

**RK8-E disk
cartridge control
engineering drawings**

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

SEQUENCE

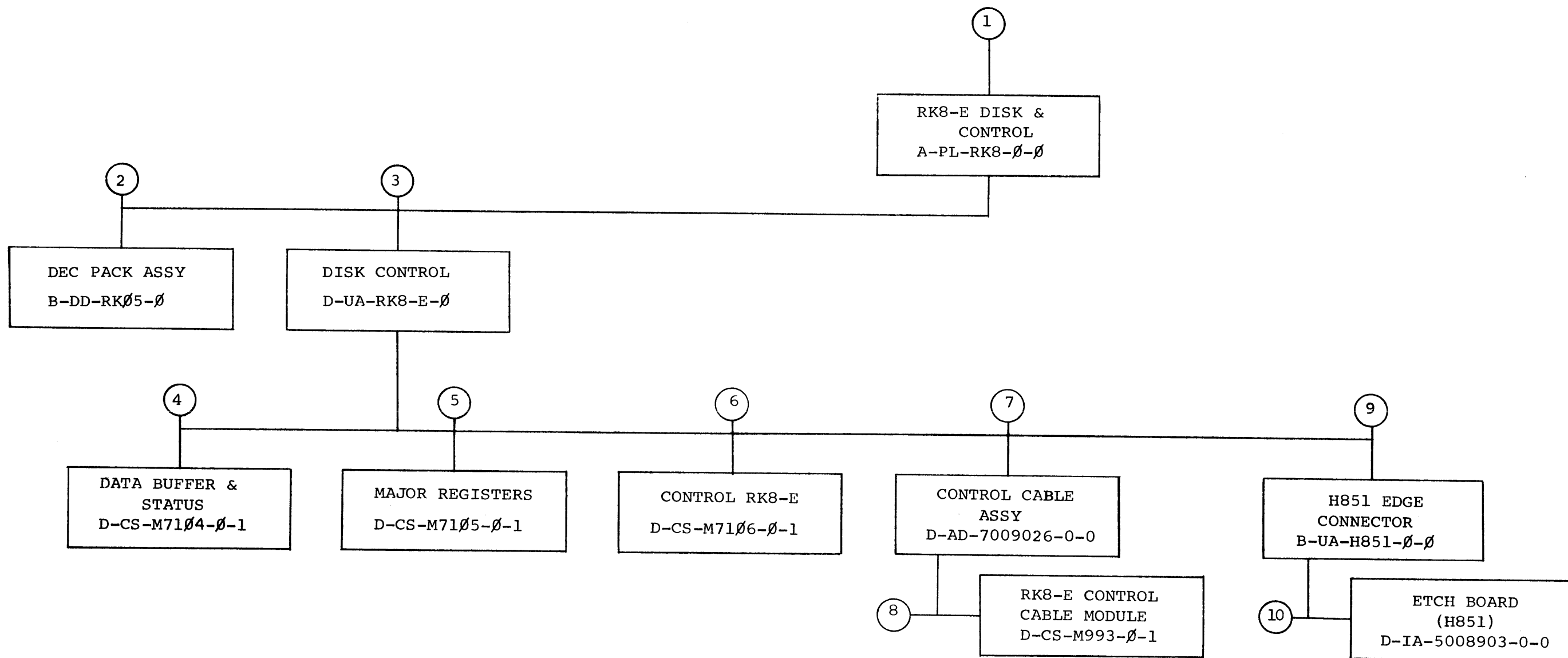
SEQUENCE

THIS IS PRINT SET

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RK8-E DISK & CONTROL	B-DD-RK8-E-Ø
FIELD INSTALL. & ACCEPT. PROC.	A-SP-RK8-E-6
RK8-E DISK & CONTROL	A-PL-RK8-Ø-Ø
ACCESSORY SHIPPING LIST	A-AL-RK8-E-3
DISK CONTROL	D-UA-RK8-E-Ø
MAJOR STATES & TIMING FLOW	D-TD-RK8-E-2
FLOW DIAGRAM RK8-E	D-FD-RK8-E-1
DATA BUFFER & STATUS	D-CS-M71Ø4-Ø-1
MAJOR REGISTERS	D-CS-M71Ø5-Ø-1
CONTROL RK8-E	D-CS-M71Ø6-Ø-1
CONTROL CABLE ASSY	D-AD-7009026-0-0
RK8-E CONTROL CABLE MODULE	D-CS-M993-Ø-1
H851 EDGE CONNECTOR	B-CS-H851-Ø-1
DEC PACK ASSY	B-DD-RKØ5-Ø

[illegible][illegible]



TITLE	SHEET 2 OF 3	SIZE	CODE	NUMBER	REV
RK8-E DISK & CONTROL		B	DD	RK8-Ø	

CUSTOMER PRINT SET				MECHANICAL/ELECTRICAL					CUSTOMER PRINT SET				MECHANICAL/ELECTRICAL										
				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
x						1	A-PL-RK8-Ø-Ø		1	RK8-E DISK & CONTROL		x						7	D-AD-7009026-0-0		2	CONTROL CABLE ASSY,	
x						2	B-DD-RKØ5-Ø	B	5	DEC PACK ASSY		x						8	D-CS-M993-Ø-1	*	2	RK8-E CONTROL CABLE MODULE	
																			K-CO-M993-Ø-4		1	X-Y COORDINATE HOLE LOCATION	
																			D-AH-M993-Ø-5		1	ASSY/DRILLING HOLE LAYOUT	
																			B-MH-M993-Ø-6		1	MODULE ECO HISTORY	
x						3	D-UA-RK8-E-Ø		1	DISK CONTROL		x						9	B-UA-H851-Ø-Ø	A	1	H851 EDGE CONNECTOR	
x							D-FD-RK8-E-1		4	FLOW DIAGRAM RK8-E									A-PL-H851-Ø-Ø	A	1	H851 EDGE CONNECTOR	
x							D-TD-RK8-E-2		1	MAJOR STATES & TIMING FLOW									B-CS-H851-Ø-1	A		EDGE CONNECTOR H851	
x							A-AL-RK8-E-3		1	ACCESSORY SHIPPING LIST									C-AH-H851-Ø-5	A	1	ASSY/DRILLING HOLE LAYOUT	
							A-SP-RK8-E-4		3	MODULE TEST & ACCEPTANCE FOR RK8-E									B-MH-H851-Ø-6		1	MODULE ECO HISTORY	
							A-SP-RK8-E-5		39	RK8E DISK CONTROL													
x							A-SP-RK8-E-6		5	FIELD INSTALL & ACCEPT. PROC.													
							A-SP-RK8-E-7		5	IN-HOUSE ACCEPT. PROC.													
x						4	D-CS-M71Ø4-Ø-1	A	7	DATA BUFFER & STATUS								10	D-IA-5008903-0-0	A	1	ETCH BOARD (H851)	
							K-CO-M71Ø4-Ø-4		1	X-Y COORDINATE HOLE LOCATION									C-AH-5008903-0-5		1	ASSY/DRILLING HOLE LOCATION	
							D-AH-M71Ø4-Ø-5		1	ASSY/DRILLING HOLE LAYOUT													
							B-MH-M71Ø4-Ø-6		1	MODULE ECO HISTORY													
x						5	D-CS-M71Ø5-Ø-1	A	5	MAJOR REGISTERS													
							K-CO-M71Ø5-Ø-4		1	X-Y COORDINATE HOLE LOCATION													
							D-AH-M71Ø5-Ø-5		1	ASSY DRILLING HOLE LAYOUT													
							B-MH-M71Ø5-Ø-6		1	MODULE ECO HISTORY													
x						6	D-CS-M71Ø6-Ø-1	A	6	CONTROL RK8-E													
							K-CO-M71Ø6-Ø-4		1	X-Y COORDINATE HOLE LOCATION													
							D-AH-M71Ø6-Ø-5		1	ASSY/DRILLING HOLE LAYOUT													
							B-MH-M71Ø6-Ø-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								TITLE				SHEET 3 OF 3		SIZE CODE		NUMBER		REV	
				RK8-E DISK & CONTROL										B DD		RK8-Ø							

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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

DATE 10-12-72

TITLE RK8E FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG <i>[Signature]</i> 10/12/72	APPD <i>[Signature]</i> 10/12/72	SIZE A	CODE SP	NUMBER RK8-E-6	REV
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DEC FORM NO.
DRA 107A

SHEET 1 OF 5

ENGINEERING SPECIFICATION



CONTINUATION SHEET

TITLE RK8E FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

- 1.0 SHIPPING HARDWARE
 - 1.1 RK8E Control
 - 1.1.1 M7104
 - 1.1.2 M7105
 - 1.1.3 M7106
 - 1.2 RK05 Disk Drive (Maximum of 4 drives per control)
 - 1.2.1 95 to 130VAC @ 60 $\pm$ 0.5 Hz - RK05-AA
 - 1.2.2 190 to 260VAC @ 60 $\pm$ 0.5 Hz - RK05-AB
 - 1.2.3 95 to 130 VAC @ 50 $\pm$ 0.5 Hz - RK05-BA
 - 1.2.4 190 to 260 VAC @ 50 $\pm$ 0.5 Hz - RK05-BB
 - 1.3 Interface Cables and Terminator
 - 1.3.1 Interface cable between RK8E control and RK05 - 7009026
 - 1.3.2 Interface cable from one RK05 to another. BC11A
 - 1.3.3 Terminator Module (last RK05)
M930
 - 1.4 (1)Disk Cartridge, HD16 Sector, 30-10350-02.
- 2.0 SHIPPING SOFTWARE
 - 2.1 RK8E Diskless Control Test
 - Maindec-08-DHRKA-A-PB
 - Maindec-08-DHRKA-A-D
 - 2.2 RK8E Drive Control Test
 - Maindec-08-DHRKB-A-PB
 - Maindec-08-DHRKB-A-D
 - 2.3 RK8E Formatter Program
 - Maindec-08-DHRKD-A-PB
 - Maindec-08-DHRKD-A-D
 - 2.4 RK8E Data Reliability Program
 - Maindec-08-DHRKC-A-PB
 - Maindec-08-DHRKC-A-D

DEC FORM NO 16-1022
DRA 108

SIZE A	CODE SP	NUMBER RK8-E-6	REV
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SHEET 2 OF 5

ENGINEERING SPECIFICATION

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CONTINUATION SHEET

TITLE RK8E FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

3.0 UNPACKING AND INSTALLATION

- 3.1 Unpack and inspect RK05 using the procedure in the RK05 Disk Drive Maintenance Manual, Chapter 2.
- 3.2 Using the Shipping Hardware and Software lists, verify that all items are present.
- 3.3 Insure power on the PDP-8E, 8M, 8F is turned off.
- 3.4 Check the M7104 to insure that the device code jumpers are in the correct configuration (normally 674X), refer to Table 1.

NOTE: The diagnostic programs normally recongnizes Program Device Code 674X. If it desired to operate with a different code, refer to the Diagnostic Document's Section headed "Change Program Device Codes".

TABLE 1

<u>Octal Code</u>	<u>Jumpers Installed</u>
674X	W2 W4 W6
675X	W2 W3 W4
676X	W1 W2 W6
677X	W1 W2 W3

- 3.5 Check M7105 module to insure that the priority jumpers are in the correct configuration, refer to Table 2.

SIZE
ACODE
SPNUMBER
RK8-E-6

REV

ENGINEERING SPECIFICATION

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CONTINUATION SHEET

TITLE RK8E FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

3.0 UNPACKING AND INSTALLATION (continued)

TABLE 2

<u>Break Priority</u>	<u>Jumpers Installed</u>
Ø	W1 W4
1*	W2 W3 W5

*Normally shipped with priority 1 jumpers installed.

- 3.6 Connect the 7009026 cable to the Berg connector on the M7106 module.
- 3.7 Insert the RK8E modules into the Omnibus (refer to UA-RK8-E-Ø). Refer to Table 2-3 in Volume I of the PDP-8E Maintenance Manual for installation priorities.
- 3.8 Install H851 top connectors between the modules (refer to UA-RK8-E-Ø).
- 3.9 Following the procedure in the RK05 Maintenance Manual, Chapter 2, install the RK05.
- 4.0 ACCEPTANCE
- 4.1 Requirements for Acceptance
- A. ASR33 teletype, or equivalent.
B. Programmers console.
C. At least 4K of Read/Write Memory.
- 4.2 Run, in order, the programs listed in the "Shipping Software", using the loading and operating procedures in each program's document. If any errors occur, refer to the errors section of the document to evaluate the printout, and Chapter 5 of the RK8E Maintenance Manual for aids in determining the problem.

SIZE
ACODE
SPNUMBER
RK8-E-6

REV

TITLE RK8E FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

4.0 ACCEPTANCE (continued)

4.3 Each program should be run the following amount of passes.

- A. Diskless Control Test - Two Passes
- B. Drive Control Test - Two Passes
- C. Formatter Program - One Pass
- D. Data Reliability Program - One Pass

4.4 Acceptable Errors

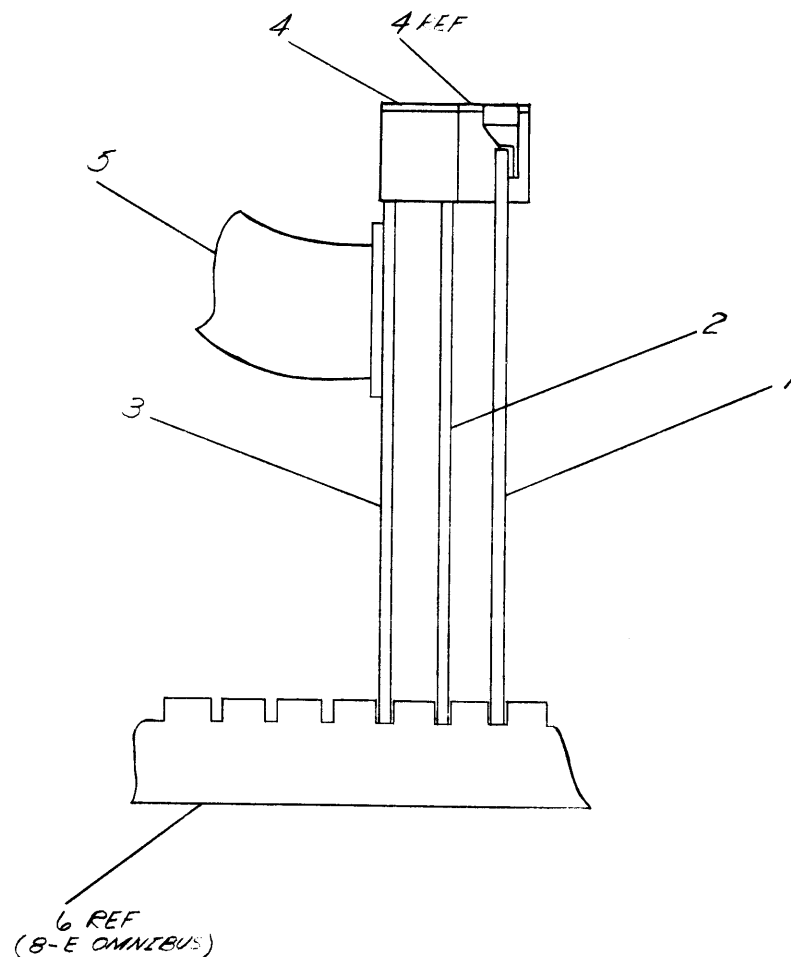
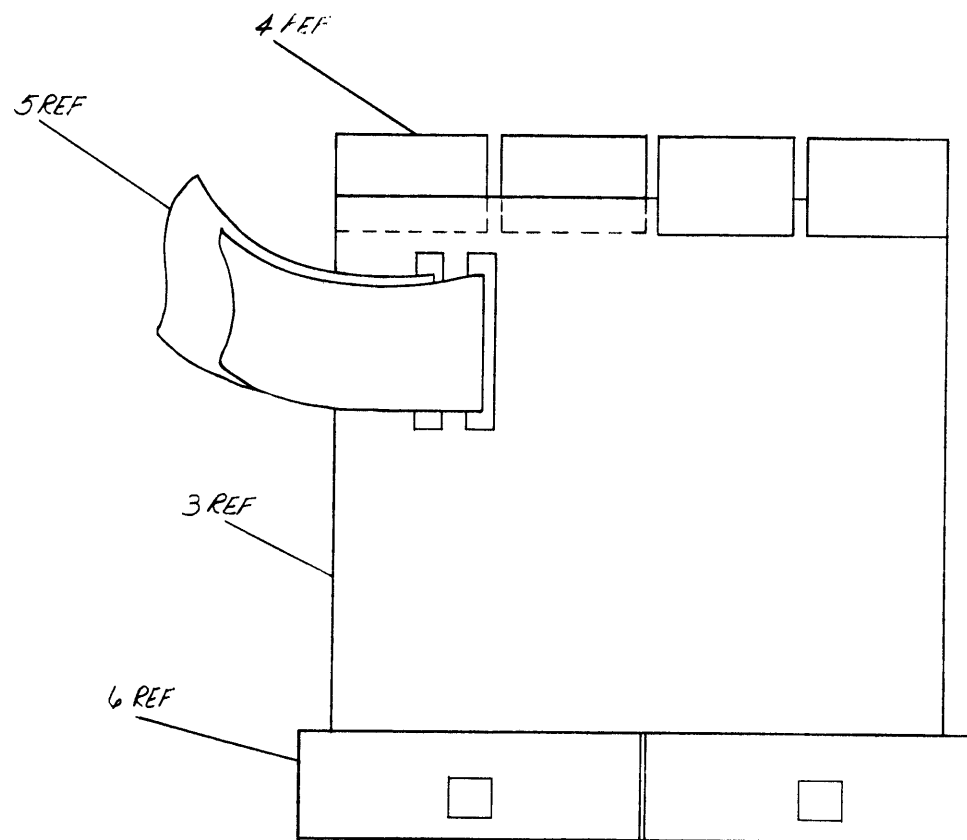
- A. One read error during the Acceptance Procedure

SIZE
ACODE
SPNUMBER
RK8-E-6

REV

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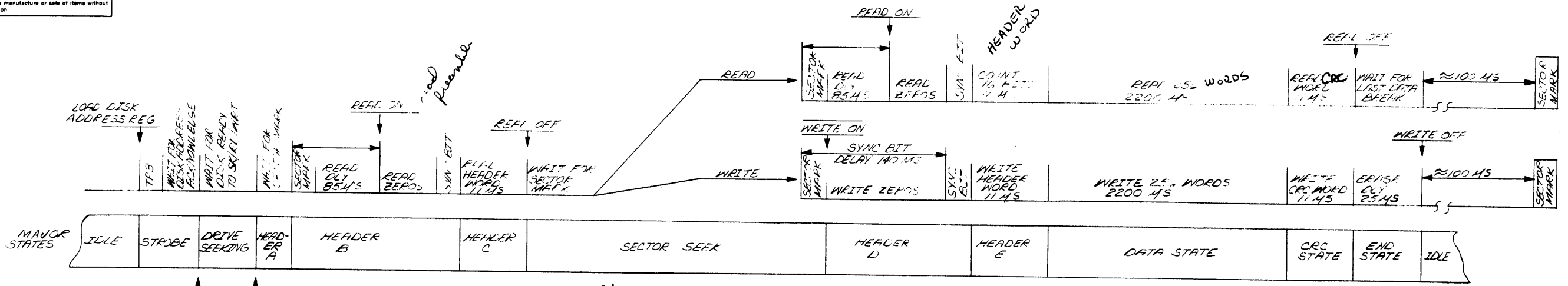
1	M993 TO BERG	D-AD-70-926-00	5
4	EDGE CONNECTOR	B-04-H551-0-0	4
1	CONTROL, RK8-E	D-CS-M7106-01	3
1	MARK REGISTERS	D-CS-M7105-0-1	2
1	DATA BUFFER & STATUS	D-CS-M7104-01	1

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN. CHK'D.	DATE DATE	PARTS LIST	
DECIMALS .XXX = .005 .XX = .02 .X = .1	ANGLES ±0° 30'	ENG PROJ. ENG. PROD.	DATE DATE DATE	TITLE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		NEXT HIGHER ASSY.		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
MATERIAL		B-04-H551-0-0		DISK CONTROL	
FINISH		SCALE		SIZE CODE NUMBER REV	
		SHEET 1 OF 1		DUA RK8-E-0	

BRM NG 40-107 15948
DTC FORM NO
DRU 100-A

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REV 2
NUMBER 3003 32/5
RK8-E-2



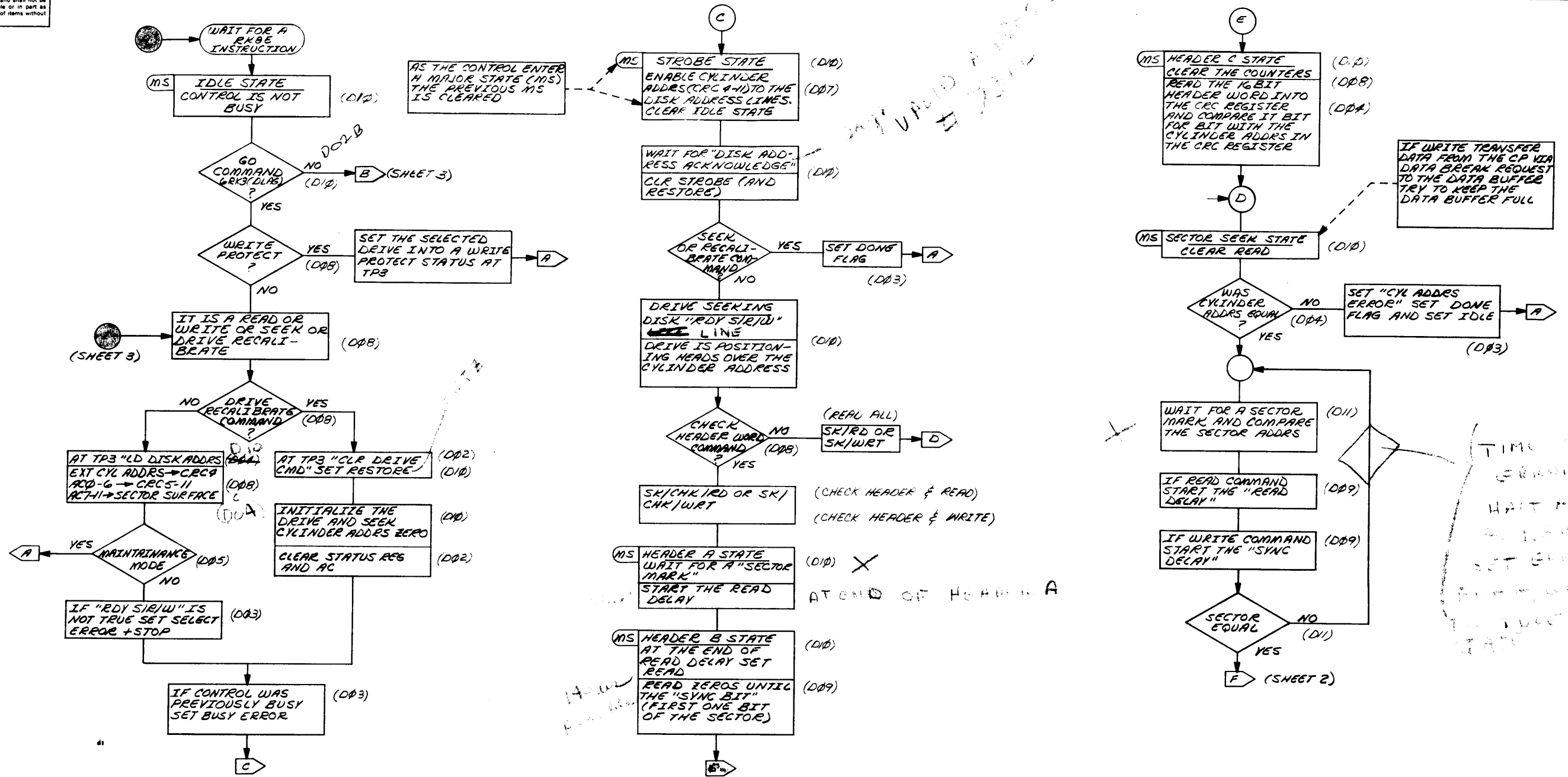
MAJOR STATE	FUNCTION	FUNCTION				
		SEEK	SK/CHK/RO	SK/CHK/WRT	SK/RO/WR	SK/WR/ALL
IDLE	CONTROL IS NOT BUSY. WHEN THE GO COMMAND (FLAG) IS ISSUED THE C(AC) IS LOADED INTO THE CRC* AND SECTOR-SURFACE REGISTERS (DISK ADDRESS)	✓	✓	✓	✓	✓
STROBE	STROBE THE CYLINDER ADDRESS FROM THE C(AC) REGISTER TO THE DRIVE AND WAIT FOR THE DRIVE'S "ADDRESS ACKNOWLEDGE" SIGNAL.	✓	✓	✓	✓	✓
DRIVE SEEKING	WAIT FOR THE "DISK READY TO SEEK/READ/WRITE" LEVEL FROM THE DRIVE TO SIGNIFY THAT THE HEADS ARE POSITIONED OVER THE CYLINDER ADDRESS.	✓	✓	✓	✓	✓
HEADER A	WAIT FOR THE FIRST SECTOR MARK, THEN START THE READ DELAY.	✓	✓			
HEADER B	AT THE END OF THE READ DELAY TURN THE READ FLOP ON. ZEROS WILL BE READ UNTIL THE SYNC BIT WHICH SIGNIFYS THE BEGINNING OF A SECTOR'S DATA.	✓	✓			
HEADER C	READ THE 16 BIT HEADER WORD AND COMPARE IT WITH THE CYLINDER ADDRESS IN THE CRC REGISTER.	✓	✓			
SECTOR SEEK	IF THE HEADER WORD DOES NOT EQUAL THE CYLINDER ADDRESS SET THE "CYLINDER ADDRESS ERROR" AND GO TO THE IDLE STATE. AT EACH SECTOR MARK COMPARE THE SECTOR ADDRESS WITH THE DISK SECTOR ADDRESS LINES, IF EQUAL GO TO THE NEXT STATE.	✓	✓	✓	✓	
HEADER D	AT THE BEGINNING OF THE SECTOR START THE "READ DELAY." AT THE END OF THE READ DELAY SET "READ." ZEROS WILL BE READ UNTIL THE SYNC BIT.	✓		✓		
	AT THE BEGINNING OF THE SECTOR START THE "SYNC BIT DELAY." ZEROS ARE WRITTEN FOR THE LENGTH OF THE DELAY. A ONE BIT (SYNC BIT) IS THEN WRITTEN.		✓		✓	

MAJOR STATE	FUNCTION	FUNCTION				
		SEEK	SK/CHK/RO	SK/CHK/WRT	SK/RO/WR	SK/WR/ALL
HEADER E	COUNT AND IGNORE THE FIRST 16 BITS.		✓		✓	
	WRITE THE HEADER WORD SPECIFIED BY THE CRC REGISTER.			✓		✓
DATA STATE	READ 256-12 BIT WORDS FROM THE DISK INTO THE DATA BUFFER AND COMPUTE THE CRC. TRANSFER 12 BIT WORD FROM DATA BUFFER TO THE PROCESSOR. THE CONTROL WILL TRY TO KEEP DATA BUFFER EMPTY VIA DATA BREAKS.		✓		✓	
	WRITE ON THE DISK 256-12 BIT WORDS TRANSFERED FROM THE PROCESSOR TO THE DATA BUFFER, TRYING TO KEEP DATA BUFFER FULL VIA DATA BREAKS. COMPUTE CRC.			✓		✓
CRC STATE	READ AND COMPARE THE CRC WORD WITH THE COMPUTED CRC.		✓		✓	
	WRITE THE COMPUTED CRC ON THE DISK.			✓		✓
END STATE	IF THE CRC FROM THE DISK DOES NOT EQUAL THE COMPUTED CRC, SET THE "CRC ERROR" CLEAR READ. WHEN THE DATA BUFFERS ARE EMPTIED INTO THE PROCESSOR SET THE DONE FLAG AND GO TO THE IDLE STATE.		✓		✓	
	START THE ERASE DELAY AND WRITE ZEROS. AT THE END OF THE ERASE DELAY CLEAR WRITE, SET THE DONE FLAG AND GO TO THE IDLE STATE.			✓		✓

BRUNING 40-522 15840
DEC FORM NO
DRD 102-B

FIRST USED ON OPTION/MODEL RK8-E	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN 9/27/72	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	CHK'D	DATE	TITLE	
ANGLES	ENG.	DATE	MAJOR STATES TIMING & FLOW	
XXX = .005 XX = .02 X = .1	PROJ. ENG.	DATE	SIZE CODE	
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY	PROD.	DATE	NUMBER	
MATERIAL	NEXT HIGHER ASSY.	REV.		
FINISH	E-11-RK8-E	D TD RK8-E-2		
SCALE		SHEET 1 OF 1		

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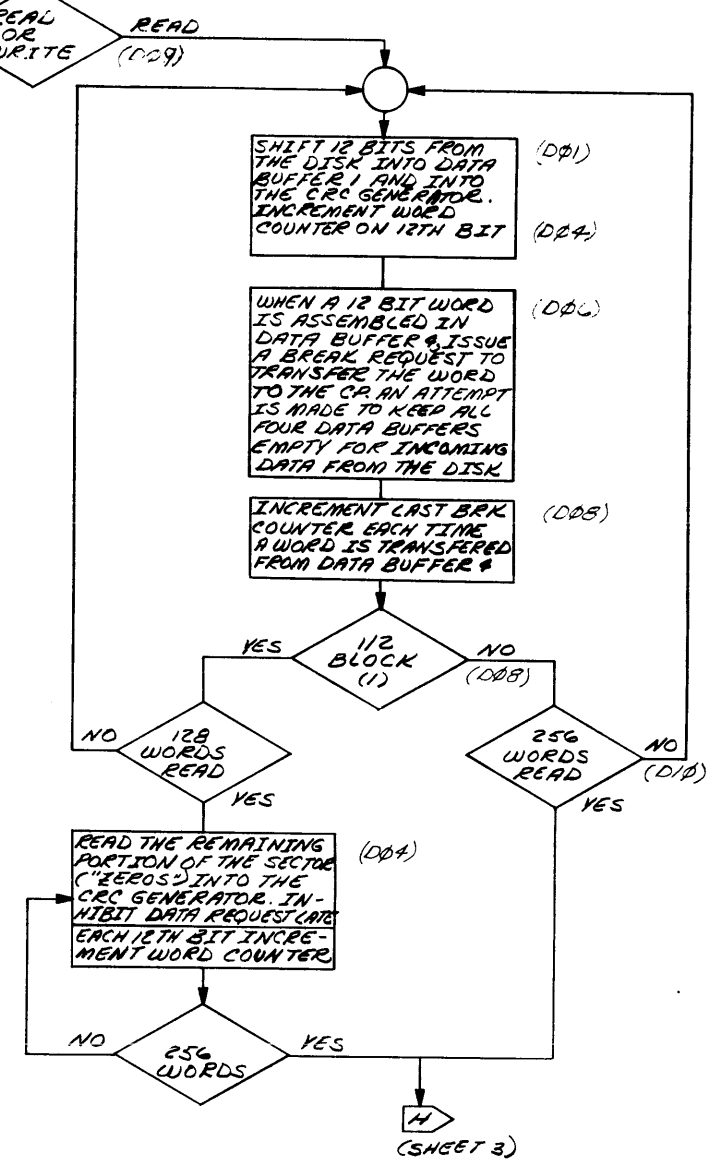
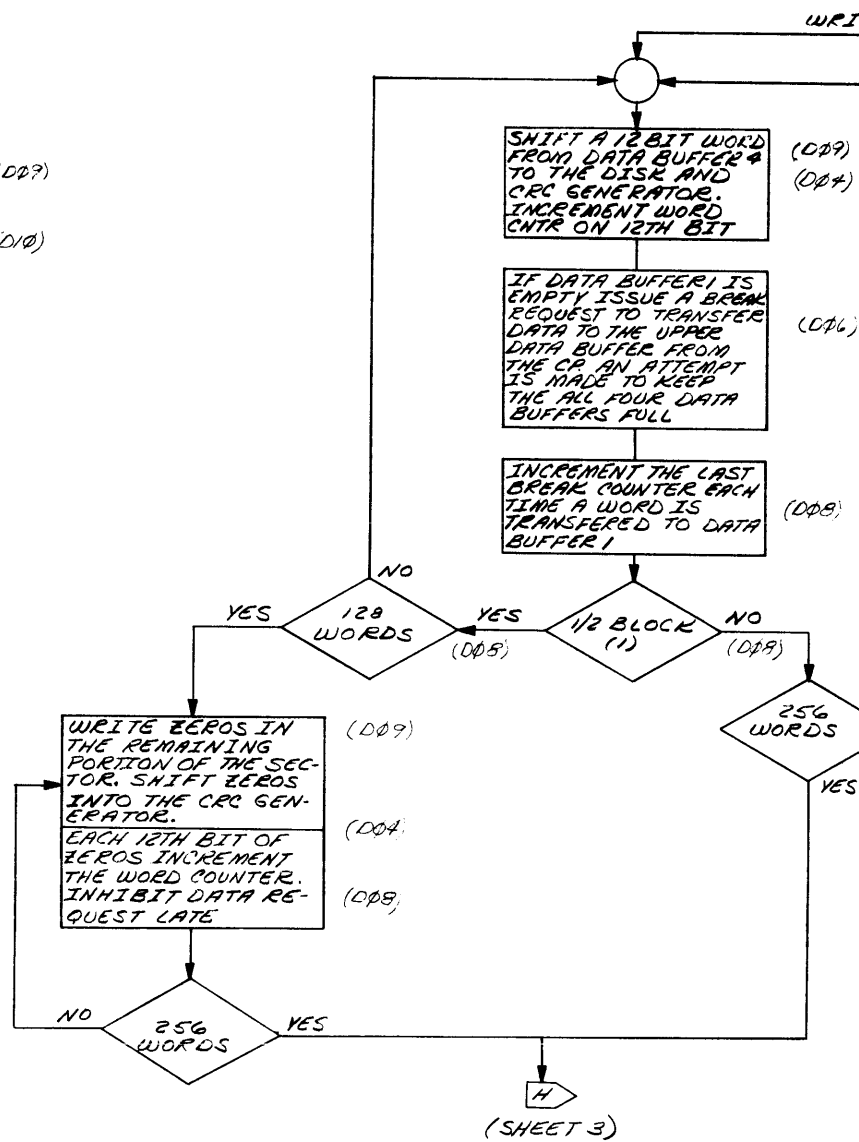
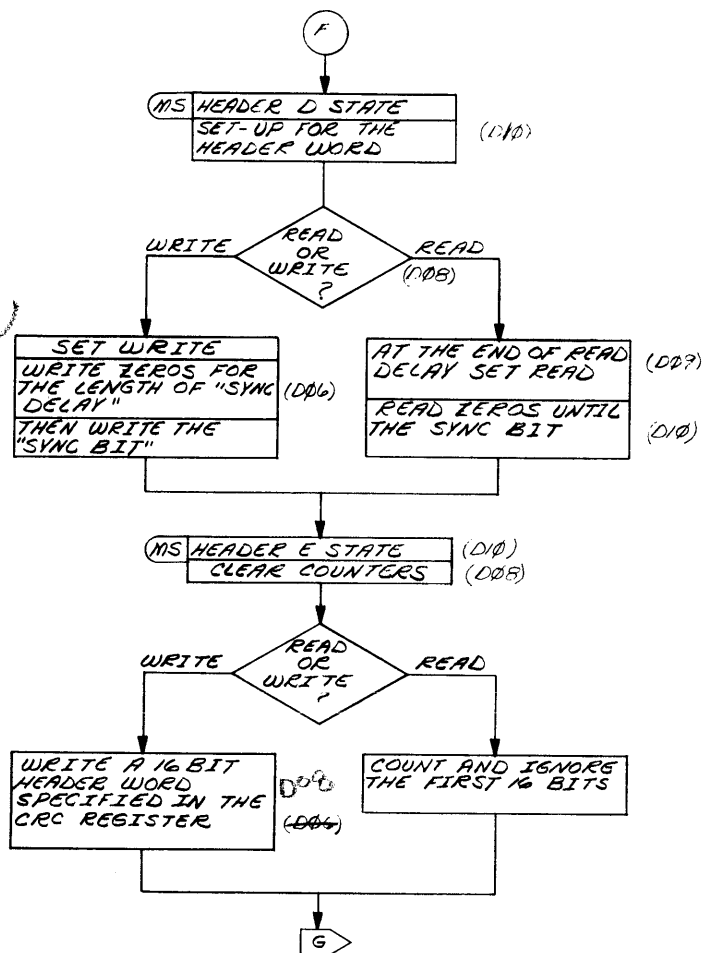


FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E			PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN. <i>advent</i>	DATE 7/29/72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
		CHK'D. <i>7/29</i>	DATE 8/2/72		
DECIMALS		ENG. <i>7/29</i>	DATE 10/8/72		
ANGLES		PROJ. ENG. <i>7/29</i>	DATE 10/6/72		
XXX - .005 XX - .02 X - .1		PROD. <i>7/29</i>	DATE 10/4/72	TITLE FLOW DIAGRAM (RK8-E)	
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY ✓					
MATERIAL		NEXT HIGHER ASSY.			
+ +		F. I. D. - RK8 - X		SIZE CODE	
FINISH		SCALE		NUMBER	
+ +		SHEET 1 OF 4		D. I. D. RK8 E 1	
				REV.	

REV.	CHG.	NO.
1	2	10

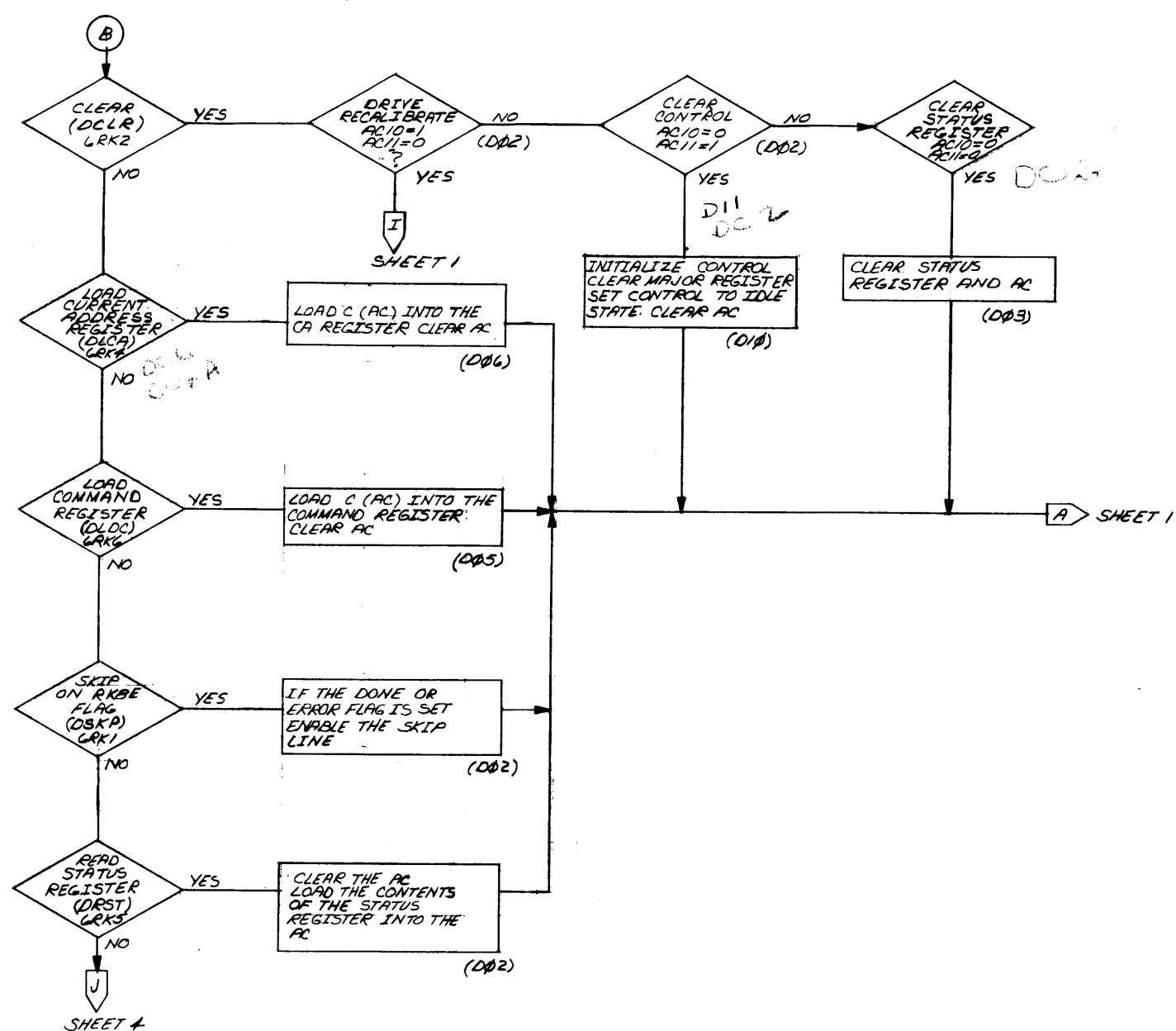
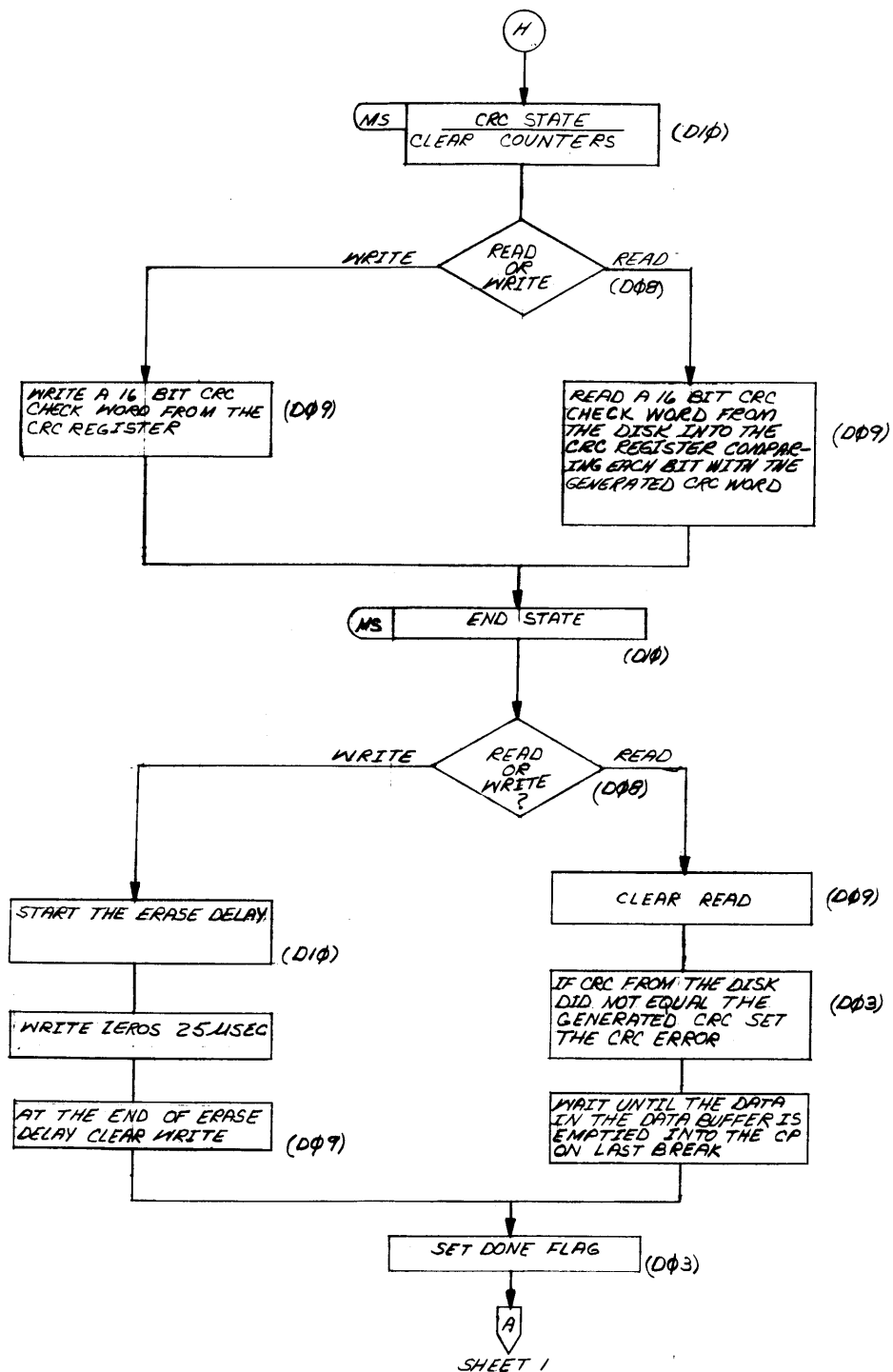
DEC 102-B

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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
1K2-L				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	CHK'D	DATE		
ANGLES	ENG	DATE		
XXX - .005 XX - .02 X - .1	PROJ. ENG.	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD.	DATE		
MATERIAL	NEXT HIGHER ASSY.		TITLE FLOW DIAGRAM (RK-E)	
FINISH	SCALE			
	SHEET 2 OF 4			
			SIZE CODE	NUMBER
			D F D	RK-E-1
			DIST.	REV

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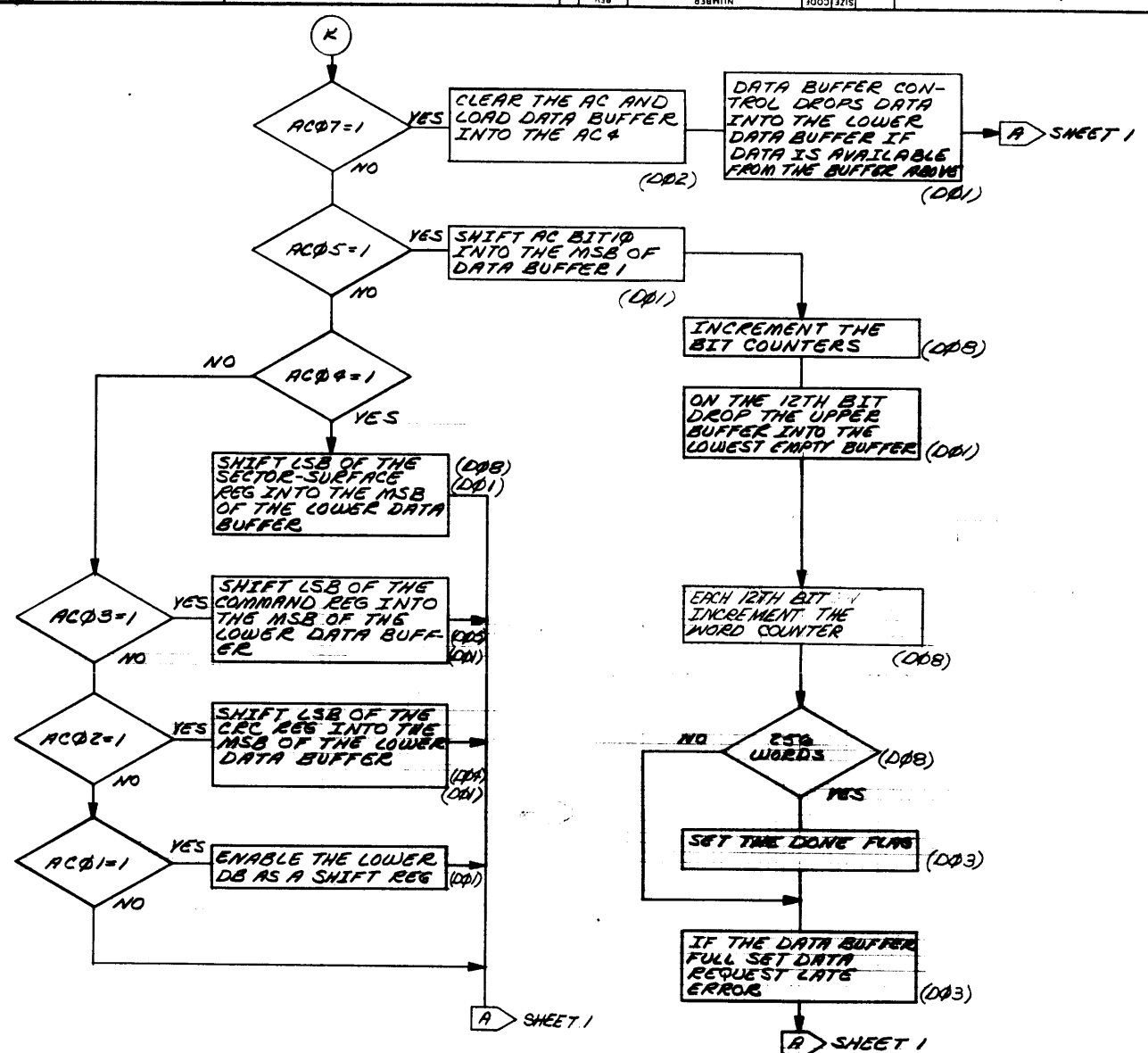
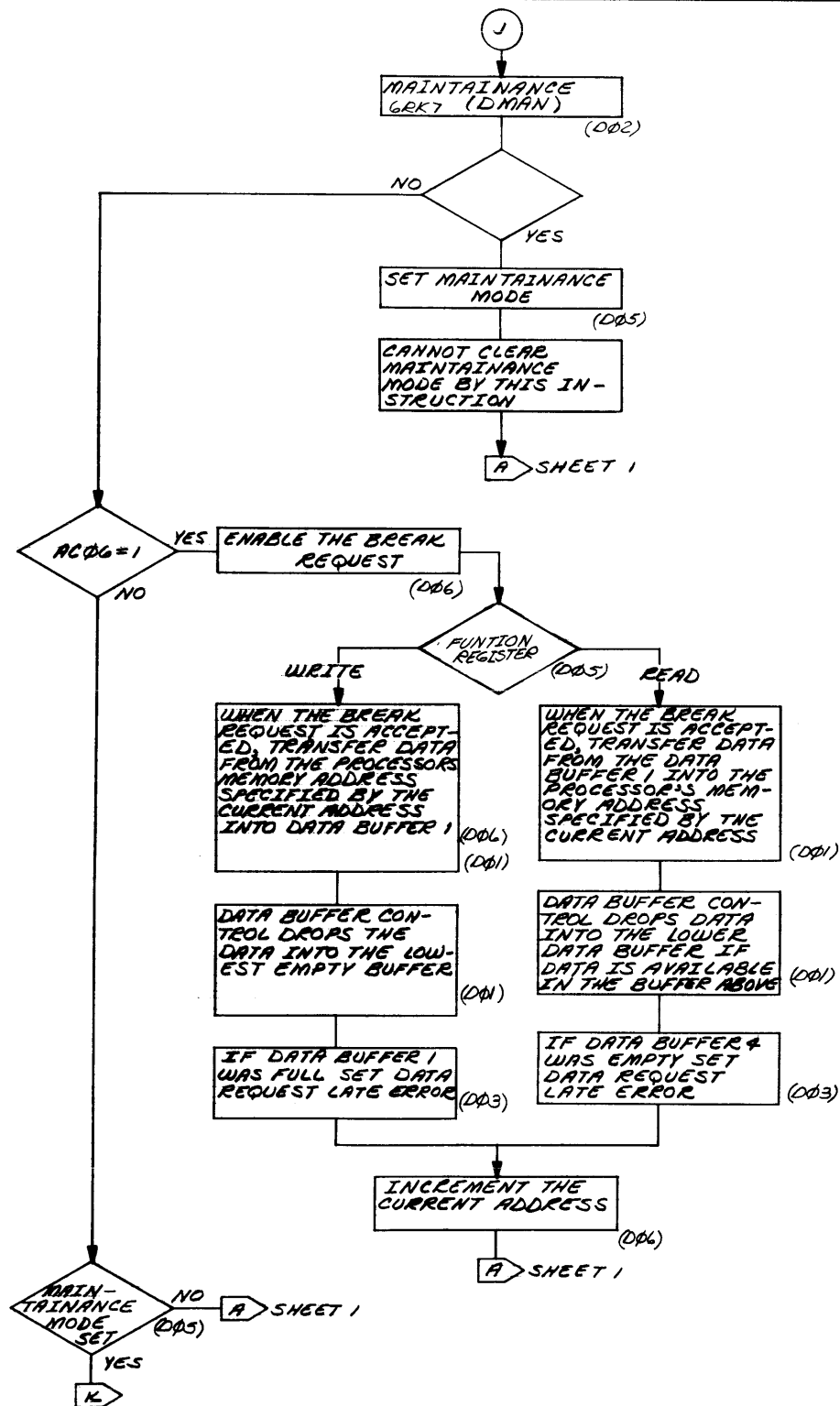


FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN. <i>M. Rove</i>	DATE 6/22/72	PARTS LIST digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS		CHK'D. <i>Ferguson</i>	DATE 10-9-72		
ANGLES		ENG. <i>Shaw</i>	DATE 6/17/72	TITLE FLOW DIAGRAM (RK8-E)	
.XXX = .005		PROJ. ENG. <i>Shaw</i>	DATE 11/12/72		
.XX = .02		PROD. <i>Shaw</i>	DATE 11/22/72	SIZE CODE B-DD-RK8-Ø	
.X = .1					
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				NUMBER D F D RK8-E-1	
MATERIAL					
FINISH				REV.	
				SHEET 3 OF 4	
				DIST.	

BRUNING 40-522 15840
DEC FORM NO
DRD 102-B

REVISIONS
1.00
2/1/72
10X 8/12/72

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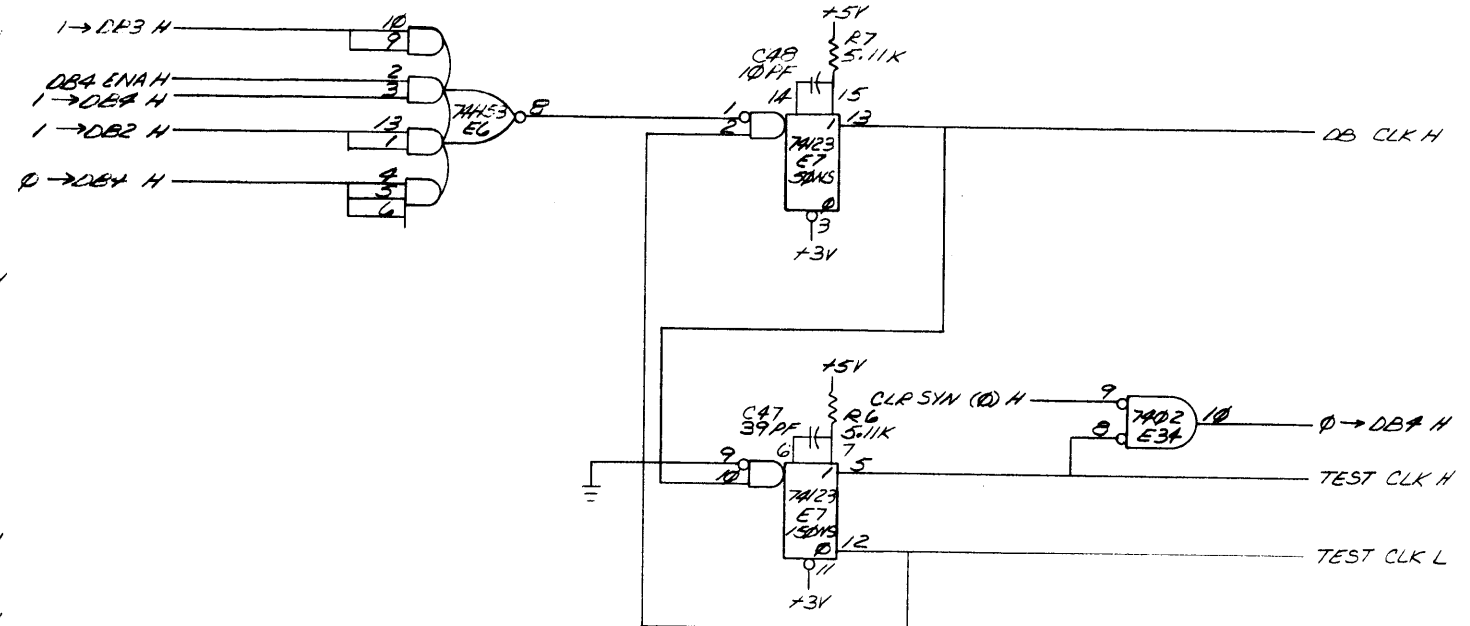
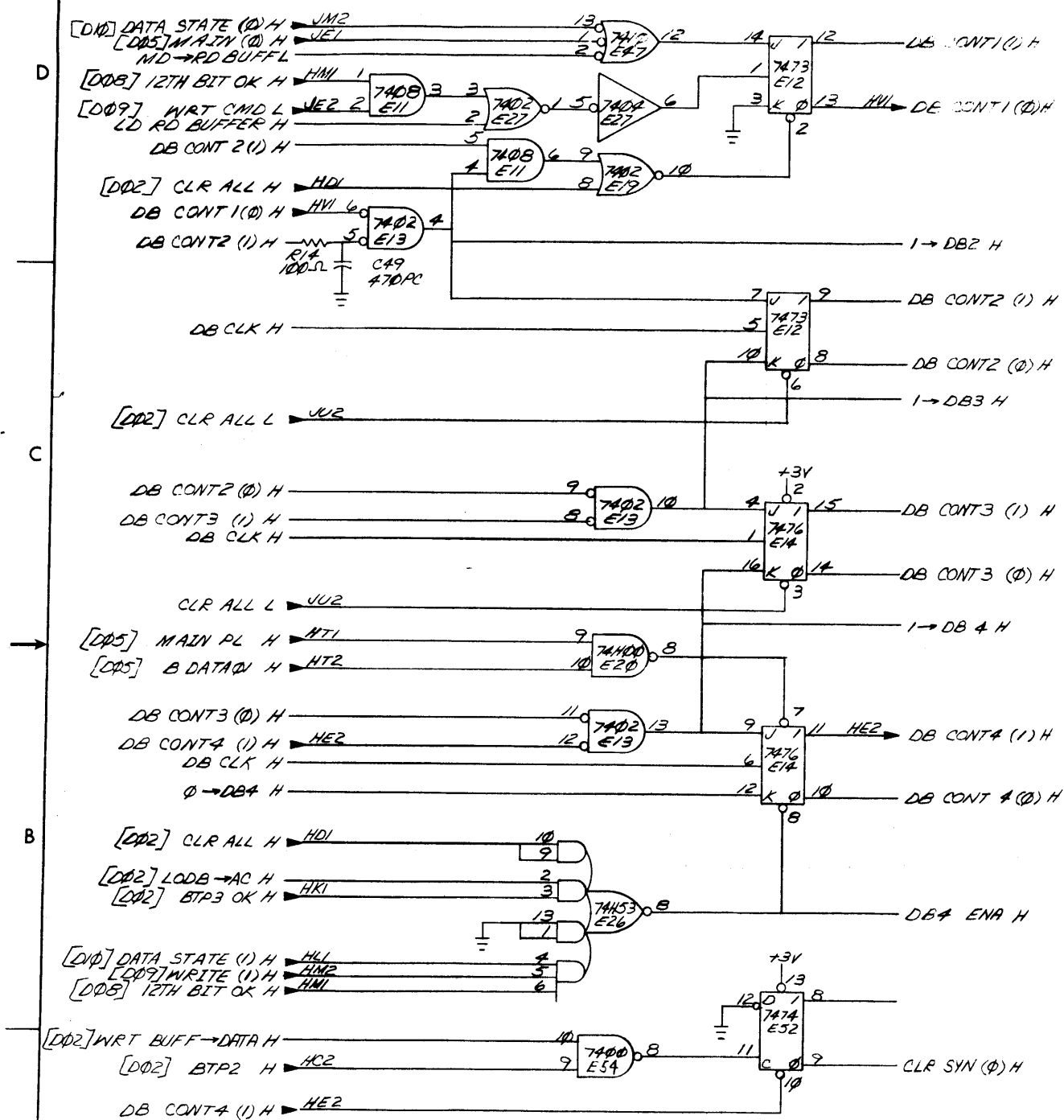


BRUING 40-522 15840
DEC FORM NO
DRD 102-B

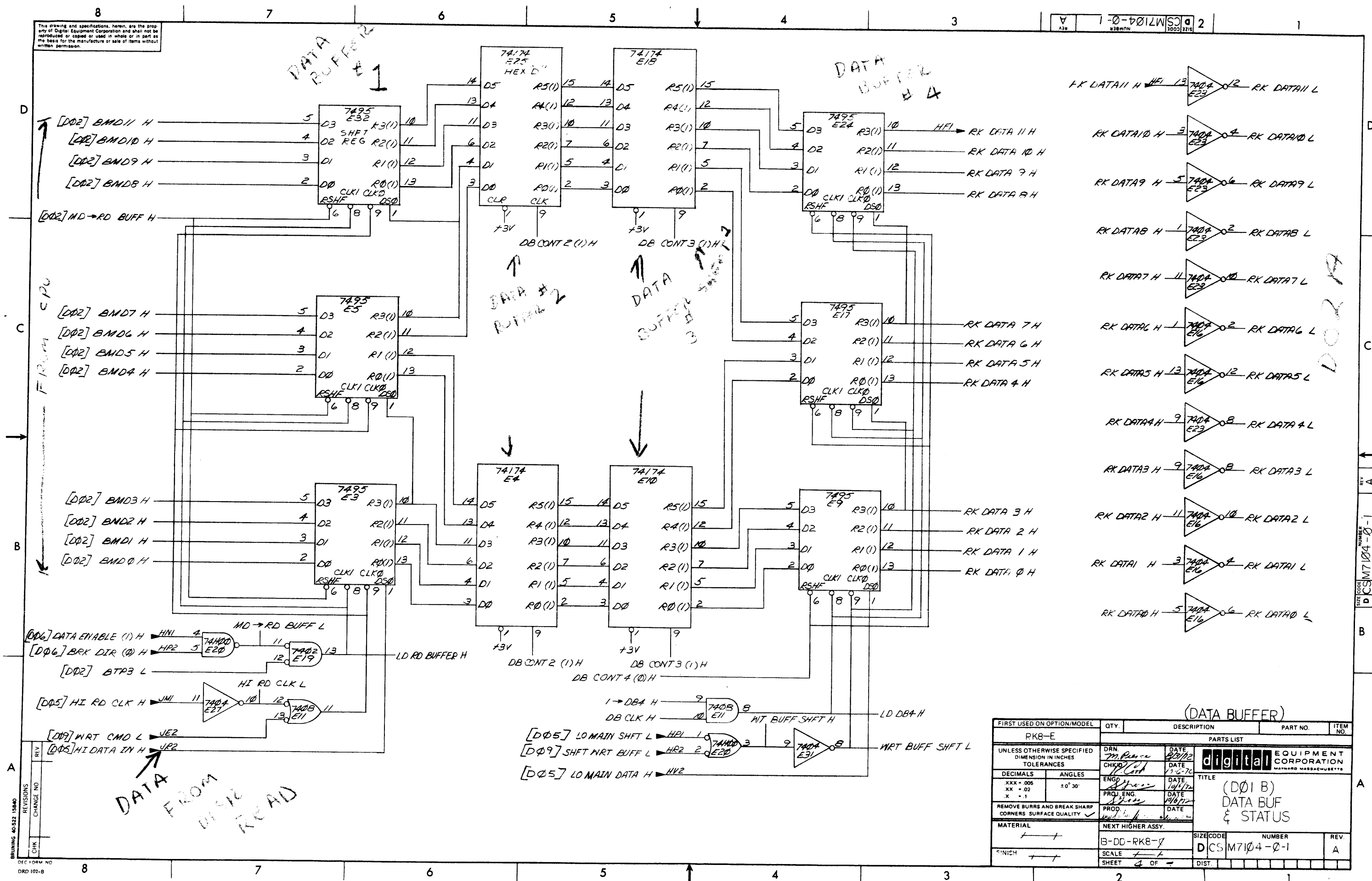
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN. <i>RK8-E</i>	DATE 7-17-72	PARTS LIST	
DECIMALS .XXX = .005		CHKD. <i>W. G. W.</i>	DATE 10-9-72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
ANGLES ±0° 30'		ENG. <i>W. G. W.</i>	DATE 10/6/72	TITLE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD. <i>W. G. W.</i>	DATE 10/6/72	FLOW DIAGRAM (RK8-E)	
MATERIAL	FINISH	NEXT HIGHER ASSY.		SIZE CODE	NUMBER
++	++	B-DD-RK8-0		D	FD RK8-E-1
SCALE		SHEET 4 OF 4		DIST.	REV.

1

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV	B			
		DRN. <i>akbnt</i>	DATE <i>7/4/72</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE DATA BUFFER & STATUS
		CHK'D <i>ELG</i>	DATE <i>10-6-72</i>	
		ENG. <i>ELG</i>	DATE <i>10/6/72</i>	
		PROJ. ENG. <i>ELG</i>	DATE <i>10/6/72</i>	
		PROD. <i>ELG</i>	DATE <i>10/6/72</i>	
		NEXT HIGHER ASSY		
		5-DD-RKE-Ø		
DEC. NO.	EIA NO.	SCALE <i>NONE</i>	SIZE CODE	NUMBER
CONVERSION CHART		SHEET 2 OF 2	D	CS1M7104-0-1
			DIST	REV. A

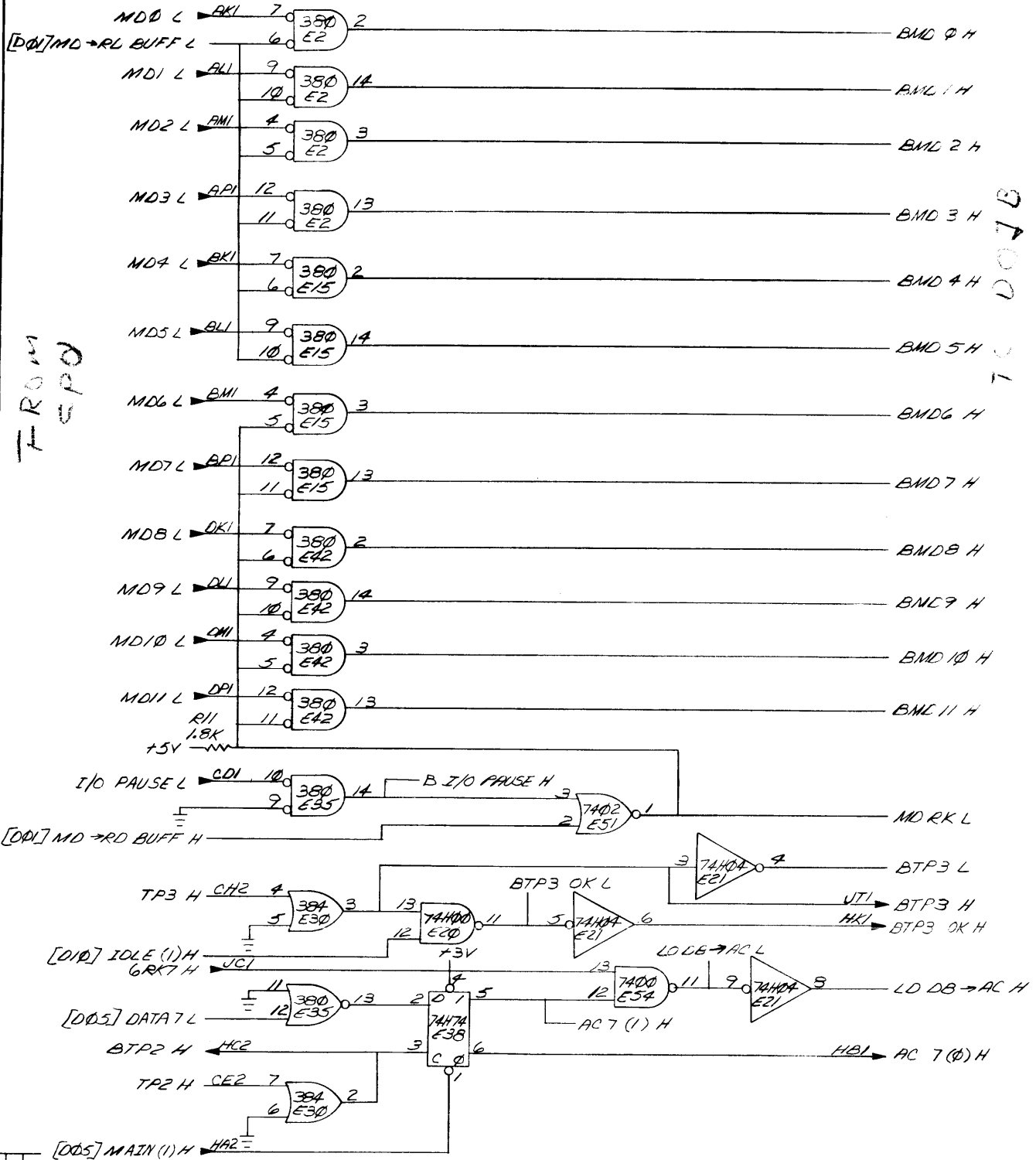


FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E			PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN 10-10-00	DATE 10-10-00	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS TITLE (D01A) DATA BUF & STATUS	
DECIMALS	ANGLES	CHK'D 10-10-00	DATE 10-10-00		
XXX - 005	± 0° 30'	ENG. 10-10-00	DATE 10-10-00		
X - 02		PROJ. ENG. 10-10-00	DATE 10-10-00		
X - +1		PROD. 10-10-00	DATE 10-10-00		
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY ✓		NEXT HIGHER ASSY.			
MATERIAL + +		B-DD-RK8-0		SIZE CODE	NUMBER
FINISH + +		SCALE 3 OF 1		REV. A	
		SHEET		D/C S/M/104-0-1	
		DIS.			



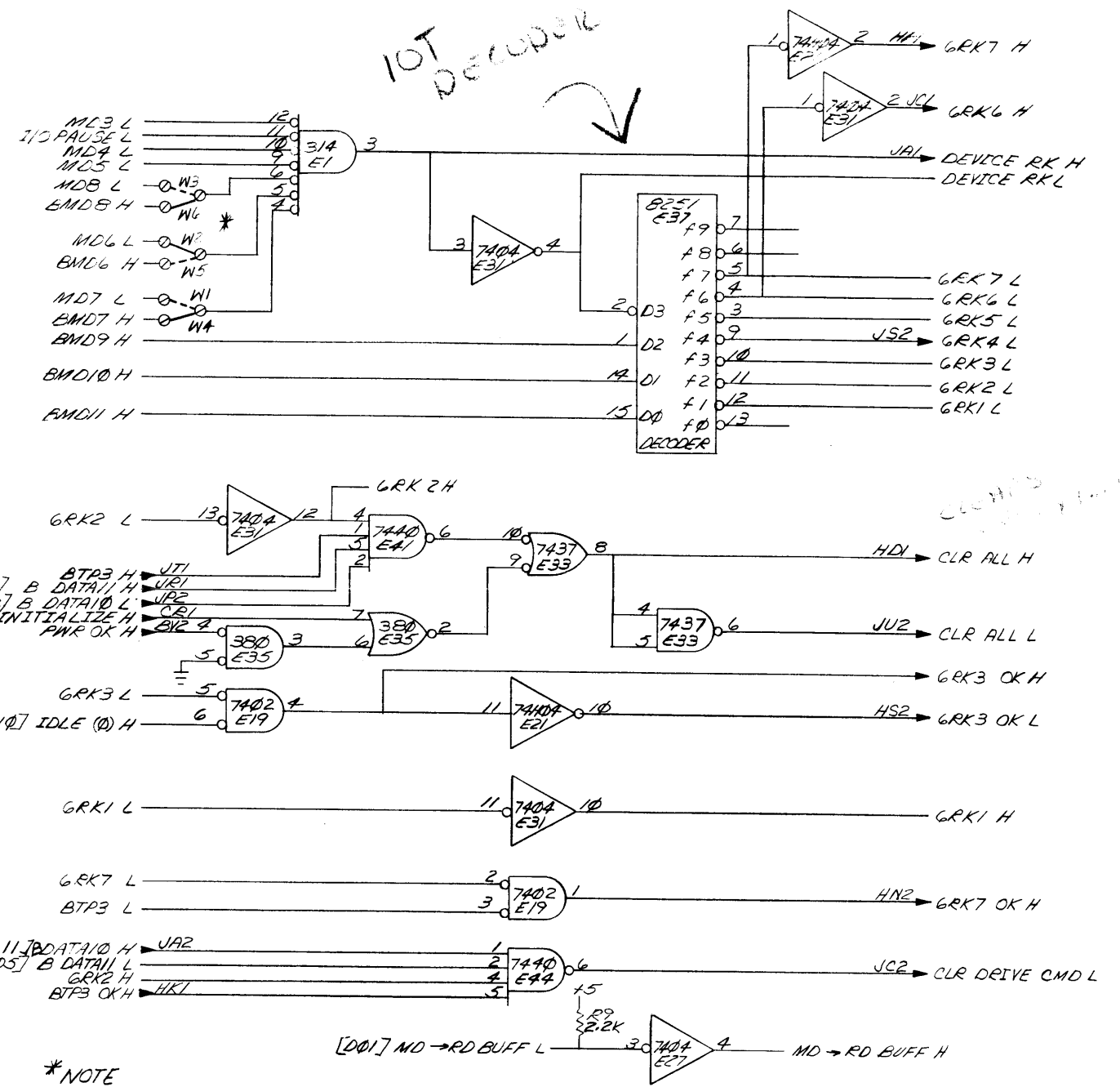
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E			PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN <i>M. Rouse</i>	DATE <i>2/21/72</i>	 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS ANGLES		CHKD <i>W. Cost</i>	DATE <i>1-26-72</i>		
XXX ± .005	± 0° 30'	ENGR <i>Strover</i>	DATE <i>10/6/72</i>		
XX ± .02		PROJ. ENG.	DATE <i>10/6/72</i>		
X ± .1		PROD. <i>W. Cost</i>	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY ☒		NEXT HIGHER ASSY.			TITLE (DØI B) DATA BUF & STATUS
MATERIAL <i>+ +</i>		B-DD-RK8-7			
FINISH <i>+ +</i>		SCALE <i>1" = 1"</i>			
		SHEET 4 OF 4	DIST.	SIZE CODE DICS	NUMBER M7104-0-1

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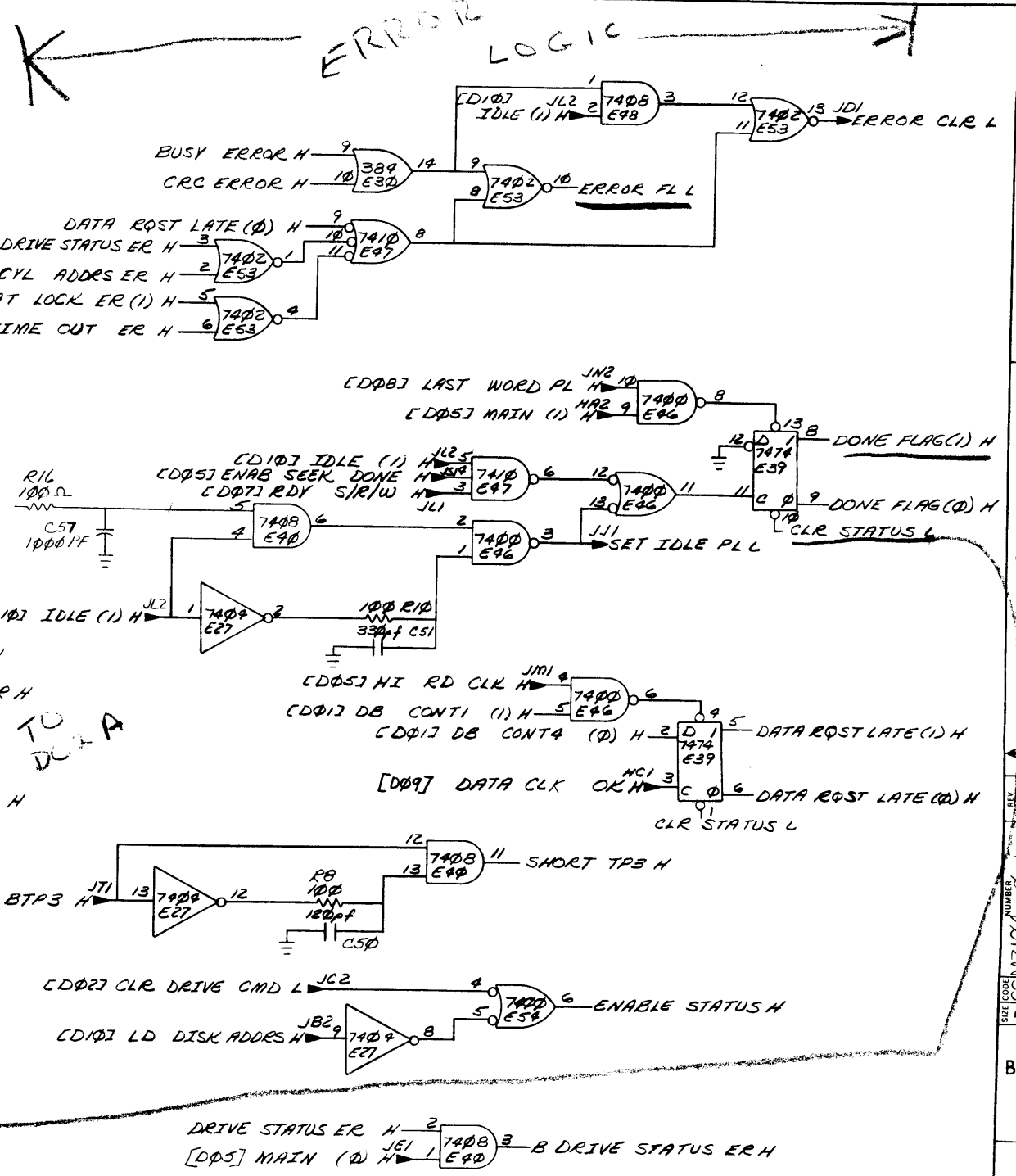
FROM CPU

REV	CHANGE NO	REVISIONS
1		

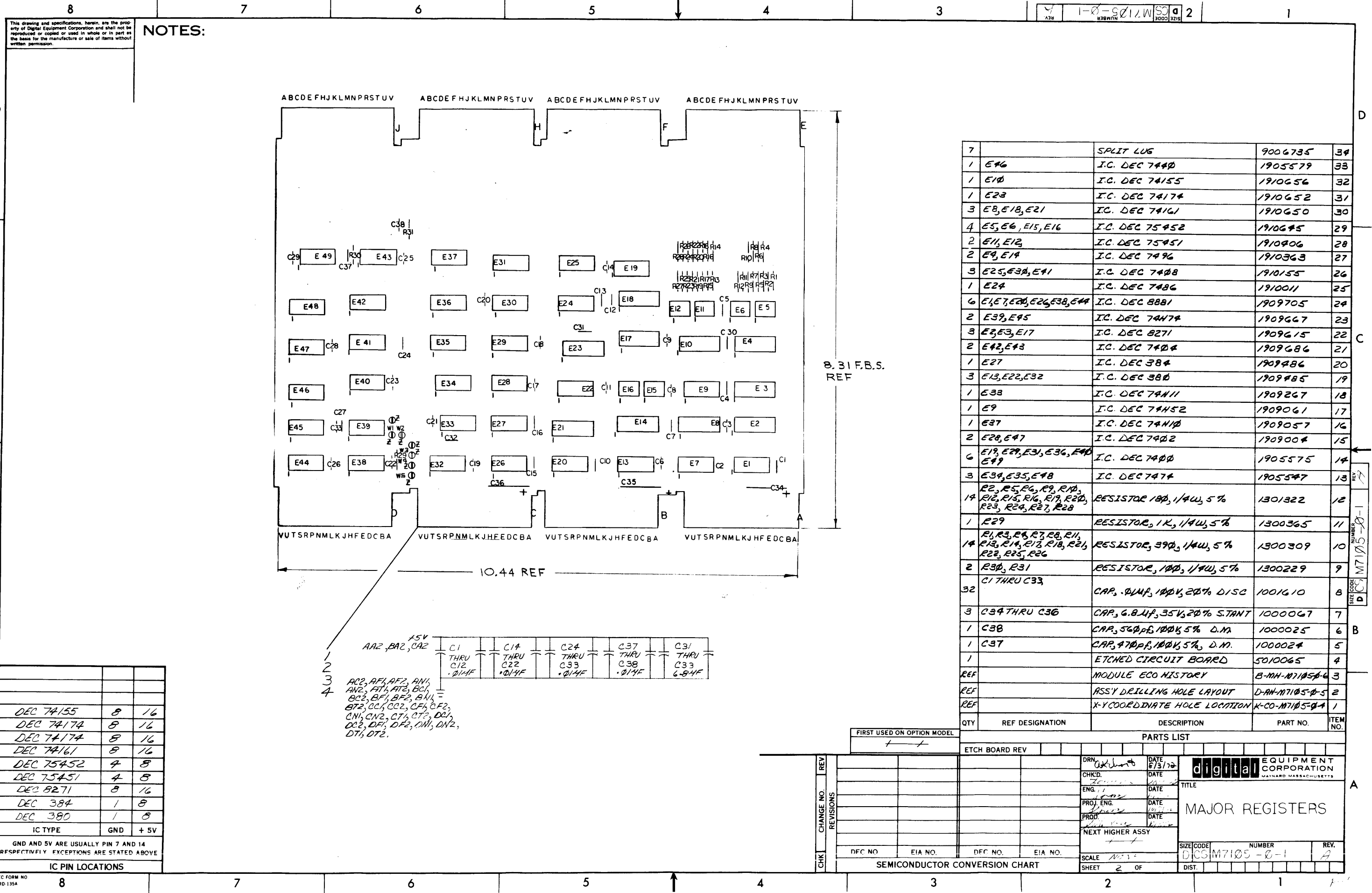


* NOTE
IOT 674X AS SHOWN
VALID IOT'S ARE
674X
675X
676X
677X

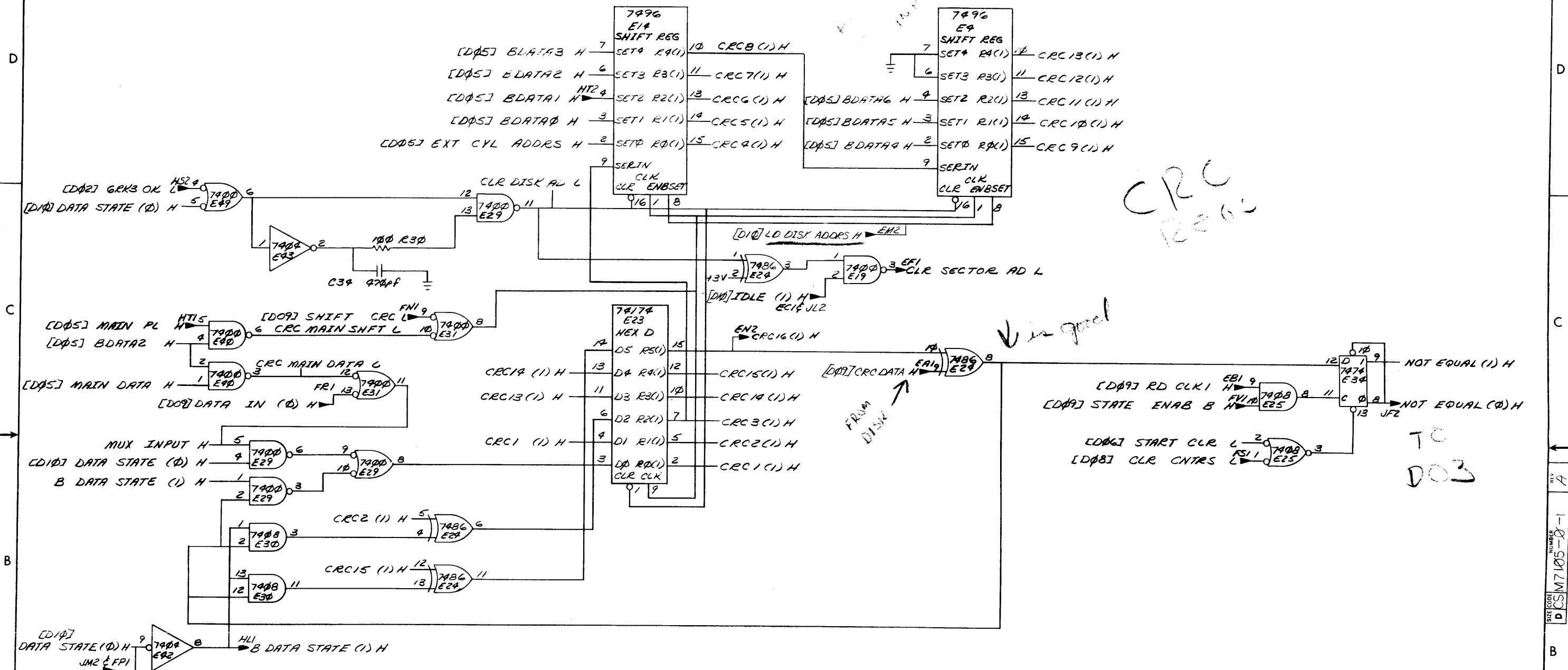
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN CHK'D	DATE DATE	PARTS LIST	
DECIMALS .XXX = .005 .XX = .02 .X = .1	ANGLES ±0° 30'	ENG PROJ. ENG.	DATE DATE	TITLE (D02 B) DATA ELF & STATUS	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD NEXT HIGHER ASSY.	DATE	SIZE CODE NUMBER REV	
MATERIAL FINISH		B-DD-RK8-0	SCALE	D C S M 7104-0-1	
SHEET 6 OF 1		DIST.			



(STATUS REGISTER ERROR DETECT)			
FIRST USED ON OPTION/MODEL		QTY	DESCRIPTION
RK8-E			PART NO.
		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN	DATE
		CHK'D	DATE
DECIMALS	ANGLES	ENG.	DATE
xxx + .006	±0° 30'	PROJ. ENG.	DATE
xx + .02		PROD.	DATE
x + .1			DATE
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		NEXT HIGHER ASSY.	
MATERIAL		SIZE CODE	
FINISH		NUMBER	
		REV	
		A	
		DISC M7104-01	
		DISC	



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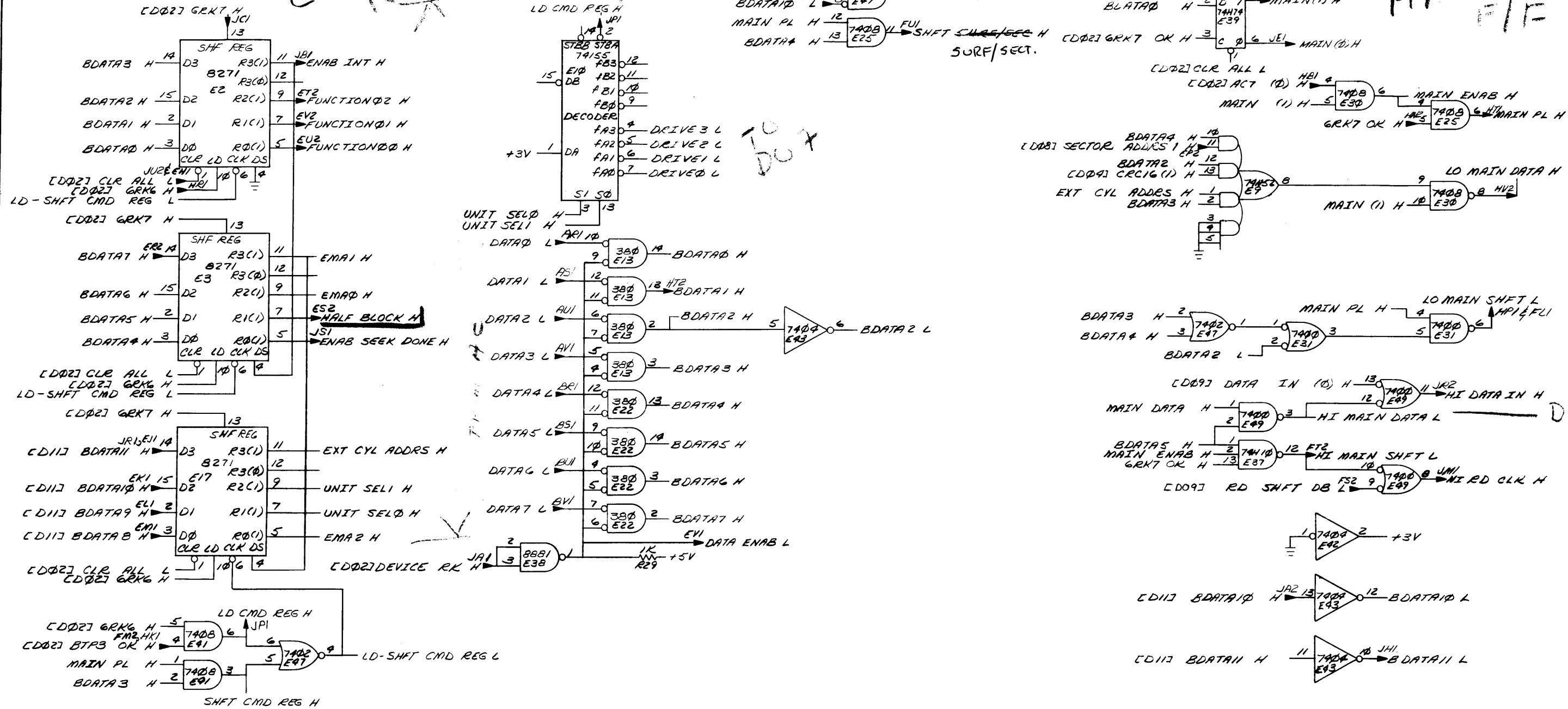
(CRC/DISK ADDRESS REG)

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES.		DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
TOLERANCES		CHK'D	DATE		
DECIMALS	ANGLES	ENG.	DATE		
XXX = .005	± 0° 30'	PROJ. ENG.	DATE		
.XX = .02		PROD.	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				TITLE (D04) MAJOR REGISTERS	
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH		D-UA-RK8-E-0		D CS M7105-0-1	REV. A
		SCALE			
		SHEET 3 OF			

BRUNING 40-522 15840
DEC FORM NO DRD 102-B

REV	REV
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
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19	19
20	20
21	21
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98	98
99	99
100	100

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(COMMAND REG. MAINT. LOGIC)

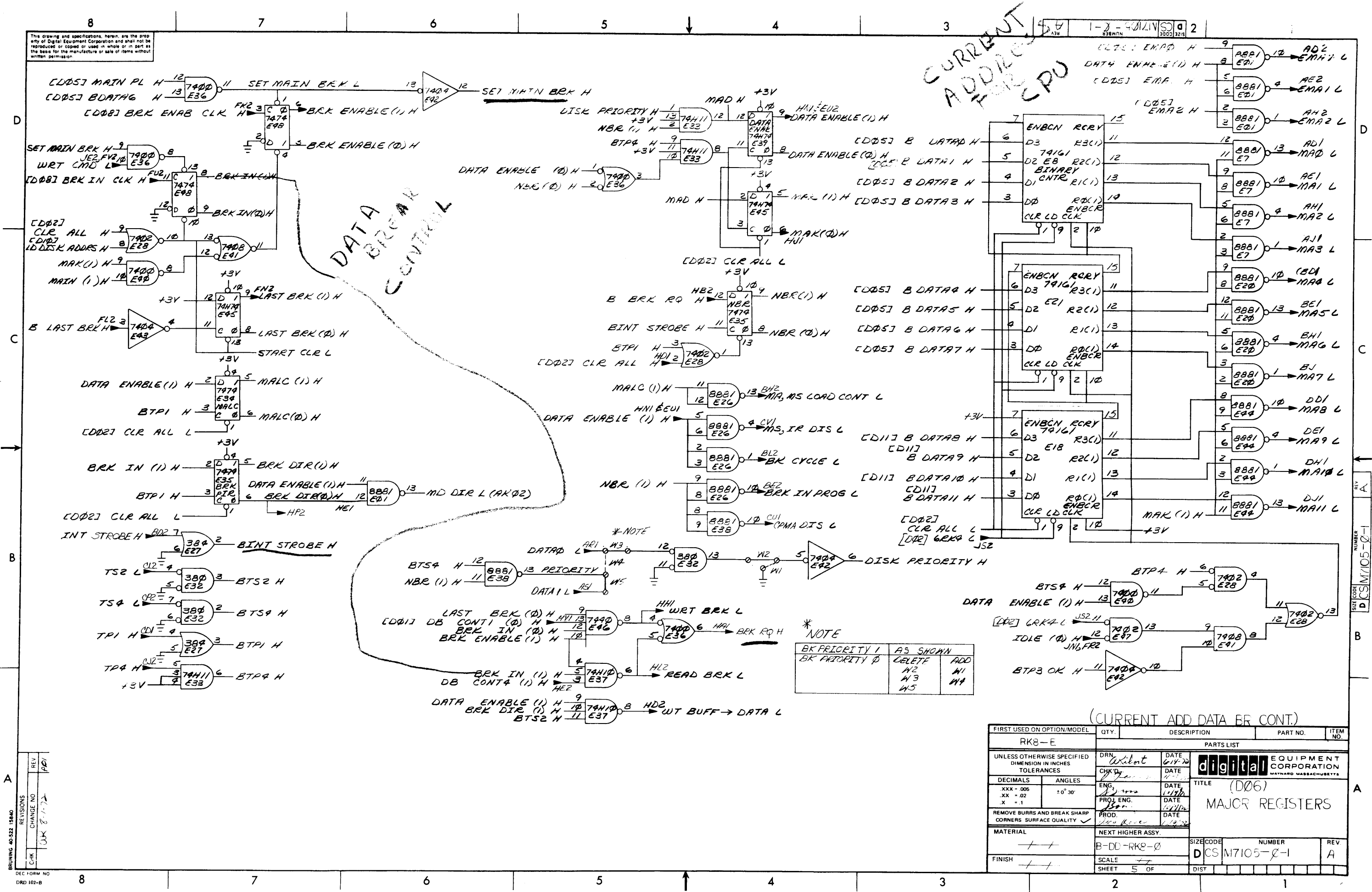
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN. <i>axibot</i>	DATE <i>6/13/71</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
		CHK'D.	DATE <i>7/1/71</i>		
		ENG. <i>axibot</i>	DATE <i>10/29/71</i>		
		PROJ. ENG. <i>axibot</i>	DATE <i>11/9/71</i>		
DECIMALS		ANGLES		TITLE (D05) MAJOR REGISTER	
XXX - .005		+0° 30'			
XX - .02					
X - .1					
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROD. <i>axibot</i>	DATE <i>11/16/71</i>		
MATERIAL		NEXT HIGHER ASSY.			
<i>+</i> <i>+</i>		B-DD-RK8-0		SIZE CODE	NUMBER
				D	CS M7105-0-1
FINISH		SCALE <i>+</i>		REV.	A
<i>+</i> <i>+</i>		SHEET 4 OF 6		DIST.	

BRUNING 40-522 19840

REV.	CHANGE NO.	DATE
1	1	5-7-72

DEF. FORM NO. DRD 102-B

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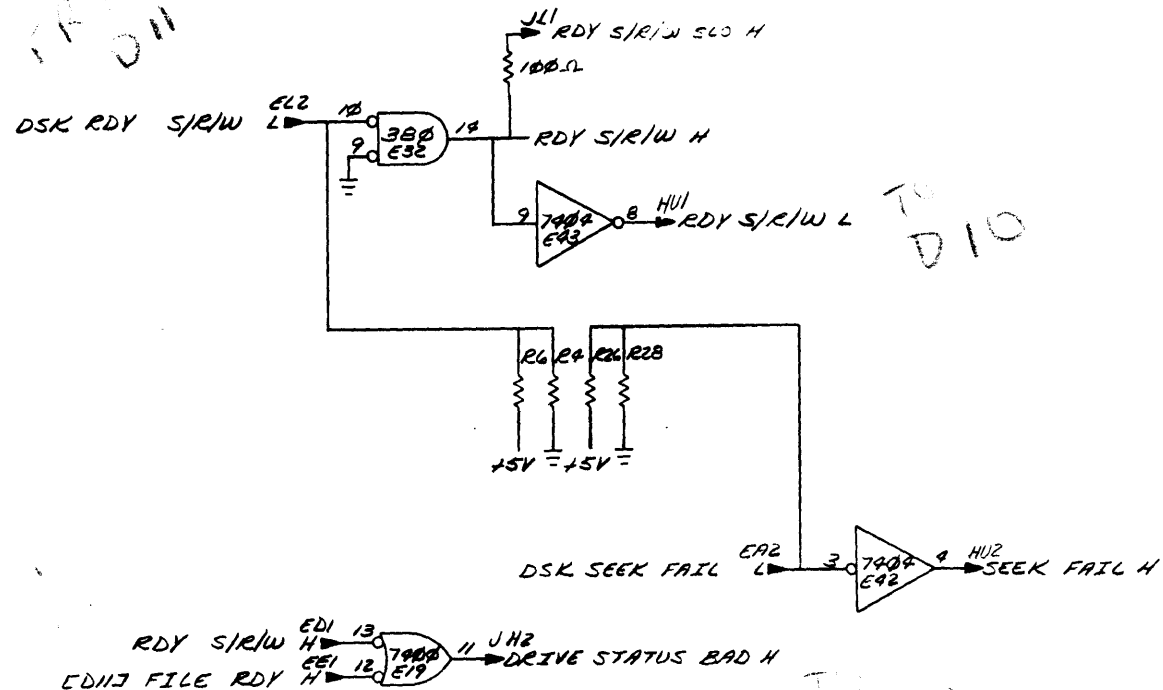


REV	NO	DATE
1	1	8-1-72
2	2	8-1-72
3	3	8-1-72
4	4	8-1-72
5	5	8-1-72
6	6	8-1-72
7	7	8-1-72
8	8	8-1-72
9	9	8-1-72
10	10	8-1-72
11	11	8-1-72
12	12	8-1-72
13	13	8-1-72
14	14	8-1-72
15	15	8-1-72
16	16	8-1-72
17	17	8-1-72
18	18	8-1-72
19	19	8-1-72
20	20	8-1-72

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN	DATE	PARTS LIST	
DECIMALS	CHK'D	DATE	digital EQUIPMENT CORPORATION	
ANGLES	ENG.	DATE	MAYNARD MASSACHUSETTS	
XXX - .005	PROJ. ENG.	DATE	TITLE (D06)	
XX - .02	PROD.	DATE	MAJOR REGISTERS	
X - .1		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.			
MATERIAL	B-DD-RK8-0	SIZE CODE	NUMBER	REV.
FINISH	SCALE	D	CSM7105-0-1	A
	SHEET 5 OF	DIST		

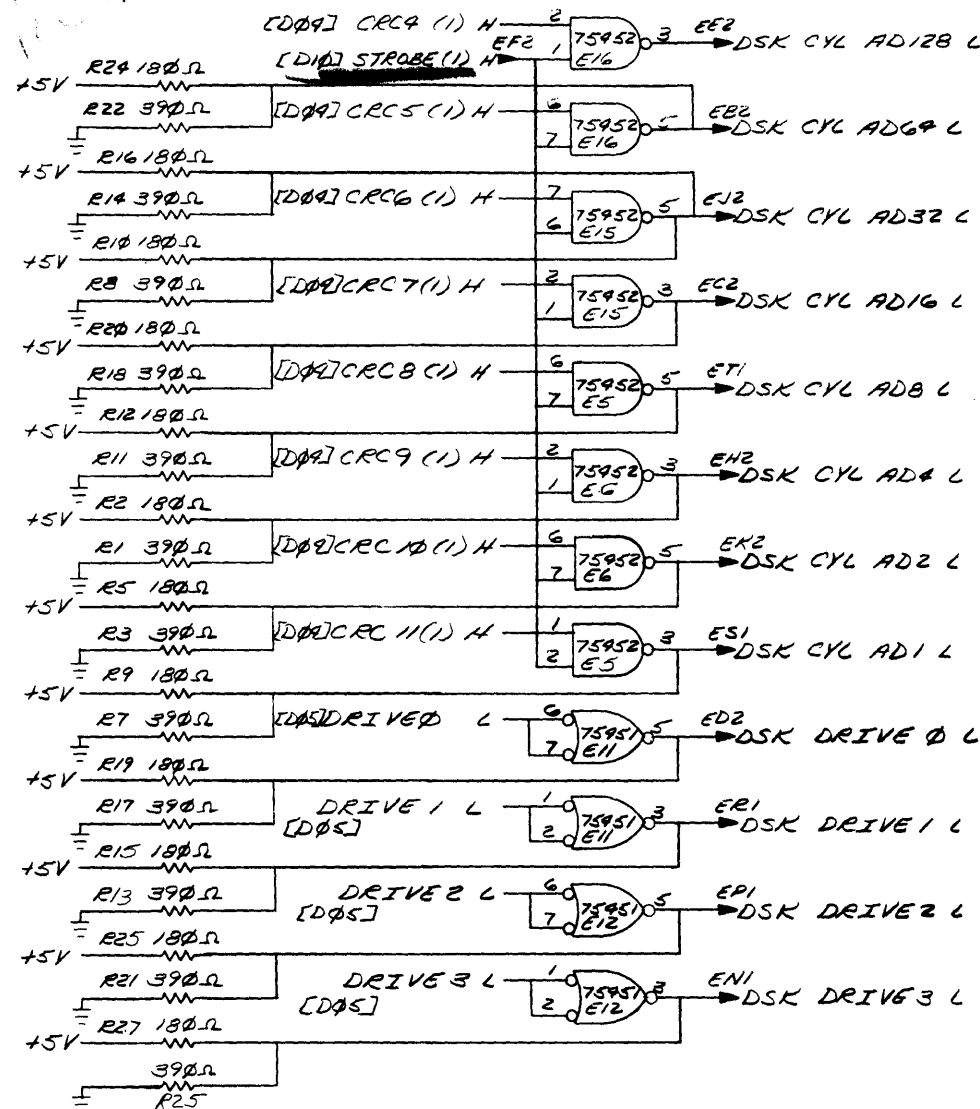
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TRANS
DIO



TO
DIO

INPUTS
FILE
CYLINDER
DRIVE



(DRIVE SIGNALS CABLE J1)

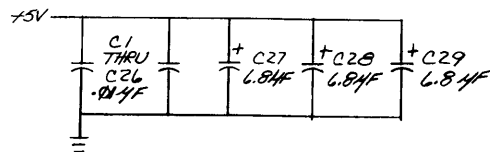
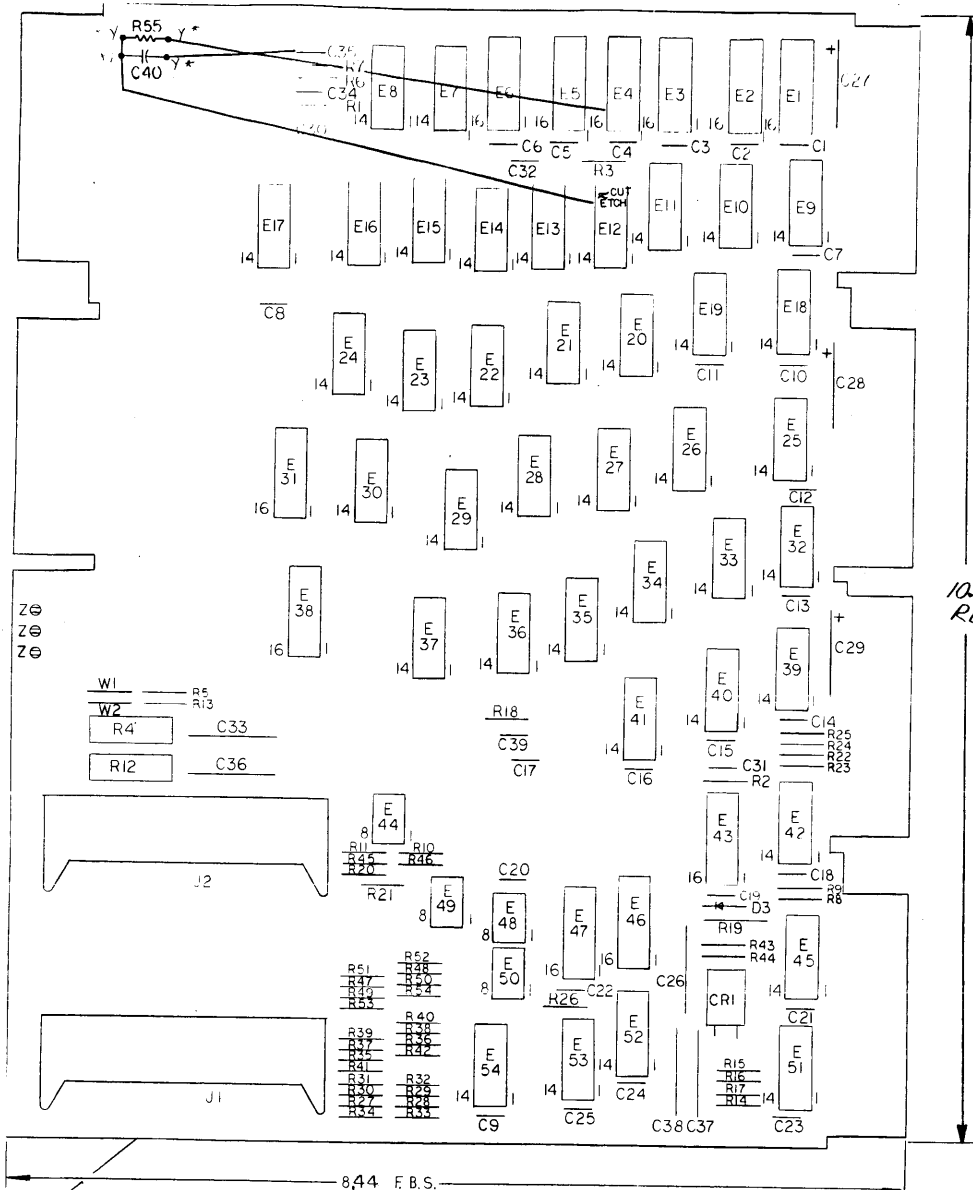
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN AK CHK'D ENG PROJ. ENG. PROD.	DATE 6-1-72 DATE DATE DATE DATE	PARTS LIST	
DECIMALS		ANGLES	±0° 30'	TITLE	
XXX - 005				(D07)	
XX - 02				MAJOR REGISTERS	
X - 1					
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY					
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE	NUMBER
++		B-DI-RK8-E		D	CSM7105-0-1
FINISH		SCALE	6 OF	DIST	REV
++					A

BRUNING 40522 15840
REV
CHANGE NO
OK 3-1-72
PDI

DEC FORM NO
DRD 102-B

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NOTES:



REF			
1	C40	CAPACITOR 470 PF, 100V, 5%	1000024
AR		#30 AWG WIRE, SOLID GREEN	9105740-55
4		GRIPPLETS	1210244-0
AR	W1, W2	INSULATED JUMPER	9009185
2	J1, J2	CONN. 40 RT ANGLE	1209941
1	E31	I.C. TYPE 74155	1910656
2	E38, E43	I.C. TYPE 74123	1910436

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	E46	I.C. TYPE 7496	1910363	41
1	E47	I.C. TYPE 7485	1910224	40
9	E15, E18 THRU E22, E24, E37, E41	I.C. TYPE 7474	1905547	39
1	E28	I.C. TYPE 74H52	1909061	38
1	E10	I.C. TYPE 74H10	1909057	37
2	E34, E39	I.C. TYPE 7410	1905576	36
2	E16, E32	I.C. TYPE 7408	1910155	35
5	E42, E51 THRU E54	I.C. TYPE 380	1909485	34
2	E11, E7	I.C. TYPE 74H04	1909931	33
3	E8, E35, E36	I.C. TYPE 7404	1909486	32
6	E13, E23, E26, E28, E30, E40	I.C. TYPE 7402	1909004	31
8	E8, E12, E13, E17, E25, E27, E33, E45	I.C. TYPE 7400	1905575	30
6	E1 THRU E6	I.C. TYPE 74161	1910650	29
4	E44, E48 THRU E50	I.C. TYPE 75452	1910645	28
1	CE1	CRYSTAL, 2.88 MHZ	1810694-3	27
2	R1, R12	POTENTIOMETER, 10K, 10%, 3/4W, 76AC	1309143-10	26
1	R19	RESISTOR, 24.3K, 1%, 1/8W, MF	1309418	25
6	R6, R3, R6, R7, R18, R55	RESISTOR, 100K, 5%, 1/4W, CC	1300229	24
1	R13	RESISTOR, 20K, 5%, 1/4W, CC	1302391	23
3	R5, R15, R17	RESISTOR, 10K, 5%, 1/4W, CC	1300479	22
1	R2	RESISTOR, 56K, 5%, 1/4W, CC	1301874	21
1	R44	RESISTOR, 3K, 5%, 1/4W, CC	1300432	20
4	R8, R9, R26, R43	RESISTOR, 1K, 5%, 1/4W, CC	1300365	19
2	R14, R16	RESISTOR, 470K, 5%, 1/4W, CC	1300316	18
17	R11, R20, R23, R25, R27, R30, R34, R35, R38, R39, R41, R45, R47, R48, R51, R53	RESISTOR, 370K, 5%, 1/4W, CC	1300309	17
17	R10, R21, R22, R24, R28, R29, R32, R33, R36, R38, R40, R42, R46, R48, R50, R52, R54	RESISTOR, 180K, 5%, 1/4W, CC	1301322	16
1	D3	DIODE 6664	1100114	15
2	C33, C36	CAPACITOR, 0.022UF, 100V, 10% NYLON	1002323	14
3	C37, C38, C26	CAPACITOR, 470PF, 100V, 1%, NYLON	1009312	13
1	C31	CAPACITOR, 100PF, 100V, 5%, DM	1000006	12
1	C32	CAPACITOR, 820PF, 100V, 5%, DM	1000027	11
2	C34, C39	CAPACITOR, 560PF, 100V, 5%, DM	1000025	10
1	C35	CAPACITOR, 330PF, 100V, 5%, DM	1000023	9
1	C30	CAPACITOR, 180PF, 100V, 5%, DM	1000020	8
3	C27 THRU C29	CAPACITOR, 6.8UF, 35V, 20%, TANT	1000067	7
25	C1 THRU C25	CAPACITOR, 0.1UF, 100V, 20%, DISC	1001610	6
3	TP1 THRU TP3	SPLIT LUG	9006735	5
1		ETCHED CIRCUIT BOARD	5010066	4
REF		MODULE ECD HISTORY	B-MH-MTHG-0-1	3
REF		ASSY DRILLING HOLE LOCATION	D-MH-MTHG-0-5	2
REF		X-Y COORDINATE HOLE LOCATION	K-00-MTHG-0-4	1

DEC NO.	QTY	REV
DEC 380	1	8
DEC 7485	8	16
DEC 7496	5	12
DEC 74155	8	16
DEC 74161	8	16
IC TYPE	GND	+ 5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

BRUNING 40-522 10699

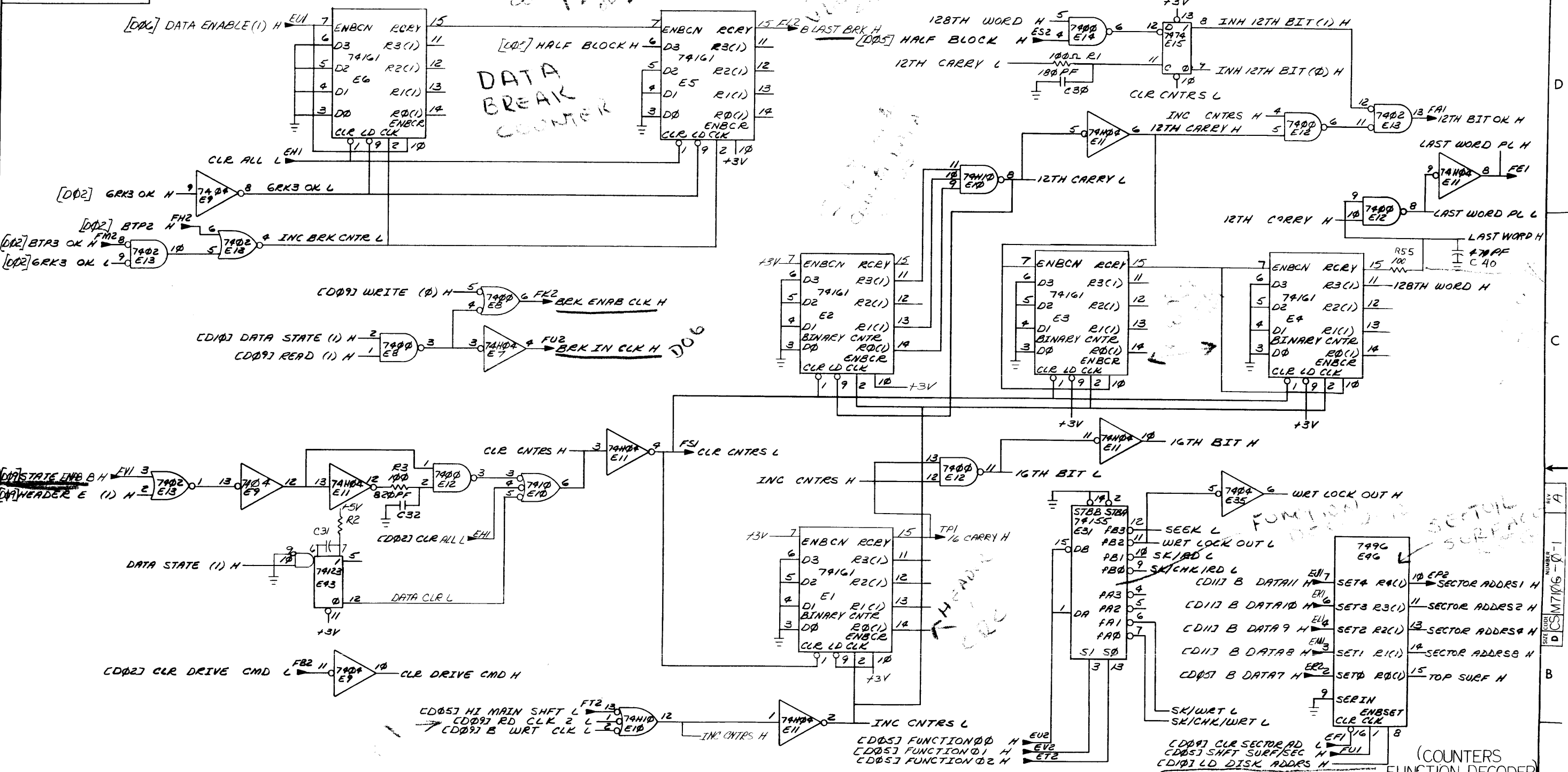
DEC FORM NO. DRD 135A

FIRST USED ON OPTION MODEL
RK8 - E

PARTS LIST			
ETCH BOARD REV	B		
DRN	00101	DATE	1/13/72
CHK'D		DATE	1/13/72
ENG.		DATE	1/13/72
PROJ. ENG.		DATE	1/13/72
PROD.		DATE	1/13/72
NEXT HIGHER ASSY D-UA-RK8-E-0			
DEC NO.	EIA NO.	DEC NO.	EIA NO.
SEMICONDUCTOR CONVERSION CHART			
SCALE	1/100	SHEET	2 OF 2
TITLE CONTROL, RK8-E			
SIZE CODE	D	NUMBER	M7106-0-1
DIST.		REV.	A

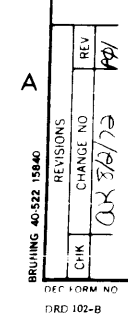
digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

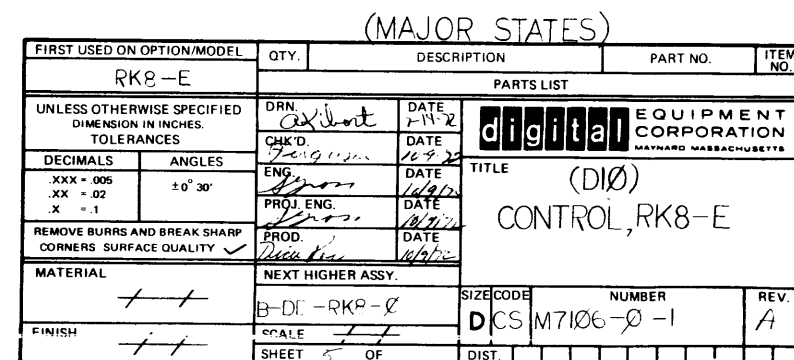
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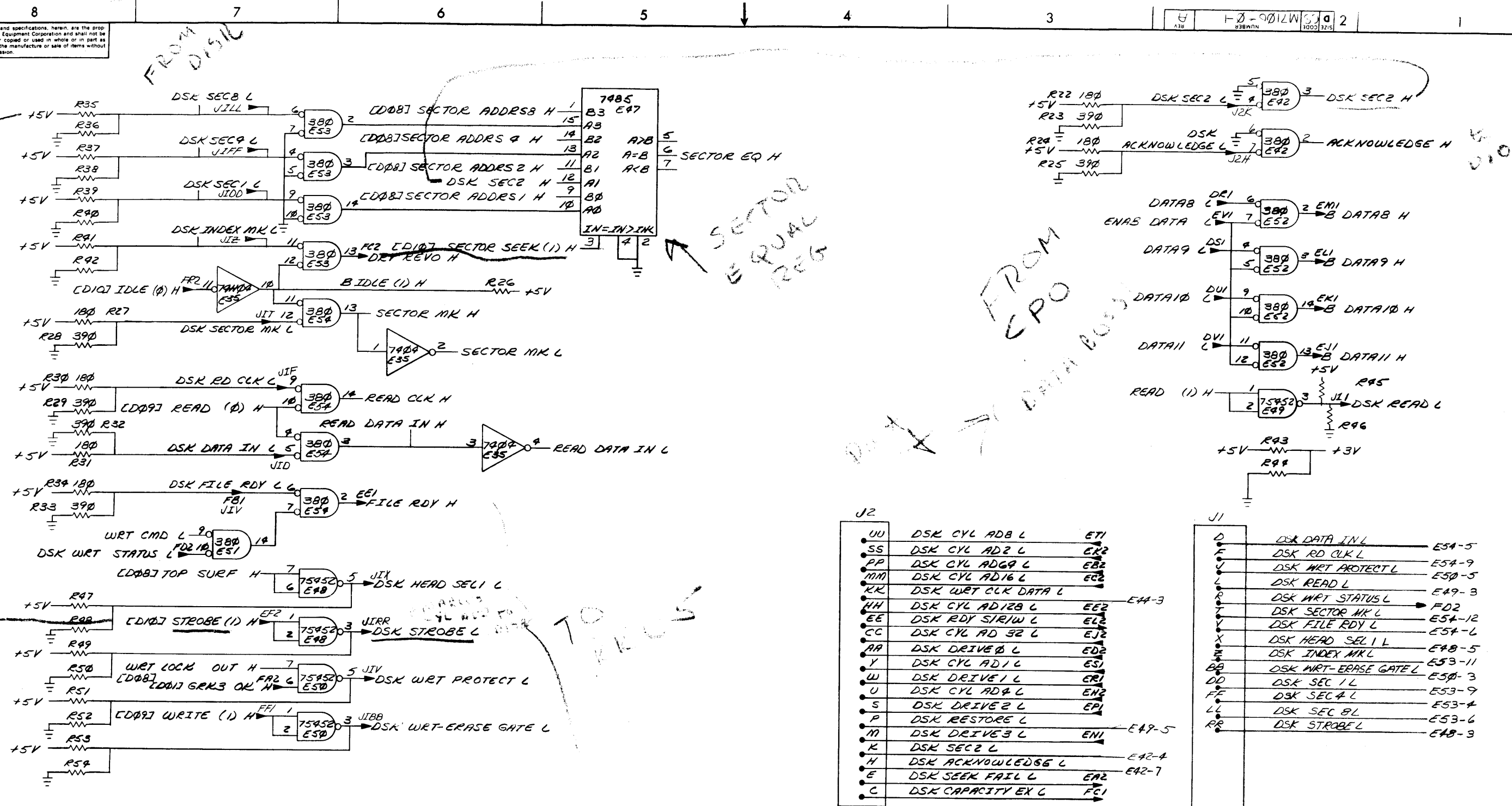
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN. <i>M. P. R. cc</i>	DATE <i>2/15/72</i>	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
		CHK'D.	DATE <i>10-9-72</i>		
DECIMALS	ANGLES	ENG <i>[Signature]</i>	DATE <i>11/19/72</i>		
.XXX - .005 .XX - .02 .X = .1	± 0° 30'	PROJ. ENG. <i>[Signature]</i>	DATE <i>11/19/72</i>		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROD. <i>[Signature]</i>	DATE <i>1/14/73</i>	TITLE (D08) CONTROL, RK8-E	
MATERIAL ++		NEXT HIGHER ASSY. E-DI-RK8-0			
FINISH ++		SCALE SHEET 3 OF			
		SIZE CODE D CS M7126-0-1			
		DIST		NUMBER A	REV. A

BRUING 40-522 15840
REV. FORM NO. DRD 102-B
REVISIONS
CHK. CHANGE NO. REV.
10K 8/2/72
A





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J2		
UU	DSK CYL ADB L	ET1
SS	DSK CYL AD2 L	ER2
PP	DSK CYL AD69 L	EB2
MM	DSK CYL AD16 L	EC2
KK	DSK WRT CLK DATA L	
HH	DSK CYL AD128 L	EE2
EE	DSK RDY S/R/W L	EL2
CC	DSK CYL AD 32 L	EJ2
AA	DSK DRIVE 0 L	ED2
Y	DSK CYL AD1 L	ES1
W	DSK DRIVE 1 L	ER1
U	DSK CYL AD4 L	EN2
S	DSK DRIVE 2 L	EP1
P	DSK RESTORE L	
M	DSK DRIVE 3 L	EN1
K	DSK SEC 2 L	
H	DSK ACKNOWLEDGE L	E42-4
E	DSK SEEK FAIL L	E42-7
C	DSK CAPACITY EX L	FC1

J1		
0	DSK DATA IN L	ES4-5
1	DSK RD CLK L	ES4-9
2	DSK WRT PROTECT L	ES0-5
3	DSK READ L	E49-3
4	DSK WRT STATUS L	F02
5	DSK SECTOR MK L	ES4-12
6	DSK FILE RDY L	E54-6
7	DSK HEAD SEL 1 L	E48-5
8	DSK INDEX MK L	E53-11
9	DSK WRT-ERASE GATE L	E50-3
10	DSK SEC 1 L	E53-9
11	DSK SEC 4 L	E53-4
12	DSK SEC 8 L	E53-6
13	DSK STROBE L	E48-3

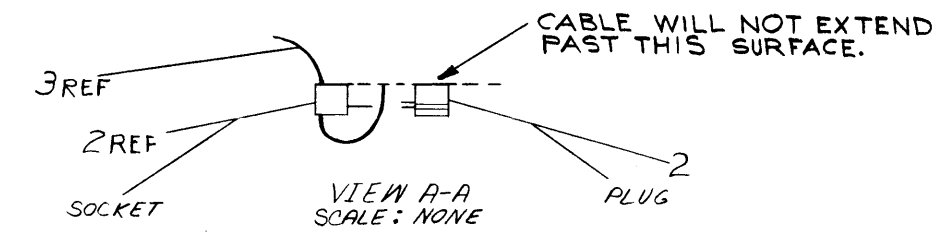
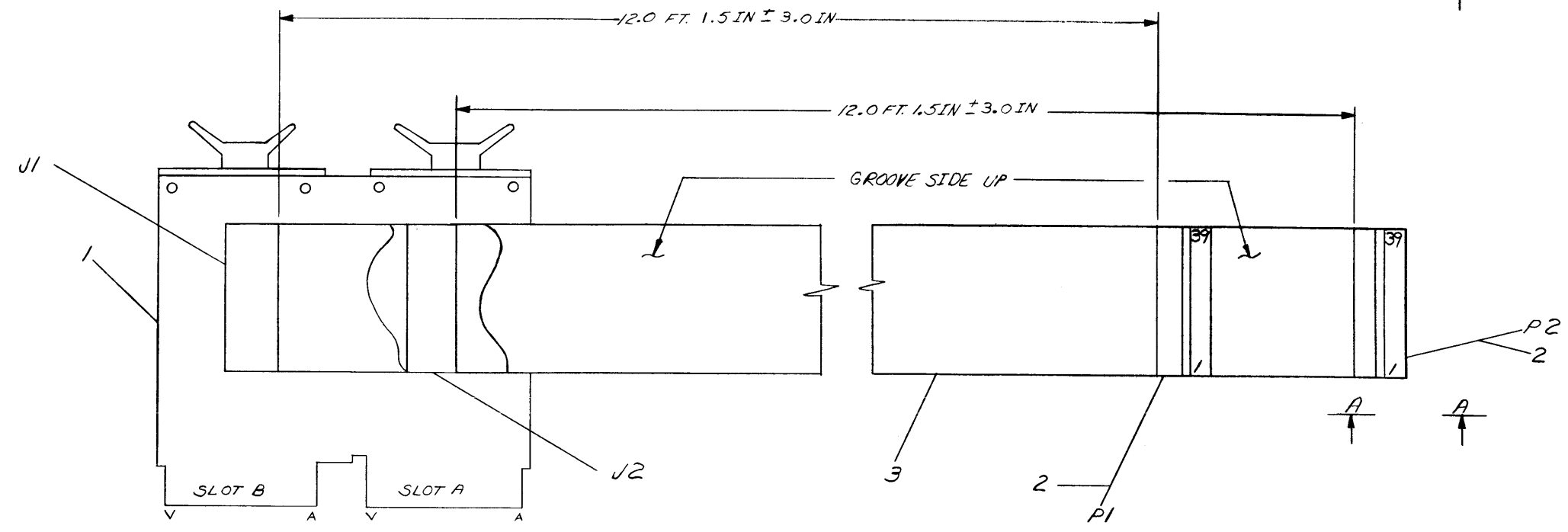
(DRIVE SIGNALS CABLE J2 DRIVERS)

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE 7-19-72		
XXX - 005	± 0° 30'	DATE 7-19-72		
XX - 02		DATE 7-19-72		
X - 1		DATE 7-19-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY.	DATE 7-19-72		
FINISH	B-17L-RK8-8	DATE 7-19-72		
SCALE 1" = 1"				
SHEET 6 OF 6				
DIST				
PARTS LIST				
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				
TITLE (DIP) CONTROL, RK8-E				
SIZE CODE NUMBER REV				
DCS M7106-0-1 A				

BRUING 40-522 15840
REV 1
CHANGE NO
DATE 8/1/75
ORD 102-B

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NOTES:
1. CABLE TO BE WIRED WITH GROOVE SIDE UP.
2. WHEN ATTACHING CONN (ITEM #2) TO CABLE (ITEM #3), USE SCOTCHFLEX 22. HATOR PLATE # 3443-24 AND SCOTCHFLEX ASSY. PRESS # 3445 FROM 3M COMPANY.
3. TAPE CABLE EVERY 1.5 FEET.

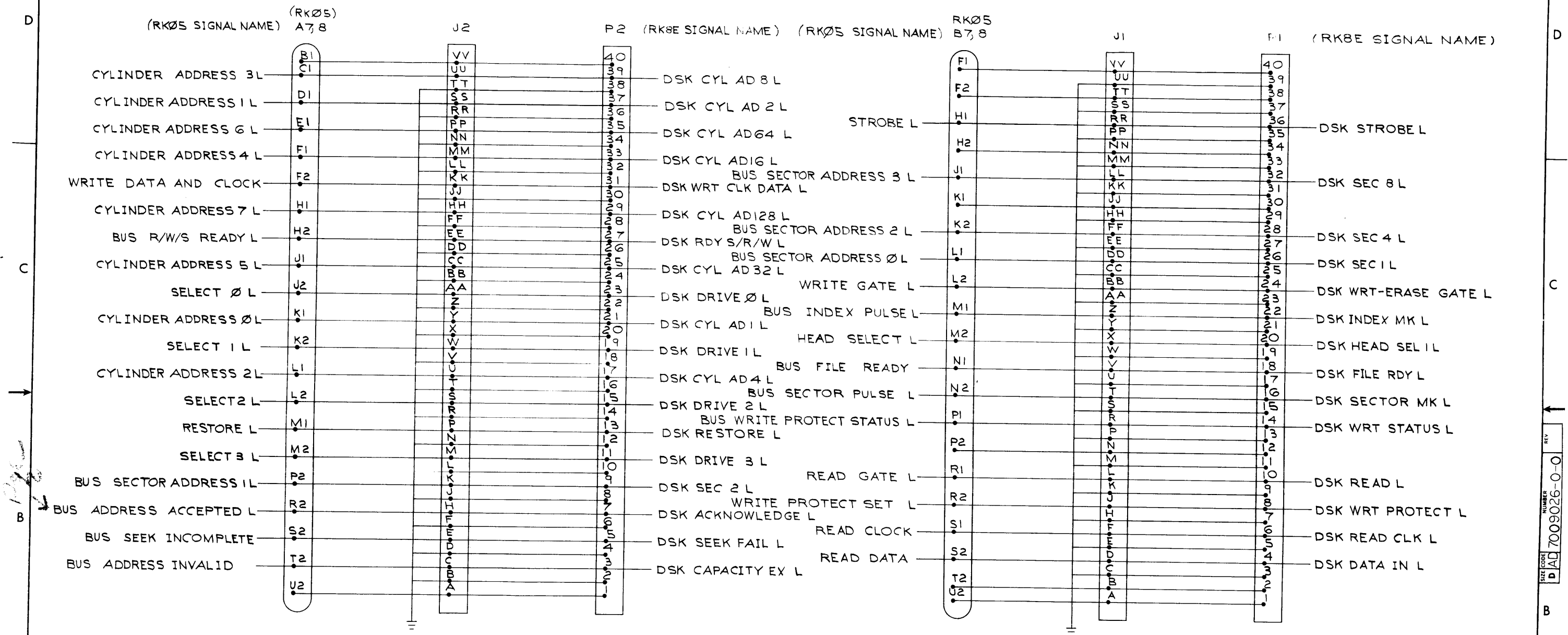


A/R	TAPE, ELECTRICAL WHT.	9008880	4
2	CABLE 40 CONDUCTOR 30 ANG	910777-01	3
2	SCOTCHFLEX CONN #3443-24	12/1206	2
1	RK8-E CONTROL CABLE MOD D-CS-MR33-0-1		1

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		PARTS LIST			
DECIMALS	ANGLES	DRN	DATE	digital EQUIPMENT CORPORATION WAYNARD MASSACHUSETTS	
XXX - .006	± 0° 30'	CHK'D	DATE	TITLE	
.XX - .02		ENG.	DATE	CONTROL CABLE ASSY	
.X - .1		PROJ. ENG.	DATE	SIZE CODE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD.	DATE	NUMBER	
MATERIAL		NEXT HIGHER ASSY.		REV.	
FINISH		SCALE		D AD 7009026 -0-C	
		SHEET	1 OF 2	DIST.	

BRUNING 40-107 15968	REV
CHK	CHANGE NO
DEC FORM NO	
DRD 100-A	

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BRUNING 40-322 15640
DEC FORM NO
DOD 102-B

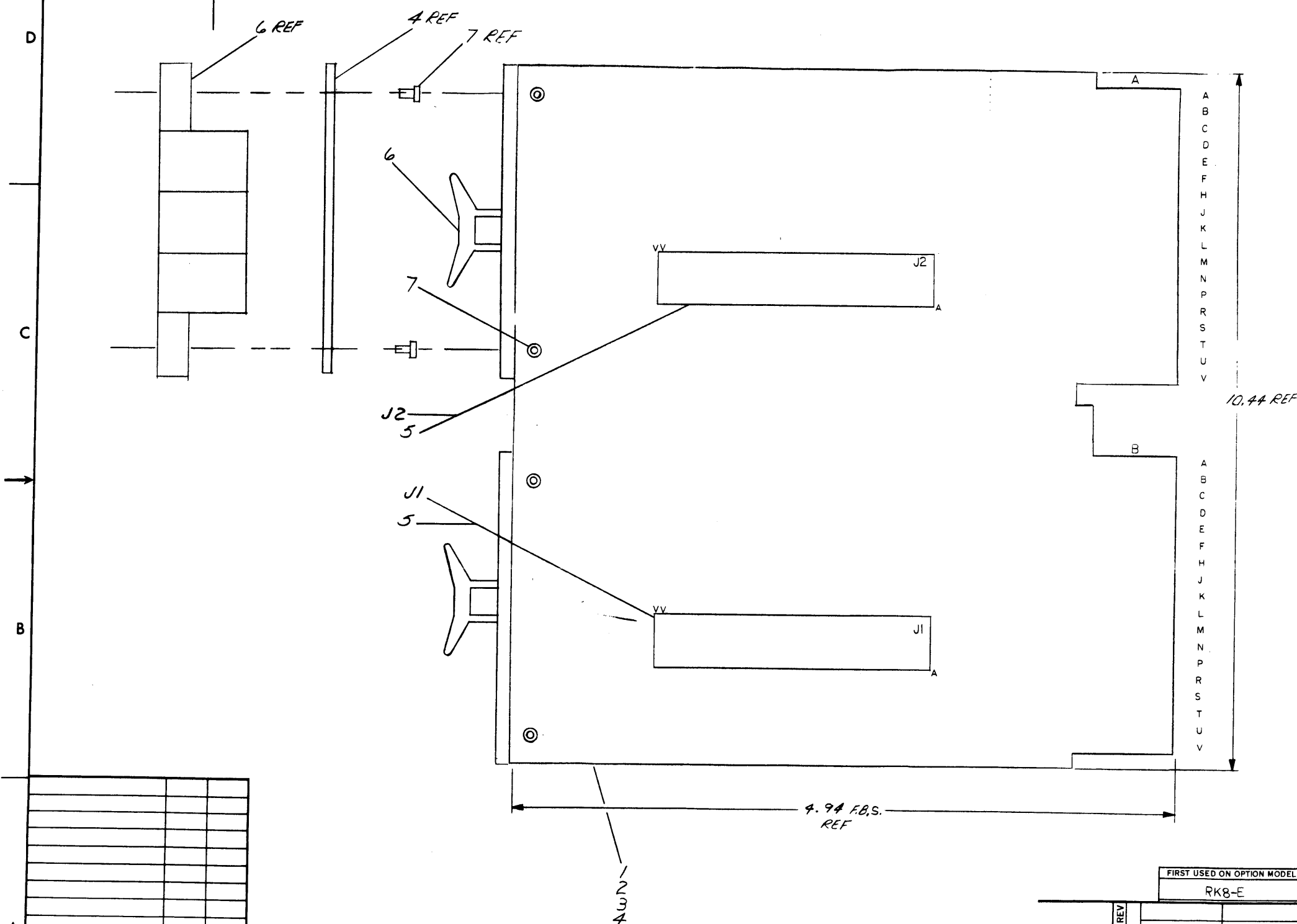
REV	CHANGE NO
1	1

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK8-E				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	DRN	DATE	
XXX = .005	± 0° 30'	CHK'D	DATE	
XX = .02		ENG.	DATE	
X = .1		PRG. ENG.	DATE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD.	DATE	
MATERIAL		NEXT HIGHER ASSY.	SIZE CODE	NUMBER
FINISH		SCALE	DAD 7009026-0-0	
SHEET		REV		

digital EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

CONTROL CABLE
ASSY.

NOTES:



A			
	IC TYPE	GND	+ 5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE			
IC PIN LOCATIONS			

1		EYELET, GS #4-7 E.B. STIMPSON	9006732	7
2		HANDLE, FLIP-CHIP, ARGENTA	9008337-06	6
2	J1, J2	CONN. 3M (40 PINS)	1210073-0	5
1		ETCHED CIRCUIT BOARD	5010178	4
REF		MODULE ECO HISTORY	B-MH-1993-0-6	3
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-1993-0-5	2
REF		X-Y COORDINATE HOLE LOCATION	K-CO-1993-0-1	1
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

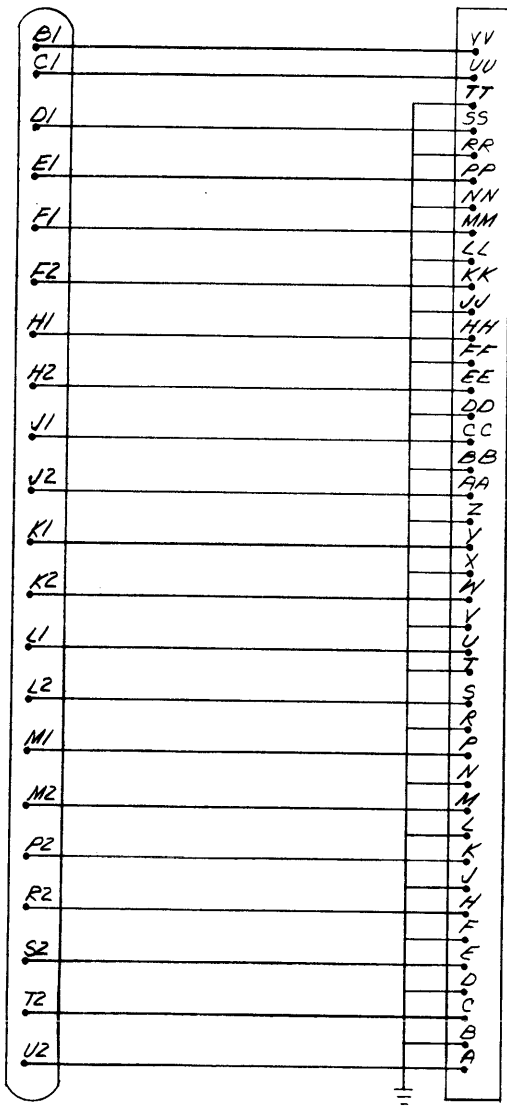
FIRST USED ON OPTION MODEL				QTY				REF DESIGNATION				DESCRIPTION				PART NO.				NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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1-0-866W SC 2

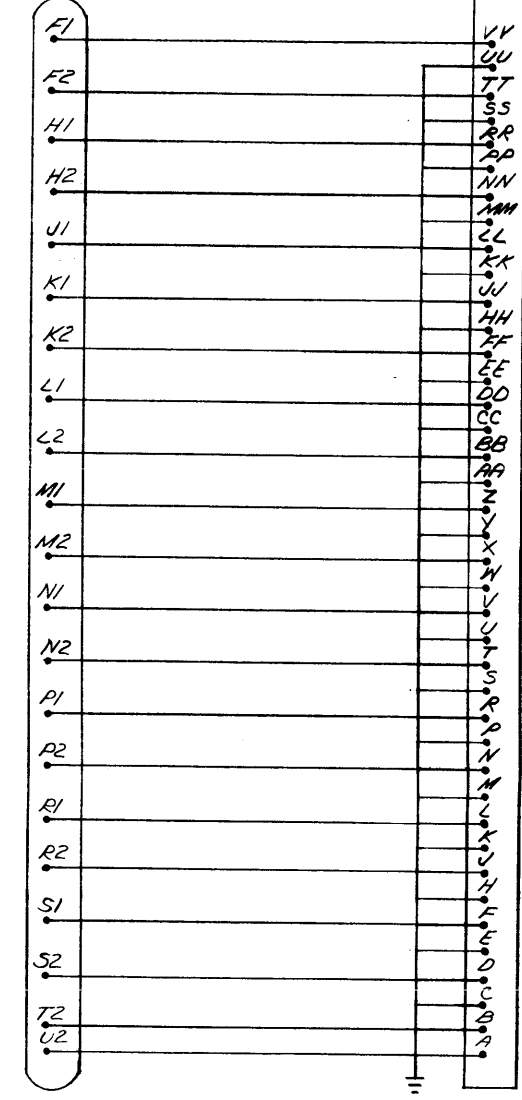
SLOT A

J2



SLOT B

J1



REV	CHANGE NO
1	1

FIRST USED ON OPTION/MODEL RK8-E		QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		PARTS LIST			
DECIMALS XXX = .005 XX = .02 X = .1	ANGLES ± 0° 30'	DRN. CHKD. ENG. PROJ/ENG. PROD.	DATE DATE DATE DATE DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		TITLE RK8 CONTROL CABLE MODULE			
MATERIAL FINISH		NEXT HIGHER ASSY. D-AD-7009026 0-0		SIZE/CODE D CS M993-0-1	NUMBER REV.
SHEET 3 OF 3		DIST			



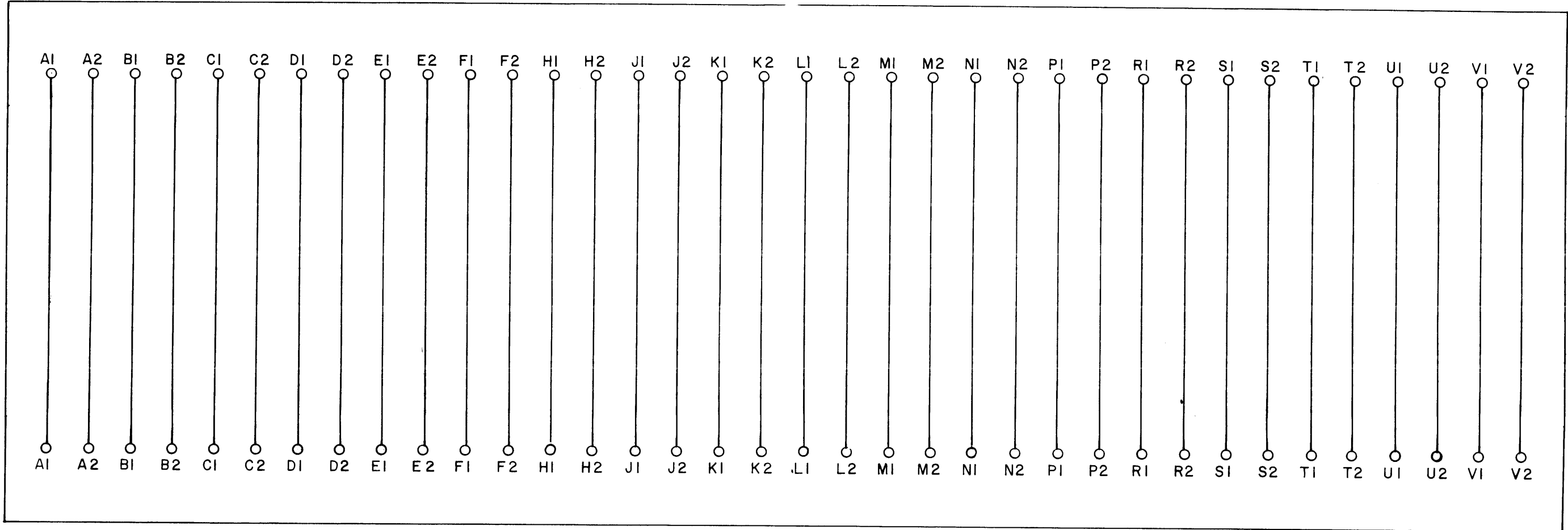
REV. B

NUMBER 1-0-198H

SIZE CODE B CS

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SLOT 1



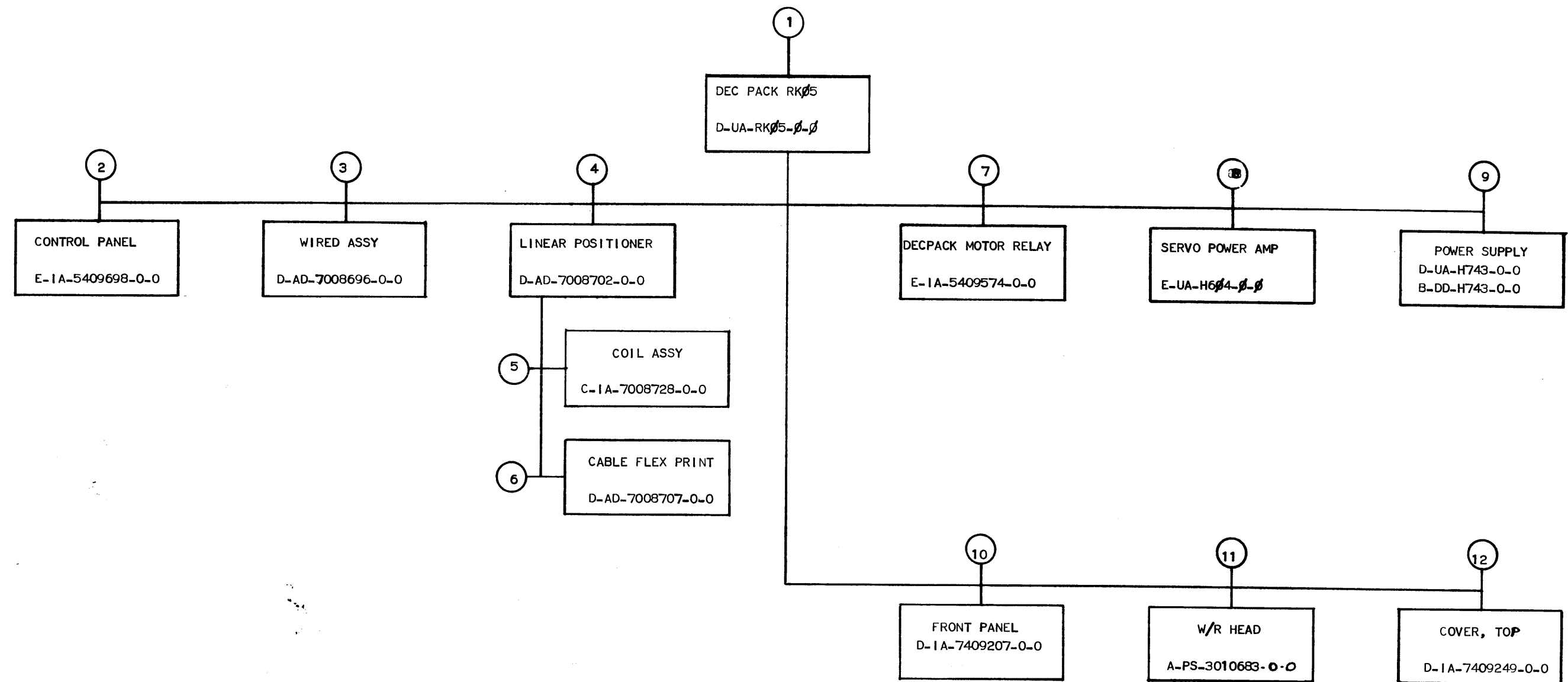
SLOT 2

UNLESS OTHERWISE INDICATED:
CONNECTOR IS A 1210152

REVISIONS	CHK	CHG NO.	REV.	P. GARDNER	DATE	DRN.	jeanne french	DATE	TRANSISTOR & DIODE CONVERSION CHART				digital	TITLE		EDGE CONNECTOR					
	0000	2	B						DEC	EIA	DEC	EIA		H851							
	1-29-71		1-29-71						1-29-71		SIZE	CODE		NUMBER	REV.						
	1-29-71		1-29-71						1-29-71		B	CS		H851-0-1	B						
PROD.					DATE					MAYNARD, MASSACHUSETTS				PRINTED CIRCUIT REV.		C					



DIST. 324,434,435 3 PINK



TITLE	SIZE	CODE	NUMBER	REV
DECPACK ASSY	B	DD	RK05-0	C
SHEET 2 OF 5				