS INIT

L A04A1  
L A01A1  
L C01C1

1-01 \* H  
1-02 \*  
1-03 \*

D02  
D02  
D01

2  
1  
1

P  
11-4/8

HAND WIRE  
TU HERE

b8  
b8  
b8  
b8

BUS INTR  
BUS INTR  
BUS INTR  
BUS INTR

L A01B1  
L A04B1  
L D04S1

1-01 \* H  
1-02 \*  
1-03 \*

D02  
D02  
D01

2  
1  
1

P  
15-6/8

HAND WIRE  
TU HERE

b9  
b9  
b9  
b9

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RP	PIN	NAME	ORDER	PIN	ORDER	Q	DRAM	KV	PG	X	Z	REMARKS	LENGTH	EXCEPTIONS	NUMBER
BUS MSYN	L	B01V1	1-01 *	H	D02	2								HAND WIRE	80
BUS MSYN	L	B04V1	1-02 *		D02	1								TU HERE	80
BUS MSYN	L	E04T2	1-03 *		D01	1									80
BUS MSYN	L												13-6/8		80
BUS NPG IN	H	A01U1	1-01 *		D02	1									81
BUS NPG IN	H	E04D1	1-02 *		D01	1									81
BUS NPG IN	H												12-0/8		81
BUS NPG OUT	H	A09U1	1-01 *	1	D02	1									82
BUS NPG OUT	H	E04U1	1-02 *		D01	1									82
BUS NPG OUT	H												13-3/8		82
BUS NPR	L	A01S2	1-01 *	H	D02	2								HAND WIRE	83
BUS NPR	L	A04S2	1-02 *		D02	1								TU HERE	83
BUS NPR	L	E04S1	1-03 *		D01	1									83
BUS NPR	L												16-6/8		83
BUS SACK	L	A01R2	1-01 *	H	D02	2								HAND WIRE	84
BUS SACK	L	A04R2	1-02 *		D02	1								TU HERE	84
BUS SACK	L	E04C1	1-03 *		D01	1									84
BUS SACK	L												15-4/8		84
BUS SSSY	L	H01U1	1-01 *	H	D02	2								HAND WIRE	85
BUS SSSY	L	B04U1	1-02 *		D02	1								TU HERE	85
BUS SSSY	L	E04P1	1-03 *		D01	1									85
BUS SSSY	L												13-5/8		85
CLK	H	C02N2	1-01 *			1									86
CLK	H	E01E1	1-02 *	H	D01	2								HAND WIRE	86
CLK	H	E03D2	1-03 *	H	D01	1								H TU WHERE	86
CLK	H												10-6/8		86
CLR MSR	L	F01F2	1-01 *	H	D01	1								HAND WIRE	87
CLR MSR	L	F02F2	1-02 *	H	D01	1								H TU WHERE	87
CLR MSR	L												2-6/8		87
COUNT SA	H	C01M1	1-01 *	H	D01	1								HAND WIRE	88
COUNT SA	H	C03M1	1-02 *	H	D01	1								H TU WHERE	88
COUNT SA	H												3-2/8		88
CYL UVF	L	C02R2	1-01 *	H	D01	1								HAND WIRE	89
CYL UVF	L	C03R2	1-02 *	H	D01	1								H TU WHERE	89
CYL UVF	L												2-6/8		89

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RP	PIN	NAME	ORDER	PIN	ORDER	Q	DRAM	KV	PG	X	Z	REMARKS	LENGTH	EXCEPTIONS	NUMBER
DATA (1)	H	B03H1	1-01 *		D02	1									90
DATA (1)	H	C03S1	1-02 *	H	D01	2								HAND WIRE	90
DATA (1)	H	C02S1	1-03 *	H	D01	1								HAND WIRE	90
DATA (1)	H	C01S1	1-04 *	H	D01	1								H TU WHERE	90
DATA (1)	H												11-2/8		90
DATA STR 1	L	E04W2		H	D01	1								1-PIN RUN	91
DATA STR 2	L	E03L2	1-01 *	H	D01	1								HAND WIRE	92
DATA STR 2	L	E04L2	1-02 *	H	D01	1								H TU WHERE	92
DATA STR 2	L												2-6/8		92
DISK CLK	L	F01V1	1-01 *	H	D01	1								HAND WIRE	93
DISK CLK	L	F02V1	1-02 *	H	D01	1								H TU WHERE	93
DISK CLK	L												2-6/8		93
DLT (1)	H	E01P1	1-01 *	H	D01	1								HAND WIRE	94
DLT (1)	H	E03P2	1-02 *	H	D01	1								H TU WHERE	94
DLT (1)	H												3-4/8		94
DPL (1)	H	F01D1	1-01 *	H	D01	1								HAND WIRE	95
DPL (1)	H	F02D1	1-02 *	H	D01	1								H TU WHERE	95
DPL (1)	H												2-6/8		95
DR BUS ADD ACK	L	A02R2	1-01 *		D02	1									96
DR BUS ADD ACK	L	D02H1	1-02 *		D01	1									96
DR BUS ADD ACK	L												9-0/8		96
DR BUS CYL ADD 0	L	A02K1	1-01 *		D02	1									97
DR BUS CYL ADD 0	L	C02K1	1-02 *		D01	1									97
DR BUS CYL ADD 0	L												7-7/8		97
DR BUS CYL ADD 1	L	A02U1	1-01 *		D02	1									98
DR BUS CYL ADD 1	L	C02D1	1-02 *		D01	1									98
DR BUS CYL ADD 1	L												7-7/8		98
DR BUS CYL ADD 2	L	A02L1	1-01 *		D02	1									99
DR BUS CYL ADD 2	L	C02L1	1-02 *		D01	1									99
DR BUS CYL ADD 2	L												7-7/8		99
DR BUS CYL ADD 3	L	A02C1	1-01 *		D02	1									100
DR BUS CYL ADD 3	L	C02C1	1-02 *		D01	1									100
DR BUS CYL ADD 3	L												7-7/8		100
DR BUS CYL ADD 4	L	A02F1	1-01 *		D02	1									101
DR BUS CYL ADD 4	L	C02F1	1-02 *		D01	1									101
DR BUS CYL ADD 4	L												7-7/8		101

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Table with columns: RUN NAME, A/P PIN NAME, ORDER PIN, DRAWING, KV, PG, I, X, Z, REMARKS, LENGTH, EXCEPTIIONS, and a final column with values like 147, 148, etc.

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68-2/8

COMPONENT

Table with columns: RUN NAME, A/P PIN NAME, ORDER PIN, DRAWING, KV, PG, I, X, Z, REMARKS, LENGTH, EXCEPTIIONS, and a final column with values like 149, 150, etc.

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65-0/8

COMPONENT







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APP NAME	PIN ORDER	PIN ORDER	DRAM KV PG 1	A	Z	REMARKS	1-MAY-74	19:27	PAGE 24
LAST SECTOR	L C02U2	1-01 *	H	001	1		F	HAND WIRE	197
LAST SECTOR	L C03U2	1-02 *	H	001			F	H TO WHERE	197
LAST SECTOR								2-6/8	197
LAST ADDR DUNE	L C01U1	1-01 *	H	001	1		F	HAND WIRE	198
LAST ADDR DUNE	L C03U1	1-02 *	H	001			F	H TO WHERE	198
LAST ADDR DUNE								3-2/8	198
LOAD KKBA HI	L E03V2	1-01 *	H	001	1		F	HAND WIRE	199
LOAD KKBA HI	L E04V2	1-02 *	H	001			F	H TO WHERE	199
LOAD KKBA HI								2-6/8	199
LOAD KKBA LO	L E03H2	1-01 *	H	001	1		F	HAND WIRE	200
LOAD KKBA LO	L E04H2	1-02 *	H	001			F	H TO WHERE	200
LOAD KKBA LO								2-6/8	200
LOAD KKCS HI	L E01H1	1-01 *	H	001	1		F	HAND WIRE	201
LOAD KKCS HI	L E04H1	1-02 *	H	001			F	H TO WHERE	201
LOAD KKCS HI								3-6/8	201
LOAD KKCS LO	L E01M1	1-01 *	H	001	1		F	HAND WIRE	202
LOAD KKCS LO	L E04M1	1-02 *	H	001			F	H TO WHERE	202
LOAD KKCS LO								3-6/8	202
LOAD KKDA HI	L E03E2	1-01 *	H	001	1		F	HAND WIRE	203
LOAD KKDA HI	L E04E2	1-02 *	H	001			F	H TO WHERE	203
LOAD KKDA HI								2-6/8	203
LOAD KKDA LO	L E03F2	1-01 *	H	001	1		F	HAND WIRE	204
LOAD KKDA LO	L E04F2	1-02 *	H	001			F	H TO WHERE	204
LOAD KKDA LO								2-6/8	204
LOAD KKAC HI	L E01H1	1-01 *	H	001	1		F	HAND WIRE	205
LOAD KKAC HI	L E04H1	1-02 *	H	001			F	H TO WHERE	205
LOAD KKAC HI								3-6/8	205
LOAD KKAC LO	L E01F1	1-01 *	H	001	1		F	HAND WIRE	206
LOAD KKAC LO	L E04F1	1-02 *	H	001			F	H TO WHERE	206
LOAD KKAC LO								3-6/8	206
M CLR	L A02U2	1-01 *	H	001	1		F		207
M CLR	L D02U2	1-02 *	H	001			F		207
M CLR								8-6/8	207

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APP NAME	PIN ORDER	PIN ORDER	DRAM KV PG 1	A	Z	REMARKS	1-MAY-74	19:27	PAGE 23
NEW FWH	L C01R1	1-01 *	H	001	2		F	HAND WIRE	208
NEW FWH	L C02R1	1-02 *	H	001	1		F	HAND WIRE	208
NEW FWH	L C03R1	1-03 *	H	001			F	H TO WHERE	208
NEW FWH								5-4/8	208
NPR EN (1)	H C03V2	1-01 *	H		1		F		209
NPR EN (1)	H E04H2	1-02 *	H				F		209
NPR EN (1)								1-0/8	209
NPR FWH	H E03U2	1-01 *	H	001	1		F	HAND WIRE	210
NPR FWH	H E04U2	1-02 *	H	001			F	H TO WHERE	210
NPR FWH								1-6/8	210
NAM (1)	H E01M1	1-01 *	H	001	1		F	HAND WIRE	211
NAM (1)	H E04M1	1-02 *	H	001			F	H TO WHERE	211
NAM (1)								1-6/8	211
OUT BUFF FULL (1)	H B03L2	1-01 *	H	002	1		F		212
OUT BUFF FULL (1)	H C03L2	1-02 *	H	001			F		212
OUT BUFF FULL (1)								1-6/8	212
PULL DUNE	L F01U1	1-01 *	H	001	1		F	HAND WIRE	213
PULL DUNE	L F02U1	1-02 *	H	001			F	H TO WHERE	213
PULL DUNE								2-6/8	213
PREAMBLE (1)	H F01M2	1-01 *	H	001	1		F	HAND WIRE	214
PREAMBLE (1)	H F02M2	1-02 *	H	001			F	H TO WHERE	214
PREAMBLE (1)								1-6/8	214
R/W/S RDY	H F01P2	1-01 *	H	001	1		F	HAND WIRE	215
R/W/S RDY	H E02P2	1-02 *	H	001			F	H TO WHERE	215
R/W/S RDY								2-6/8	215
RD DATA=1 DATA	H F01M1	1-01 *	H	001	1		F	HAND WIRE	216
RD DATA=1 DATA	H F02M1	1-02 *	H	001			F	H TO WHERE	216
RD DATA=1 DATA								2-6/8	216
RD GATE (1)	H B03F2	1-01 *	H	002	1		F		217
RD GATE (1)	H D02I2	1-02 *	H	001			F		217
RD GATE (1)								1-6/8	217
RD GATE EN	H F01J2	1-01 *	H	001	1		F	HAND WIRE	218
RD GATE EN	H F02J2	1-02 *	H	001			F	H TO WHERE	218
RD GATE EN								2-6/8	218



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APZ	PIN	ORDER	NAME	PKT	QTY	UNIT	PRICE	AMOUNT	DATE	REMARKS
H	F03S1	1-01 *	H	U01	1					
H	F04S1	1-02 *	H	U01	1					HAND WIFE 241
H	F03	1-01 *	H	U01	1					H TU WHERE 241
H	F0401	1-02 *	H	U01	1					2-6/8
H	F03V1	1-01 *	H	U01	1					
H	F04V1	1-02 *	H	U01	1					HAND WIFE 242
L	F01S1	1-01 *	H	U01	1					H TU WHERE 242
L	E04S2	1-02 *	H	U01	1					2-6/8
H	H03U2	1-01 *	H	U02	1					
H	F03A1	1-02 *	H	U01	2					HAND WIFE 243
H	E02A1	1-03 *	H	U01	2					H TU WHERE 243
H	H03K1	1-01 *	H	U02	1					
H	F03C1	1-02 *	H	U01	1					HAND WIFE 244
H	E02C1	1-03 *	H	U01	1					H TU WHERE 244
H	F01C1	1-04 *	H	U01	1					2-6/8
H	H03K2	1-01 *	H	U02	1					
H	F0401	1-02 *	H	U01	2					HAND WIFE 245
H	F02H1	1-03 *	H	U01	1					H TU WHERE 245
H	E0101	1-04 *	H	U01	1					
H	H03U2	1-01 *	H	U02	1					HAND WIFE 246
H	E03H1	1-02 *	H	U01	2					H TU WHERE 246
H	E02H1	1-03 *	H	U01	1					10-6/8
H	H03T2	1-01 *	H	U02	1					
H	E03T1	1-02 *	H	U01	1					HAND WIFE 247
H	F02F1	1-03 *	H	U01	2					H TU WHERE 247
H	H03U2	1-01 *	H	U02	1					
H	E03H1	1-02 *	H	U01	1					HAND WIFE 248
H	E02H1	1-03 *	H	U01	2					H TU WHERE 248
H	H03T2	1-01 *	H	U02	1					
H	E03T1	1-02 *	H	U01	1					HAND WIFE 249
H	F02F1	1-03 *	H	U01	2					H TU WHERE 249
H	H03U2	1-01 *	H	U02	1					
H	E03H1	1-02 *	H	U01	1					HAND WIFE 250
H	E02H1	1-03 *	H	U01	2					H TU WHERE 250
H	H03T2	1-01 *	H	U02	1					
H	E03T1	1-02 *	H	U01	1					HAND WIFE 251
H	F02F1	1-03 *	H	U01	2					H TU WHERE 251

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APZ	PIN	ORDER	NAME	PKT	QTY	UNIT	PRICE	AMOUNT	DATE	REMARKS
H	H03C1	1-01 *	H	U02	1					
H	E03H1	1-02 *	H	U02	2					HAND WIFE 251
H	E02H1	1-03 *	H	U01	1					H TU WHERE 251
H	H03U1	1-01 *	H	U01	1					
H	E03U1	1-02 *	H	U01	2					HAND WIFE 252
H	E02U1	1-03 *	H	U01	1					H TU WHERE 252
H	H03H1	1-01 *	H	U02	1					
H	F03K1	1-02 *	H	U01	2					HAND WIFE 253
H	F02K1	1-03 *	H	U01	1					H TU WHERE 253
H	H03U1	1-01 *	H	U02	1					
H	F03U1	1-02 *	H	U01	2					HAND WIFE 254
H	F02U1	1-03 *	H	U01	1					H TU WHERE 254
H	H03P1	1-01 *	H	U02	1					
H	E03P1	1-02 *	H	U01	2					HAND WIFE 255
H	F02P1	1-03 *	H	U01	1					H TU WHERE 255
H	H03S2	1-01 *	H	U02	1					
H	E03N1	1-02 *	H	U01	2					HAND WIFE 256
H	F02N1	1-03 *	H	U01	1					H TU WHERE 256
H	H03K1	1-01 *	H	U02	1					
H	E03P1	1-02 *	H	U01	2					HAND WIFE 257
H	F02P1	1-03 *	H	U01	1					H TU WHERE 257
H	E02H1	1-01 *	H	U01	1					
H	F03K1	1-02 *	H	U01	1					HAND WIFE 258
H	E02S1	1-01 *	H	U01	1					H TU WHERE 258
H	E03S1	1-02 *	H	U01	1					
H	E02U1	1-01 *	H	U01	1					HAND WIFE 259
H	F03U1	1-02 *	H	U01	1					H TU WHERE 259

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 A/P PIN ORDER RAY - U DRAM BY P. I A Z REMARKS 1-MAY-74 1972/ 2M

A/P	PIN	NAME	ORDER	RAY	U	DRAM	BY	P.	I	A	Z	REMARKS	1-MAY-74	1972/	2M
H	F01N2												P	HAND WIRE	261
H	F02N2												P	H TO WHERH	261
H	F01N1												P	HAND WIRE	262
H	F02N1												P	H TO WHERH	262
H	F01N2												P	HAND WIRE	263
H	F02N2												P	H TO WHERH	263
H	F01E2												P	HAND WIRE	264
H	F02E2												P	H TO WHERH	264
H	F01F2												P	HAND WIRE	265
H	F02F2												P	H TO WHERH	265
H	F01H2												P	HAND WIRE	266
H	F02H2												P	H TO WHERH	266
H	F01S1												P	HAND WIRE	267
H	F02S1												P	H TO WHERH	267
L	F01N2												P	HAND WIRE	268
L	F02N2												P	H TO WHERH	268
H	F01N2												P	HAND WIRE	269
H	F02N2												P	H TO WHERH	269
H	H03N2												P	HAND WIRE	270
H	F02N2												P	H TO WHERH	270
H	F01N2												P	HAND WIRE	271
H	F02N2												P	H TO WHERH	271
H	C01V1												P	HAND WIRE	271
H	C02V1												P	H TO WHERH	271
H	C03V1												P	H TO WHERH	271
H	C01V1												P	HAND WIRE	271
H	C02V1												P	H TO WHERH	271
H	C03V1												P	H TO WHERH	271
H	H03N2												P	HAND WIRE	271
H	F02N2												P	H TO WHERH	271
H	F01N2												P	HAND WIRE	271
H	F02N2												P	H TO WHERH	271
L	C01H1												P	HAND WIRE	272
L	C03H1												P	H TO WHERH	272
L	F01N2												P	HAND WIRE	272
L	F02N2												P	H TO WHERH	272
H	H03S1												P	HAND WIRE	272
H	C03J1												P	H TO WHERH	272
H	C01J1												P	HAND WIRE	272
H	F01N2												P	HAND WIRE	272
H	F02N2												P	H TO WHERH	272
H	H03A1												P	HAND WIRE	272
H	F02H2												P	H TO WHERH	272
H	H03A2												P	HAND WIRE	272
H	C03P1												P	HAND WIRE	272
H	F01F1												P	H TO WHERH	272
H	F01S2												P	HAND WIRE	272
H	F02S2												P	H TO WHERH	272
H	E01J2												P	HAND WIRE	272
H	F02J2												P	H TO WHERH	272
H	H03H2												P	HAND WIRE	272
H	C03P1												P	HAND WIRE	272
H	C02P1												P	HAND WIRE	272
H	C01P1												P	HAND WIRE	272
H	F01V2												P	HAND WIRE	272
H	F02V2												P	H TO WHERH	272

RK110.F  
 HW02RR.V22(22) 11/06/73  
 A/P PIN ORDER RAY - U DRAM BY P. I A Z REMARKS 1-MAY-74 1972/ 2M

A/P	PIN	NAME	ORDER	RAY	U	DRAM	BY	P.	I	A	Z	REMARKS	1-MAY-74	1972/	2M
H	F01N2												P	HAND WIRE	272
H	F02N2												P	H TO WHERH	272
L	C01H1												P	HAND WIRE	272
L	C03H1												P	H TO WHERH	272
L	F01N2												P	HAND WIRE	272
L	F02N2												P	H TO WHERH	272
H	H03S1												P	HAND WIRE	272
H	C03J1												P	H TO WHERH	272
H	C01J1												P	HAND WIRE	272
H	F01N2												P	HAND WIRE	272
H	F02N2												P	H TO WHERH	272
H	H03A1												P	HAND WIRE	272
H	F02H2												P	H TO WHERH	272
H	H03A2												P	HAND WIRE	272
H	C03P1												P	HAND WIRE	272
H	F01F1												P	H TO WHERH	272
H	F01S2												P	HAND WIRE	272
H	F02S2												P	H TO WHERH	272
H	E01J2												P	HAND WIRE	272
H	F02J2												P	H TO WHERH	272
H	H03H2												P	HAND WIRE	272
H	C03P1												P	HAND WIRE	272
H	C02P1												P	HAND WIRE	272
H	C01P1												P	HAND WIRE	272
H	F01V2												P	HAND WIRE	272
H	F02V2												P	H TO WHERH	272

WT LOCK  
 WT UNLK  
 WT LOCK  
 WT PRCT STATUS  
 WT PRCT STATUS  
 WT PRCT STATUS  
 WT\*IN CHK  
 WT\*OUT CHK  
 WT\*INT CHK  
 WT\*INT CHK  
 WT\*INT CHK  
 WT\*OUT CHK  
 XFER FUNCTION  
 XFER FUNCTION  
 XFER FUNCTION