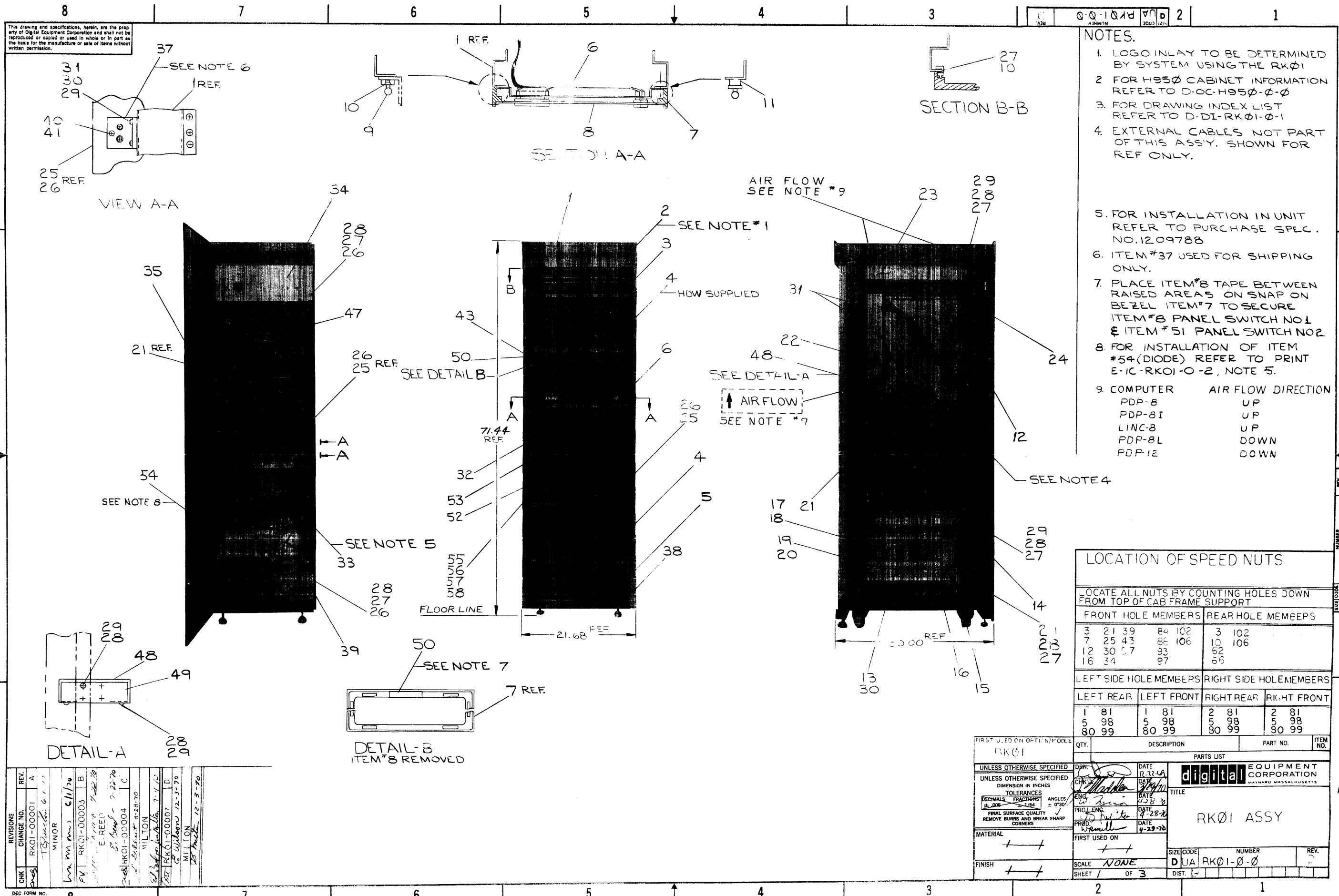


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- NOTES.**
- LOGO INLAY TO BE DETERMINED BY SYSTEM USING THE RKØ1
 - FOR H95Ø CABINET INFORMATION REFER TO D-OC-H95Ø-Ø-Ø
 - FOR DRAWING INDEX LIST REFER TO D-DI-RKØ1-Ø-1
 - EXTERNAL CABLES NOT PART OF THIS ASS'Y. SHOWN FOR REF ONLY.
 - FOR INSTALLATION IN UNIT REFER TO PURCHASE SPEC. NO.1209788
 - ITEM #37 USED FOR SHIPPING ONLY.
 - PLACE ITEM #8 TAPE BETWEEN RAISED AREA 5 ON SNAP ON BEZEL ITEM #7 TO SECURE ITEM #8 PANEL SWITCH NO 1 & ITEM #51 PANEL SWITCH NO 2
 - FOR INSTALLATION OF ITEM #54 (DIODE) REFER TO PRINT E-IC-RKØ1-Ø-2, NOTE 5.
 - COMPUTER AIR FLOW DIRECTION

PDP-8	UP
PDP-8I	UP
LINC-8	UP
PDP-8L	DOWN
PDP-12	DOWN

LOCATION OF SPEED NUTS

LOCATE ALL NUTS BY COUNTING HOLES DOWN FROM TOP OF CAB FRAME SUPPORT

FRONT HOLE MEMBERS				REAR HOLE MEMBERS			
3	21	39	84	102	3	102	
7	25	43	86	106	10	106	
12	30	47	93	62	62		
16	34		97	66	66		

LEFT SIDE HOLE MEMBERS		RIGHT SIDE HOLE MEMBERS	
LEFT REAR	LEFT FRONT	RIGHT REAR	RIGHT FRONT
1	81	1	81
5	98	5	98
80	99	80	99

REVISIONS

CHK	CHANGE NO.	REV.	DATE	DESCRIPTION
WES	00001	A	12-1-70	ISSUED
		B	11-17-70	MINOR
		C	7-27-70	E-REEL
		D	12-3-70	MILTON

FIRST USED ON OPTI/NI/OCLL
RKØ1

UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES

TOLERANCES
DECIMALS FRACTIONS ANGLES
±.000 ±.001 ±.002 ±.003 ±.004 ±.005 ±.006 ±.007 ±.008 ±.009 ±.010 ±.015 ±.020 ±.030 ±.040 ±.050 ±.060 ±.070 ±.080 ±.090 ±.100 ±.125 ±.150 ±.200 ±.250 ±.300 ±.400 ±.500 ±.600 ±.700 ±.800 ±.900 ±1.000 ±1.250 ±1.500 ±2.000 ±2.500 ±3.000 ±4.000 ±5.000 ±6.000 ±8.000 ±10.000

FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL: + +
FINISH: + +

DATE: 12-22-70
DATE: 12-22-70
DATE: 4-28-70
DATE: 4-29-70

PROJ. ENG. DATE: 4-28-70
DATE: 4-29-70

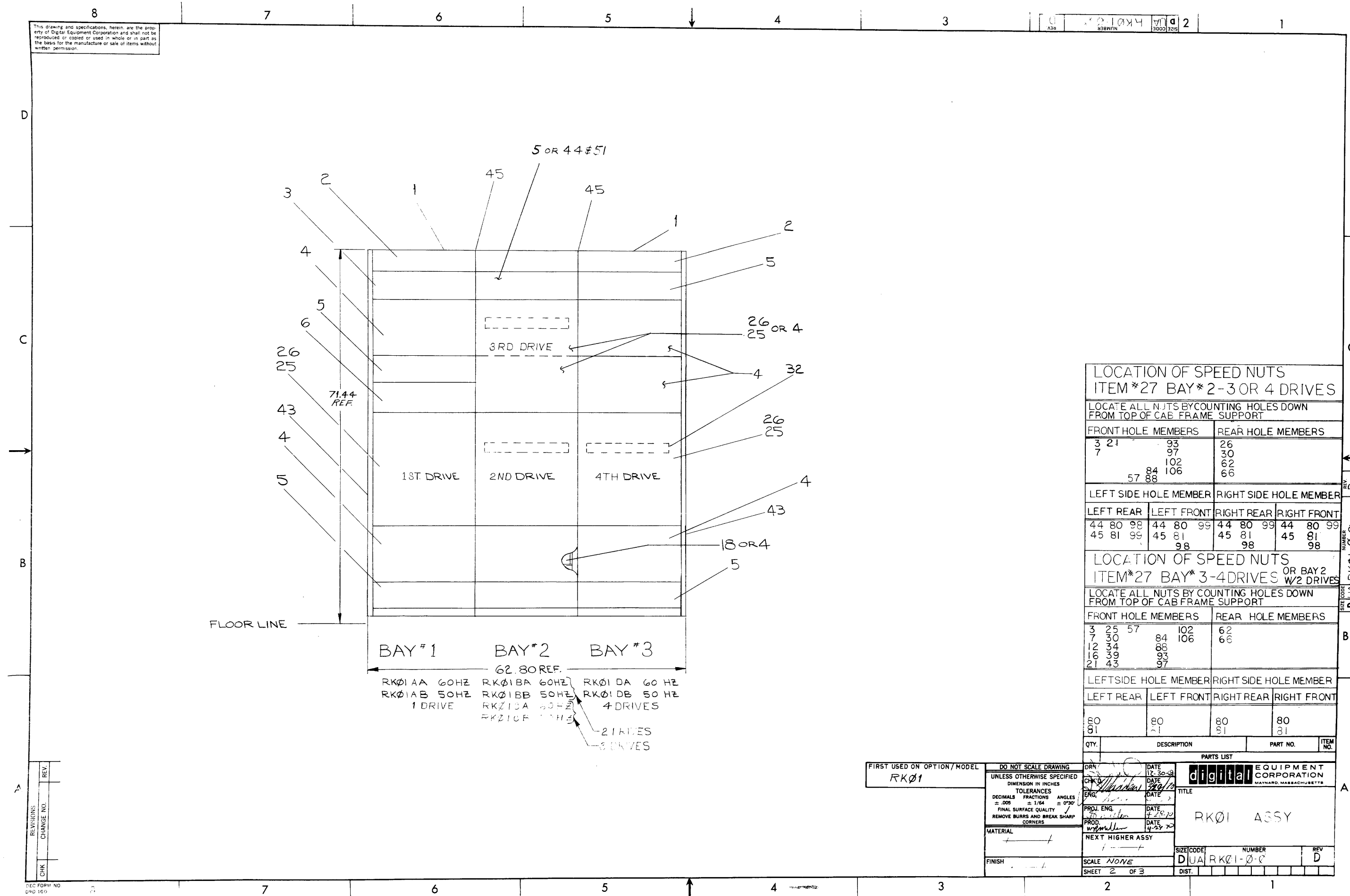
digital EQUIPMENT CORPORATION
MILTON MASSACHUSETTS

TITLE: RKØ1 ASSY

SCALE: NONE
SHEET 1 OF 3

SIZE CODE: DUA
NUMBER: RKØ1-Ø-Ø
REV. 2

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LOCATION OF SPEED NUTS
ITEM *27 BAY *2-3 OR 4 DRIVES

LOCATE ALL NUTS BY COUNTING HOLES DOWN FROM TOP OF CAB FRAME SUPPORT

FRONT HOLE MEMBERS		REAR HOLE MEMBERS	
3 21	93	26	
7	97	30	
	102	62	
	84 106	66	
57	88		

LEFT SIDE HOLE MEMBER		RIGHT SIDE HOLE MEMBER	
LEFT REAR	LEFT FRONT	RIGHT REAR	RIGHT FRONT
44 80 98	44 80 99	44 80 99	44 80 99
45 81 99	45 81 98	45 81 98	45 81 98

LOCATION OF SPEED NUTS
ITEM *27 BAY *3-4 DRIVES OR BAY 2 W/2 DRIVES

LOCATE ALL NUTS BY COUNTING HOLES DOWN FROM TOP OF CAB FRAME SUPPORT

FRONT HOLE MEMBERS		REAR HOLE MEMBERS	
3 25 57	84 102	62	
7 30	84 106	66	
12 34	88		
16 39	93		
21 43	97		

LEFTSIDE HOLE MEMBER		RIGHT SIDE HOLE MEMBER	
LEFT REAR	LEFT FRONT	RIGHT REAR	RIGHT FRONT
80	80	80	80
81	81	81	81

QTY.	DESCRIPTION	PART NO.	ITEM NO.

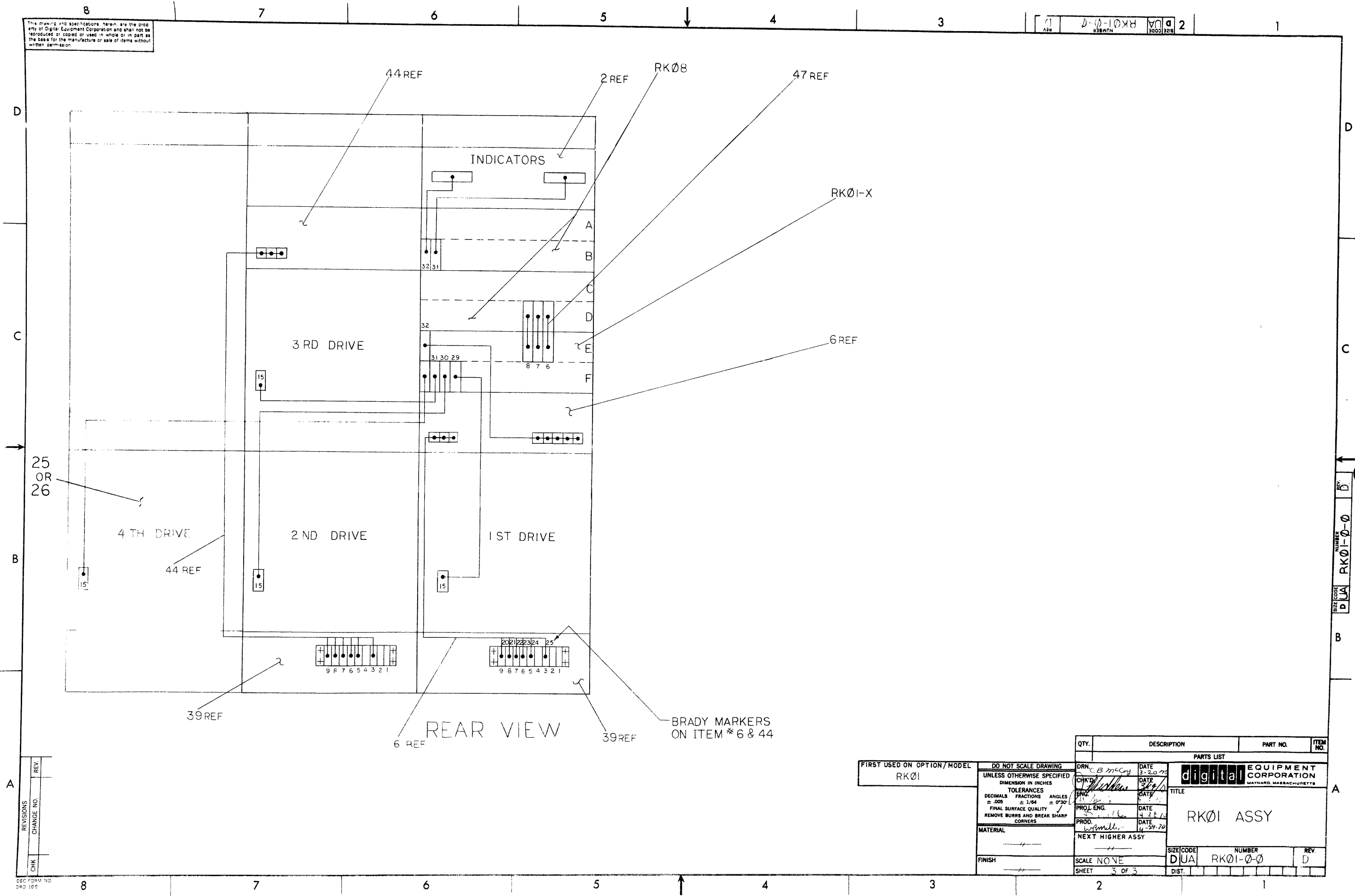
FIRST USED ON OPTION / MODEL
RK01

DO NOT SCALE DRAWING	DRN	DATE	12-30-88
UNLESS OTHERWISE SPECIFIED	CHKD	DATE	1/2/89
DIMENSION IN INCHES	ENG	DATE	1/2/89
TOLERANCES	PROJ. ENG.	DATE	4-28-90
DECIMALS FRACTIONS ANGLES	PROD.	DATE	4-29-90
± .005 ± 1/64 ± 0°30'			
FINAL SURFACE QUALITY			
REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL			
FINISH			

PARTS LIST		
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
TITLE RK01 ASSY		
SIZE CODE	NUMBER	REV
DUA	RK01-0-C	D
DIST.		

REVISIONS	REV.
CHANGE NO.	
CHK	

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REV.	
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL RK01	DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ±.005 ±.164 ±.030 FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	DRN. C.B. McCay DATE 3-20-72 CHK'D. [Signature] DATE 3-29-72 ENG. [Signature] DATE 4-2-72 PROJ. ENG. [Signature] DATE 4-28-72 PROD. [Signature] DATE 4-29-72	DATE DATE DATE DATE DATE	PARTS LIST digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE RK01 ASSY
MATERIAL	FINISH	NEXT HIGHER ASSY	SCALE NONE SHEET 3 OF 3	SIZE CODE DUA NUMBER RK01-0-0 REV. D

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY / VARIATION													
MADE BY J. CAHILL		CHECKED J. MADDEN		SECTION		RKØ1-AA (6Ø HZ)	RKØ1-AB (5Ø HZ)	RKØ1-BA (6Ø HZ)	RKØ1-BB (5Ø HZ)	RKØ1-CA (6Ø HZ)	RKØ1-CB (5Ø HZ)	RKØ1-DA (6Ø HZ)	RKØ1-DB (5Ø HZ)					
DATE 1-5-70		DATE 4-24-70		1														
ENG <i>W. Z...</i>		PROD <i>W. Miller</i>		ISSUED SECT.														
DATE 4-28-70		DATE 4-29-70		1														
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																
1	C-PL-7006501-13-Ø	CABINET FRAME ASSY				1	1	1	1	0	0	1	1					
2	C-UA-H95Ø-LB-Ø	H95Ø-LB FRAME PNL				1	1	1	1	0	0	1	1					
3	C-PL-7006331-3-Ø	INDICATOR PANEL ASSY				1	1	0	0	0	0	0	0					
4	D-UA-H95Ø-Q-Ø	H95Ø-Q 19 IN COVER PNL (10.5)				2	2	3	3	0	0	2	2					
5	D-UA-H95Ø-P-Ø	H95Ø-P 19 IN COVER PNL (5.25)				1	1	1	1	0	0	2	2					
6	E-AD-7006672-0-0	BRKT SWITCH ASSY NO 1				1	1	0	0	0	0	0	0					
7	D-SC-1209226-0-0	5/8 SNAP ON BEZEL				1	1	0	0	1	1	0	0					
8	D-IA-7407875-0-0	PANEL SWITCH NO 1				1	1	0	0	0	0	0	0					
9	C-SC-1209224-0-0	LATCH MOLDING				16	16	16	16	0	0	16	16					
10	9006073-2	SCR PHL H FLAT 10-32 X .50				12	12	0	0	4	4	0	0					
11	B-MD-7407789-0-0	SPACER				8	8	0	0	4	4	0	0					
12	J-IA-7006731-0-0	HARNESS MAIN WIRING				1	1	0	0	0	0	0	0					
13	9006024-2	SCR PHL H FLAT 6.32 X .5 SST				8	8	0	0	8	8	0	0					
14	D-AD-7006484-0-0	BRKT HOLD DOWN ASSY				2	2	2	2	2	2	2	2					
15	C-MD-7407396-0-0	BRKT HOLD DOWN				2	2	0	0	2	2	0	0					
16	D-MD-7407839-0-0	RUNNER				2	2	0	0	2	2	0	0					
17	3009795	POWER SUPPLY CMD 60 HZ				1	0	0	0	1	0	0	0					
18	3009795-01	POWER SUPPLY CMD 50 HZ				0	1	0	0	0	0	1	0					
19	9006243	HEX H CAP .25-20 X .75				4	4	0	0	4	4	0	0					
20	9007991	NUT KEPS HEX .25-20				4	4	0	0	4	4	0	0					
21	D-IA-7006604-0-0	IO HARNESS				1	1	1	1	1	1	1	1					
22	C-UA-RKØ1-X-Ø	RKØ1-X				1	1	0	0	0	0	0	0					
TITLE RKØ1 ASSY					ASSY NO. D-UA-RKØ1-Ø-Ø		SIZE CODE A PL		NUMBER RKØ1-Ø-Ø				REV. D		ECO NO. RKØ1-00007			
SHEET 1 OF 3					DIST. G													

DEC FORM NO. 16-1031
DRA 110

X

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST				QUANTITY / VARIATION													
MADE BY J. CAHILL		CHECKED J. MADDEN		SECTION		60 HZ		50 HZ		60 HZ		50 HZ		60 HZ		50 HZ	
DATE 1-5-70		DATE 4-24-70		1		RK01-AA		RK01-AB		RK01-BA		RK01-BB		RK01-CA		RK01-CB	
ENG <i>W. Smith</i>		PROD <i>W. Smith</i>		ISSUED SECT.		60 HZ		50 HZ		60 HZ		50 HZ		60 HZ		50 HZ	
DATE 4-28-70		DATE 4-29-70		1		RK01-DA		RK01-DB		60 HZ		50 HZ		60 HZ		50 HZ	
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION															
23	D-UA-716-0-0	716 POWER SUPPLY		1	1	0	0	0	0	0	0	0	0	0	0	0	0
24	D-AD-7005909-0-0	DISTRIBUTION PANEL ASSY		1	1	0	0	0	0	0	0	0	0	0	0	0	0
25	3009793	DISK DRIVE 60 HZ		1	0	1	0	1	0	1	0	1	0				
26	3009793-1	DISK DRIVE 50 HZ		0	1	0	1	0	1	0	1	0	1				
27	9007786	NUT SPEED #C31758-032-27 TINNERMAN		93	93	81	81	81	81	81	65	65					
28	9006074-3	SCR PHL TURS H 10-32 X .62 SST		93	93	81	81	81	81	81	65	65					
29	9007651	WASH EXT TOOTH #10		93	93	81	81	81	81	81	65	65					
30	9006560	NUT KEPS #6-32		8	8	0	0	8	8	0	0						
31	C-UA-RK08-0-0	RK08 POS LOGIC		1	1	0	0	0	0	0	0	0					
32	C-UA-RK01-K-0	DISK CARTRIDGE RK01-K		1	1	1	1	1	1	1	1	1					
33	1209788	AC-DC CABLE		1	1	1	1	1	1	1	1	1					
34	D-UA-854-0-0	POWER CONTROL 854		1	1	0	0	0	0	0	0	0					
35	E-AD-7006540-1-0	DOOR REAR ASSY		1	1	1	1	0	0	1	1						
36	E-AD-7006540-2-0	DOOR REAR ASSY		0	0	0	0	1	1	0	0						
37	C-MD-7407692-0-0	BRKT SHIPPING		2	2	2	2	2	2	2	2	2					
38	C-UA-H950-M-0	H950-M COVER PNL 1.75		1	1	1	1	0	0	1	1	1					
39	1209603	H721 POWER SUPPLY		1	1	0	0	0	0	0	0	0					
40	9007862	HEX HD SCR 5/16-18 X 5/8 SST		2	2	2	2	2	2	2	2	2					
41	9007788	WASH SPLIT LOCK 5/16		2	2	2	2	2	2	2	2	2					
42	9006074-2	SCR PHL FLAT H 10-32 X .62		8	8	8	8	8	8	8	8	8					
43	D-UA-H952-A-0	H952-A END PANEL		2	2	0	0	0	0	0	0	0					
44	E-AD-7006764-0-0	BRKT SWITCH ASSY NO. 2						1	1	0	0						
TITLE RK01 ASSY				ASSY NO. D-UA-RK01-0-0		SIZE CODE A PL		NUMBER RK01-0-0				REV D		ECO NO.			
SHEET 2 OF 3				DIST. <i>C</i>													

DEC FORM NO. 16-1031
DRA 110

X

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MECHANICAL				MECHANICAL				MECHANICAL				MECHANICAL			
FIND NO.	DESCRIPTION	PART NO.	DEPT USAGE	FIND NO.	DESCRIPTION	PART NO.	DEPT USAGE	FIND NO.	DESCRIPTION	PART NO.	DEPT USAGE	FIND NO.	DESCRIPTION	PART NO.	DEPT USAGE
1	PKB1 ASSY PKB1 ASSY (PL) 5.25 SNAP ON BEZEL	D-UA-RK01-B-0 A-PL-RK01-B-0 C-SC-1209224-0-0	11	11	TALLY SILK SCREEN (WHT) SILK SCREEN (BLK)	D-IA-7407228-0-0 C-SS-7407228-0-0 C-SS-7407228-0-2		23	FAN ASSY FAN ASSY (PL) FAN SCREEN FAN HOUSING AFROW DECAL	D-AD-7006674-0-0 A-PL-7006674-0-0 C-MD-7404881-0-0 D-MD-7407835-0-0 A-DC-7408026-0-0		33	DOOR BEAR ASSY DOOR BEAR ASSY (PL) DOOR BEAR FRAME & SKIN MTC PIN DOOR	E-AD-7006540-0-0 A-PL-7006540-0-0 E-IA-7407606-0-0 B-MD-7406671-0-0	
	LATCH MOLDING HARNES MAIN WIPING BRKT HOLD DOWN PUNNER IO HARNES BRKT SHIPPING CABLE H901 TO H901 SUPPORT FAN	C-SC-1209224-0-0 J-IA-7006731-0-0 C-MD-7407396-0-0 C-MD-7407396-0-0 D-IA-7006604-0-0 C-MD-7407692-0-0 C-IA-7006111-1-0 C-MD-7407825-0-0	10	10	H950-C 19IN COVER PNL (10 5) DRAWING INDEX H950	D-UA-H950-L-0 D-DI-H950-B-1		24	FK08 LOGIC ASSY PK08 LOGIC ASSY (PL) PANEL LEFT END ASSY RIGHT END PANEL	C-UA-PK08-0-0 A-PL-PK08-0-0 C-IA-5404490-0-0 C-MD-5302486-0-0			BUSHING PIVOT PIN DOOR PIN DOOR RETAINER	D-MD-7406202-0-0 B-MD-7406672-0-0 B-MD-7406670-0-0	
2	CABINET FRAME ASSEMBLY	C-PL-7006501-0-0		14	BRKT SWITCH ASSY NO 1 BRKT SWITCH ASSY NO 1 (PL) SWITCH BRACKET	E-AD-7006672-0-0 A-PL-7006672-0-0 D-MD-7407831-0-0		25	WIRED ASSY (FK08) WIRED ASSY (FK08) (PL) LOGIC FRAME DECALS	D-AD-7006775-0-0 A-PL-7006775-0-0 A-DC-7406371-0-0		34	PANEL SWITCH NO 1 SILK SCREEN WHT	D-IA-7407875-0-0 D-SS-7407875-0-1	
3	19 IN CAB ASSY W/ CAST AND LEVELERS	A-PL-7006478-0-0		15	BRKT SWITCH ASSY NO 2 BRKT SWITCH ASSY NO 2 (PL) SWITCH BPACKET	E-AD-7006764-0-0 A-PL-7006764-0-0 D-MD-7402145-0-0		26	MTG PANEL TYPE H911 MTG PANEL TYPE H911 288 PIN CONW BLOCK TYPE	D-AD-5404491-0-0 A-PL-5404491-0-0 E-SC-1205348-0-0		35	PANEL SWITCH NO 2 SILK SCREEN NO 2	D-IA-7407876-0-0 C-SS-7407876-0-1	
4	H952-C FAN DRAWING INDEX H952	A-PL-H952-C-0 D-DI-H952-C-1		16	BRKT HOLDDOWN ASSY BRKT HOLDDOWN ASSY BRKT HOLDDOWN BSP GUIDE PUNNER	D-AD-7006484-0-0 A-PL-7006484-0-0 C-MD-7407396-0-0 C-MD-7407398-0-0 D-MG-7407839-0-0		27	1943 CASTING PLUS PINS 1943 CASTING PLUS PINS (PL) 1943 FRAME CASTING	D-AD-5302483-0-0 A-PL-5302483-0-0 E-MD-1202885-0-0		36	DOOR ASSY FRONT DOOR ASSY FRONT (PL) HINGE SPACER HINGE RE- DOOR FRAME DOOR PLEXIGLASS	D-AD-7006893-0-0 A-PL-7006893-0-0 C-MD-7408178-0-0 C-MD-7408180-0-0 C-IA-7408184-0-0 C-IA-7408191-0-0 D-IA-7408190-0-0	
5	H950-S FILTER DRAWING INDEX H950	A-PL-H950-S-0 D-DI-H950-B-1		18	H952-A END PANEL DRAWING INDEX H952	D-UA-H952-A-0 D-DI-H952-B-1		28	FK01-X LOGIC ASSY FK01-X LOGIC ASSY (PL) PANEL LEFT END ASSY RIGHT END PANEL	C-UA-RK01-X-0 A-PL-RK01-X-0 C-IA-5404490-0-0 C-MD-5302486-0-0					
6	H950-LB FRAME PNL DRAWING INDEX H950	C-UA-H950-LB-0 D-DI-H950-B-1		19	H952-GA FILLER STRIP ASSY DRAWING INDEX H952	C-UA-H952-GA-0 D-DI-H952-B-1		29	WIRED ASSY (FK01-X) WIRED ASSY (FK01-X) (PL) LOGIC FRAME DECALS	D-AD-7006586-0-0 A-PL-7006586-0-0 A-DC-7406371-0-0					
7	INDICATOR PANEL ASSY INDICATOR PANEL ASSY (PL) 5.25 SNAP ON BEZEL BENELEX LATCH MOLDING MTG BRKT BENELEX	C-AD-7006331-0-0 C-PL-7006331-0-0 E-SC-1209226-0-0 C-IA-7407222-0-0 C-SC-1209224-0-0 C-MD-7407086-3-0		20	H952-GB FILLER STRIP ASSY DRAWING INDEX H952	C-UA-H952-GB-0 D-DI-H952-B-1		30	FK01-K DISK CARTRIDGE	C-UA-PK01-K-0					
8	LIGHT BOARD CABLE ASSY	E-IA-7006409-0-0		21	716 POWER SUPPLY 716 POWER SUPPLY (PL)	D-UA-716-0-0 A-PL-716-0-0		31	LOGO DISK SILK SCREEN	B-IA-7408045-0-0 A-SS-7408045-0-1					
9	PERIPHERAL ETCH BOARD ASSY	E-IA-5408458-3-0		22	DISTRIBUTION PANEL ASSY DISTRIBUTION PANEL ASSY (PL) PANEL BACK DISTRIBUTION PANEL DISTRIBUTION DECALS DISTRIBUTION PANEL	D-AD-7005909-0-0 A-PL-7005909-0-0 C-MD-7406765-0-0 D-IA-7406764-0-0 A-DC-7406766-0-0		32	854 LOWER CONTROL 854 POWER CONTROL (PL)	D-UA-854-0-0 A-PL-854-0-0					
10	ETCH BOARD	D-IA-5008457-0-0													

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
FIRST USED ON OPTION/MODEL RKZ1			
DO NOT SCALE DRAWING			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES			
TOLERANCES			
DECIMALS	FRACTIONS	ANGLES	
± .005	± 1/64	± 0°30'	
FINAL SURFACE QUALITY			
REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL			
NEXT HIGHER ASSY A-PL-RKZ1-0			
SCALE		SIZE/CODE	NUMBER
SHEET 2 OF 3		D DIRK01-0-1	REV C

REC FORM NO. 100
DPE 100

REV C
NUMBER 1-0-1
DIRK01-0-1
B

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
DRAWING INDEX
LIST RKZ1

ELECTRICAL				ELECTRICAL				ELECTRICAL				ELECTRICAL					
DESCRIPTION		PART NO	DEPT USAGE	DESCRIPTION		PART NO	DEPT USAGE	DESCRIPTION		PART NO	DEPT USAGE	DESCRIPTION		PART NO	DEPT USAGE		
FIND NO	DESCRIPTION	PART NO	PROD	CUST	F/C	FIND NO	DESCRIPTION	PART NO	PROD	CUST	F/C	FIND NO	DESCRIPTION	PART NO	PROD	CUST	F/C
1.	RK01 MASTER LIST POWER WIRING AC & DC LIGHT BOARD INDEX LIGHT BOARD INDEX	A-ML-RK01-0 E-IC-RK01-0-2 K-PL-RK01-1 E-PL-7006775-0-0				25	WIRED ASSY (FK00) WIRED ASSY (FK00) (PL)	D-AD-7006775-0-0 A-PL-7006775-0-0									
9.	PERIPHERAL ETCH BOARD ASSY PERIPHERAL ETCH BOARD (CS)	E-IA-5408458-0-0 D-CS-5408458-0-1				28.	RK01-X MASTER LIST MODULE UTILIZATION (FK01-X) MODULE UTILIZATION (FK01-X) (PL) WIRED LIST (FK01-X) FORMAT DELAYS TRACK SEEK DISK AND TRACK ADDRESS COMPARE TRACK ADDRESS DISK SELECTION DISK CABLES +3V LOADS +3V CLAMPS CABLE TO PK00 BASK FORMAT BLOCK DIAGRAM FLOW TIMING DIAGRAM	A-ML-RK01-X K-MU-RK01-X-11 K-PL-RK01-X-11 K-WL-RK01-X-10 D-BS-PK01-X-01 D-CS-RK01-X-02 D-BS-PK01-X-03 D-BS-PK01-X-04 D-BS-PK01-X-05 D-BS-PK01-X-06 D-BS-PK01-X-07 D-BS-PK01-X-08 D-IC-RK01-X-09 D-TD-RK01-X-12 D-ED-RK01-X-13 D-FD-RK01-X-14 D-TD-RK01-X-15									
14.	SPRT SWITCH ASSY NO 1 SPRT SWITCH ASSY NO 1 (PL)	E-AD-7006672-0-0 A-PL-7006672-0-0				29.	WIRED ASSY (FK01-A) WIRED ASSY (FK01-A) (PL)	D-AD-7006586-0-0 A-PL-7006586-0-0									
15.	BRKT SWITCH ASSY NO 2 BRKT SWITCH ASSY NO 2 (PL)	E-AD-7006764-0-0 A-PL-7006764-0-0				32.	854 POWER CONTROL 854 POWER CONTROL (PL) 854 POWER CONTROL (CS)	D-UA-854-0-0 A-PL-854-0-0 B-CS-854-0-1									
21.	716 POWER SUPPLY 716 POWER SUPPLY (PL) 716 POWER SUPPLY (CS)	D-UA-716-0-0 A-PL-716-0-0 C-CS-716-0-1				28 CONT	BASIC FORMAT BLOCK DIAGRAM FLOW TIMING DIAGRAM RK01/RK00	D-TD-RK01-X-12 D-ED-RK01-X-13 D-FD-RK01-X-14 D-TD-RK01-X-15									
22.	DISTRIBUTION PANEL ASSY DISTRIBUTION PANEL ASSY (PL)	D-AD-7005909-0-0 A-PL-7005909-0-0															
23.	FAN ASSY FAN ASSY (PL)	D-AD-7006674-0-0 A-PL-7006674-0-0															
24.	FK00 MASTER LIST MODULE UTILIZATION (FK00-0) MODULE UTILIZATION (FK00-0) (PL) WIRED LIST (FK00) I/O DECODING SKIP AND BREAK MAINTENANCE REGISTER MAJOR SEQUENCER P/W COMMAND FIND SEL END TRANS PEAD WRITE DATA BUFFER DATA SHIFT REGISTER LONGITUDINAL PARITY STATUS REGISTER SECTOR ADDRESSING BIT AND BLOCK COUNTER KC REGISTER CURR ADDR AND EMA REG AC INPUT GATING 00-05 AC INPUT GATING 06-11 AC MB INVERTERS +3V CLAMPS CABLE TO RK01-X I/O AND DATA BREAK CABLES INDICATOR CABLES	A-ML-FK00-0 K-MU-FK00-0-29 K-PL-FK00-0-29 K-WL-FK00-0-27 D-BS-FK00-0-05 D-BS-FK00-0-06 D-BS-FK00-0-07 D-BS-FK00-0-08 D-BS-FK00-0-09 D-BS-FK00-0-10 D-BS-FK00-0-11 D-BS-FK00-0-12 D-BS-FK00-0-13 D-BS-FK00-0-14 D-BS-FK00-0-15 D-BS-FK00-0-16 D-BS-FK00-0-17 D-BS-FK00-0-18 D-BS-FK00-0-19 D-BS-FK00-0-20 D-BS-FK00-0-21 D-BS-FK00-0-22 D-BS-FK00-0-23 D-BS-FK00-0-24 D-BS-FK00-0-25 D-BS-FK00-0-26															
CONT	RK00 HARDWARE LIST RK00 SOFTWARE PACKAGE CHECKOUT PROCEDURE DISK CARTRIDGE MEMORY ACCEPTANCE PROCEDURE	A-AL-RK01-0-3 A-SL-RK01-0-4 A-SP-RK01-0-5 A-SP-RK01-0-6 A-CP-RK01-0-7															

REVISIONS CHANGE NO. CHK	REV	
	DATE	
	BY	
	CHK'D	
FIRST USED ON OPTION / MODEL		RK01
DO NOT SCALE DRAWING		
UNLESS OTHERWISE SPECIFIED		
DIMENSION IN INCHES		
TOLERANCES		
DECIMALS	FRACTIONS	ANGLES
± .005	± 1/64	± 0°30'
FINAL SURFACE QUALITY		
REMOVE BURRS AND BREAK SHARP CORNERS		
MATERIAL		
FINISH		
NEXT HIGHER ASSY		A-ML-RK01-0
SCALE		3 OF 3
SHEET		3 OF 3
DATE		5/14/70
CHK'D		Miller
ENG.		
PROJ. ENG.		
PROD.		Miller
DATE		4-29-70
TITLE		DRAWING INDEX LIST RK01
PARTS LIST		
QTY.	DESCRIPTION	PART NO.
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
SIZE CODE		NUMBER
DDI RK01-01		
REV.		
DIST.		

MASTER DRAWING LIST

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DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE
C-UA-RK01-X-0		1	RK01-X LOGIC ASSY
A-PL-RK01-X-0		1	RK01-X LOGIC ASSY (PL)
D-DI-RK01-0-1	C	3	DRAWING INDEX LIST (RK01)
D-AD-7006586-0-0		1	WIRED ASSY (RK01-X)
A-PL-7006586-0-0		1	WIRED ASSY (RK01-X) (PL)
K-MU/PL-RK01-X-11	B	15	MODULE UTILIZATION (RK01-X)(MU & PL)
K-WL-RK01-X-10	B		WIRE LIST (RK01-X)
D-BS-RK01-X-01		1	FORMAT DELAYS
D-BS-RK01-X-02	A	2	TRACK SEEK
D-BS-RK01-X-03	A	1	DISK AND TRACK ADDRESS
D-BS-RK01-X-04		1	COMPARE TRACK ADDRESS
D-BS-RK01-X-05		1	DISK SELECTION
D-BS-RK01-X-06		1	DISK CABLES
D-BS-RK01-X-07	A	1	+3V LOADS
D-BS-RK01-X-08		1	+3V CLAMPS
D-BS-RK01-X-09		1	CABLE TO RK08
D-TD-RK01-X-12	A	1	BASIC FORMAT
D-BD-RK01-X-13		1	BLOCK DIAGRAM
D-FD-RK01-X-14		1	FLOW
D-TD-RK01-X-15		1	TIMING DIAGRAM
A-AP-RK01-X-16		1	SIGNAL INDEX

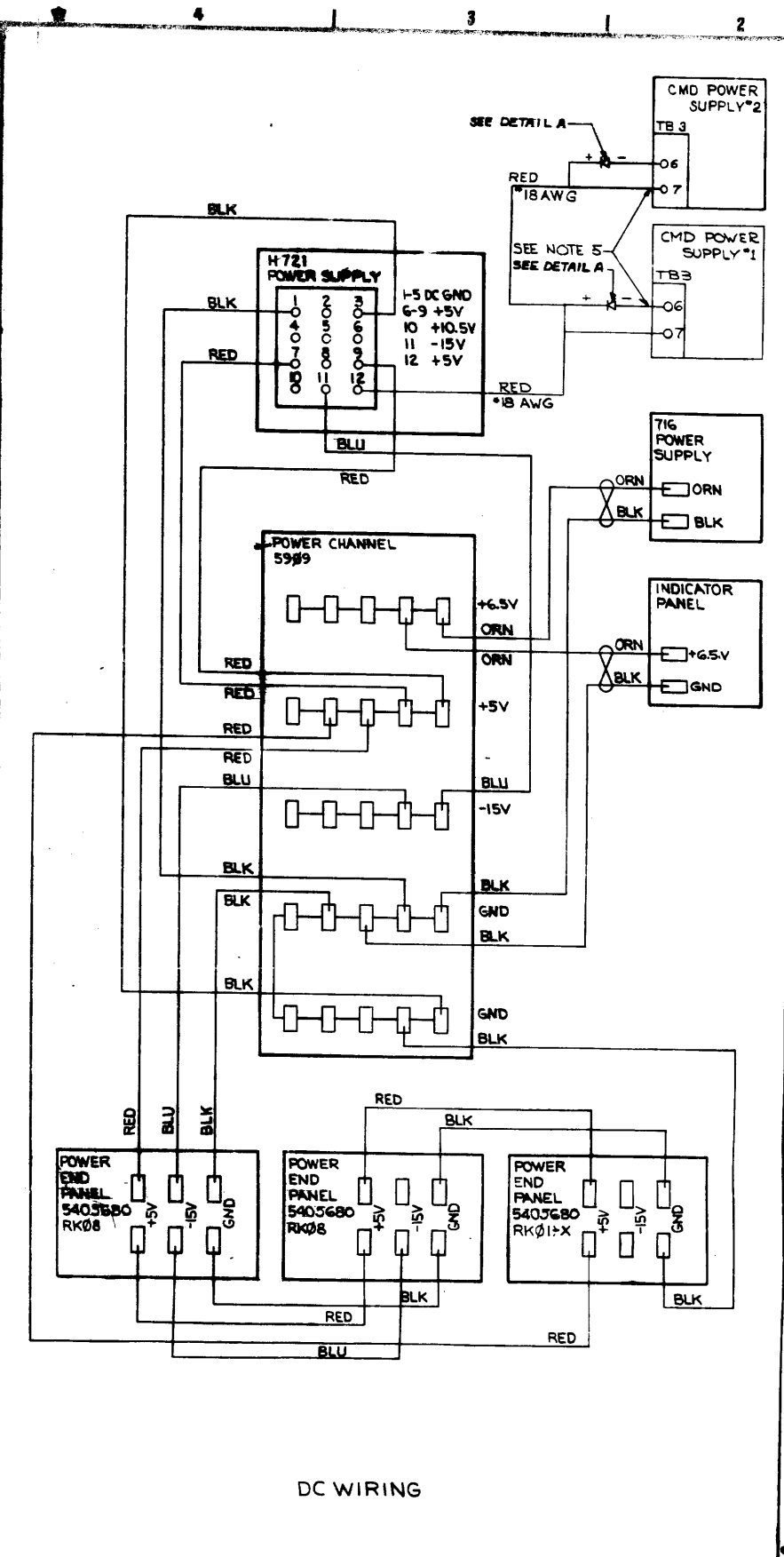
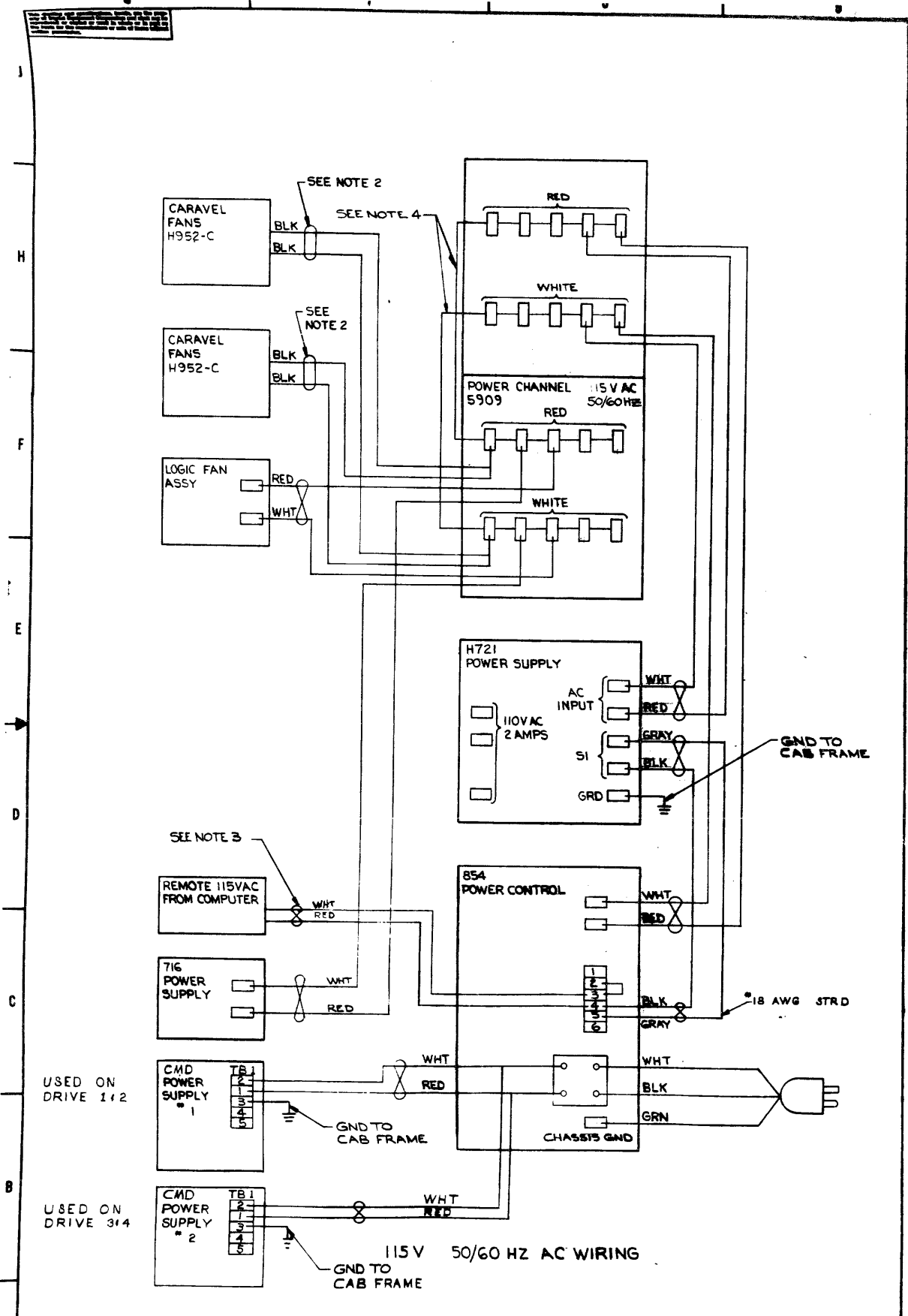
REVISIONS				DRN.	DATE	digital EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>
REV.	DATE	CHG. NO.	APP'D.	J. CAHILL	3/29/70	
A	5/70	RK01-X-1	J.M.	<i>[Signature]</i>	3/25/70	
B	6/70	RK01-X-1	J.M.	<i>[Signature]</i>		
C	9/70	RK01-X-5	J.M.	<i>[Signature]</i>	4-10-70	TITLE INTERFACE RK01-X
D	9/70	RK01-X-2	J.M.	<i>[Signature]</i>	4-10-70	
				<i>[Signature]</i>	4-10-70	
FIRST USED ON				A-ML-RK01-0		NUMBER RK01-X
SCALE				A ML		
SHEET 1 OF 1				DIST.		REV. D

MASTER DRAWING LIST

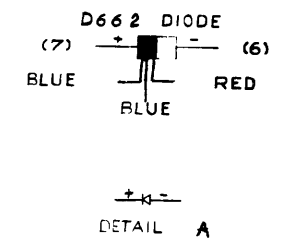
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DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE
C-UA-RK08-0-0	B	1	RK08 LOGIC ASSY
A-PL-RK08-0-0	B	1	RK08 LOGIC ASSY (PL)
D-DI-RK01-0-1	A	3	DRAWING INDEX LIST (RK01)
D-AD-7006775-0-0	C	1	WIRED ASSY (RK08)
A-PL-7006775-0-0	C	1	WIRED ASSY (RK08) (PL)
K-MU/PL-RK08-0-29	B	7	MODULE UTILIZATION (RK08-0)
		1	
K-WL-RK08-0-27	B	1	WIRE LIST (RK08)
D-BS-RK08-0-05		2	I/O DECODING
D-BS-RK08-0-06	A	1	SKIP AND BREAK
D-BS-RK08-0-07		1	MAINTENANCE REGISTER
D-BS-RK08-0-08	A	1	MAJOR SEQUENCER
D-BS-RK08-0-09		1	R/W COMMAND FIND SEL END TRANS
D-BS-RK08-0-10	B	1	READ
D-BS-RK08-0-11		1	WRITE
D-BS-RK08-0-12		1	DATA BUFFER
D-BS-RK08-0-13		1	DATA SHIFT REGISTER
D-BS-RK08-0-14	A	2	LONGITUDINAL PARITY
D-BS-RK08-0-15	A	1	STATUS REGISTER
D-BS-RK08-0-16		2	SECTOR ADDRESSING
D-BS-RK08-0-17	A	1	BIT AND BLOCK COUNTER
D-BS-RK08-0-18		1	WC REGISTER
D-BS-RK08-0-19		1	CURR ADDR AND EMA REG
D-BS-RK08-0-20		1	AC INPUT GATING 00-05
D-BS-RK08-0-21		1	AC INPUT GATING 06-11
D-BS-RK08-0-22		1	AC MB INVERTERS
D-BS-RK08-0-23		1	+3V CLAMPS
D-BS-RK08-0-24		1	CABLE TO RK01-X
D-BS-RK08-0-25		1	I/O AND DATA BREAK CABLES
D-BS-RK08-0-26		1	INDICATOR CABLES

REVISIONS				DRN.	DATE	digital	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
REV.	DATE	CHG. NO.	APP'D.	CHG'D.	DATE			
A	5/70	00001	W.M.	<i>J. Cahill</i>	3/20/70	TITLE DISK CONTROL RK08		
B	6/70	00004	J.M.	<i>J. Cahill</i>	3/25/70			
C	9/70	00005	J.M.	<i>J. Cahill</i>	4-10-70			
D	10/70	00006	J.M.	<i>J. Cahill</i>	4-10-70			
				PROJ. ENG.	DATE			
				PROD.	DATE			
				FIRST USED ON				
				A-ML-RK01-0	SIZE	CODE	NUMBER	REV.
				SCALE	A	ML	RK08-0	D
				SHEET	1	OF	1	DIST.



- NOTES:
- UNLESS OTHERWISE SPECIFIED ALL WIRE TO BE #14 AWG STRD, TEF INS.
 - FAN WIRES TO BE WITHIN TUBING SLEEVE.
 - WIRES FROM COMPUTER MAY BE 10 FT LG RED & WHITE TWISTED PAIR OR A LINE CORD SEE SYSTEM CONFIGURATION.
 - DELETE JUMPERS FOR 240/50
 - DELETE JUMPER BETWEEN TERMINAL 7 & 8 ON TB3 OF CMD PWR SUP FOR DISK DRIVE
 - MOVE HARNESS WIRE FROM TERMINAL 7 TO TERMINAL 8
 - ADD D662 DIODE (ITEM 54 ON A-PL-RK01-0-0) BETWEEN TERMINAL 6 & 7 AS SHOWN.
 - ADD WIRE AS SHOWN (RED #18 AWG) FROM TERMINAL 7 TO TERMINAL 12 OF H721 POWER SUPPLY
 - CHECK SOLDER LUG OF TERMINAL 7. IF A WIRE IS SOLDERED TO IT, IT MUST BE REMOVED AND SOLDERED TO THE LUG OF TERMINAL 8.



REV	DATE	BY	CHKD
1	10/11/70	J. A.	
2	10/11/70	E. REED	
3	10/11/70	J. A.	
4	10/11/70	J. A.	
5	10/11/70	J. A.	
6	10/11/70	J. A.	
7	10/11/70	J. A.	
8	10/11/70	J. A.	

PREPARED BY: RK01

DATE: 10/11/70

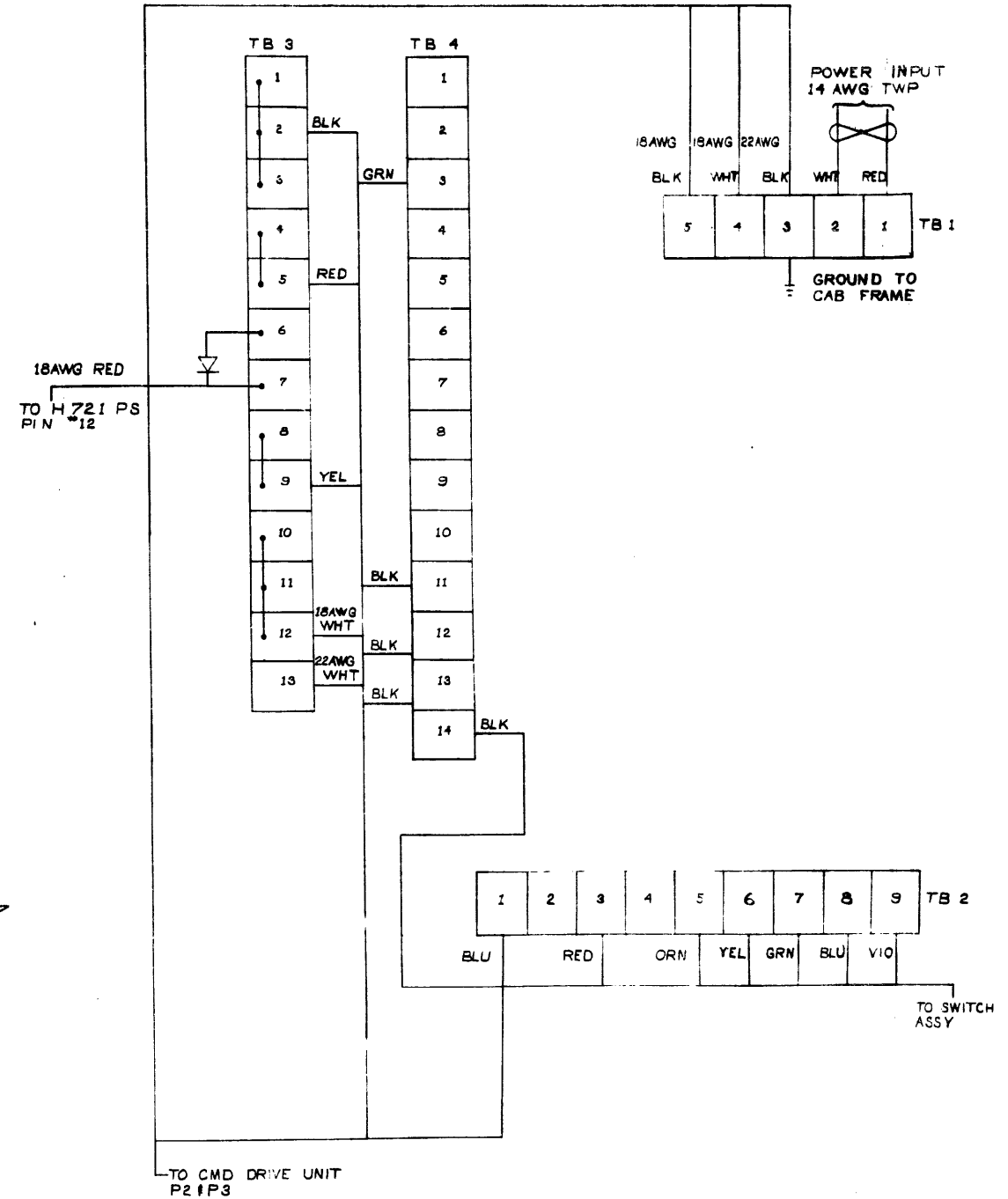
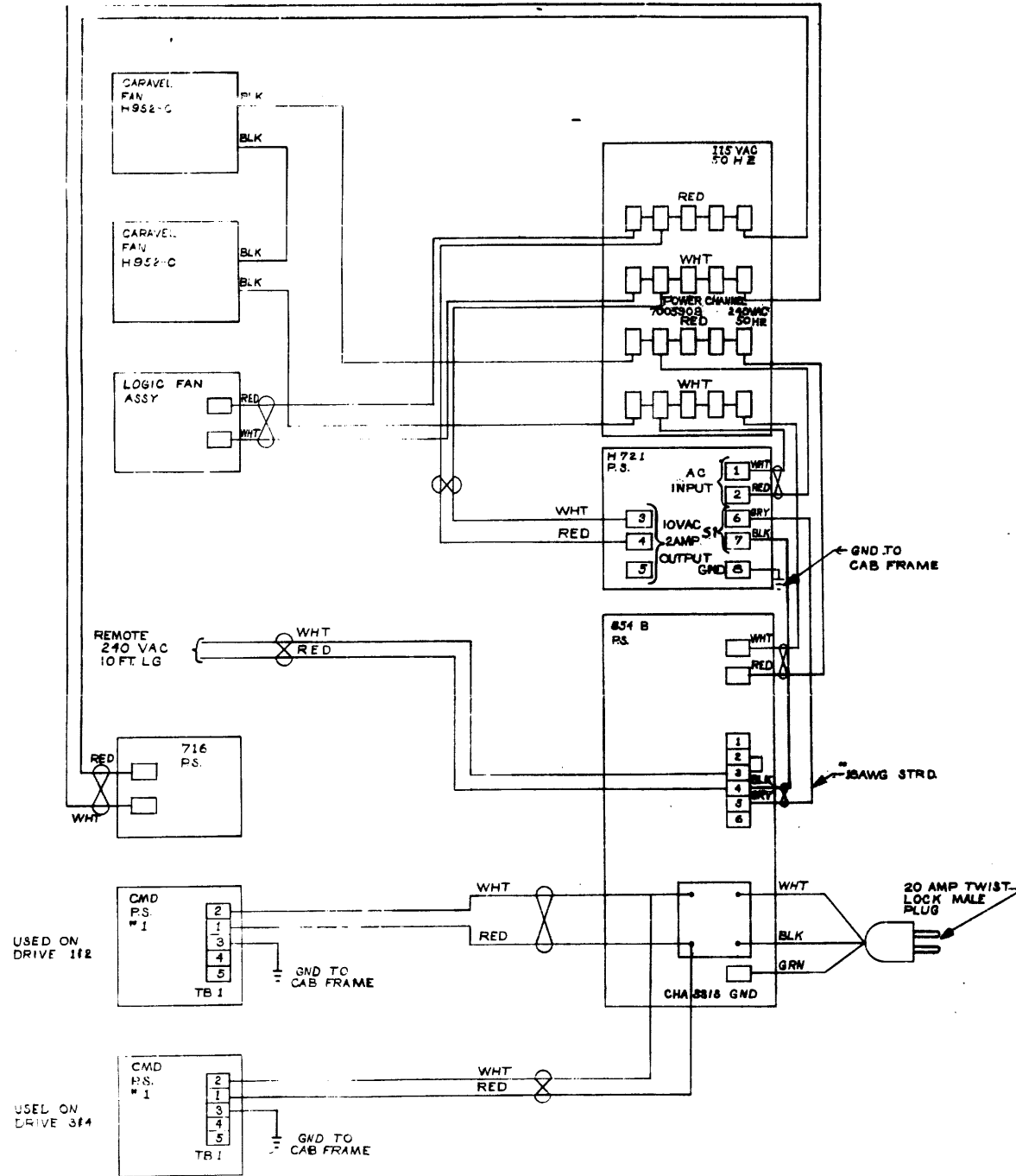
SCALE: NONE

SHEET: 1 OF 2

AC DC POWER WIRING

IC RK01-0-2

REV. 8



MILAN STRADDEN MINOR MILLER	EQUIPMENT INFORMATION AC DC POWER WIRING 61C-6-2
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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ACCESSORY LIST

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

MADE BY E. Reed CHECKED E. Reed SECTION
 DATE 6-23-70 DATE 6-23-70
 ENG E. Reed PROD B. Miller ISSUED SECT.
 DATE 6-23-70 DATE 6-23-70

QUANTITY / VARIATION

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION								KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE	
			All Systems	PDP-8 or Linc-8													
1	RK01-K	Disk Cartridge (one per drive)	A/R														
2	(no part no.)	Dectape head cleaning kit, 91% Isopropyl Alcohol	1														
3	(no part no.)	15-foot ground strap with sleeving	1														
4	BC08B/D-8	10-foot I/O cables (or length specified by customer)	5														
5	70-05820-4	9-foot I/O cable (Extended Memory systems)		1													
6	H952-A	Side panels	A/R	2													
7	74-06748	Front filler bar	A/R														
8	74-06749	Rear filler bar	A/R														
9	90-06374	1/4-20 X 1" socket head cap screw	A/R														
10	90-07880	1/4-20 Kep nut	A/R														
11	53-08754-2	Drive 0 Decal	A/R														
12	53-08754-4	Drive 1 Decal	A/R														
13	53-08754-6	Drive 2 Decal	A/R														
14	53-08754-8	Drive 3 Decal	A/R														

TITLE: RK8 Hardware
 ASSY. NO.:
 SIZE CODE: A AL
 NUMBER: RK01-A-3
 SHEET 1 OF 1
 REV. ECO NO
 DIST.

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				LEGEND		QUANTITY / VARIATION											
MADE BY E. Reed		CHECKED E. Reed		SECTION		All Systems						KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE
DATE 6-12-70		DATE 6-12-70		ISSUED SECT.													
ENG E. Reed		PROD B. Miller															
DATE 6-12-70		DATE 6-12-70															
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION															
"Technical Documents"																	
1	A-ML-RK01-X	RK01-X print set					1										
2	A-ML-RK08-0	RK08 print set					1										
3	DEC-P8-IRDA-D	RK8 Maintenance Manual					1										
4	(no number)	CMD Disk Drive Manual					1										
"Diagnostics"																	
5	Maindec-08-D5HA-PB	RK08 Disk Data Reliability - Binary tape					1										
6	Maindec-08-D5HA-D	RK08 Disk Data Reliability - Write-up					1										
7	Maindec-08-D5JA-PB	RK08 Instruction Test - Binary tape					1										
8	Maindec-08-D5JA-D	RK08 Instruction Test - Write-up					1										
9	Maindec-08-D5KA-PB	RK08 Disk Formatter - Binary tape					1										
10	Maindec-08-D5KA-D	RK08 Disk Formatter - Write-up					1										
TITLE RK8 Software Package				ASSY. NO.		SIZE CODE	NUMBER		REV.	ECO NO							
						A SL	RK01-0-4										
SHEET 1 OF 3						DIST.											

DEC FORM NO.
DRA 120

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			LEGEND		QUANTITY / VARIATION											
MADE BY DATE		CHECKED DATE	SECTION	D DOCUMENT	PDP-8, 8I, 8L Line-8, PDP-12										KIT CHECK BY _____ DATE _____	INSTALLATION CHECK BY _____ DATE _____
ENG DATE		PROD DATE	ISSUED SECT.	DN DOCUMENT CHANGE NOTICE												
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION														
		"Systems Programs"														
11	DEC-08-LBAA-RIM	Binary Loader	- RIM tape		1	1										
12	DEC-08-LBAA-D	Binary Loader	- Write-up		1	1										
13	DEC-P8-MSDA-PB	PS/8 RK8 System	- Binary tape		1	0										
14	DEC-P8-SWXA-PB	PS/8 Command Decoder	- "		1	0										
15	DEC-P8-PWXA-PB	PS/8 PIP	- "		1	0										
16	DEC-P8-ESAA-PB	PS/8 Editor	- "		1	0										
17	DEC-P8-ASXA-PB	PAL-8 Assembler	- "		1	0										
18	DEC-P8-KFXA-PB	PS/8 Fortran Compiler	- "		1	0										
19	DEC-P8-ARXA-PB	PS/8 SABR Assembler	- "		1	0										
20	DEC-P8-LLXA-PB	PS/8 Linking Loader	- "		1	0										
21	DEC-P8-SFXA-PB	PS/8 Fortran Library	- "		1	0										
22	DEC-P8-SYXA-PB	PS/8 Fortran Library Setup Program	- "		1	0										
23	DEC-P8-SUTA-PB	PS/8 Dectape Convert	- Binary tape		1	0										
24	DEC-12-SE2D-UO	LAP-6 DIAL Mass Storage	- Line Tape		0	1										
25	DEC-12-SE2D-D	LAP-6 DIAL Manual	- Write-up		0	1										
TITLE RK8 Software Package				ASSY. NO.	SIZE CODE A SL	NUMBER RK01-0-4			REV.	ECO NO						
SHEET 2 OF 3				DIST.												

DEC FORM NO.
DRA 120

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION					DATE 6/10/70	
TITLE Check Out Procedure						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG Al Czajowski	APPD <i>[Signature]</i>	SIZE A	CODE SP	NUMBER RK01-0-5	REV
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DEC FORM NO 107
DRA 107

ENGINEERING SPECIFICATION				0191101	CONTINUATION SHEET	
TITLE Check Out Procedure						
1-0 Test Configurations						
A	PDP 8I Neq Bus	←	5 BC08D-X Cables	→	RK01 RK08N	
B	PDP8I KA8I	←	5 BC08D-X	→	RK01 RK08P	
C	PDP 8L	<	5 BC08B-X	>	RK01 RK08P	
D	PDP12	←	5 BC08B-X	>	RK01 RK08P	
E	PDP8	←	1 70-05820-X 5 BC08D-X	→	RK01 RK08N	
F	LINC 8	←	1 70-05820-X 5 BC08D-X	→	RK01 RK08N	
1-1 The above Configurations will be 8 K systems for checkout and Acceptance Test.						
1-2 The DM01 or DM04 may be used as long as you stay within the same bus configuration.						
example: 8I neq. bus to DM01 to RK08N 8I with KA81 to DM04 to RK08P						
1-3 Check all paper work for incoming inspection and Quality Control stamp of approval.						

ENG	APPD	SIZE A	CODE SP	NUMBER RK01-0-5	REV
-----	------	------------------	------------	--------------------	-----

DEC FORM NO 16-1022
DRA 108

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE Check Out Procedure

2. Cable Table

Test Configurations A and B

Computer RK08

J1)-----A01
J2)

J3)-----A02
J4)

J5)-----A03
J6)

J7)-----A04
J8)

J9)-----A05
J10)

Test Configuration C

Computer RK08

D36 - A 01
D35 - A 02
D34 - A 03
C36 - A 04
C35 - A 05

Test Configuration D

Computer RK08

N14 - A01
N15 - A02
N16 - A03
N17 - A04
N18 - A05

Test Configuration E

Computer RK08

SIZE	CODE	NUMBER	REV
A	SP	RK01-0-5	

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE Check Out Procedure

ME34)-----A01
MF34)

ME35)-----A02
MF35)

PE2)-----A03
PF2)

PE3)-----A04
PF3)

PE4)-----A05
PF4)

ME30-----C05

Test Configuration F

Computer RK08

Computer RK08

ME34)-----A01
MF34)

ME30-----C05

ME35)-----A02
MF35)

PE2)-----A03
PF2)

PH4)-----A04
PJ4)

PH8)-----A05
PJ8)

3. Modules

3.1 Test Configuration A

1 set RK01X
1 set RK08N (see prints)

3.2 Test Configuration B or C or D

1 set RK01X

SIZE	CODE	NUMBER	REV
A	SP	RK01-0-5	

ENGINEERING SPECIFICATION



CONTINUATION SHEET

TITLE Check Out Procedure

- 1 set RK08P (see prints)
- 1 G717 to be placed in slot A or D 1

3.3 Test Configuration E or F

- 1 set RK01X
- 1 set RK08N
- 1 M938 to be placed in slot A4 or D4) not needed when used
- 1 M938 to be placed in slot A⁵ or D⁵) with DM01

4.0 Check all part list for all items

example: interconnection RK01X to RK08
 Cable 3 6" Flexprint W901 - W901 Dec #70-06111-1
 Disk Drive Logic cable Purchase part 12-09789
 Dec #70-06604 connects to the Drive Loc (CMD
 Disk Drive Electronic Module ASM) A1⁵ to the
 assigned Disk Drive number in RK01 F29 Disk 0,
 F30 Disk 1, F31 Disk 2, and F32 Disk 3.

5. Test Equipment

- 1 Oscilloscope Tektronix Type 453 or equivalent
- 2 Probes X10 Tektronix Type P6010 or equivalent
- 1 Computer
- 1 RK01 system
- 1 RK01 - K

Other Equipment that may be helpful but is not needed for
 this procedure will be found on incoming inspection check-
 out list. These tools will not be used without approval of
 the Supervisor of the Test Area, Quality Control and
 Engineer Support Engineers.

6. Software

- RK08 Instruction Test
Maindec -08-D5JA-D
- RK08 Disk Formatter
Maindec -08-D5KA-D
- RK08 Disk Data Reliability
Maindec -08-D5HA-D
- Binary Loader
Dec -08-LBAA

SIZE	CODE	NUMBER	REV
A	SP	RK01-0-5	

ENGINEERING SPECIFICATION



CONTINUATION SHEET

TITLE Check Out Procedure

7. Environmental Requirement

Heat Test 1 unit per month per Engineer Spec running Disc
 Data Acct'd mode for 1 hour at high end. (Note: watch
 room temp. per Engineering Specification).

8. Vibration Test is per QC specification #1022. Only the
 module is subject to this Test.

9.0 Testing

9.1 Set up configuration (Note: The RK01 must have a
 customer and a configuration assigned to it.)

9.2 Check cab fans for proper airflow according to the
 type of system assigned.

9.3 Check all modules for proper location, solder shorts,
 etc.

9.4 Check power (110V AC or 240V AC 50/60 hz
 + 5V + 6.5V -15V Grd and power control, etc.)

9.5 Read operating Procedures of Disk Memory Drive

9.6 Run RK08 Instruction Test. Follow the Program writeup.

9.7 Run RK08 Disk Formatter. Follow the Program writeup.

9.8 Run RK08 Disk Data Reliability Test for at least 1/2
 hour. Follow the Program writeup. (Note: this
 test may be started in the Accept mode but if trouble
 develops use other mode as explained in the writeup).

9.9 Step 9.7 and 9.8 must be repeated for other format step-
 ups.

9.10 Repeated 9.8 in the Accept mode for at least 1/2 hour
 complete passes on this mode.

9.11 Run the RK08 Disk Data Reliability Test as set forth
 by the Program writeup for the Acceptance Test with
 Customers Disk Pac.

SIZE	CODE	NUMBER	REV
A	SP	RK01-0-5	

TITLE Check Out Procedure

9.12 Certified par 9.11 and place all paper work together.

9.13 Sent to Field Service Assceptance a complete unit as per Configuration call for.

10. No svstem may leave checkout without going through all of the steps untested or partially tested for any reason.

11. The system will be delivery as a self supporting unit ready to be plugged into a computer with all software and accessorvs listed on print No. A-AL-RK01-0-3
A-SL-RK01-0-4

SIZE	CODE	NUMBER	REV
A	SP	RK01-0-5	

TITLE Disk Cartridge Memory - RK08/RK01

flange on the lower side of the cartridge. These nine slots are sensed by a photo diode and indicate the start of one of eight sectors. A ninth slot gives the information necessary to determine sector 0.

The cartridge is a single aluminum platter coated on both sides with magnetic oxide. It is permanently mounted inside a protective case that automatically opens when inserted in the disk drive. A magnetic material in the drive spindle assembly engages the bottom of the cartridge to couple the platter to the drive motor.

SIZE	CODE	NUMBER	REV
A	SP	RK01-0-6	

TITLE Disk Cartridge Memory - RK08/RK01

Specifications

Storage Capacity	Each RK01-K Cartridge stores 831,488 12 bit words.
Expansion	Four RK01 drives may be controlled by one RK08 control for 3,325,952 words total.
Transfer Path	Single cycle Data Break
Transfer Rate	16.7 us per word
Minimum Access Time	2.0 ms step plus 37 ms settle time.
(adjacent tracks)	
Average Access	133 ms including settle time.
Maximum Access	400 ms including settle time.
Latency Maximum	(1 revolution) 40 ms
Latency Average	(1/2 revolution) 20 ms
Program Interrupt	Transfer Done Flag
	Error Flag
Write Lock	Individual sectors or an entire drive can be write protected.
Data Tracks	200 Plus 3 spare
Words per Track	4096 (2048 on each of two surfaces)
Sectors	16

SIZE	CODE	NUMBER	REV
A	SP	RK01-0-6	

digital

CONTINUATION SHEET

TITLE

Words per Sector 256

Minimum Block Size 256

Maximum Block Size 4096

Recording Method Double Frequency-Time Plus Data

Density 704 bits/inch (outer track)
1026 bits/inch (inner track)

Speed 1500 rpm

Environmental Requirements:

- (a) Operating temperature (environment) +65°F to +90°F. 20°F per hour cycle rate.
- (b) Storage temperature (environment) +20°F to +165°F for a period of 6 months when packed for storage and shipment.
- (c) Operating humidity (environment) 20% to 80%, excluding all conditions which would cause moisture to condense in or on the equipment.
- (d) Storage and shipping humidity range; minimum 5%, maximum 95% up to 100°F. no condensation resulting in moisture on or in the equipment will be tolerable.

SIZE	CODE	NUMBER	REV
A	SP	RK01-0-6	

digital

CONTINUATION SHEET

TITLE

Heat Dissipation RK08 - 150 watts total
RK01 - 700 watts, 1000 watt surge per drive.

AC Power Requirements 115 ± 10 VAC, 60 Hertz ± ½ Hertz.

- (a) MTBF equal to or greater than 1000 hours of power on time (a failure is any function requiring unscheduled maintenance.)
- (b) Scheduled preventative maintenance - about 0.5 hrs. per 200 hours on time.
- (c) Recoverable Error Rate - one error per 10¹⁰ bits transferred (a recoverable error is defined as an error which disappears within 5 attempts to complete the operation.)
- (d) Unrecoverable Error Rate - less than one unrecoverable per 10¹² bits transferred (an unrecoverable error is defined as an error which persists after 5 attempts to complete the operation.)

SIZE	CODE	NUMBER	REV
A	SP	RK01-0-6	

CONTINUATION SHEET			
TITLE			
Cabinets	<p>Subsequent restoration of performance may require prescribed cleaning of heads and/or disk.)</p> <p>(e) Service Life - The device has been designed for a life of 5 years or 24,000 hours, whichever occurs first before factory overhaul or replacement is required.</p> <p>One cabinet will accomodate the RK08 and one RK01. A second cabinet will house two RK01 units. A third cabinet will house a fourth RK01.</p>		
	SIZE	CODE	NUMBER
	A	SP	RK01-0-6
			REV

CONTINUATION SHEET			
TITLE			
<p><u>Programming Sequence</u></p> <p>Transfers are through single cycle Data Break. A normal programming sequence is as follows:</p> <ol style="list-style-type: none"> 1. The word count and current address are placed in the word count and current address registers. 2. The command register is then loaded from the Accumulator. Normally, only the unit number, extended memory address, or seek mode would be changed. Status change in interrupt or rewriting of protect and status words would normally not take place. 3. The track, surface, and sector units are loaded from the accumulator and the instruction (read, write, check parity) is executed. 4. As desired, interrupts will occur when the instruction is complete or when there is an error. Errors will halt transfers. 			
	SIZE	CODE	NUMBER
	A	SP	RK01-0-6
			REV

TITLE

Format DescriptionGeneral

Each new cartridge is considered to be barren of useful data. Track and sector information must be written on the cartridge before it can be used by normal programs. The following describes the format of this information.

A cartridge surface is divided into 203 tracks. Each track is further divided into 16 parts called sectors; sectors 0 to 7 are on side zero of the cartridge and sectors 10 to 17 are on side 1 of the cartridge. Each individual sector, which contains enough area to store track and sector information plus 256 data words, can be addressed by the control. If a normal transfer is made starting from sector 0, 4096 data words can be transferred, 2048 words from side zero, and 2048 words from side one.

Transfer of data blocks that total more than the number of sectors from the starting sector to sector 17 is an error as indicated by the track capacity error flag.

Within a sector, the area is subdivided into a 2 word header region and a 256 word data region. The 2 word header contains track and sector information plus other data explained

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TITLE

later. The 256 word data region contains the data words, a 12 bit longitudinal parity and a 12 bit guard word which is nothing more than a convenient area to turn off write amplifiers. Other information written for synchronization etc. is described in the detailed description of the format.

Sector Detail

Each sector is written with an area of data zeroes (a preamble region), a data one for a synch bit, two 12 bit plus parity header words, another area of data zeroes (preamble before data) another data one for a synch bit, 256 12 bit data words, one 12 bit longitudinal parity, and a 12 bit postamble word. During a read, the preamble region allows circuits to synchronize on the time pulses without being disturbed by data ones. The first data one read after the preamble region signifies that the region immediately following contains information. Similarly, the preamble region following the header words and prior to the first data bit is used for synchronization on timing pulses. The first data one bit after this region of data zeroes signifies that data immediately follows.

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TITLE

Since the sector is split into the two areas of header and data, normal read or write data instructions can be carried out after reading and checking the two header words. The region between the header words and data is used to switch circuits from read to write when performing a normal write. Therefore during a normal write the two header words are read, checked by the control, the preamble region following is used to switch to write, and the 256 words of data (plus longitudinal parity and postamble word) are written. Note that the two header words are not read into the computer during a normal read or write.

Normal read or normal write instructions can be executed when bit 5 of the command register is zero. When this bit is a one and the sector protect switch is off, both the header words and the data region are available to the program as a 258 word data block. This enables a program to "format" the disk by writing the header words and reading them to ensure they were written correctly.

First Header Word - Usage During Normal Read or Write

The first header word is the track surface sector address, identical to the format of the address held in the computer

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accumulator when executing a read or write instruction. After being read, this first header word is compared to the track address registers of the control to ensure that the correct track is being accessed. The sector portion of this header word is compared with the sector address requested by program. If they are not equal, the control resets itself until the next sector. If they are equal, the transfer of 256 data words is completed. If another 256 data words are to be transferred (word count not equal to zero), one is added to the sector address requested by program and this new sector is found in the same manner as before.

Note that sectors are identified by data written by a program. Therefore, sector numbers do not have to be sequential but can be interleaved for maximum throughput.

Second Header Word - Usage During Normal Read or Write

The second header word when read during a normal read or write is checked as follows: a) If bit zero is equal to one AND the sector protect switch is on AND a normal write is requested, terminate transfer and raise write lock error flag. If these conditions are not true, continue transfer.

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TITLE

b) If any of bits one to five are a one, during a normal read or write, terminate transfer and set the sector no good flag. These bits are set to a one to indicate that the sector has a permanent flaw and cannot be reliably written or read.

c) Bits 6 to 11 are unused.

Special Note: The previously described functions of checking for correct track address, finding of sector numbers, checking of parity, write lock, sector no good bits, etc. are all performed automatically and require no intervention by the program when they are carried out.

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TITLE

Sector Sequence

The sequence of sectors accessed during read or write is determined by the formatting program. The simplest format should be used where large blocks of data are being transferred. 4096 words are transferred in 80 ms.

<u>Surface 0</u> Sector #	<u>Surface 1</u> Sector #
0	8
1	9
2	10
3	11
4	12
5	13
6	14
7	15

To allow milliseconds of calculations on data between transfers, without requiring one revolution before the next sector appears, the following format should be used:

<u>Surface 0</u> Sector #	<u>Surface 1</u> Sector #
0	8
3	11
6	14
1	9
4	12
7	15
2	10
5	13

This allows 10 ms between sectors. 4096 words are transferred in 240 ms. Other formats are possible.

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A	SP	RK01-0-6	

TITLE

Control Description

The control contains an up/down counter called the track address counter which keeps count of the track number. This counter holds the current location of the heads and is the active track register. Another register, the track address register, is loaded under program control from the accumulator. The control will step the up/down counter and the head positioner until the counter and track address register are equal.

After the control finds the correct track, the header of the first sector that appears under the read/write head is read. The track address portion of the header word is compared with the track address register. If they are not equal, the address error flag is raised and operation will be terminated.

Sector selection is performed by loading a register from the accumulator with sector number plus surface. The sector address portion of the header word is compared with the sector address register. If they are equal, a read or write operation continues. If they are not equal, consecutive sectors are read until the correct one is found. If after 56 revolutions the correct sector is not found, the time out error flag is set.

SIZE	CODE	NUMBER	REV
A	SP	RK01-0-6	

TITLE

Multidisk Operations

One extra feature has been added to aid the programmer in multidisk operations.

When a drive is first selected during a normal read or write (bit 5 of the command register must be zero) the control will read the track over which the drive heads are positioned. The information which is utilized is the first header word of any sector. This header word contains the track number over which the drive heads are positioned. This track number updates the track address counter and then the instructions, if any issued from the computer, are executed. This operation is necessary, only in multidisk operation and is performed so the program is not forced to calculate a drive's current track location and update the track address counter when switching from drive to drive.

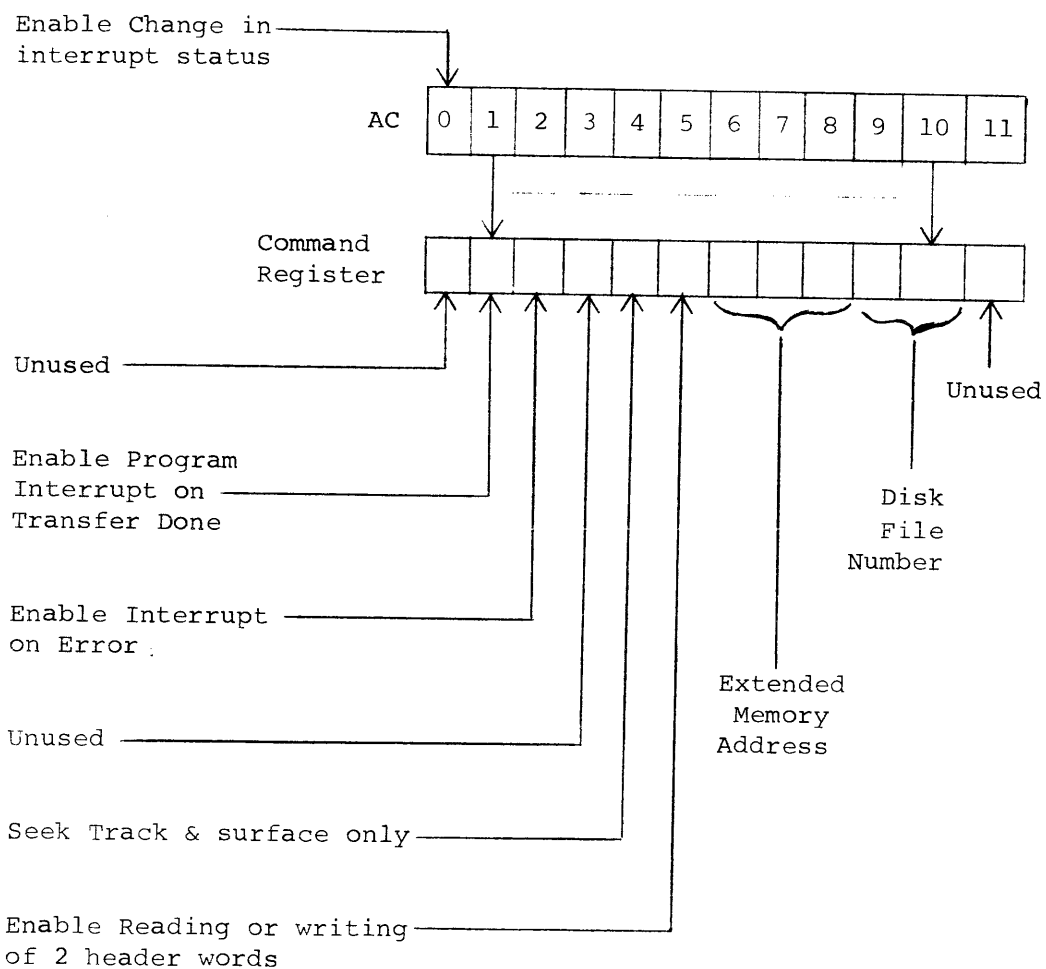
SIZE	CODE	NUMBER	REV
A	SP	RK01-0-6	

TITLE

Programming Instructions

Mnemonics Octal

DLDC 6732 Load Command Register
 Load the Command Register from the AC, clear AC



Logical "1" = Function true

SIZE A	CODE SP	NUMBER RK01-0-6	REV
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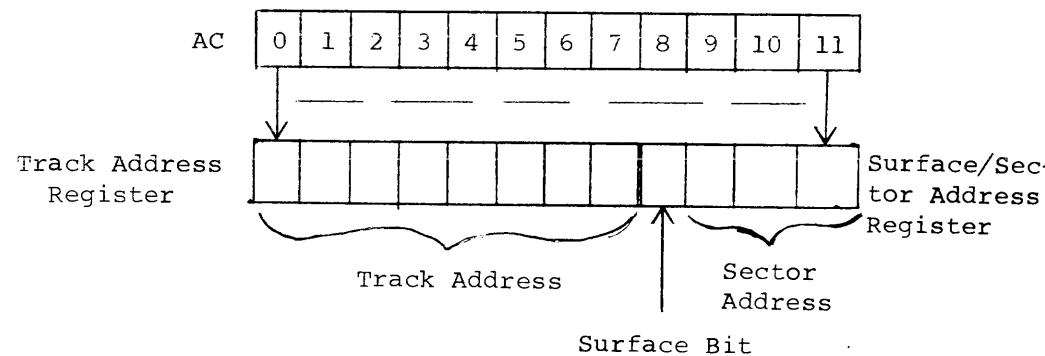
TITLE

Mnemonics Octal

*DLDR 6733 Load Disk address and Read
 Loads track, surface, and sector address from AC, then clears AC, Starts to Read data from disk if Command Register bit 4=0

*DLDW 6735 Load Disk address and Write
 Loads track, surface, and sector address from AC, then clear AC, Starts to write on disk if Command Register bit 4=0.

*DCHP 6737 Load disk address and Check Parity
 Loads track, surface, and sector address from AC, then clears AC. Reads data and checks Parity if Command Register bit 4=0.



DRDA 6734 Read Disk Address
 Clears AC and then reads Track Address Counter, and surface/sector counter into AC.

DRDC 6736 Read Disk Command register
 Clears AC then reads Command Register into the AC.

*If command register bit 4=1, instruction will be executed only to seek track and surface. These 3 instructions start all disk operations.

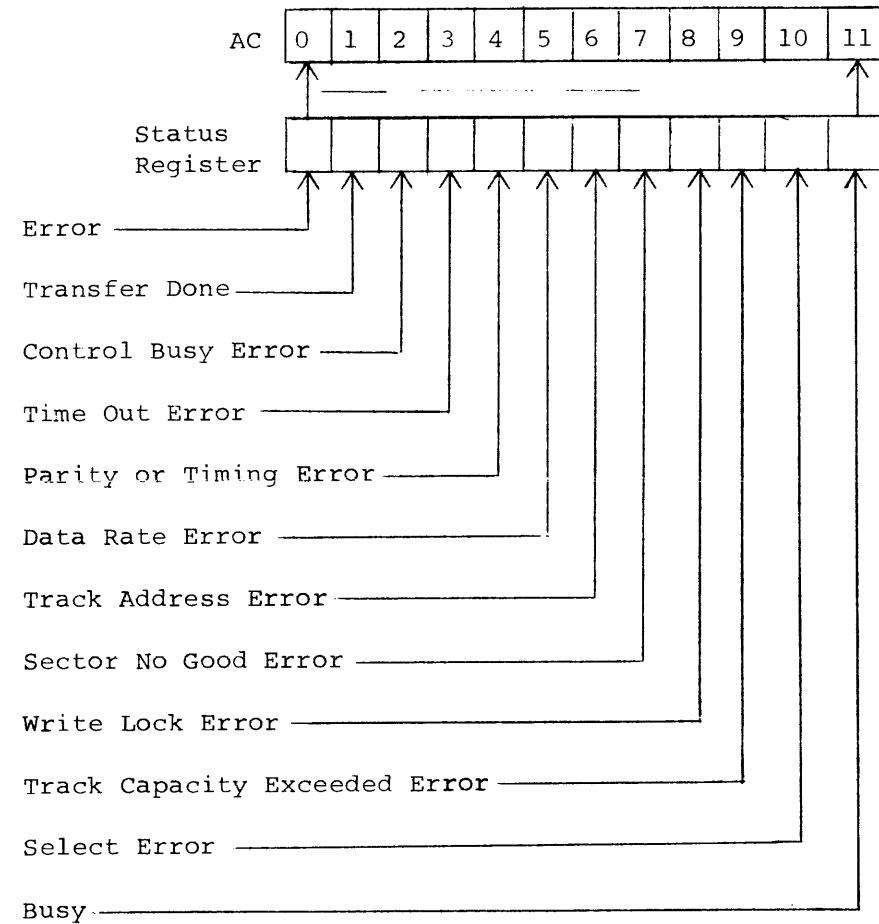
SIZE A	CODE SP	NUMBER RK01-0-6	REV
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TITLE

Mnemonics Octal

DRDS 6741 Read Disk Status Register

Clears the AC and then reads the Status Register into the AC.



Logical 1 = function true

DCLS 6742 Clear Status Register

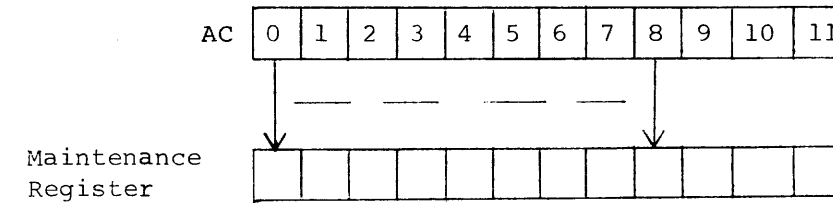
SIZE	CODE	NUMBER	REV
A	SP	RK01-0-6	

TITLE

Mnemonic Octal

DMNT 6743 Load Maintenance Register

Loads Maintenance register from AC, and carries out the operation specified. Bits will remain set until DMNT is issued with AC bits = 0.



Logical 1 = function true

AC Bit

- 0 Transfer contents of Track address Register to Track counter Register
- 1 Transfer Data Register to Serial Register
- 2 Transfer Serial Register to Data Register
- 3 Clear AC and Read Data Register into AC
- 4 Shift a "1" into the Serial Register
- 5 Shift a "0" into the Serial Register
- 6 Unformatted Disk
- 7 Sector Pulse
- 8 Index Pulse
- 9-11 Not used

DLDA 6731 Load Disk Address
(maintenance only)

SIZE	CODE	NUMBER	REV
A	SP	RK01-0-6	

TITLE		
Mnemonics	Octal	
DSKD	6745	Skip on transfer Done flag = 1
DSKE	6747	Skip on Error Flag = 1
DCLA	6751	Clear All Clears selected Disk to Track 000. Then clears all control registers and flags except Disk selection. Transfer done set when Disk positioned Track 000.
DRWC	6752	Read Word Count Register Clears AC; then reads the contents of the WC register into the AC.
DLWC	6753	Load Word Count Register Loads WC register from AC, then clears the AC
DLCA	6755	Load Current Address Register Loads CA register from AC; then clears the AC
DRCA	6757	Read Current Address Register Clears the AC; then reads the contents of the CA register into the AC.

SIZE A	CODE SP	NUMBER RK01-0-6	REV
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TITLE		
<u>Programming Instructions - Detailed Description</u>		
<u>DLDC - 6732</u>		
The command register is loaded from the AC. The AC is cleared.		
AC bit usage is as follows:		
AC Bits	0	This bit allows changes to the interrupt status if it is a "1". If it is "0", the interrupt status cannot be changed except by DCLA.
	1	If a "1" and bit 0 is a "1", set the enable gate to allow a program interrupt when the Transfer Done flag = "1". If a "0" and bit 0 is a "1", reset the enable gate.
	2	If a "1" and bit 0 is a "1", set the enable gate to allow a program interrupt when the error flag = 1. If a "0" and bit 0 is a "1", reset the enable gate.
	4	If a "1", seek the track specified in track address register, but do not start transfer. If a "0", seek the track, surface, sector and start the transfer.

SIZE A	CODE SP	NUMBER RK01-0-6	REV
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CONTINUATION SHEET

TITLE	
5	If a "1", the header is accessible to the programmer.
Read	The two header words plus data are read. The maximum number of words read is 258. The work count register determines the minimum number of words.
Write	The two header words plus data are written. The protect switch must be off. When the header words are changed data in that sector must also be rewritten. Maximum/minimum number of words is the same as in read. Since the protection bit is rewritten, formatting is also the method used to "sector protect" an area of the disk.
	Therefore, the program used to protect areas of the disk must be capable of formatting the disk and checking that the sector(s) of the disk does not have irregularities that will cause read errors.
6	Extended memory address 0.
7	Extended memory address 1.
8	Extended memory address 2.
9 & 10	00 = Disk 0 01 = Disk 1 10 = Disk 2 11 = Disk 3
11	Reserved for future twice density disks 0 = lower tracks, 1 = upper tracks.

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CONTINUATION SHEET

TITLE	
DLDR or DLDW or DCHP	Load track address, surface and sector address from accumulator. The control will execute the command register instructions. If track seek only has been selected, the Transfer Done flag will be set when the correct track is reached. The Transfer Done flag will also be set when transfer is complete.
DLDR - 6733	<u>Read</u> After the correct track, surface and sector number is found, (see write below) the control will read the second header word. Bit zero of this word is ignored. If any of bits 9-11 are set, the Sector No Good flag is set, and the read operation is terminated.
DLDW - 6735	<u>Write</u> The first word of the header is the track, surface and sector address. It is read by the control and compared with the selected address. If the track addresses differ, the Address Error flag is set and the write operation is terminated. If the two addresses are the same, the sector addresses are checked. If they are the same, the second header word is checked. If the sector addresses are not the same the next sector header is read. This continues until the correct sector is found.
	If bit zero of the second header word is a "1", and the sector protect switch is on, the sector is protected and the write lock error flag will be set and the transfer terminated immediately. If the bit is a "0" the rest of the header word is checked.

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digital CONTINUATION SHEET				
TITLE				
				If one of bits 1-5 of the second header word is a "1", the sector has a permanent error and the Sector No Good flag will be set. The writing operation will be terminated. Bits 6-11 are unused.
	6737			The specified sector of the disk is read for correct parity. The parity error flag will be set if there is an error, transfer will be terminated, the transfer done flag will be set.
DRDA	6734			Clear accumulator and read track, surface and sector counter into the accumulator. This is a dynamic register and is changing if a new track or surface has been selected. The sector counter changes every 5 milli-seconds. The program must read these counters twice and verify that the information is correct.
DCRCD	6736			Clear accumulator and read command register into accumulator.
DRDS	6741			Clear accumulator and read status register into accumulator.
		AC Bits		
	0			Error
				This flag is set when any error flags are set. Control operation ceases whenever the error flag is set, the transfer done flag is set to "1" and the busy flag to "0".
	1			Transfer Done - set whenever a control operation is terminated.
		SIZE	CODE	NUMBER
		A	SP	RK01-0-6
				REV

digital CONTINUATION SHEET				
TITLE				
	2			Control Busy Error - Disk IOT issued when control busy which would effect operation.
	3			Time Out Error - The control did not complete and operation after 2 seconds.
	4			Parity Error or Timing Bit Error. A bit in data, parity or timing has been picked up or dropped on read. The word count, current address information can be used to identify the error.
	5			Data Rate Error - The processor was busy and did not respond to a data break request within the 13 microseconds required.
	6			Track Address Error - Track, surface or sector address read from the disk did not agree with the address count registers.
	7			Sector No Good - The program attempted to read or write data on a sector whose header words indicated a bad sector.
	8			Write Lock Error - The program attempted to write a section that was write protected.
	9			Track Capacity Exceeded Error - The program attempted to read or write beyond sector 15.
	10			Select Error - Non existant drive error position error or drive. Not ready error.
		SIZE	CODE	NUMBER
		A	SP	RK01-0-6
				REV

TITLE

11 Busy = 1 - This flag is in the one state when the control is busy. When it goes to the zero state, the transfer done flag will be set.

DMNT 6743 AC bit 0-5, 7-8 are self-explanatory.

Bit 6 Writes a block of memory specified by word count and current address without formats. Writing starts immediately after the sector mark and continues until the word count overflows. Two extra words are written at the beginning of the block of information. These words are the contents of the data register prior to initiating write.

A read operation reads all data after a sector mark until the word count overflows.

This ability to read or write any format gives some degree of interchangeability between drives using different format. With bit 6 = 1, the format written is generated by program. Any format can be read and decoded if one knows the format that was read.

DLDA, DCLS, DCLA, DSKD, DSKT, DSKB, DRWE, DLWC, DLCA, DRCA are self-explanatory.

SIZE	CODE	NUMBER	REV
A	SP	RK01-0-6	

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION					DATE	
TITLE RK08 Acceptance Procedure						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG	Fran Souva	APPD	<i>[Signature]</i>	SIZE	A	CODE	SP-	NUMBER	REV
RK01-0-7									

DEC FORM NO. DRA 107

digital CONTINUATION SHEET																												
TITLE RK08 Acceptance Procedure																												
<p>1) The disk must have passed 12 continuous hours of the acceptance mode of the data reliability diagnostic with not more than one (1) recoverable error on each pass of the test. The machine must be accepted on either the computer it is being shipped on or the same type of computer that it will be added on to.</p> <p>2) Insert the customer disk cartridge and allow 15 minutes warm-up time to allow the environmental temperature between the cartridge and the drive to balance each other.</p> <p>3) Check the unformatted mode of the RK08 with the instruction test. Until this test is available, however, an intermediate test has been written to check this mode of operation. Run this test three times. Each time change the data being written by changing location 0025 of memory to the desired data. Run all drives. Change selected drive by changing the desired drive cable to D01.</p> <p style="padding-left: 40px;">With the unformatted modes on the drive(s), run the following data reliability patterns:</p> <table style="margin-left: 80px; border: none;"> <tr> <td style="padding: 0 10px;"><u>TST</u></td> <td style="padding: 0 10px;"><u>PAT</u></td> <td style="padding: 0 10px;"><u>DLS</u></td> <td style="padding: 0 10px;"><u>SEQ</u></td> </tr> <tr> <td style="padding: 0 10px;">3</td> <td style="padding: 0 10px;">6</td> <td style="padding: 0 10px;">3</td> <td style="padding: 0 10px;">0</td> </tr> </table> <p>4) Check the sector lock-out switch by changing location 0051 to 4000 and pressing the sector lock-out switch. An error should occur and the program should halt at location 0001 with bit 08 of the status set.</p> <p style="padding-left: 40px;">NOTE: Location 0051 should be changed back to zero and the unformatted mode program rerun to insure the correct data being in the second header word.</p> <p>5) Load the formatter program into the computer. Write any desired sector order other than the normal incremental one. Do this to each drive on the system using a different customer cartridge in each drive. Load the data reliability test and call in the test mode of operation. Select all drives and run the following test patterns:</p> <table style="margin-left: 80px; border: none;"> <tr> <td style="padding: 0 10px;"><u>TST</u></td> <td style="padding: 0 10px;"><u>PAT</u></td> <td style="padding: 0 10px;"><u>DLS</u></td> <td style="padding: 0 10px;"><u>SEQ</u></td> </tr> <tr> <td style="padding: 0 10px;">1</td> <td style="padding: 0 10px;">4</td> <td style="padding: 0 10px;">2</td> <td style="padding: 0 10px;">0</td> </tr> <tr> <td style="padding: 0 10px;">6</td> <td style="padding: 0 10px;">4</td> <td style="padding: 0 10px;">2</td> <td style="padding: 0 10px;">1</td> </tr> <tr> <td style="padding: 0 10px;">3</td> <td style="padding: 0 10px;">6</td> <td style="padding: 0 10px;">3</td> <td style="padding: 0 10px;">1</td> </tr> </table> <p style="padding-left: 40px;">Completion should occur with no errors. Reformat all cartridges with the normal incremental sectors.</p> <p>6) Load the data reliability test into the computer. Go to the test mode and select all the drives that are on the system then type in</p>					<u>TST</u>	<u>PAT</u>	<u>DLS</u>	<u>SEQ</u>	3	6	3	0	<u>TST</u>	<u>PAT</u>	<u>DLS</u>	<u>SEQ</u>	1	4	2	0	6	4	2	1	3	6	3	1
<u>TST</u>	<u>PAT</u>	<u>DLS</u>	<u>SEQ</u>																									
3	6	3	0																									
<u>TST</u>	<u>PAT</u>	<u>DLS</u>	<u>SEQ</u>																									
1	4	2	0																									
6	4	2	1																									
3	6	3	1																									
SIZE	A	CODE	SP	NUMBER	REV																							
RK01-0-7																												

DEC FORM NO. DRA 109A

TITLE RK08 Acceptance Procedure

the following test patterns:

TST	PAT	DLS	SEQ
1	4	2	∅
6	4	2	1
3	6	3	1
4	3	1	∅
5	3	1	1
3	9	3	1
3	7	2	1
4	9	2	∅
5	9	1	∅
4	9	3	∅
5	9	1	1
2	8	1	∅
6	8	1	1
3	5	3	1
3	9	1	∅
2	3	1	∅
6	3	1	∅
5	3	2	1
∅	1	1	∅
/	1	1	1
3	7	2	1
∅	∅	1	∅
7	∅	1	1
3	∅	∅	1
3	1	∅	1
3	3	1	1
3	4	1	1
3	5	2	1
3	6	2	1
3	7	3	1
3	9	3	1

NOTE: Be sure that the patterns are in correctly. A typing error may cause an erroneous print out. Three pass complete type outs are necessary for this test to be accepted.

7) This test is to check for a power failure destroying data. Call the "Test" mode of data reliability: Select all the units on the system and run this pattern:

TST	PAT	DLS	SEQ
3	1	1	∅

SIZE	CODE	NUMBER	REV
A	SP	RK01-0-7	

TITLE RK08 Acceptance Procedure

When the pass complete type out occurs stop the program and restart the test. Select the test mode again and one of the drives on the system. Call in the following pattern:

TST	PAT	DLS	SEQ
6	1	1	∅

While this is running, throw the selected drive "start-stop" switch to stop. Ignore the program type out and stop the computer when the drive becomes safe restart the drive by flipping the switch to start. When the drive is up to speed (indicated by the selection switch being on) restart the program and select the same unit and pattern:

TST	PAT	DLS	SEQ
6	1	1	∅

Test the simulated power failure on each of the remaining drives on the system.

8) Check the write lock-out switches in the following manner. Call up the following test pattern from the test mode of the data reliability diagnostic:

TST	PAT	DLS	SEQ
4	∅	∅	∅

While this is running, hit any lock-out switch that pertains to a drive on the system. An error type out should occur. Inspect the type out to be sure that the drive that failed corresponds with the switch that was hit. Repeat the test on all the drives on the system.

9) There must be complete compatibility between all RK08 disk drives. Acceptance for this is run by formatting a customer cartridge on a drive not associated with the system being accepted and running the "accept" mode of the data reliability diagnostic for twenty (20) minutes on each drive on the system.

10) The final acceptance test is to run the system software for the type computer that the disk is on; PDP-8, 8I, 8L must run PS-8 software; PDP-12 must run LAP-6 Dial Mass Storage.

11) Special hardware to go with the RK08 system: All items listed on A-AL-RK01-0-3.

12) Software to go with the RK08 System and 8K of memory: All items listed on A-SL-RK01-0-4.

SIZE	CODE	NUMBER	REV
A	SP	RK01-0-7	