MR

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-1115Ø-Ø-1	FIELD MAINT. PRINT SET
E-UA-1115Ø-Ø-Ø	PROGRAMMABLE DATA TERMINAL
B-PL-1115Ø-Ø-Ø	PROGRAMMABLE DATA TERMINAL (PL)
E-UA-7013077-0-0	FLEXIBLE DISK DRIVE
B-PL-7013077-0-0	FLEXIBLE DISK DRIVE (PL)
D-AD-7015986-0-0	REAR PANEL ASSY
B-PL-7015986-0-0	REAR PANEL ASSY
E-UA-RXTØ1-Ø-Ø	ADDITIONAL FLOPPY DRIVE
B-PL-RXTØ1-Ø-Ø	ADDITIONAL FLOPPY DRIVE (PL)
MPØØ686	FIELD MAINT. PRINT SET (DFT11)
MPØØ685	FIELD MAINT. PRINT SET (DLT11)
MPØØ653	FIELD MAINT. PRINT SET (MST11)
MPØØ688	FIELD MAINT. PRINT SET (RXT11)
MPØØ687	FIELD MAINT. PRINT SET (KDT11)
D-AD-7016464-0-0	LOOPBACK CONNECTOR
E-UA-5413343-0-0	H7833 POWER SUPPLY BOARD (ASSY)
K-PL-5413343-Ø-DBP	H7833 POWER SUPPLY BOARD (PARTS LIST)
D-CS-5413343-0-1	H7833 POWER SUPPLY BOARD (SCHEM)

UNIT VARIATIONS COVERED BY THIS PRINT SET
1115Ø-AA
1115Ø-AB
1115Ø-AC
1115Ø-AD
1115Ø-AE
1115Ø-AF
1115Ø-AH
1115Ø-AJ
1115Ø-BA
1115Ø-BB
1115Ø-BC
1115Ø-BD
1115Ø-BE
1115Ø-BF
1115Ø-BH
1115Ø-BJ
1115Ø-CA
1115Ø-CB
1115Ø-CC
1115Ø-CD
1115Ø-CE
1115Ø-CF
1115Ø-CH
1115Ø-CJ
1115Ø-FH
1115Ø-FJ
1115Ø-EE
1115Ø-EF

1115Ø

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO:MPØØ72Ø

REV. B

SIZE B | CODE TC | NUMBER 1115Ø-Ø-1

REVISIONS			
REV	A	B	
CHG. NO.	PDT11/15Ø-MR002	PDT11/15Ø MR007	
DATE	9 MAR 78	23OCT78	

USED ON OPTION/MODEL	
1115Ø	

SHEET 1 OF 1

DRN.	M. Pascarelli	DATE 23OCT78
CHK'D	[signature]	DATE 23OCT78
PROJ. ENG.	J. Cyr	DATE 23OCT78
FIELD SERV	G. Nealand	DATE 23OCT78

digital

TITLE: PROGRAMMABLE DATA TERMINAL

SIZE	CODE	NUMBER	REV.
B	TC	1115Ø-Ø-1	B

DIST.

DRB 124

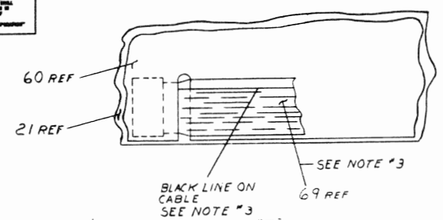
MR

LEGEND	
NUMBER	VARIATION
11150-AA	8K 120V 60HZ
11150-AB	8K 240V 50HZ
11150-AC	8K 120V 60HZ W/DFT11-AB
11150-AD	8K 240V 50HZ W/DFT11-AB
11150-AE	8K 120V 60HZ W/RXTØ1-AA
11150-AF	8K 240V 50HZ W/RXTØ1-AC
11150-AH	8K 120V 60HZ W/RXTØ1-AA & DFT11-AB
11150-AJ	8K 240V 50HZ W/RXTØ1-AC & DFT11-AB
11150-BA	16K 120V 60HZ
11150-BB	16K 240V 50HZ
11150-BC	16K 120V 60-HZ W/DFT11-AB
11150-BD	16K 240V 50-HZ W/DFT11-AB
11150-EE	16K 120V 60HZ W/RXTØ1-AA & EIS/FIS
11150-EF	16K 240V 50-HZ W/RXTØ1-AC & EIS/FIS

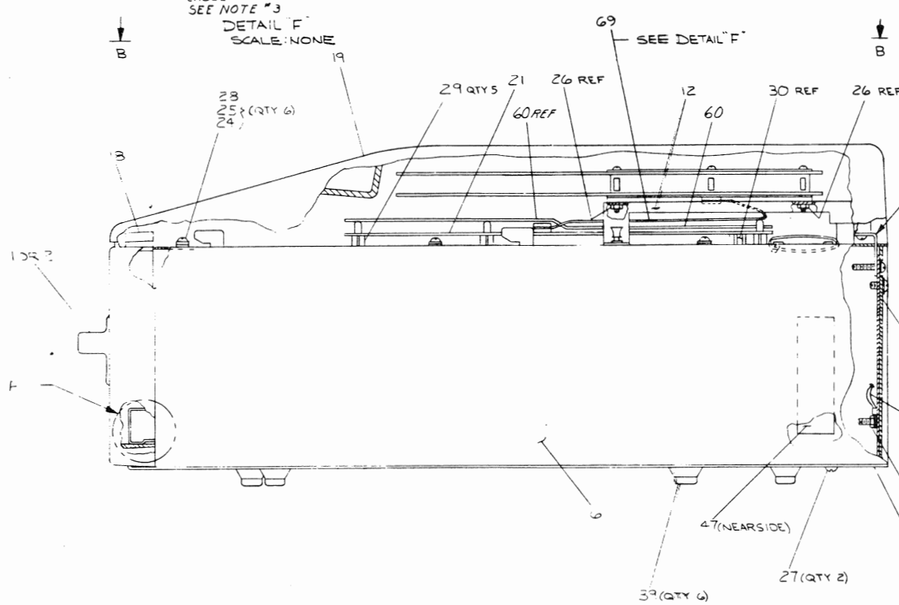
LEGEND	
NUMBER	VARIATION
11150-BE	16K 120V 60HZ W/RXTØ1-AA
11150-BF	16K 240V 50HZ W/RXTØ1-AC
11150-BH	16K 120V 60HZ W/RXTØ1-AA & DFT11-AB
11150-BJ	16K 240V 50HZ W/RXTØ1-AC & DFT11-AB
11150-CA	30K 120V 60HZ
11150-CB	30K 240V 50HZ
11150-CC	30K 120V 60HZ W/DFT11-AB
11150-CD	30K 240V 50HZ W/DFT11-AB
11150-CE	30K 120V 60HZ W/RXTØ1-AA
11150-CF	30K 240V 50HZ W/RXTØ1-AC
11150-CH	30K 120V 60HZ W/RXTØ1-AA & DFT11-AB
11150-CJ	30K 240V 50HZ W/RXTØ1-AC & DFT11-AB
11150-FH	30K 120V 60HZ W/RXTØ1-AA, DFT11-AB & EIS/FIS
11150-FJ	30K 240V 50HZ W/RXTØ1-AC, DFT11-AB & EIS/FIS

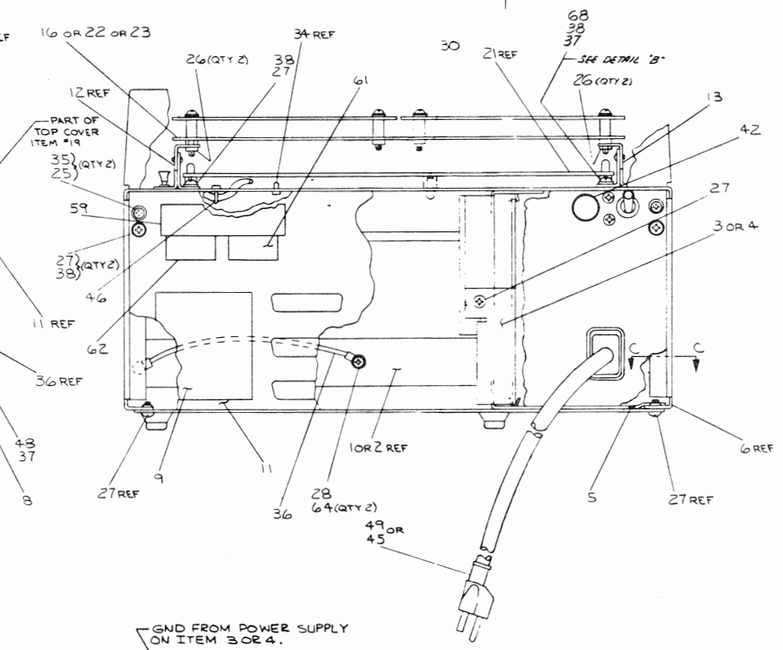
NOTES:

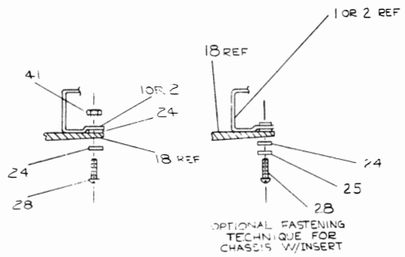
1. DFT11 (ITEM #51) AND RXTØ1 (ITEM #53 OR 54) ARE NOT SHOWN. FOR ASSEMBLY OF THESE ITEMS SEE: D-AR-DFT11-Ø-4 AND E-UA-RXTØ1-Ø-Ø.
2. ON UNITS WITH REV 'B' OR EARLIER DRIVE HOUSING (ITEM 6) THERE MAY BE INTERFERANCE BETWEEN SNAP BUSHING (ITEM 32) & FLOPPY DRIVE (ITEM 1 OR 2). ON THESE UNITS REVERSE DIRECTION OF SNAP BUSHING BY INSTALLING FROM THE BOTTOM.
3. THE BLACK LINE ON THE CABLE INDICATES THE GROUND WIRE THAT SHOULD CONNECT TO PIN 9 OF BOTH IC SOCKETS. LAY THE CABLE IN FLAT AS SHOWN WITH NO TWISTS. THE RIBBED SIDE OF THE CABLE SHOULD FACE UP WHEN LOOKING DOWN ON THE SHIELD AND FLOPPY CONTROLLER.
4. *DO NOT IMPLEMENT ECO NO 11150-M0010 INTO SYSTEMS WITH SERIAL NO. 29,999 OR LESS.*



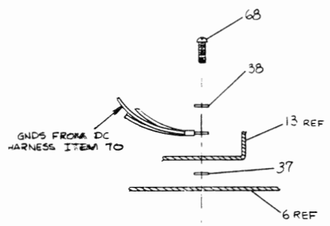
DETAIL "F"
SCALE: NONE



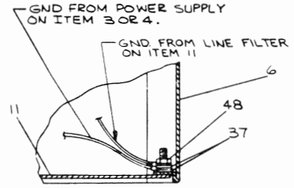




DETAIL "A"
SCALE: NONE
2 PLACES



DETAIL "B"
SCALE: NONE



SECTION C-C
SCALE: 1/1

CAUTION:
OFF SHEET PARTS LIST EXISTS.
SEE K-PL-11150-Ø-DBP.

REVISIONS		
CHG	CHANGE NO.	REV.
24	P011058 SHEET 2	A
		B
		C
		D
		E
		F

DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
MATERIAL	CLASS OF TOLERANCE	MACHINED FINISH NUMBER MICHES
SURFACE QUALITY	DECIMALS	.X .XX .XXX .XXXX
QUANTITY & VARIATION	MEDIUM	1.000 1.000 ±.010 ±.010
MICROINCHES	PREFERRED	1.000 1.000 1.00 ±.005

THIRD ANGLE PROJECTION

WEIGHT SHOWN AND BRAKE SHARP CORNERS

DO NOT SCALE DWG.

DRN		
CHK'D		
ENG		
PROJ. ENG.		
PROD.		
NEXT HIGHER ASSY.		

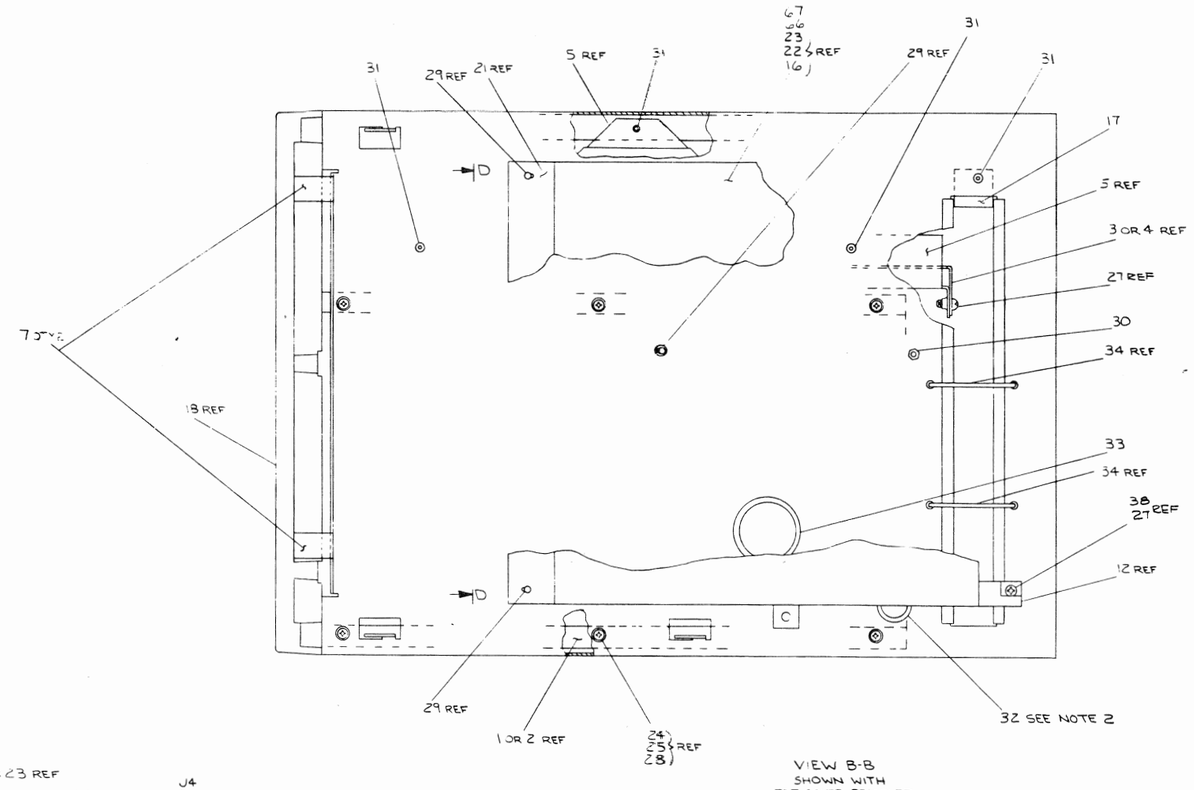
FIRST USED ON: 11150

TITLE: TERMINAL, PROGRAMMABLE DATA

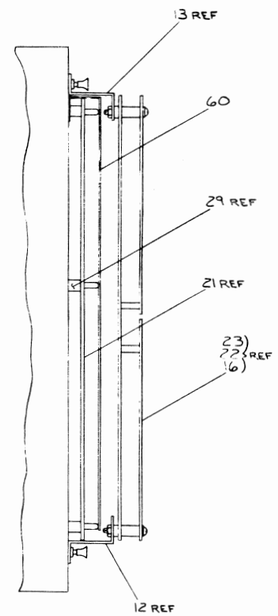
MATERIAL	SIZE	CODE	NUMBER	REV.
SEE PARTS LIST	E	UA	11150-Ø-Ø	F
FINISH: NONE	SCALE 1/1		DIST	
	SHEET 1 OF 2			

ML3

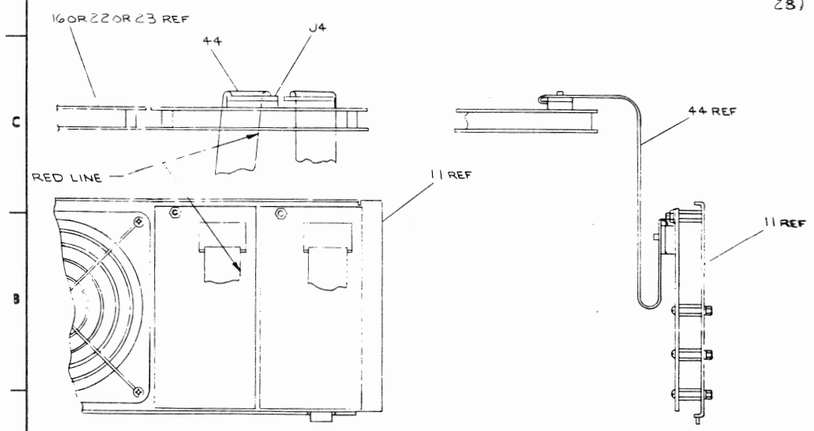
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VIEW B-B
SHOWN WITH
TOP COVER REMOVED



VIEW "D-D"



DETAIL "E"
SHOWN FOR CABLE
ROUTING

HARNESS CONNECTION CHART		
ITEM NO	FROM CONNECTION	TO CONNECTION
70	P2	RXTII MODULE (ITEM 21)
	P1	TIM GROUP ASSY (ITEM 16, 22 OR 23)
	P3	POWER SUPPLY (ITEM 3 OR 4)
14 OR 65	P1	REAR PANEL (ITEM 11)
	J1	FLEXIBLE DISK DRIVE (ITEM 1 OR 2)
	J2	ADDITIONAL FLOPPY DRIVE (RXTØI) (ITEM 53 OR 54)
44	SEE DETAIL "E"	TIM GROUP/J4 (ITEM 16, 22 OR 23
	SEE DETAIL "E"	REAR PANEL (ITEM 11)
69	SEE FRONT VIEW	TIM GROUP/J5 (ITEM 16, 22 OR 23)
	SEE FRONT VIEW	RXTII MODULE/J1 (ITEM 21)
1 OR 2	P6	RXTII/DOP6 (ITEM 21)
	P7	RXTII/DOP7 (ITEM 21)
	P5	RXTII/DOP5 (ITEM 21)
	P4	RXTII/DOP4 (ITEM 21)
	P3	RXTII/DOP3 (ITEM 21)
3 OR 4	POWER SUPPLY	REAR PANEL (ITEM 11)
53 OR 54	RXTØI/P5	RXTII/DIP5 (ITEM 21)
	RXTØI/P6	RXTII/DIP6 (ITEM 21)
	RXTØI/P7	RXTII/DIP7 (ITEM 21)
	RXTØI/P3	RXTII/DIP3 (ITEM 21)
	RXTØI/P4	RXTII/DIP4 (ITEM 21)
70		SEE DETAIL "B"
65	J3	POWER SUPPLY (ITEM 4)
3 OR 4	POWER SUPPLY	SEE SECTION C-C

REVISIONS		
ONE	CHANGE NO.	REV.

TITLE TERMINAL PROGRAMMABLE DATA
SCALE: 1/1 SHEET 2 OF 2
SIZE E NUMBER NA 11150-0-0 REV F
DIST
NEXT ASSY 11150-0-0 F
NEXT B
MLZ

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Pascarella DATE 28 JUN 78
CHECKED [illegible] DATE 19 Oct 78
SECTION 1
ENG [illegible] DATE 20 OCT 78
PROD J.D. Miller DATE 20 Oct 78
ISSUED SECTION 3

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION												NOTES: / REF DESIGNATION
				1115Ø-AA	1115Ø-AB	1115Ø-AC	1115Ø-AD	1115Ø-AE	1115Ø-AF	1115Ø-AH	1115Ø-AJ	1115Ø-BA	1115Ø-BB	1115Ø-BC	1115Ø-BD	
1	E-UA-7013077-0-0	7013077-02	DRIVE, FLEXIBLE DISK	1	-	-	-	-	-	-	-	1	-	-	-	
2	E-UA-7013077-0-0	7013077-03	DRIVE, FLEXIBLE DISK	-	1	-	-	-	-	-	-	-	1	-	-	
3	D-AD-7015983-0-0	7015983-00	ASSY, POWER SUPPLY	1	-	-	-	-	-	-	-	1	-	-	-	
4	D-AD-7015983-0-0	7015983-01	ASSY, POWER SUPPLY	-	1	-	-	-	-	-	-	-	1	-	-	
5	D-MD-7420982-0-0	7420982-00	HOUSING, POWER SUPPLY	1	1	-	-	-	-	-	-	1	1	-	-	
6	E-MD-7420984-0-0	7420984-00	HOUSING, DRIVE	1	1	-	-	-	-	-	-	1	1	-	-	
7	B-MD-7422151-0-0	7422151-00	BEZEL, CLIP RETAINER	2	2	-	-	-	-	-	-	2	2	-	-	
8	D-MD-7421086-0-0	7421086-00	PANEL, BOTTOM	1	1	-	-	-	-	-	-	1	1	-	-	
9	B-MD-7420977-0-0	7420977-00	PLATE, PLUG COVER	1	1	-	-	-	-	-	-	1	1	-	-	
10	D-IA-7015953-0-0	7015953-00	HARNESS, D.C.	1	1	-	-	-	-	-	-	1	1	-	-	
11	D-AD-7015986-0-0	7015986-00	ASSY, REAR PANEL	1	1	-	-	-	-	-	-	1	1	-	-	
12	D-IA-7015970-0-0	7015970-00	ASSY, MODULE HINGE	1	1	-	-	-	-	-	-	1	1	-	-	
13	D-IA-7015970-0-0	7015970-01	ASSY, MODULE HINGE	1	1	-	-	-	-	-	-	1	1	-	-	
14	D-IA-7015956-0-0	7015956-00	HARNESS, A.C. INPUT SPINDLES	1	-	-	-	-	-	-	-	1	-	-	-	
15	B-IA-7016036-0-0	7016036-03	ASSY, JUMPER	1	1	-	-	-	-	-	-	1	1	-	-	
16	D-AD-7015976-0-0	7015976-00	ASSY, TIM GROUP (8K)	1	1	-	-	-	-	-	-	-	-	-	-	
17	B-MD-7421547-0-0	7421547-00	INSERT, SWITCH GUARD	1	1	-	-	-	-	-	-	1	1	-	-	
18		1215475-00	BEZEL, FRONT	1	1	-	-	-	-	-	-	1	1	-	-	
19	D-AD-7015974-0-0	7015974-00	ASSY, TOP COVER	1	1	-	-	-	-	-	-	1	1	-	-	
~~20~~		~~9006013-01~~	~~SCR, PHL PAN HD #4-40 X .75~~	~~2~~	~~2~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~2~~	~~2~~	~~-~~	~~-~~	
21	B-PL-RXT11-Ø-Ø	RXT11-Ø	CONTROLLER, FLOPPY	1	1	-	-	-	-	-	-	1	1	-	-	

E.C.O. NO.: PDT11/150 MR002; PDT11/150 MR004; PDT11/150 MR006; PDT11/150 MR008; PDT11/150 ML009

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TITLE: TERMINAL, PROGRAMMABLE DATA

ASSY NO.: E-UA-1115Ø-Ø-Ø

SIZE: B | CODE: PL | NUMBER: 1115Ø-Ø-Ø | REV.: E

INSERTION PARTS LIST DATA BASE REV

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Pascarella DATE 28 JUN 78 | CHECKED J Lavoie DATE 19 OCT 78 | SECTION 2
ENG D. Dempsey DATE 20 OCT 78 | PROD J Muller DATE 20 Oct 78 | ISSUED SECTION 3

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION												NOTES:
				1115Ø-BE	1115Ø-BF	1115Ø-BH	1115Ø-BJ	1115Ø-CA	1115Ø-CB	1115Ø-CC	1115Ø-CD	1115Ø-CE	1115Ø-CF	1115Ø-CH	1115Ø-CJ	REF DESIGNATION
1	E-UA-7013077-0-0	7013077-02	DRIVE, FLEXIBLE DISK	-	-	-	-	1	-	-	-	-	-	-	-	
2	E-UA-7013077-0-0	7013077-03	DRIVE, FLEXIBLE DISK	-	-	-	-	-	1	-	-	-	-	-	-	
3	D-AD-7015983-0-0	7015983-00	ASSY, POWER SUPPLY	-	-	-	-	1	-	-	-	-	-	-	-	
4	D-AD-7015983-0-0	7015983-01	ASSY, POWER SUPPLY	-	-	-	-	-	1	-	-	-	-	-	-	
5	D-MD-7420982-0-0	7420982-00	HOUSING, POWER SUPPLY	-	-	-	-	1	1	-	-	-	-	-	-	
6	E-MD-7420984-0-0	7420984-00	HOUSING, DRIVE	-	-	-	-	1	1	-	-	-	-	-	-	
7	B-MD-7422151-0-0	7422151-00	BEZEL, CLIP RETAINER	-	-	-	-	2	2	-	-	-	-	-	-	
8	D-MD-7421086-0-0	7421086-00	PANEL, BOTTOM	-	-	-	-	1	1	-	-	-	-	-	-	
9	B-MD-7420977-0-0	7420977-00	PLATE, PLUG COVER	-	-	-	-	1	1	-	-	-	-	-	-	
10	D-IA-7015953-0-0	7015953-00	HARNESS, D.C.	-	-	-	-	1	1	-	-	-	-	-	-	
11	D-AD-7015986-0-0	7015986-00	ASSY, REAR PANEL	-	-	-	-	1	1	-	-	-	-	-	-	
12	D-IA-7015970-0-0	7015970-00	ASSY, MODULE HINGE	-	-	-	-	1	1	-	-	-	-	-	-	
13	D-IA-7015970-0-0	7015970-01	ASSY, MODULE HINGE	-	-	-	-	1	1	-	-	-	-	-	-	
14	D-IA-7015956-0-0	7015956-00	HARNESS, A.C. INPUT SPINDLES	-	-	-	-	1	1	-	-	-	-	-	-	
15	B-IA-7016036-0-0	7016036-03	ASSY, JUMPER	-	-	-	-	1	1	-	-	-	-	-	-	
16	D-AD-7015976-0-0	7015976-00	ASSY, TIM GROUP (8K)	-	-	-	-	-	-	-	-	-	-	-	-	
17	B-MD-7421547-0-0	7421547-00	INSERT, SWITCH GUARD	-	-	-	-	1	1	-	-	-	-	-	-	
18		1215475-00	BEZEL, FRONT	-	-	-	-	1	1	-	-	-	-	-	-	
19	D-AD-7015974-0-0	7015974-00	ASSY, TOP COVER	-	-	-	-	1	1	-	-	-	-	-	-	
~~20~~	~~———————~~	~~9006015-01~~	~~SCR, PHL PAN HD #4-40 X .75~~	~~-~~	~~-~~	~~-~~	~~-~~	~~2~~	~~2~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~———————~~
21	B-PL-RXT11-Ø-Ø	RXT11-Ø	CONTROLLER, FLOPPY	-	-	-	-	1	1	-	-	-	-	-	-	

E.C.O. NO.

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TITLE TERMINAL PROGRAMMABLE DATA

ASSY NO. E-UA-1115Ø-Ø-Ø | SIZE B | CODE PL | NUMBER 1115Ø-Ø-Ø | REV. E

INSERTION PARTS LIST DATA BASE REV

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY DATE	CHECKED DATE	SECTION 3
ENG DATE	PROD DATE	ISSUED SECTION 3

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION 1115Ø-FH	1115Ø-FJ	1115Ø-EE	1115Ø-EF									NOTES: REF DESIGNATION
1	E-UA-7013077-0-0	7013077-02	DRIVE, FLEXIBLE DISK	1	-	1	-									
2	E-UA-7013077-0-0	7013077-03	DRIVE, FLEXIBLE DISK	-	1	-	1									
3	D-AD-7015983-0-0	7015983-00	ASSY, POWER SUPPLY	1	-	1	-									
4	D-AD-7015983-0-0	7015983-01	ASSY, POWER SUPPLY	-	1	-	1									
5	D-MD-7420982-0-0	7420982-00	HOUSING, POWER SUPPLY	1	1	1	1									
6	E-MD-7420984-0-0	7420984-00	HOUSING, DRIVE	1	1	1	1									
7	B-MD-7422151-0-0	7422151-00	BEZEL, CLIP RETAINER	2	2	2	2									
8	D-MD-7421086-0-0	7421086-00	PANEL, BOTTOM	1	1	1	1									
9	B-MD-7420977-0-0	7420977-00	PLATE, PLUG COVER	1	1	1	1									
10	D-IA-7015953-0-0	7015953-00	HARNESS, D.C.	1	1	1	1									
11	D-AD-7015986-0-0	7015986-00	ASSY, REAR PANEL	1	1	1	1									
12	D-IA-7015970-0-0	7015970-00	ASSY, MODULE HINGE	1	1	1	1									
13	D-IA-7015970-0-0	7015970-01	ASSY, MODULE HINGE	1	1	1	1									
14	D-IA-7015956-0-0	7015956-00	HARNESS, A.C. INPUT SPINDLES	1	1	1	1									
15	B-IA-7016036-0-0	7016036-03	ASSY, JUMPER	1	1	1	1									
16	D-AD-7015976-0-0	7015976-00	ASSY, TIM GROUP (8K)	-	-	-	-									
17	B-MD-7421547-0-0	7421547-00	INSERT, SWITCH GUARD	1	1	1	1									
18		1215475-00	BEZEL, FRONT	1	1	1	1									
19	D-AD-7015974-0-0	7015974-00	ASSY, TOP COVER	1	1	1	1									
~~20~~	~~————~~	~~9006015-01~~	~~SCR, PHL PAN HD #4-40 X .75~~	~~2~~	~~2~~	~~2~~	~~2~~									
21	B-PL-RXT11-Ø-Ø	RXT11-Ø	CONTROLLER, FLOPPY	1	1	1	1									

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
TERMINAL, PROGRAMMABLE DATA	E-UA-1115Ø-Ø-Ø	B	PL	1115Ø-Ø-Ø	E
	SHEET 3 OF 12	INSERTION PARTS LIST DATA BASE REV			

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Pascarella DATE 28 NOV 78 | CHECKED M. Lang DATE 1 DEC 78 | SECTION 1
ENG D. Kampey DATE 20 OCT. 78 | PROD J. Miller DATE 20 Oct 78 | ISSUED SECTION 3

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION 1115Ø-AA	1115Ø-AB	1115Ø-AC	1115Ø-AD	1115Ø-AE	1115Ø-AF	1115Ø-AH	1115Ø-AJ	1115Ø-BA	1115Ø-BB	1115Ø-BC	1115Ø-BD	NOTES: / REF DESIGNATION
22	D-AD-7015976-0-0	7015976-01	ASSY, TIM GROUP (16K)	-	-	-	-	-	-	-	-	1	1	-	-	
23	D-AD-7015976-0-0	7015976-02	ASSY, TIM GROUP (3ØK)	-	-	-	-	-	-	-	-	-	-	-	-	
24		9006653-00	WASHER, FLAT #6 HOLE	10	10	-	-	-	-	-	-	10	10	-	-	
25		9007801-00	WASHER, SPLIT LOCK #6 HOLE	10	10	-	-	-	-	-	-	10	10	-	-	
26		9006557-00	NUT, KEPS #4-40	4	4	-	-	-	-	-	-	4	4	-	-	
27		9006418-01	SCR, PAN HD TAPTITE #8-32 X .38	7	7	-	-	-	-	-	-	7	7	-	-	
28		9006024-01	SCR, PHL PAN HD #6-32 X .50	9	9	-	-	-	-	-	-	9	9	-	-	
29		9009747-01	SUPPORT, CIRCUIT BOARD	5	5	-	-	-	-	-	-	5	5	-	-	
30		9009670-00	STANDOFF, PLASTIC	1	1	-	-	-	-	-	-	1	1	-	-	
31		9009626-00	RIVET, POP	4	4	-	-	-	-	-	-	4	4	-	-	
32		9007151-00	BUSHING, SNAP, NYLON (.750)	1	1	-	-	-	-	-	-	1	1	-	-	
33		9008964-00	BUSHING, SNAP NYLON (1.50)	1	1	-	-	-	-	-	-	1	1	-	-	
34		9007032-00	TIE, CABLE	4	4	-	-	-	-	-	-	4	4	-	-	
35		9006026-01	SCR, PHL PAN HD #6-32 X .75	2	2	-	-	-	-	-	-	2	2	-	-	
36	B-IA-7016036-0-0	7016036-01	ASSY, JUMPER	1	1	-	-	-	-	-	-	1	1	-	-	
37		9008072-00	WASHER, EXT TOOTH LOCK #8	6	6	-	-	-	-	-	-	6	6	-	-	
38		9006660-00	WASHER, FLAT #8	4	4	-	-	-	-	-	-	4	4	-	-	
39		9009903-00	BUMPER, ROUND ADHESIVE BACKED	6	6	-	-	-	-	-	-	6	6	-	-	
~~40~~		~~9009321-00~~	~~LOCKTITE~~	~~A/R~~	~~A/R~~	-	-	-	-	-	-	~~A/R~~	~~A/R~~	-	-	
41		9006560-00	NUT, KEPS #6-?2	2	2	-	-	-	-	-	-	2	2	-	-	
42		9007217-00	FUSE 3 AMP	1	1	-	-	-	-	-	-	1	1	-	-	

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TITLE TERMINAL PROGRAMMABLE DATA

ASSY NO. E-UA-1115Ø-Ø-Ø | SIZE B | CODE PL | NUMBER 1115Ø-Ø-Ø | REV. E

INSERTION PARTS LIST DATA BASE REV

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Pascarella DATE 28 JAN 78
CHECKED PJ Lantz DATE 19 Oct 78
SECTION 2
ENG D. Dempsey DATE 20 OCT. 78
PROD J Miller DATE 20 Oct 78
ISSUED SECTION 3

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION												NOTES:
				1115Ø-BE	1115Ø-BF	1115Ø-BJ	1115Ø-CA	1115Ø-CB	1115Ø-CC	1115Ø-CD	1115Ø-CE	1115Ø-CF	1115Ø-CH	1115Ø-CJ		REF DESIGNATION
22	D-AD-7015976-0-0	7015976-01	ASSY, TIM GROUP (16K)	-	-	-	-	-	-	-	-	-	-	-	-	
23	D-AD-7015976-0-0	7015976-02	ASSY, TIM GROUP (3ØK)	-	-	-	1	1	-	-	-	-	-	-		
24		9006653-00	WASHER, FLAT #6 HOLE	-	-	-	10	10	-	-	-	-	-	-		
25		9007801-00	WASHER, SPLIT LOCK #6 HOLE	-	-	-	10	10	-	-	-	-	-	-		
26		9006557-00	NUT, KEPS #4-40	-	-	-	4	4	-	-	-	-	-	-		
27		9006418-01	SCR, PAN HD TAPTITE #6-32 X .38	-	-	-	7	7	-	-	-	-	-	-		
28		9006024-01	SCR, PHL PAN HD #6-32 X .50	-	-	-	9	9	-	-	-	-	-	-		
29		9009747-01	SUPPORT, CIRCUIT BOARD	-	-	-	5	5	-	-	-	-	-	-		
30		9009670-00	STANDOFF, PLASTIC	-	-	-	1	1	-	-	-	-	-	-		
31		9009626-00	RIVET, POP	-	-	-	4	4	-	-	-	-	-	-		
32		9007151-00	BUSHING, SNAP, NYLON (.750)	-	-	-	1	1	-	-	-	-	-	-		
33		9008964-00	BUSHING, SNAP, NYLON (1.50)	-	-	-	1	1	-	-	-	-	-	-		
34		9007032-00	TIE, CABLE	-	-	-	4	4	-	-	-	-	-	-		
35		9006026-01	SCR, PHL PAN HD #6-32 X .75	-	-	-	2	2	-	-	-	-	-	-		
36	B-IA-7016036-0-0	7016036-01	ASSY, JUMPER	-	-	-	1	1	-	-	-	-	-	-		
37		9008072-00	WASHER, EXT TOOTH LOCK #8	-	-	-	4	4	-	-	-	-	-	-		
38		9006660-00	WASHER, FLAT #8	-	-	-	4	4	-	-	-	-	-	-		
39		9009903-00	BUMPER, ROUND ADHESIVE BACKED	-	-	-	6	6	-	-	-	-	-	-		
~~40~~		~~9009321-00~~	~~LOCKTITE~~	~~-~~	~~-~~	~~-~~	~~A/R~~	~~A/R~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~		
41		9006560-00	NUT, KEPS #6-32	-	-	-	2	2	-	-	-	-	-	-		
42		9007217-00	FUSE 3 AMP	-	-	-	1	1	-	-	-	-	-	-		

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TITLE TERMINAL PROGRAMMABLE DATA

ASSY NO. E-UA-1115Ø-Ø-Ø
SIZE B
CODE PL
NUMBER 1115Ø-Ø-Ø
REV. E
SHEET 5 OF 12
INSERTION PARTS LIST DATA BASE REV

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY / DATE	CHECKED / DATE	SECTION 3
ENG / DATE	PROD / DATE	ISSUED SECTION 3

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION 1115Ø-FH	1115Ø-FJ	1115Ø-EE	1115Ø-EF									NOTES: / REF DESIGNATION
22	D-AD-7015976-0-0	7015976-01	ASSY, TIM GROUP (16K)	-	-	-	-									
23	D-AD-7015976-0-0	7015976-02	ASSY, TIM GROUP (3ØK)	-	-	-	-									
24		9006653-00	WASHER, FLAT #6 HOLE	10	10	10	10									
25		9007801-00	WASHER, SPLIT LOCK #6 HOLE	10	10	10	10									
26		9006557-00	NUT, KEPS #4-40	4	4	4	4									
27		9006418-01	SCR, PAN HD TAPTITE #8-32 X .38	7	7	7	7									
28		9006024-01	SCR, PHL PAN HD #6-32 X .50	9	9	9	9									
29		9009747-01	SUPPORT, CIRCUIT BOARD	5	5	5	5									
30		9009670-00	STANDOFF, PLASTIC	1	1	1	1									
31		9009626-00	RIVET, POP	4	4	4	4									
32		9007151-00	BUSHING, SNAP, NYLON (.750)	1	1	1	1									
33		9008964-00	BUSHING, SNAP, NYLON (1.50)	1	1	1	1									
34		9007032-00	TIE, CABLE	4	4	4	4									
35		9006026-01	SCR, PHL PAN HD #6-32 X .75	2	2	2	2									
36	B-IA-7016036-0-0	7016036-01	ASSY, JUMPER	1	1	1	1									
37		9008072-00	WASHER, EXT TOOTH LOCK #8	6	6	6	6									
38		9006660-00	WASHER, FLAT #8	4	4	4	4									
39		9009903-00	BUMPER, ROUND ADHESIVE PACKED	6	6	6	6									
~~40~~		~~9009321-00~~	~~LOCKTITE~~	~~A/R~~	~~A/R~~	~~A/R~~	~~A/R~~									
41		9006560-00	NUT, KEPS #6-32	2	2	2	2									
42		9007217-00	FUSE 3 AMP	1	1	1	1									

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
TERMINAL, PROGRAMMABLE DATA	E-UA-1115Ø-Ø-Ø	B	PL	1115Ø-Ø-Ø	E
	SHEET 6 OF 12	INSERTION PARTS LIST DATA BASE REV			

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Parenteau DATE 28 JUN 78 | CHECKED T.J. Sawtell DATE 19 Oct 78 | SECTION 1

ENG C. Kempsey DATE 20 OCT 78 | PROD J.D. Miller DATE 20 Oct 78 | ISSUED SECTION 3

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION												NOTES:
				1115Ø-AA	1115Ø-AB	1115Ø-AC	1115Ø-AD	1115Ø-AE	1115Ø-AF	1115Ø-AH	1115Ø-AJ	1115Ø-BA	1115Ø-BB	1115Ø-BC	1115Ø-BD	REF DESIGNATION
43	C-IA-7008612-0-0	7008612-ØM	CABLE, KEYBOARD	1	1	-	-	-	-	-	-	1	1	-	-	
44	D-IA-7013370-0-0	7013370-ØH	CABLE, 24 COND DIP SOCKET	1	1	-	-	-	-	-	-	1	1	-	-	
45		1700083-09	CORD , POWER	1	-	-	-	-	-	-	-	1	-	-	-	
46		9007031-00	TIE, CABLE	1	1	-	-	-	-	-	-	1	1	-	-	
47		9009255-00	LABEL	1	1	-	-	-	-	-	-	1	1	-	-	
48		9006563-00	NUT, KEPS #8-32	2	2	-	-	-	-	-	-	2	2	-	-	
49		1700083-10	POWER CORD (230)	-	1	-	-	-	-	-	-	-	1	-	-	
50	E-UA-1115Ø-Ø-Ø	1115Ø-AA	TERMINAL, PROGRAMMABLE DATA	X	-	1	-	1	-	1	-	-	-	-	-	
51	B-PL-DFT11-Ø-Ø	DFT11-AB	EIA CONN. - PDT11 SYSTEM	-	-	1	1	-	-	1	1	-	-	1	1	
52	E-UA-1115Ø-Ø-Ø	1115Ø-AB	TERMINAL, PROGRAMMABLE DATA	-	X	-	1	-	1	-	1	-	-	-	-	
53	E-UA-RXTØ1-Ø-Ø	RXTØ1-AA	DRIVE, ADDITIONAL FLOPPY	-	-	-	-	1	-	1	-	-	-	-	-	
54	E-UA-RXTØ1-Ø-Ø	RXTØ1-AC	DRIVE, ADDITIONAL FLOPPY	-	-	-	-	-	1	-	1	-	-	-	-	
55	E-UA-1115Ø-Ø-Ø	1115Ø-BA	TERMINAL, PROGRAMMABLE DATA	-	-	-	-	-	-	-	-	X	-	1	-	
56	E-UA-1115Ø-Ø-Ø	1115Ø-BB	TERMINAL, PROGRAMMABLE DATA	-	-	-	-	-	-	-	-	-	X	-	1	
57	E-UA-1115Ø-Ø-Ø	1115Ø-CA	TERMINAL, PROGRAMMABLE DATA	-	-	-	-	-	-	-	-	-	-	-	-	
58	E-UA-1115Ø-Ø-Ø	1115Ø-CB	TERMINAL, PROGRAMMABLE DATA	-	-	-	-	-	-	-	-	-	-	-	-	
59		3613209-00	TAG, SERIAL	1	1	-	-	-	-	-	-	1	1	-	-	
60		1216099-00	SHIELD, RF1	1	1	-	-	-	-	-	-	1	1	-	-	
61		3613211-01	LABEL, CSA	1	-	-	-	-	-	-	-	1	-	-	-	
62	A-DC-7416197-0-0	7416197-01	LABEL, UL	1	1	-	-	-	-	-	-	1	1	-	-	
63		3611448-00	LABEL, WARNING, AC CORD	1	1	-	-	-	-	-	-	1	1	-	-	

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TITLE TERMINAL, PROGRAMMABLE DATA

ASSY NO. E-UA-1115Ø-Ø-Ø | SIZE B | CODE PL | NUMBER 1115Ø-Ø-Ø | REV. E

INSERTION PARTS LIST DATA BASE REV

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Pascarelli DATE 28 JUN 78	CHECKED V. Lampey DATE 19 Oct 78	SECTION 2
ENG V. Lampey DATE 20-OCT. 78	PROD J. Miller DATE 20 Oct 78	ISSUED SECTION 3

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION 1115Ø-BE	1115Ø-BF	1115Ø-BH	1115Ø-BJ	1115Ø-CA	1115Ø-CB	1115Ø-CC	1115Ø-CD	1115Ø-CE	1115Ø-CF	1115Ø-CH	1115Ø-CJ	NOTES: / REF DESIGNATION
43	C-IA-7008612-0-0	7008612-ØM	CABLE, KEYBOARD	-	-	-	-	1	1	-	-	-	-	-	-	
44	D-IA-7013370-0-0	7013370-ØH	CABLE, 24 COND DIP SOCKET	-	-	-	-	1	1	-	-	-	-	-	-	
45		1700083-09	CORD, POWER	-	-	-	-	1	-	-	-	-	-	-	-	
46		9007031-00	TIE, CABLE	-	-	-	-	1	1	-	-	-	-	-	-	
47		9009255-00	LABEL	-	-	-	-	1	1	-	-	-	-	-	-	
48		9006563-00	NUT, KEPS #8-32	-	-	-	-	2	2	-	-	-	-	-	-	
49		1700083-10	POWER CORD (230)	-	-	-	-	-	1	-	-	-	-	-	-	
50	E-UA-1115Ø-Ø-Ø	1115Ø-AA	TERMINAL, PROGRAMMABLE DATA	-	-	-	-	-	-	-	-	-	-	-	-	
51	B-PL-DFT11-Ø-Ø	DFT11-AB	EIA CONN. - PDT11 SYSTEM	-	-	1	1	-	-	1	1	-	-	1	1	
52	E-UA-1115Ø-Ø-Ø	1115Ø-AB	TERMINAL, PROGRAMMABLE DATA	-	-	-	-	-	-	-	-	-	-	-	-	
53	E-UA-RXTØ1-Ø-Ø	RXTØ1-AA	DRIVE, ADDITIONAL FLOPPY	1	-	1	-	-	-	-	-	1	-	1	-	
54	E-UA-RXTØ1-Ø-Ø	RXTØ1-AC	DRIVE, ADDITIONAL FLOPPY	-	1	-	1	-	-	-	-	-	1	-	1	
55	E-UA-1115Ø-Ø-Ø	1115Ø-BA	TERMINAL, PROGRAMMABLE DATA	1	-	1	-	-	-	-	-	-	-	-	-	
56	E-UA-1115Ø-Ø-Ø	1115Ø-BB	TERMINAL, PROGRAMMABLE DATA	-	1	-	1	-	-	-	-	-	-	-	-	
57	E-UA-1115Ø-Ø-Ø	1115Ø-CA	TERMINAL, PROGRAMMABLE DATA	-	-	-	-	X	-	1	-	1	-	1	-	
58	E-UA-1115Ø-Ø-Ø	1115Ø-CB	TERMINAL, PROGRAMMABLE DATA	-	-	-	-	-	X	-	1	-	1	-	1	
59		3613209-00	TAG, SERIAL	-	-	-	-	1	1	-	-	-	-	-	-	
60		1216099-00	SHIELD, RFI	-	-	-	-	1	1	-	-	-	-	-	-	
61		3613211-01	LABEL, CSA	-	-	-	-	-	-	-	-	-	-	-	-	
62	A-DC-7416197-0-0	7416197-01	LABEL, UL	-	-	-	-	1	1	-	-	-	-	-	-	
63		3611448-00	LABEL, WARNING AC CORD	-	-	-	-	1	1	-	-	-	-	-	-	

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
TERMINAL PROGRAMMABLE DATA	E-UA-1115Ø-Ø-Ø	B	PL	1115Ø-Ø-Ø	E
	SHEET 8 OF 12	INSERTION PARTS LIST DATA BASE REV			

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY DATE	CHECKED DATE	SECTION 3
ENG DATE	PROD DATE	ISSUED SECTION 3

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION												NOTES:
				1115Ø-FH	1115Ø-FJ	1115Ø-EE	1115Ø-EF									REF DESIGNATION
43	C-IA-7008612-0-0	7008612-ØM	CABLE, KEYBOARD	1	1	1	1									
44	D-IA-7013370-0-0	7013370-ØH	CABLE, 24 COND DIP SOCKET	1	1	1	1									
45		1700083-09	CORD, POWER	1	-	1	-									
46		9007031-00	TIE, CABLE	1	1	1	1									
47		9009255-00	LABEL	1	1	1	1									
48		9006563-00	NUT, KEPS #8-32	2	2	2	2									
49		1700083-10	POWER CORD (230)	-	1	-	1									
50	E-UA-1115Ø-Ø-Ø	1115Ø-AA	TERMINAL, PROGRAMMABLE DATA	-	-	-	-									
51	B-PL-DFT11-Ø-Ø	DFT11-AB	EIA CONN. - PDT11 SYSTEM	1	1	-	-									
52	E-UA-1115Ø-Ø-Ø	1115Ø-AB	TERMINAL, PROGRAMMABLE DATA	-	-	-	-									
53	E-UA-RXTØ1-Ø-Ø	RXTØ1-AA	DRIVE, ADDITIONAL FLOPPY	1	-	1	-									
54	E-UA-RXTØ1-Ø-Ø	RXTØ1-AC	DRIVE, ADDITIONAL FLOPPY	-	1	-	1									
55	E-UA-1115Ø-Ø-Ø	1115Ø-BA	TERMINAL, PROGRAMMABLE DATA	-	-	-	-									
56	E-UA-1115Ø-Ø-Ø	1115Ø-BB	TERMINAL, PROGRAMMABLE DATA	-	-	-	-									
57	E-UA-1115Ø-Ø-Ø	1115Ø-CA	TERMINAL, PROGRAMMABLE DATA	-	-	-	-									
58	E-UA-1115Ø-Ø-Ø	1115Ø-CB	TERMINAL, PROGRAMMABLE DATA	-	-	-	-									
59		3613209-00	TAG, SERIAL	1	1	1	1									
60		1216099-00	SHIELD, RFI	1	1	1	1									
61		3613211-01	LABEL, CSA	1	1	1	1									
62	A-DC-7416197-0-0	7416197-01	LABEL, UL	1	1	1	1									
63		3611448-00	LABEL, WARNING, AC CORD	1	1	1	1									

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
TERMINAL, PROGRAMMABLE DATA	E-UA-1115Ø-Ø-Ø	B	PL	1115Ø-Ø-Ø	E
	SHEET 9 OF 12	INSERTION PARTS LIST DATA BASE REV			

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Passarelli DATE 25 JAN 78	CHECKED Y. Lamb DATE 19 Oct 78	SECTION 1
ENG V. Dempsey DATE 20 OCT 78	PROD J. Miller DATE 20 Oct 78	ISSUED SECTION 3

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION												NOTES:
				1115Ø-AA	1115Ø-AB	1115Ø-AC	1115Ø-AD	1115Ø-AE	1115Ø-AF	1115Ø-AH	1115Ø-AJ	1115Ø-BA	1115Ø-BB	1115Ø-BC	1115Ø-BD	REF DESIGNATION
64		9007649-00	WASHER, LOCK EXT TOOTH #6	2	2	-	-	-	-	-	-	2	2	-	-	
65	D-IA-7016373-0-0	7016373-00	HARNESS	-	1	-	-	-	-	-	-	-	1	-	-	
66	D-AD-7015976-0-0	7015976-13	ASSY, TIM GROUP(30K+EIS/FIS)	-	-	-	-	-	-	-	-	-	-	-	-	
67	D-AD-7015976-0-0	7015976-12	ASSY TIM GROUP (16K+EIS/FIS)	-	-	-	-	-	-	-	-	-	-	-	-	
68		9009946-00	SCR, PAN HD TAPTITE #8-32 x .50	1	1	-	-	-	-	-	-	1	1	-	-	

E.C.O. NO.

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
TERMINAL, PROGRAMMABLE DATA	E-UA-1115Ø-Ø-Ø	B	PL	1115Ø-Ø-Ø	E
	SHEET 10 OF 12	INSERTION PARTS LIST DATA BASE REV			

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Pascarelli DATE 28 JUN 78 | CHECKED [illegible] DATE 19 Oct 78 | SECTION 2

ENG D. R. Ampney DATE 20 OCT 78 | PROD J. Miller DATE 20 Oct 78 | ISSUED SECTION 3

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION 1115Ø-BE	1115Ø-BF	1115Ø-BH	1115Ø-BJ	1115Ø-CA	1115Ø-CB	1115Ø-CC	1115Ø-CD	1115Ø-CE	1115Ø-CF	1115Ø-CH	1115Ø-CJ	NOTES: / REF DESIGNATION
64		9007649-00	WASHER, LOCK EXT TOOTH #6	-	-	-	-	2	2	-	-	-	-	-	-	
65	D-IA--7016373-0-0	7016373-00	HARNESS	-	-	-	-	-	1	-	-	-	-	-	-	
66	D-AD-7015976-0-0	7015976-13	ASSY,TIM GROUP (30K+EIS/FIS)	-	-	-	-	-	-	-	-	-	-	-	-	
67	D-AD-7015976-0-0	7015976-12	ASSY,TIM GROUP (16K+EIS/FIS)	-	-	-	-	-	-	-	-	-	-	-	-	
68		9009946-00	SCR, PAN HD TAPTITE #8-32 x .50	-	-	-	-	1	1	-	--	-	-	-	-	

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TITLE TERMINAL PROGRAMMABLE DATA

ASSY NO. E-UA-1115Ø-Ø-Ø | SIZE B | CODE PL | NUMBER 1115Ø-Ø-Ø | REV. E

SHEET 11 OF 12 | INSERTION PARTS LIST DATA BASE REV V

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY / DATE	CHECKED / DATE	SECTION 3
ENG / DATE	PROD / DATE	ISSUED SECTION 3

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION 1115Ø-FH	1115Ø-FJ	1115Ø-EE	1115Ø-EF									NOTES: REF DESIGNATION
64		9007649-00	WASHER, LOCK EXT TOOTH #6	2	2	2	2									
65	D-IA-7016373-0-0	7016373-00	HARNESS	-	1	-	1									
66	D-AD-7015976-0-0	7015976-13	ASSY, TIM GROUP (3ØK + EIS/FIS)	1	1	-	-									
67	D-AD-7015976-0-0	7015976-12	ASSY, TIM GROUP (16K + EIA/FIS)	-	-	1	1									
68		9009946-00	SCR, PAN HD TAPTITE #8-32 x .50	1	1	1	1									

E.C.O. NO.

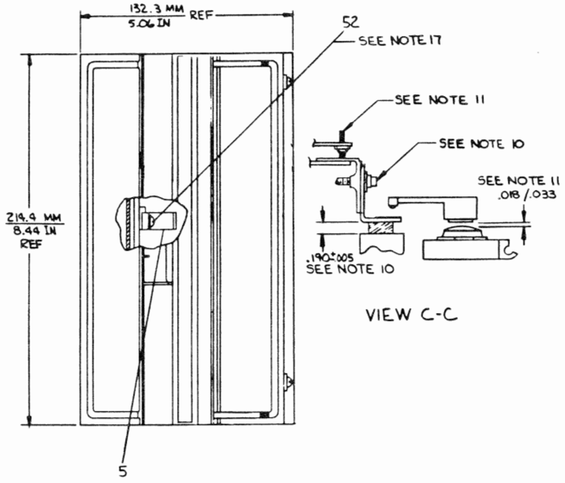
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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
TERMINAL, PROGRAMMABLE DATA	E-UA-1115Ø-Ø-Ø	B	PL	1115Ø-Ø-Ø	E
	SHEET 12 OF 12	INSERTION PARTS LIST DATA BASE REV			

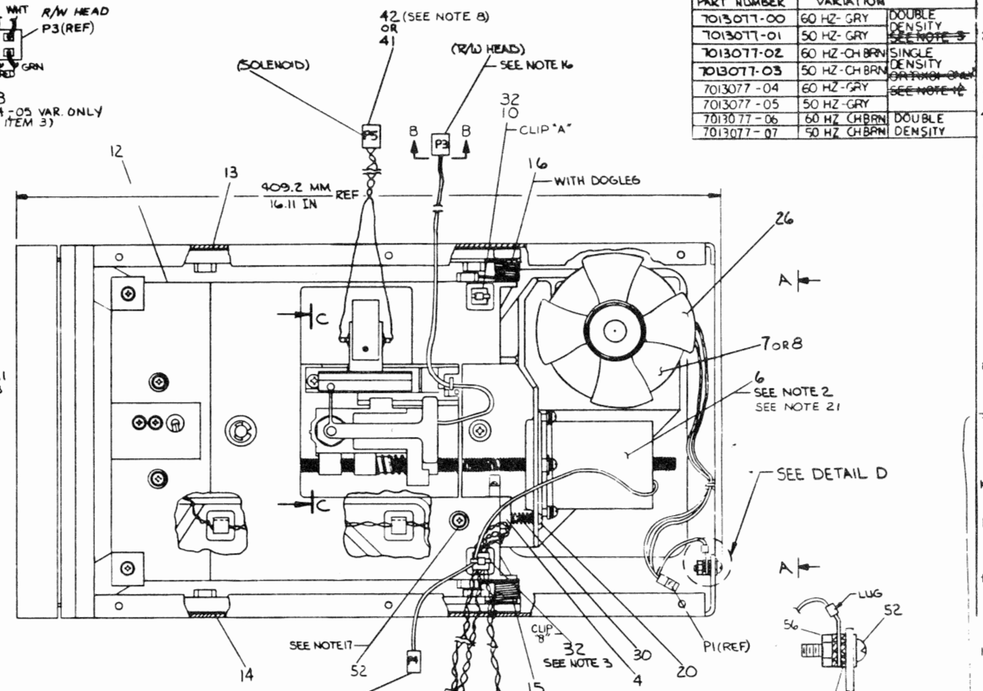
DRB 125



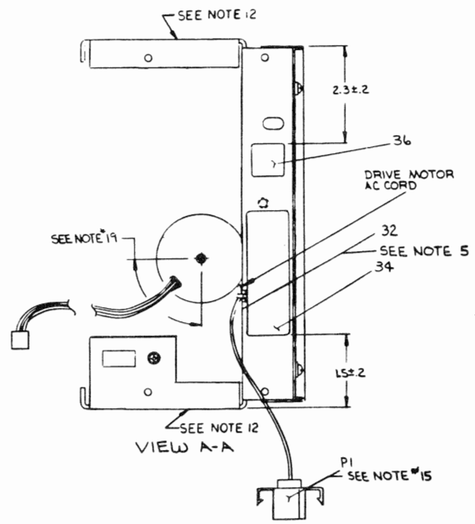
VIEW B
-02-03,-04-05 VAR. ONLY
(PART OF ITEM 3)



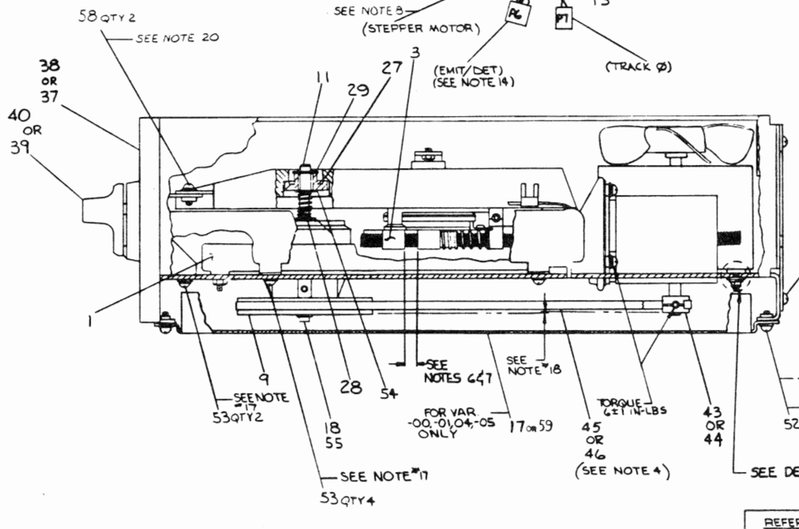
VIEW C-C

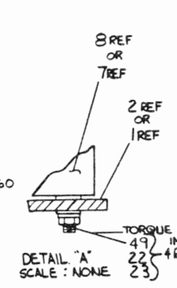


DETAIL D
FOR VAR. -00;01;04;05 ONLY



VIEW A-A





DETAIL "A"
SCALE : NONE

REFERENCE
C-CS-7013077-0-1
WIRING DIAGRAM

LEGEND		
PART NUMBER	VARIATION	
7013077-00	60 HZ-GRY	DOUBLE DENSITY
7013077-01	50 HZ-GRY	~~SEE NOTE 3~~
7013077-02	60 HZ-CH BRN	SINGLE DENSITY
7013077-03	50 HZ-CH BRN	~~OR TWO ONLY~~
7013077-04	60 HZ-GRY	~~SEE NOTE 16~~
7013077-05	50 HZ-GRY	
7013077-06	60 HZ CH BRN	DOUBLE
7013077-07	50 HZ CH BRN	DENSITY

NOTES:
1. TORQUE ALL 6-32 SCREWS TO 8.0±1.0 IN-LBS EXCEPT AS NOTED.
2. CLEAN BORE IN BASE PLATE (ITEMS 1 OR 2) AND STEP NECK OF ITEM 4 WITH SOLVENT. LIGHTLY OIL NECK OF STEPPING MOTOR WITH ITEM 50 BEFORE INSTALLING INTO BASE PLATE.
3. CABLE TIES, ITEM 32, TO BE USED AS REQ'D TO PREVENT PINCHING OF STRAIN OF ANY WIRING.
4. PULLEY TO PULLEY Ø DISTANCE TO BE PRESET TO 8.62 ±.03 FOR PROPER BELT TENSION.
5. DRIVE MOTOR POWER CORD TO BE TIED TO CHASSIS USING CABLE TIE (ITEM 32.)
6. A .25 ±.06 GAP IS REQUIRED BETWEEN CARRIAGE AND FULL NUT FOR PROPER SPRING LOADING WHEN MOUNTING TO STEPPING MOTOR LEADSCREW.
7. IF INTERFERENCE OR TIGHT FIT EXISTS WHEN THREADING LEADSCREW INTO FULL NUT, INSPECT END OF LEADSCREW VISUALLY FOR BURR OR DAMAGED TREAD START. DO NOT RE-USE FULL NUT. CORRECT LEADSCREW PROBLEM BEFORE REASSEMBLING.
8. ON VARIATIONS -02 & -03, ITEM 42 (P5) WILL BE TIED TO CLIPS "A" AND "B". ALSO, P4 CONN. WILL NOT BE TIED DOWN TO CLIP "B" AS SHOWN.
9. ~~RESISTOR ASSY (SEC 7018263-00) MUST BE INSERTED INTO EMPTY SOCKETS (PINS 6 & 8) OF READ/WRITE CONNECTOR MARKED "P3" (SEE VIEW B) WHENEVER -00, -01, -04, OR -05 VARIATION IS USED IN THE RX01 DRIVE OPTION.~~
10. ADJUST SOLENOID ASSY TO DIMENSION SHOWN IN VIEW C-C. SCREW TO BE TIGHTENED TO 5±0.5 IN-LBS.
11. ADJUST SET SCREW UNTIL HEAD GAP IS WITHIN RANGE SHOWN IN VIEW C-C WHEN SOLENOID IS DE-ENERGIZED.
12. ~~STAMP 7013077-0X(T) IN ONE INCH HIGH LETTERS (BLACK) ON EACH SIDEWALL AS INDICATED IN VIEW A-A FOR -02 THRU -05 VARIATIONS TO DENOTE THAT THESE DRIVES ARE USABLE ONLY IN SINGLE DENSITY SYSTEMS.~~
13. ~~DOUBLE DENSITY DRIVES -00 & -01 CAN BE USED IN PLACE OF SINGLE DENSITY "RX01 ONLY" DRIVES, BUT THE REVERSE IS NOT POSSIBLE.~~
14. LEADS FROM EMITTER BRACKET, MOUNTED ON UNDERSIDE OF CONE COVER, GO TO:
    GRAY INTO P6-1
    BLUE INTO P6-4
15. P1, DRIVE MOTOR POWER CONNECTOR IS NOT INSERTED IN CHASSIS CONN. MOUNTING HOLE AT THIS ASSY LEVEL.
16. INSERT HEAD CABLE INTO CONE COVER CLAMP WITH CARRIAGE IN FAR BACK POSITION, ADJUST CABLE LOOP TO TOUCH CASTING WALL. (N/A ON -02&03 VARIATIONS).
17. SEMS SCREW, ITEM 52, CAN BE REPLACED BY USING ONE EACH OF ITEMS 33, 24, 25. SEMS SCREW ITEM 53 CAN BE REPLACED BY USING ONE EACH OF ITEMS 31, 24, 25.
18. WITH DRIVE MOTOR ENERGIZED, LOWER FACE OF PULLEYS TO BE AXIALLY ADJUSTED WITHIN ±.03.
19. STEPPER MOTOR LEADS TO BE ORIENTED FROM QUADRANT SHOWN IN VIEW A-A. STEPPER MOTOR PHASE ZERO MUST BE ENERGIZED WHEN R/W HEAD IS POSITIONED OVER TRACK Ø.
9. RESISTOR ASSY (7016263-00) MUST BE INSERTED INTO EMPTY SOCKETS (PIN 6 & 8) OF READ/WRITE CONNECTOR MARKED "P3" (SEE VIEW B) WHENEVER -02, -03, -04 AND -05 VARIATION IS USED IN THE SINGLE DENSITY OPTION.
20. SEMS SCREW, ITEM 58, CAN BE REPLACED BY USING ONE EACH OF ITEMS 31, 25, 24.
21. GREASE, ITEM 19, TO BE PUT INTO 4 GROOVES OF STEPPER MOTOR SHAFT AT POSITIONS 1/3 & 2/3 SHAFT LENGTH BEFORE ASSY.

CAUTION: SEE OFF SHEET PARTS LIST K-PL-7013077-Ø-DBP

REV	RELEASED	BY
A	7-NOV-77	R. MORIN

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	7013077-0000	BASE PLATE ASSY
2	1	7013077-0001	BASE PLATE ASSY
3	1	7013077-0002	STEPPER MOTOR ASSY
4	1	7013077-0003	LEADSCREW
5	1	7013077-0004	CARRIAGE ASSY
6	1	7013077-0005	CLAMP
7	1	7013077-0006	CLAMP
8	1	7013077-0007	POWER
9	1	7013077-0008	POWER
10	1	7013077-0009	CONE COVER

	NAME	DATE
DRAWN	C. NEWCOMB	7-NOV-77
CHECKED	B. MERCHANT	7-NOV-77

DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES ±0° 30'	CLASS OF ACCURACY: CHECK ONE	TOLERANCE DIMENSION RANGE (INCHES): 0 TO .12, .12 TO .24, .24 TO .48, .48 TO .72, .72 TO 1.20
SURFACE QUALITY IN MICROINCHES: MACHINED		.12 .24 .48 .72 1.20
PREFERRED	1.000	±.005 ±.010 ±.015 ±.020 ±.030
THIRD ANGLE PROJECTION	QUANTITY & VARIATION	FINISH
REMOVE BURRS AND BREAK SHARP CORNERS	DRAWN	DATE 7-NOV-77
DO NOT SCALE DWG.	CHECKED	DATE 7-NOV-77
MATERIAL K-PL-7013077-0-DBP	ENG. APPR.	DATE 7-NOV-77
FINISH	PROJ. ENG.	DATE 7-NOV-77
	NEXT HIGHER ASSY.	
	S-DD-7013077-0	
	SCALE: 1/1	
	SHEET OF	

RX02

TITLE: FLEXIBLE DISK DRIVE

SIZE B | CODE | DRAWING NO. UA7013077-0-0 | REV. N

UA 7013077-0-0 N

ML2

AUTOMATED BY PRTLST.3P(44) P A R T S L I S T SHEET A1 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00	01	02	03	04	05
1	1	E-AD-7012380-0-0	7012380-00	BASE PLATE ASSY	1	1	1	1	1	1
2	2	E-AD-7012380-1-0	7012380-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
3	3	D-AD-7012379-0-0	7012379-00	CARRIAGE ASSY.	1	1	1	1	1	1
4	4	C-IA-7013486-0-0	7013486-00	TRACK LOCATING TRANSDUCER ASSY	1	1	1	1	1	1
5	5	B-IA-7013079-0-0	7013079-00	DETECTOR BRKT. ASSY.	1	1	1	1	1	1
6	6	B-IA-7017043-0-0	7017043-00	STEPPER MOTOR SUB ASSY	1	1	1	1	1	1
7	7	C-IA-7013967-0-0	7013967-00	DRIVE MOTOR ASSY	1	1	-	-	1	1
8	8	C-IA-7013967-1-0	7013967-01	DRIVE MOTOR ASSY.	-	-	1	1	-	-
9	9	C-MD-7415718-0-0	7415718-00	PULLEY,DRIVEN-MACHINED	1	1	1	1	1	1
10	10		9009849-00	CLIP,CABLE,ADHESIVE BACKED	-	-	1	1	-	-
11	11	C-AD-7014185-0-0	7014185-00	EXPANDER CONE ASSY	1	1	1	1	1	1
12	12	E-AD-7012381-0-0	7012381-00	CONE LIFT COVER ASSY.	1	1	1	1	1	1
13	13	D-IA-7415724-0-0	7415724-00	DISK GUIDE LEFT	1	1	1	1	1	1
14	14	D-IA-7415724-1-0	7415724-01	DISK GUIDE RIGHT	1	1	1	1	1	1
15	15		1213658-01	SPRING,CONE LIFT COVER,RIGHT HAN	1	1	1	1	1	1
16	16		1213658-00	SPRING,CONE LIFT COVER,LEFT HAND	1	1	1	1	1	1
17	17	D-MD-7416668-0-0	7416568-00	COVER BOTTOM	1	1	-	-	1	1
18	18		9010149-00	SCREW,HEX ,SKT , 6-32X 3/8	1	1	1	1	1	1
19	19		4901237-00	LUBRICATING GREASE,BLACK	A/R	A/R	A/R	A/R	A/R	A/R
20	20		9006028-01	SCREW,PAN,PHIL 6-32X1 SS	1	1	1	1	1	1
21	21		9006074-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
22	22		9007906-00	WASHER, LOCK S.S. #10	4	4	4	4	4	4
23	23		9006664-00	WASHER, FLAT, .437 OD X .218 ID	4	4	4	4	4	4
24	24		9007801-00	WASHER, LOCK, S.S. #6	A/R	A/R	A/R	A/R	A/R	A/R
25	25		9006653-00	WASHER, FLAT, .375 O.D. X .156 I	A/R	A/R	A/R	A/R	A/R	A/R
26	26		1214218-01	FAN,BLADE, 3-1/2"O D	1	1	1	1	1	1
27	27	B-MD-7421081-0-0	7421081-00	BUSHING	1	1	1	1	1	1
28	28		1213660-00	SPRING,COMPRESSION,1.0LGX.360 OD	1	1	1	1	1	1
29	29		9009644-00	RING, RETAINING, FOR 1/4"SHAFT	1	1	1	1	1	1
30	30		1213656-00	SPRING,COMPRESSION, .88LGX.240 O	1	1	1	1	1	1

REVISION HISTORY			BASIC PART NO: 7013077										
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: B NOURSE	DATE: 30-OCT-80		D	I	G	I	T	A	L
DP	7013077-ML009	L	SECTION. VARIATION INDEX	CHK'D: R P MORIN	DATE: 30-OCT-80	TITLE	PARTS LIST						
DP	7013077-ML011	M	[A] 00,01,02,03,04,05			FLEXIBLE DISK DRIVE							
			[B]	DES.ENG.: J.GLAVIN	DATE: 10-NOV-80								
			[C]			DOCUMENT NUMBER							
				RESP.ENG.: J.GLAVIN	DATE: 10-NOV-80	SIZE	CODE	NUMBER				REV	
			[D]										
			[E]	MFG.ENG.: J CHIARELLI	DATE: 30-OCT-80	K	PL	7013077-0-DBP				M	
			[F]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:						EDIT #	
				E-UA-7013077-0-0		Z1894M.PLS						9	

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ML2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00	01	02	03	04	05
31	31		9006024-01	SCREW,PAN,PHIL 6-32X 1/2 SS	A/R	A/R	A/R	A/R	A/R	A/R
32	32		9009996-00	TIE,CABLE PRELOADED MAG.100 EA	4	4	5	5	4	4
33	33		9006022-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
34	34		3613524-00	LABEL,ADHESIVE BACK 3 1/2X2 1/4"	1	1	1	1	1	1
35	35		9009855-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
36	36		3612063-00	LABEL, ,ADHESIVE I.D. FOR UL C	1	1	1	1	1	1
37	37	D-IA-7013906-0-0	7013906-00	BEZEL ASSEMBLY	1	1	-	-	1	1
38	38	D-IA-7013906-1-0	7013906-01	BEZEL ASSEMBLY	-	-	1	1	-	-
39	39	D-AD-7013454-0-0	7013454-00	HANDLE ASSY.	1	1	-	-	1	1
40	40	D-AD-7013454-1-0	7013454-01	HANDLE ASSY.	-	-	1	1	-	-
41	41	B-IA-7014998-0-0	7014998-00	SOLENOID CABLE ASSY	1	1	-	-	1	1
42	42	B-IA-7014998-1-0	7014998-01	SOLENOID CABLE ASSY.	-	-	1	1	-	-
43	43	B-DA-7415719-0-0	7415719-00	PULLEY MOTOR MACHINED 60HZ	1	-	1	-	1	-
44	44	B-DA-7418534-0-0	7418534-00	PULLEY,MOTOR 50HZ MACHINED	-	1	-	1	-	1
45	45		1214005-00	BELT,DRIVE-FLAT NEOPRENE 23"LG	1	-	1	-	1	-
46	46		1214005-01	BELT,DRIVE-FLAT NEOPRENE 23"LG 5	-	1	-	1	-	1
47	47		4901290-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
48	48		9008957-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
49	49		9006564-00	NUT,HEX , 10-32X3/8 AF X 1/	4	4	4	4	4	4
50	50		4901174-00	OIL,INSTRUMENT,SYNTHETIC,1-1/4 O	A/R	A/R	A/R	A/R	A/R	A/R
51	51	D-AD-7012379-1-0	7012379-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
52	52		9009984-00	SCREW, SEMS, PHILLIPS PAN HD. 6-	7	7	2	2	7	7
53	53		9009984-02	SCREW, SEMS, PHILLIPS PAN HD. 6-	6	6	6	6	6	6
54	54		1216289-00	WASHER,FLAT,BRASS .437 OD X .255	2	2	2	2	2	2
55	55		9007649-00	WASHER, LOCK, EXTERNAL TOOTH #6	2	2	1	1	2	2
56	56		9006560-00	NUT,KEP , 6-32 X5/16AF	1	1	-	-	1	1
57	57	B-IA-7016263-0-0	7016263-00	RESISTOR ASSY	-	-	1	1	1	1
58	58		9009984-03	SCREW,PAN,PHIL,SEMS 6-32X .500	2	2	2	2	2	2

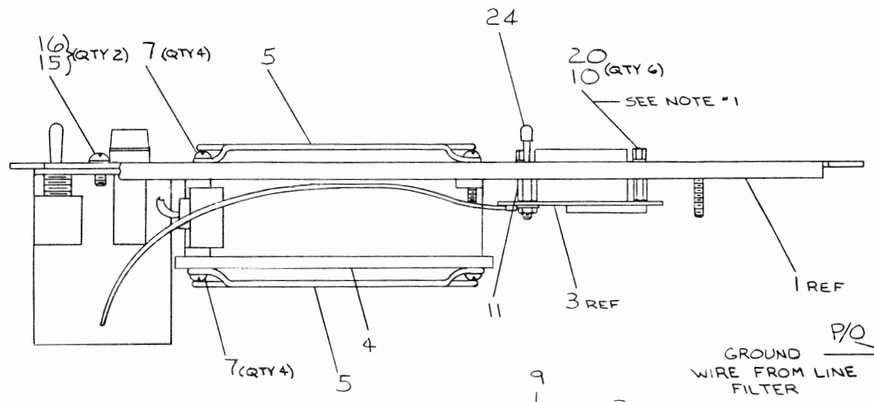
59 NOTE: VARIATIONS:
60 NOTE: -00 60HZ - GRY* *DOUBLE DENSITY
61 NOTE: -01 50HZ - GRY* (SEE ASSY - NOTE 13)
62 NOTE: -02 60HZ - C.BRN** **SINGLE DENSITY
63 NOTE: -03 50HZ - C.BRN** OR "RX01 ONLY"
64 NOTE: -04 60HZ - GRY** (SEE ASSY - NOTE 12)
65 NOTE: -05 50HZ - GRY

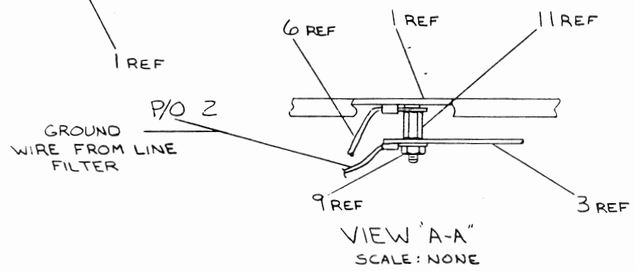
D	I	G	I	T	A	L	TITLE	SECTION A OF A
							FLEXIBLE DISK DRIVE	

SIZE	CODE	DOCUMENT NUMBER	REV
K	PL	7013077-0-DBP	M

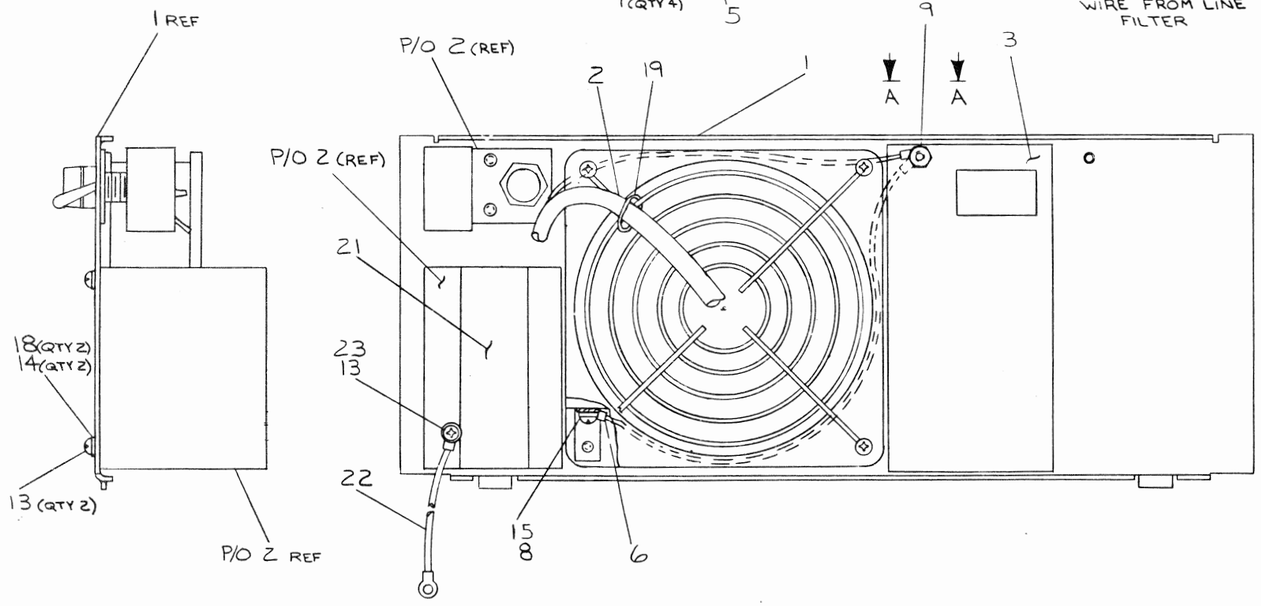
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NOTES:
1. WHEN INSTALLING ITEM "10 DISCARD LOCKWASHER, NUT, AND 1 FLAT WASHER.





VIEW "A-A"
SCALE: NONE



CAUTION:
OFF SHEET PARTS LIST EXISTS.
SEE B-PL-7015986-0-0.

REVISIONS			
CHK	CHANGE NO.	REV.	
	7015986-MR001	A	
VINCE DEMPSEY			

DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE-INCHES					
		OVER 0 TO .2	OVER .2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.026	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH NONE

DRN. M. Parrelli	12 OCT 78
CHK'D D. Healy	18 OCT 78
ENG.	10-20-78
PROJ. ENG. J. Cyr	23 OCT 78
PROD. J. Mills	8-22-78
NEXT HIGHER ASSY.	
E-UA-11150-0-0	
SCALE 1/1	
SHEET 1 OF 1	

FIRST USED ON 11150

digital

TITLE
REAR PANEL ASSY

SIZE	CODE	NUMBER	REV.
D	AD	7015986-0-0	A
DIST.			

SIZE D CODE AD NUMBER 7015986-0-0 REV. A

AIR

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Pascarella DATE 30 JUN 78	CHECKED D. Healy DATE 10 OCT 78	SECTION 1
ENG V. Dempsey DATE 20 OCT. 78	PROD J.D. Miller DATE 20 Oct 78	ISSUED SECTION 1

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION 7015986-00	NOTES: / REF DESIGNATION
1	D-IA-7420980-0-0	7420980-00	PANEL, REAR DRIVE "O"	1	
2	D-IA-7015955-0-0	7015955-00	HARNESS, AC	1	
3	D-UA-5413267-0-0	5413267-00	EIA MODULE	1	
4		1213185-00	FAN	1	
5		1210263-00	FINGER GUARD	2	
6	B-IA-7016036-0-0	7016036-02	JUMPER ASSY	1	
7		9009919-00	TAPTITE #8-32\.62 LG.	8	
8		9008072-00	WASHER, EXT TOOTH LOCK #8	1	
9		9006560-00	NUT, KEPS #6-32	1	
10		9008451-00	SCREW LOCK ASSY	6	
11		9007603-00	STANDOFF, HEX #6 HOLE x .44	3	
~~12~~		~~9006026-01~~	~~SCR, PHL PAN HD #6-32 x .75~~	~~4~~	
13		9006022-01	SCR, PHL PAN HD #6-32 x .38	3	
14		9007801-00	WASHER SPLIT LOCK #6 HOLE	2	
15		9006418-01	SCR, PHL PAN HD TT #8-32 x .38	3	
16		9006660-00	WASHER, FLAT #8	2	
~~17~~		~~9009165-00~~	~~CLIP, FAN~~	~~8~~	
18		9006653-00	WASHER, FLAT #6	2	
19		9007031-00	CABLE TIE	1	
20		9009321-00	LOCKTITE	A/R	
21		9009255-00	LABEL	1	

E.C.O. NO. MRØØ1

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV
REAR PANEL ASSY	D-AD-7015986-0-0	B	PL	7015986-0-0	A
	SHEET 1 OF 2	INSERTION PARTS LIST DATA BASE REV			

DRB 125

MR

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY MARK PASCARELLI DATE 14 SEP 78	CHECKED D. Daly DATE 16 OCT 78	SECTION 1
ENG V. Dempsey DATE 20 OCT 78	PROD J.D. Miller DATE 20 Oct 78	ISSUED SECTION 1

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION 7015986-00	NOTES: / REF DESIGNATION
22	B-IA-7016036-0-0	7016036-04	JUMPER ASSY	1	
23		9007649-00	WASHER, EXT TOOTH LOCK #6	1	
24		9010098-00	CAP, TOGGLE VINYL	1	

E.C.O. NO.

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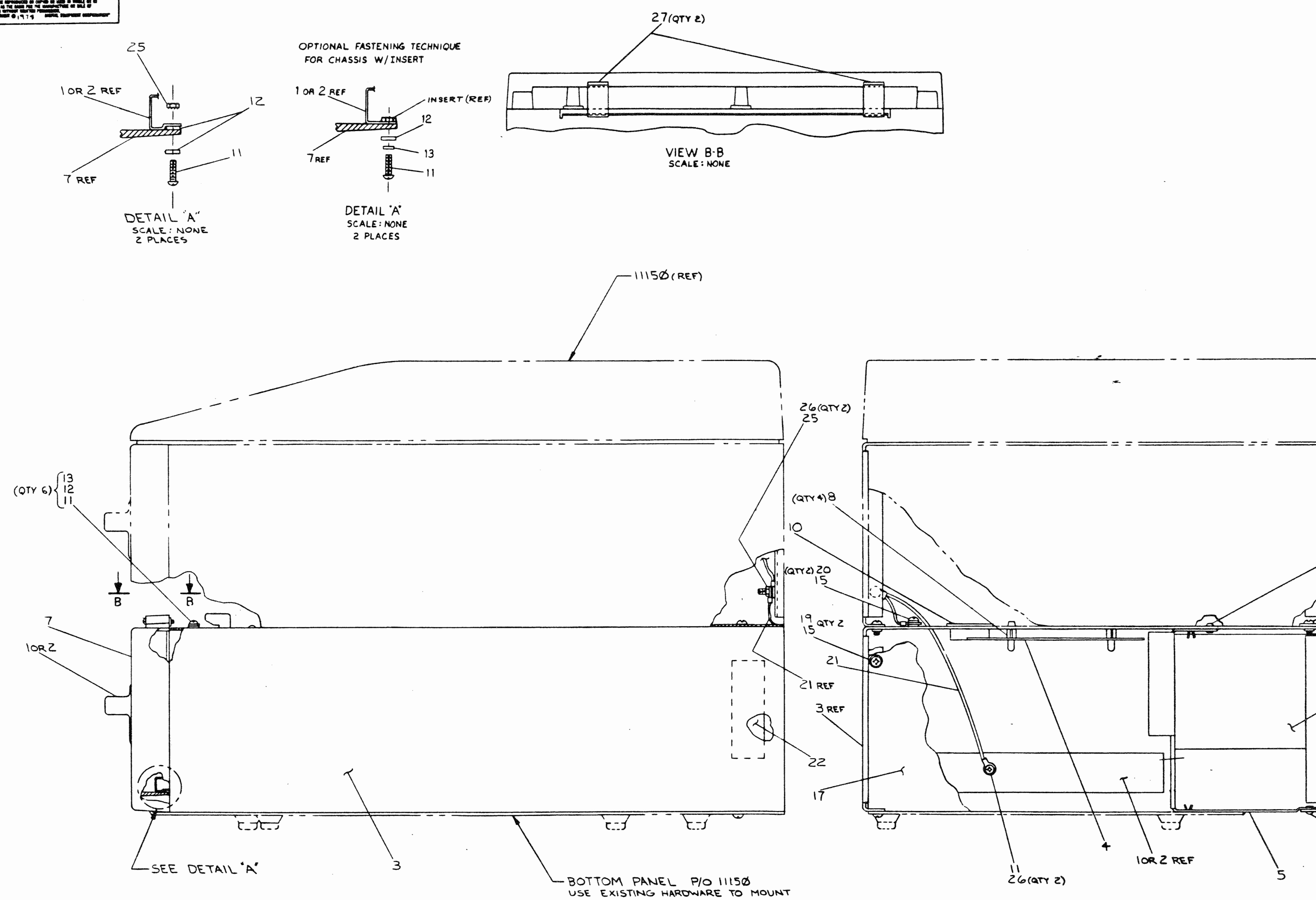
TITLE: REAR PANEL ASSY

ASSY NO. D-AD-7015986-0-0 | SIZE B | CODE PL | NUMBER 7015986-0-0 | REV. A

SHEET 2 OF 2 | INSERTION PARTS LIST DATA BASE REV

DRB 125

MR



CAUTION:
OFF SHEETS PARTS LIST EXISTS
SEE B-PL-RXT01-0-0

FIRST USED ON 11150

TITLE: ADDITIONAL FLOPPY DRIVE

NEXT HIGHER ASSY: B-LL-RXT01-0

MATERIAL: SEE PARTS LIST
FINISH: NONE

SCALE 1/1 — SHEET 1 OF 1

SIZE B — CODE UA — NUMBER RXT01-0-0 — REV. A

REVISIONS: REV. A — CHANGE NO. RXT01-MR001 — V. DEMPSEY

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Peracchi
DATE 18 JUN 78
CHECKED T. Hunt
DATE 19 Oct 78
SECTION 1
ENG C. Dempsey
DATE 20 OCT. 78
PROD J. Miller
DATE 20 Oct 78
ISSUED SECTION 1

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION RXTØ1-AA	RXTØ1-AC	REF DESIGNATION
1	E-UA-7013077-0-0	7013077-02	DRIVE, FLEXIBLE DISK	1	-	
2	E-UA-7013077-0-0	7013077-03	DRIVE, FLEXIBLE DISK	-	1	
3	E-MD-7420984-0-0	7420984-00	HOUSING, DRIVE	1	1	
4	D-IA-7015989-0-0	7015989-00	CABLE, EXTENDER	1	1	
5	D-MD-7420982-0-0	7420982-00	HOUSING, POWER SUPPLY	1	1	
~~6~~	~~B-MD-7421107-0-0~~	~~7421107-00~~	~~CLIP, BEZEL~~	~~2~~	~~2~~	
7		1215475-00	BEZEL, FRONT	1	1	
8		9009747-01	SUPPORT, CIRCUIT BOARD	4	4	
9		9009626-00	RIVET, POP	3	3	
10		9008964-00	BUSHING, SNAP NYLON (1.50)	1	1	
11		9006024-01	SCR, PHL PAN HD #6.32 X .50	9	9	
12		9006653-00	WASHER, FLAT #6 HOLE	8	8	
13		9007801-00	WASHER, LOCK #6	8	8	
~~14~~		~~9006015-01~~	~~SCR, PHL PAN HD #4-40 X .75~~	~~2~~	~~2~~	
15		9006418-01	SCR, PAN HD TAPTITE #8-32 X .38	5	5	
16	C-MD-7421497-0-0	7421497-00	PANEL, INSERT	1	1	
17	C-MD-7420981-0-0	7420981-00	PANEL, REAR DRIVE "1"	1	1	
~~18~~		~~9009321-00~~	~~LOCKTITE~~	~~A/R~~	~~A/R~~	
19		9006660-00	WASHER, FLAT #8	2	2	
20		9008072-00	WASHER, EXT TOOTH LOCK #8	2	2	
21	C-IA-7016458-0-0	7016458-00	JUMPER DAISY LINK	1	1	

NOTES:

E.C.O. NO. MF001

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TITLE DRIVE, ADDITIONAL FLOPPY

ASSY NO. E-UA-RXTØ1-Ø-Ø

SIZE B | CODE PL | NUMBER RXTØ1-Ø-Ø | REV. A

SHEET 1 OF 2

INSERTION PARTS LIST DATA BASE REV

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Pascarelli DATE 18 NOV 78	CHECKED T. Swiss DATE 19 OCT 78	SECTION 1
ENG C. H. Impagey DATE 20 OCT. 78	PROD J Smuller DATE 20 Oct 78	ISSUED SECTION 1

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION RXTØ1-AA	RXTØ1-AC	NOTES / REF DESIGNATION
22		9009255-00	LABEL	1	1	
23		9007031-00	CABLE TIE	2	2	
24		9007032-00	CABLE TIE	1	1	
25		9006560-00	NUT KEP #6-32	3	3	
26		9007649-00	WASHER, EXT TOOTH LOCK #6	6	6	
27	B-MD-7422151-0-0	7422151-00	BEZEL, CLIP RETAINER	2	2	

E.C.O. NO.

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
DRIVE, ADDITIONAL FLOPPY	E-UA-RXTØ1-Ø-Ø	B	PL	RXTØ1-Ø-Ø	A
	SHEET 2 OF 2	INSERTION PARTS LIST DATA BASE REV			

DRB 125

MR

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-DFT11-0-1 FIELD MAINT. PRINT SET

TABLE OF CONTENTS

B-DD-DFT11-0 EIA CONN.-PDT11 SYSTEM

B-PL-DFT11-0-0 EIA CONN.-PDT11 SYSTEM

B-PL-DFT11-0-3 DFT11 SHIP LIST

D-UA-5413427-0-0 EIA CONN.-CLUSTER MODULE

K-PL-5413427-0-DBP EIA CONN.-CLUSTER MODULE (PL)

D-CS-5413427-0-1 EIA CONN.-CLUSTER MODULE (CS)

MP00685 DLT11 PRINT SET

D-UA-5413267-0-0 EIA LEVEL CONVERTER TIM

K-PL-5413267-0-DBP EIA LEVEL CONVERTER TIM (PL)

D-CS-5413267-0-1 EIA LEVEL CONVERTER TIM (CS)

D-IA-7013370-0-0 CABLE, 24 COND, DIP SOCKET

UNIT VARIATIONS COVERED BY THIS PRINT SET
DFT11-AA
DFT11-AB

DFT11

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00686

REVISIONS

REV	CHG. NO.	DATE

USED ON OPTION/MODEL
PDT11/150

SHEET 1 OF 1

DRN. M. Morand	DATE 15 Aug 78	
CHK'D RW Counter	DATE 15 Aug 78	
PROJ. ENG. John Cyl	DATE 8-24-78	
FIELD SERV. D Reed	DATE 9-25-78	

digital

TITLE: FIELD MAINT. PRINT SET

SIZE	CODE	NUMBER	REV.
B	TC	DFT11-0-1	

DIST.

DRB 124

MR

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DRAWING DIRECTORY

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UNIT VARIATIONS

VAR	TITLE
DFT11-AA	EIA CONN.-STANDARD
DFT11-AB	EIA CONN.-CLUSTER

REVISIONS

REV.	CHANGE NO.	CHK

USED ON OPTION/MODEL: PDT11/150

DRN.	DATE	TITLE: EIA CONN.-PDT11 SYSTEM
CHK'D.	DATE	
PROJ. ENG.	DATE	
PROD.	DATE 20 Oct 78	

digital

SIZE	CODE	NUMBER	REV
B	DD	DFT11-Ø	

DIST.

SHEET 1 OF 2

DRB 106A

MR

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP00686	FIELD MAINT. PRINT SET (MP)	
	B-TC-DFT11-0-1	FIELD MAINT. PRINT SET (TC)	
	B-PL-DFT11-0-0	EIA CONN.-PDT11 SYSTEM	E/M
	B-PL-DFT11-0-3	DFT11 SHIP LIST	E/M
	A-SP-DFT11-0-2	DFT11 ENGINEERING SPEC	
	A-SP-3700383-06	PACKAGING INSTRUCTIONS	E/M
	EK-PDT11-UG-001	USER'S GUIDE	E/M
	CVKDAA	PDT11/150 SYSTEM EXERCISER	E/M
	D-AR-DFT11-0-4	PDT11 OPTION	E/M
2	B-DD-5413427-0	EIA CONN.-CLUSTER	E/M
3	B-DD-DLT11-0	PERIPHERAL	E/M
4	B-DD-5413267-0	EIA LEVEL CONVERTER TIM MDOULE	E/M
5	D-IA-7013370-0-0	CABLE,24 COND. DIP SOCKET (7IN.)	E/M

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE EIA CONN.-PDT11 SYSTEM

SHEET 2 OF 2 | SIZE B | CODE DD | NUMBER DFT11-0 | REV

DRB 108A

MR

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Marcano DATE 1 Aug 78 | CHECKED RW Carrier DATE 15 Aug 78 | SECTION 1

ENG DATE Oct 2nd 78 | PROD J Miller DATE 20 Oct 78 | ISSUED SECTION 1

NOTES: * THE DFT11-AB REQUIRES A DFT11-AA IN THE PDT11/150 SYSTEM.
** FOR I.C. LOCATIONS E2, E6, & E10 ON DLT11-AA (ITEM #2).

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION DFT11-AA	DFT11-AB		REF DESIGNATION
1		5413427	EIA CONN.-CLUSTER	-	1		
2		DLT11-AA	PERIPHERAL MODULE	1	*		
3		5413267	EIA LEVEL CONVERTER TIM	1	-		
4		7013370-ØH	CABLE, 24 COND. DIP SOCKET	1	1		
5		2115103	I.C. USART 2651	-	3	**	
6		9008451	SCREWLOCK #4-40X.312	6	6		
7		9007603	SPACER, HEX .138ID. X .437LG.	1	1		
8		9006560	NUT, KEP #6-32X .31AF	1	1		
9		9006653	WASHER, FLAT	1	1		

E.C.O. NO.

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TITLE: EIA CONN.-PDT11 SYSTEM

ASSY NO. B-DD-DFT11-Ø | SIZE B | CODE PL | NUMBER DFT11-Ø-Ø | REV.

SHEET 1 OF 1 | INSERTION PARTS LIST DATA BASE REV

DRB 125

MR

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Nacard	CHECKED R.W. Counter	SECTION 1
DATE 16 Aug 78	DATE 15 Aug 78	
ENG	PROD J. Smitten	ISSUED SECTION 1
DATE	DATE 30 Oct 78	

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION DFT11-AA	DFT11-AB	REF DESIGNATION
1		DFT11-AA	EIA CONN.-STANDARD	1	-	
2		DFT11-AB	EIA CONN.-CLUSTER	-	1	
3		MP00686	DFT11 PRINT SET	1	1	

NOTES:

E.C.O. NO.

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
DFT11 SHIP LIST	B-DD-DFT11-0	B	PL	DFT11-0-3	
	SHEET 1 OF 1	INSERTION PARTS LIST DATA BASE REV			

DRB 125

MR

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COMPONENT SIDE VIEW

REWORK INSTRUCTIONS

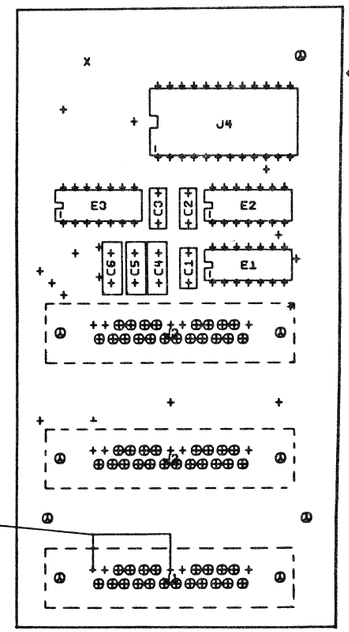
ECO #1

WIRE ADD:

1-1 J1-4 TO J1-7

91-07776-55 22 GA SOLID = ALTERNATE PART

91-07688-55 24 GA SOLID = ALTERNATE PART



NOTES: J1 J2 J3 INSERTED FROM ETCH SIDE

CHK	CHANGE NO	REV
	5413427-1	B
	JOHN CYR	
	5413427-2	C
	J. CYR	

ETCH REV. B
P.C. DESIGN DATA BASE REV. B

SIGNATURES	DATE
DRN.	
CHK	
ENG.	
PROJ. ENG.	
PROD.	

SCALE 2/1
SHT. 1 OF 2
NEXT HIGHER ASSY. B-DD-5413427-0

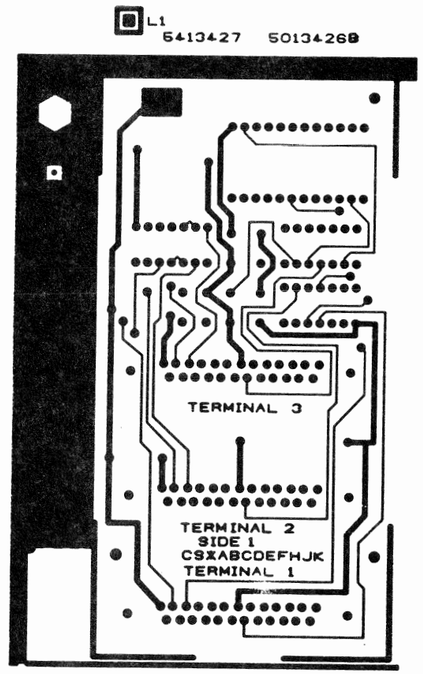
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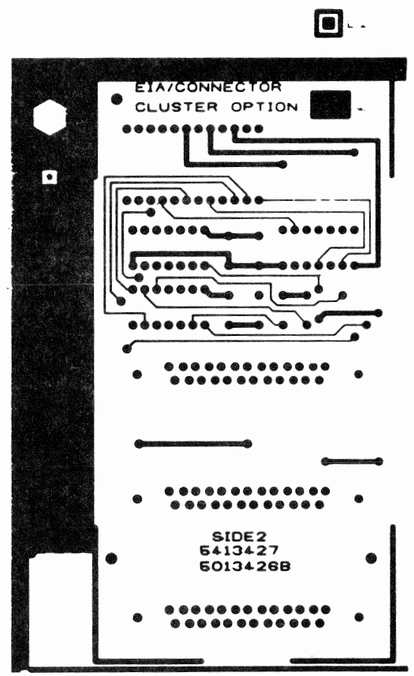
TITLE EIA CONNECTOR CLUSTER

SIZE	CODE	NUMBER	REV
D	UA	5413427-0-0	C

mk 1 MS# 190201B

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
EIA CONNECTOR CLUSTER	D	UA	5413427-0-0	C
SCALE 2/1 SHEET 2 OF 2	DIST.			

MR

5413427-0-0 C
SIZE D CODE UA NUMBER 5413427-0-0 REV C

P A R T S L I S T

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1	D-MD-5013426-0-0	5013426-00	ETCH BOARD FOR 5413427	1	
2	2		1001610-00	.01 MFD 50V -20+80 Z5U DISC 8000PF MIN	3	C1,C2,C3
3	3		1000023-00	330.0 MMF 100V 5%200PPM DM15S (10-00	3	C4,C5,C6
4	4		1214062-02	CONN 25POS STRAIGHT	3	J1,J2,J3
5	5		1215006-06	SOCKET 24PIN IC LOW PROFILE	1	J4
6	6		1910323-00	DEC 1489L RECEIVER,LINE,QUAD,EIA RS-232	2	E1,E2
7	7		1910322-00	DEC 1488L DRIVER,LINE,QUAD,EIA RS-232C	1	E3
8	8		9000033-02	SPACER, HEX, ALUM. 4-40, .187 X .437	6	
9	9		9006707-00	WASHER, NYLON, FLAT #6 .312 OD X .032 THK	6	
10	10		9008301-01	SCREW,PAN ,PHIL, 4-40X 1/4 SS/PAS	6	
11	11		9107350-55	WIRE,STRND,22AWG,IPVC UL1429 (91-00	A/R	
12	12		1210247-01	******** THIS ITEM IS NOT USED *********	-	

REVISION HISTORY		
CHK	ECO NO	REV
---	INIT	A
RWC	00001	B
MN	MR002	C

VARIATIONS FOR THIS ASSY.: 00,01

FIRST USED ON: PDT11/150

MADE BY:	E.WILSON	DATE: 10-APR-78
CHECKED:	R.W.CAUNTER	DATE: 10-APR-78
DSN.ENG.:	J.CYR	DATE: 02-MAY-78
PROD.:	R.HAMELTON	DATE: 02-MAY-78
RESP.ENG.:	J.CYR	DATE: 02-MAY-78

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
PARTS LIST
EIA CONNECTOR CLUSTER OPTION

SIZE	CODE	DOCUMENT NUMBER	REV
K	PL	5413427-0-DBF	C

EDIT# 12

ASSY.NO.: D-UA-5413427-0-0

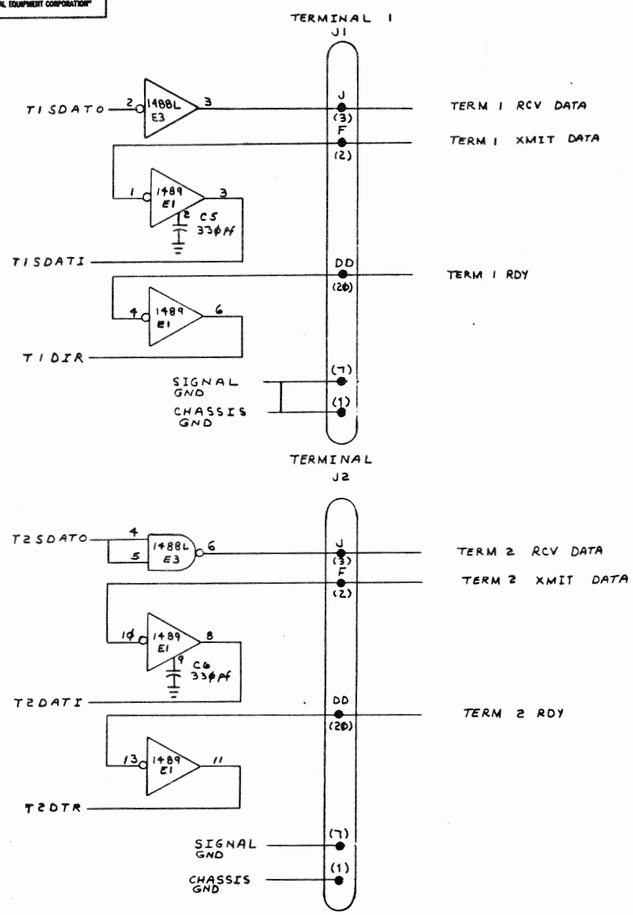
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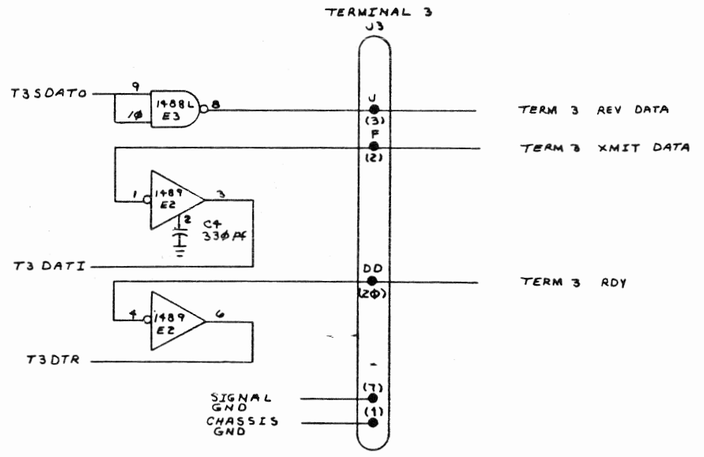
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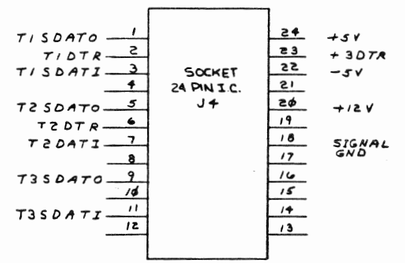
MR

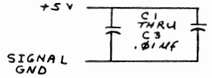
?LGTLQE DSKB: Logged out quota 2000 exceeded by 20 blocks

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REVISIONS			
DRN	CHANGE NO.	REV.	
JAC	5413427-1	B	
			J. CYR

DRN. E. Wilson	16 FEB 78	FIRST USED ON T.I.M.
CHK'D		
ENG.	2 MAY 78	TITLE EIA/CONNECTOR CLUSTER OPTION
PROJ. ENG.	2MAY78	
PROD.	2 MAY 78	
NEXT HIGHER ASSY. B-DD-5413427-0		SIZE D CODE CS NUMBER 5413427-0-1 REV. B
SCALE NONE		DIST.
SHEET 1 OF 1		

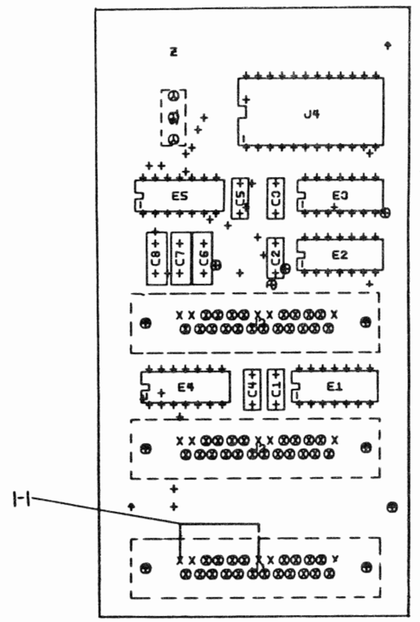
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COMPONENT SIDE VIEW

REWORK INSTRUCTIONS

ECO #1

WIRE ADD:
1-1 J1-1 TO J1-7
91-07776-55 22 GA SOLID = ALTERNATE PART
91-07688-55 24 GA SOLID = ALTERNATE PART



NOTES:

CHK	CHANGE NO	REV
Bar	5413267-1	D
JC	Wrong assembly	
	JOHN CYR	

SIGNATURES	DATE
DRN.	9-3-78
CHK'D	
ENG.	
PROJ. ENG.	
PROD.	

ETCH REV. D
P.C. DESIGN DATA BASE REV. D

SCALE 2/1
SHT. 1 OF 2
NEXT HIGHER ASSY. B-DD-5413267-0

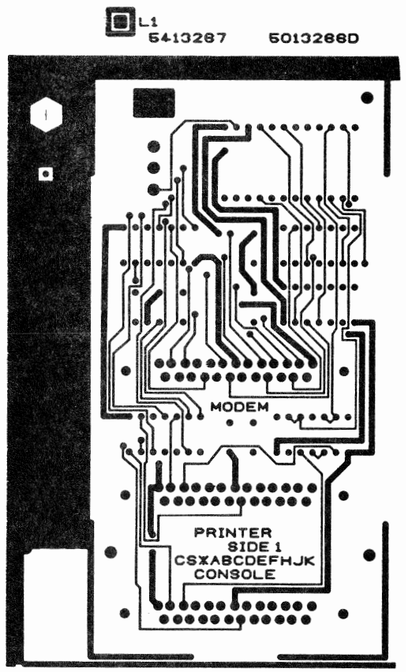
digital

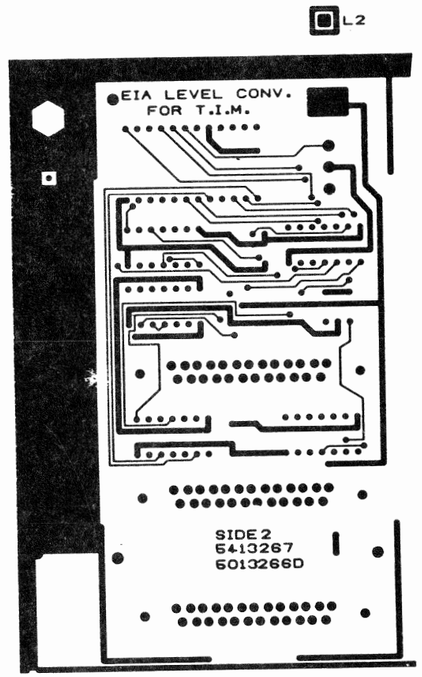
TITLE EIA LEVEL CONVERTER FOR TIM

SIZE	CODE	NUMBER	REV
D	UA	5413267-0-0	D

MS# 190085D

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
EIA LEVEL CONVERTER FOR TIM	D	UA	5413267-0-0	D
SCALE 2/1 SHEET 2 OF 2	DIST.			

SIZE D CODE UA NUMBER 5413267-0-0 REV. D

.TY 13267.LST
AUTOMATED BY PRTLST 2D(11)

P A R T S L I S T

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1	D-MD-5013266-0-0	5013266-00	ETCH BOARD FOR 5413267	1	
2	2		1001610-00	.01 MFD 50V -20+80 Z5U DISC 8000PF MIN	5	C1-C5
3	3		1000023-00	330.0 MMF 100V 5%200PPM DM15S (10-00	3	C6,C7,C8
4	4		1214062-02	CONN 25POS STRAIGHT	2	J1,J2
5	5		1211352-02	CONN,D SUB 25PIN SOCKET PC MNT	1	J3
6	6		1215006-06	SOCKET 24PIN IC LOW PROFILE	1	J4
7	7		1209484-01	SW,TOG 1P	1	S1
8	8		1910322-00	DEC 1488L DRIVER,LINE,QUAD,EIA RS-232C	2	E1,E2
9	9		1910323-00	DEC 1489L RECEIVER,LINE,QUAD,EIA RS-232	3	E3,E4,E5
10	10		9000033-02	SPACER, HEX, ALUM. 4-40, .187 X .437	6	
11	11		9006707-00	WASHER, NYLON, FLAT #6 .312 OD X .032 THK	6	
12	12		9008301-01	SCREW,PAN ,PHIL, 4-40X 1/4 SS/PAS	6	
13	13		9107350-55	WIRE,STRND,22AWG,IPVC UL1429 (91-00	A/R	

REVISION HISTORY			VARIATIONS FOR THIS ASSY.
CHK	ECO NO	REV	
---	INIT	C	00
RWC	00001	D	

FIRST USED ON: PDT11/150

MADE BY:	E.WILSON	DATE: 10-APR-78	
CHECKED:	R.W.CAUNTER	DATE: 10-APR-78	
DSN.ENG.:	J.CYR	DATE: 02-MAY-78	
PROD.:	R.HAMELTON	DATE: 02-MAY-78	
RESP.ENG.:	J.CYR	DATE: 02-MAY-78	

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
PARTS LIST
EIA LEVEL CONVERTER FOR T.I.M.

SIZE	CODE	DOCUMENT NUMBER	REV
K	PL	5413267-0-0BP	D

ASSY.NO.: D-UA-5413267-0-0

EDIT# 10

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CONSOLE
J1 *

TSDATO — 1488L E1 — J (3) TERM RCV DATA
F (2) TERM XMIT DATA
TSDATI — 1489 E4, C8 33Ø pf
DD (20) TERM RDY
TDTR — 1489 E4
CHASSIS GND (1)
SIGNAL GND (7)

SEE NOTE 1
S1
1 (ON) TEST L
SIGNAL GND 2 (OFF) NORMAL
3 (ROM) FPRESET L

+5V
C1 .Ø1 4F
C2 THRU C5 .Ø1 4F

NOTES:
1. * J1, J2, J3 & SW ARE MOUNTED ON SIDE 2

PRINTER
J2 *

LPSDATO — 1488L E1 — J (3) LP RCV DATA
F (2) LP XMIT DATA
LPSDATI — 1489 E4, C7 33Ø pf
DD (2Ø) LP RDY
LP DTR — 1489 E4
CHASSIS GND (1)
SIGNAL GND (7)

TSDATO	1	24	+5V
TDTR	2	23	FPRESET L
TSDATI	3	22	-5V
CDTR	4	21	C SYNC CLK R
LPSDATO	5	2Ø	+12V
LPDTR	6	19	C SYNC CLK T
LPSDATI	7	18	TEST L
CRTS	8	17	PB6
CSDATO	9	16	PB5
TRTS	1Ø	15	PB4
CSDATI	11	14	PB3
SIGNAL GND	12	13	PB2

SOCKET 24 PIN I.C. J4

MODEM
* J3

CSDATO — 1488L E1 — F (2) MODEM RCV DATA
J (3) MODEM XMIT DATA
CSDATI — 1489 E5, C6 33Ø pf
JJ (12) SEC. CARRIER DETECT
PB2 — 1489 E5
T (5) PA1 CTS
PB5 — 1489 E5
X (22) RING
PB6 — 1489 E5
BB (8) CARRIER DETECT
PB4 — 1489 E3
Z (6) (DATA SET RDY) NOT REQUIRED FOR DLV11-E COMPATABILITY
PB3 — 1489 E3
TRTS — 1488L E1 — FF (11) SEC RTS
CRTS — 1488L E2 — V (4) PRI RTS
CDTR — 1488L E2 — DD (2Ø) DTR
R (17) SYN CLK R
CSYNC CLK R — 1489 E3
N (15) SYN CLK T
CSYNC CLK T — 1489 E3
CHASSIS GND (1)
SIGNAL GND (7)

REVISIONS			
DIR.	CHANGE NO.	REV.	
	5413267-1	D	25 SEPT 78
			JOHN CYR

DRN.		20 FEB 78
CHK'D		27 MAR 78
ENG.		27 MAR 78
PROJ. ENG.		27 MAR 78
PROD.		27 MAR 78
NEXT HIGHER ASSY.	B-DD-5413267-0	
SCALE	NONE	
SHEET	1 OF 1	

FIRST USED ON T.I.M. digital

TITLE EIA LEVEL CONVERTER FOR T.I.M

SIZE D | CODE CS | NUMBER 5413267-0-1 | REV. D

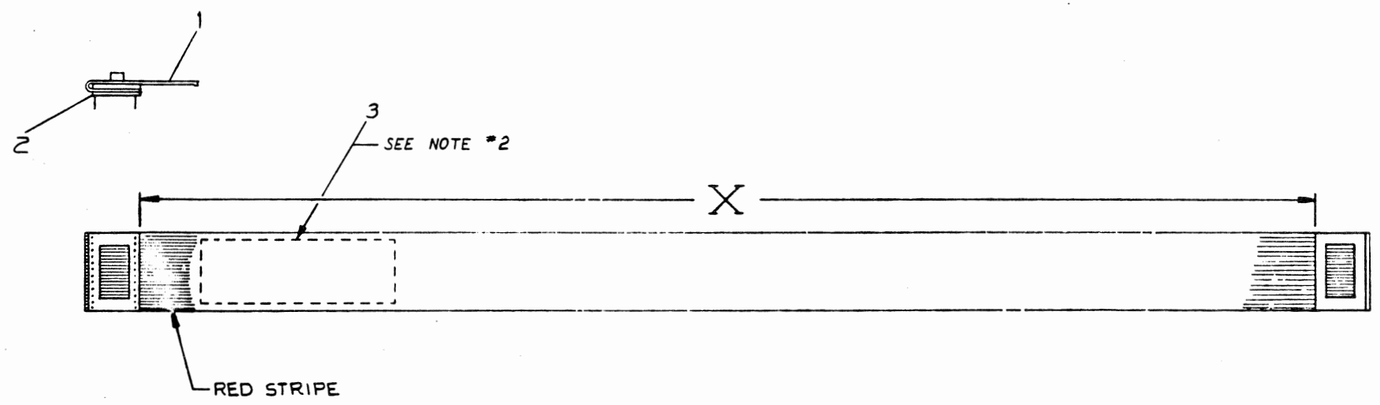
DIST.

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LEGEND	
NUMBER	DIMENSION "X"
7013370-1F	18 INCHES
7013370-ØH	7 INCHES
7013370-ØL	10 INCHES
7013370-1D	16 INCHES
7013370-ØC	3 INCHES
7013370-ØD	4 INCHES

SEE NOTE 1

NOTES:
1. THE PRE-CUT CABLE LENGTH FOR EACH VARIATION REQUIRED SHOULD BE 3 INCHES LONGER THAN DIMENSION "X".
2. EITHER ONE OF TWO METHODS OF CABLE IDENTIFICATION ARE ACCEPTABLE: I.D. LABEL P/N 9009255-00 OR RUBBER STAMP.



ITEM NO.	DWG./PART NO.	DESCRIPTION	QTY
1	9009255-00	I.D. LABEL	3
2	1210722-02	CONN. 24 PIN DIP	2
A/R	9107738-03	CABLE, 24 COND. 28 AWG.	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
ANGLES ±0° 30'							
SURFACE QUALITY IN MICRONINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.018	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH

DRN: K. Dumeville 19 Jan 77
CHK'D: R. O'Connell 20 Jan 77
ENG: Delano P. Cyr 20 JAN 77
PROJ. ENG: John Cyr 20 JAN 77
PROD: Richard Fitch 20 Jan 77

NEXT HIGHER ASSY.: E-UA-TA36-Ø-Ø

SCALE: 1/1

SHEET 1 OF 1

FIRST USED ON: TA36

digital

TITLE: CABLE, 24 COND DIP SOCKET

SIZE: D | CODE: IA | NUMBER: 7013370-0-0 | REV: B

DIST.

REVISIONS			
CHK	CHANGE NO.	REV.	
F.K.	7013370-MR001	A	19-DEC-77
D. LELLANC			27-JAN-78
J. [illegible]	LA36 - PN443	B	26 Jan 78
R. O'CONNELL			1/8/77

PN

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-DLT11-0-1	FIELD MAINT. PRINT SET TABLE CONTENTS
B-DD-DLT11-0	PERIPHERAL
B-PL-DLT11-0-0	PERIPHERAL (PL)
B-PL-DLT11-0-3	DLT11 SHIP LIST
E-UA-5413269-0-0	PERIPHERAL MODULE
K-PL-5413269-0-DBP	PERIPHERAL MODULE (PL)
D-CS-5413269-0-1	PERIPHERAL MODULE (CS)

UNIT VARIATIONS COVERED BY THIS PRINT SET
DLT11-AA

DLT11

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00685

REVISIONS	REV.	CHG. NO.	DATE

USED ON OPTION/MODEL: PDT11/150

SHEET 1 OF 1

DRN. M. Moral	DATE 11 Aug 78	
CHK'D R.W. Counter	DATE 15 Aug 78	
PROJ. ENG. John Cyr	DATE 8-24-78	
FIELD SERV. D. Nealand	DATE 9-25-78	

digital

TITLE: FIELD MAINT. PRINT SET (DLT11-0)

SIZE	CODE	NUMBER	REV.
B	TC	DLT11-0-1	

DIST.

SIZE B | CODE TC | NUMBER DLT11-0-1 | REV.

DRB 124

MR

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DRAWING DIRECTORY

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UNIT VARIATIONS

VAR	TITLE
DLT11-AA	PERIPHERAL

REVISIONS

REV.	CHANGE NO.	CHK

USED ON OPTION/MODEL: PDT11/150

SHEET 1 OF 2

DRN. M. Morano	DATE 11Aug78	TITLE: PERIPHERAL	digital
CHK'D. RW Counter	DATE 15Aug78		
PROJ. ENG. [illegible]	DATE 8-24-78	SIZE B	CODE DD
PROD. J.D. Mellon	DATE 28Aug78	NUMBER DLT11-0	REV
		DIST.	

DRB 106A

MR

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP00685	FIELD MAINT. PRINT SET (MP)	
	B-TC-DLT11-0-1	FIELD MAINT. PRINT SET (TC)	
	B-PL-DLT11-0-0	PERIPHERAL (PL)	E/M
	B-PL-DLT11-0-3	DLT11 SHIP LIST	E/M
	A-SP-3700383-03	PACKAGING INSTRUCTIONS	E/M
	CVKDAA	PDT11/150 SYSTEM EXERCISER	E/M
	A-SP-DLT11-0-2	DLTII ENGINEERING SPEC.	
2	B-DD-5413269-0-0	PERIPHERAL MODULE	E

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE	SHEET	SIZE	CODE	NUMBER	REV
PERIPHERAL	2 OF 2	B	DD	DLT11-0	

DRB 108A

MR

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Maynard DATE 11 Aug 78	CHECKED R W Courter DATE 15 Aug 78	SECTION 1
ENG John Cyr DATE 8-24-78	PROD J D Mullen DATE 20 Oct 78	ISSUED SECTION 1

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION DLT11-AA	NOTES: / REF DESIGNATION
1		5413269	PERIPHERAL MODULE	1	

E.C.O. NO.

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
PERIPHERAL	B-DD-DLT11-0	B	PL	DLT11-0-0	
	SHEET 1 OF 1	INSERTION PARTS LIST DATA BASE REV			

DR3 125

MR

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M Morrand	CHECKED RW Carter	SECTION 1
DATE 11 Aug 78	DATE 15 Aug 78	
ENG Sohn Gill	PROD JP Mullen	ISSUED SECTION 1
DATE 9-24-78	DATE 30 Oct 78	

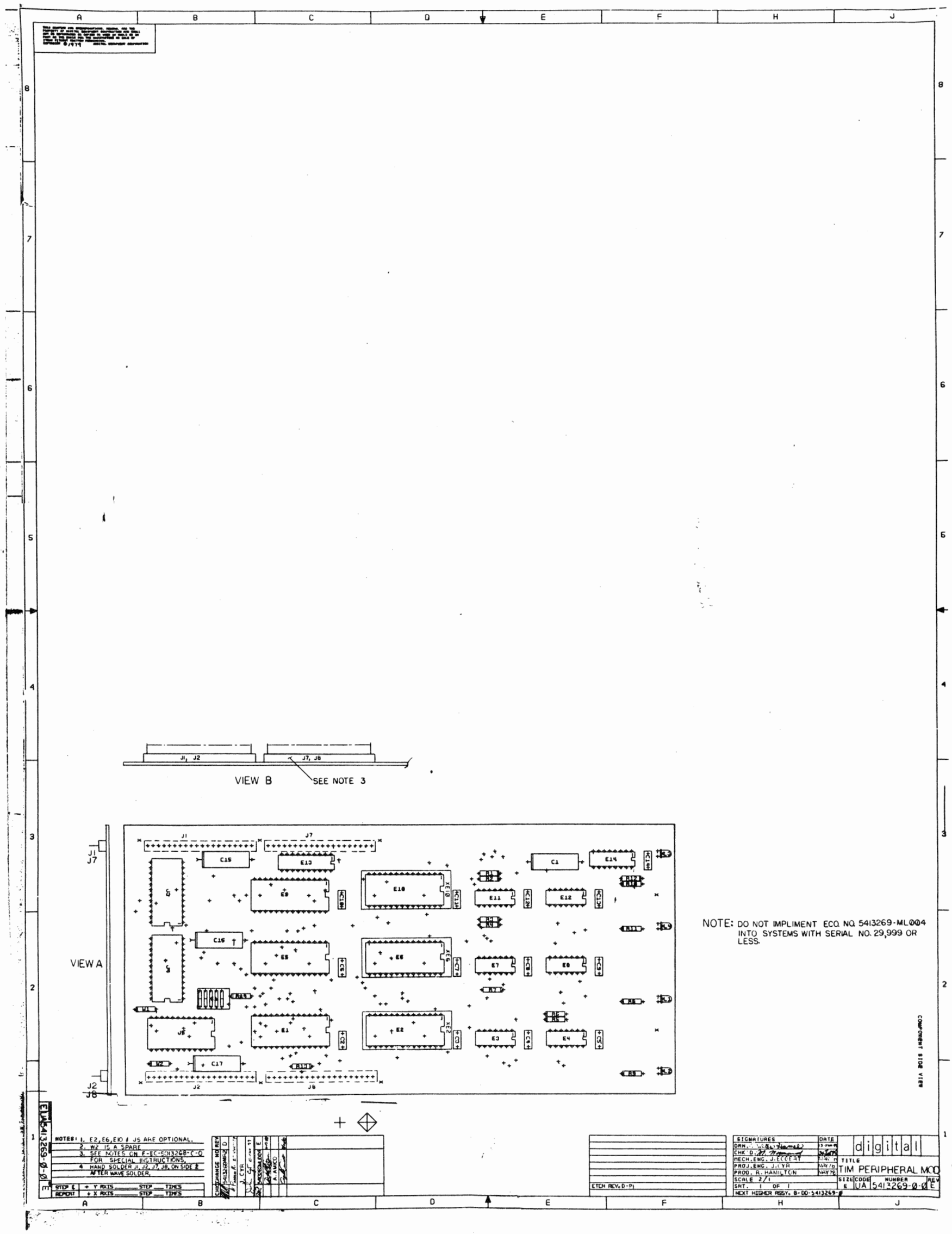
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION DLT11-AA	NOTES: / REF DESIGNATION
1		DLT11-AA	PERIPHERAL	1	
2		MP00685	DLT11 PRINT SET	1	

E.C.O. NO.

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
DLT11 SHIP LIST	B-DD-DLT11-Ø	B	PL	DLT11-Ø-3	
	SHEET 1 OF 1	INSERTION PARTS LIST DATA BASE REV			

DRB 125


VIEW B
SEE NOTE 3
VIEW A
COMPONENT SIDE VIEW
NOTE: DO NOT IMPLIMENT ECO NO. 5413269-ML004 INTO SYSTEMS WITH SERIAL NO. 29,999 OR LESS.
NOTES: 1. E2, E6, E10 & J5 ARE OPTIONAL.
2. W2 IS A SPARE
3. SEE NOTES ON F-EC-5013268-C-Q FOR SPECIAL INSTRUCTIONS.
4 HAND SOLDER J1, J2, J7, J8, ON SIDE 2 AFTER WAVE SOLDER.
STEP E + Y AXIS ___ STEP ___ TIMES
REPORT + X AXIS ___ STEP ___ TIMES
ECO CHANGE WORK
SIGNATURES
DRN.
CHK'D.
MECH.ENG. J. ECCLES
PROJ.ENG. J. LYR
PROD. R. HAMILTON
SCALE 2/1
SHT. 1 OF 1
NEXT HIGHER ASSY. 8-00-5413269-
ETCH REV. 0-P1
digital
TITLE
TIM PERIPHERAL MOD
SIZE E
CODE UA
NUMBER 5413269-0-0
REV E

MR

AUTOMATED BY PRTLST,2D(11) P A R T S L I S T SHEET A1 OF A1

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5013268-0-0	5013268-00	ETCH BOARD FOR 5413269	1	
2	2		1004814-00	47 MFD 20V 10% 150D S,TA	1	C1
3	3		1001610-00	.01 MFD 50V +20+80 Z5U AXIAL	13	C2-C14
4	4		1012084-01	8 MFD 25V G% 30D AL EL	3	C15,C16,C17
5	5		1110324-00	LED 1MCD@10MA PIV=3	4	L1-L4
6	6		1215006-06	SOCKET 24PIN IC LOW PROFILE	2	J3,J4
7	7		1211164-01	SW,DIP 1P 1A 5POS	1	S1
8	8		1300479-00	10 K 1/4W 5% CC	10	R1-R7,R12-R14
9	9		1301322-00	180 1/4W 5% CC	4	R8-R11
10	10		2115103-00	RECEIVER-PCI	3	E1,E5,E9
11	11		1215006-07	SOCKET 28PIN IC LOW PROFILE	3	XE2,XE6,XE10
12	12		1912805-00	LS08 AND GATE-QUAD 2IN,PU	1	E3
13	13		1912803-00	LS04 INVERTER GATE-HEX 1I	2	E4,E11
14	14		1912816-00	LS32 OR GATE-QUAD 2IN,POS	2	E7,E8
15	15		1909928-00	7416 INVERTER GATE-HEX 1I	1	E12
16	16		1915218-00	LS245 TRANSCEIVER,BUS,OCT	1	E13
17	17		1912837-00	LS123 ONE SHOT-DUAL,RETRIG	1	E14
18	18		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1
19	19		9105740-55	*** THIS ITEM IS NOT USED ***	-	

REVISION HISTORY		
ENG	ECO NUMBER	REV
---	INIT	B
JC	5413269-MR002	C

BASIC PART NO: 5413269
SECTION A OF A
SECTION.VARIATION INDEX
[A] 00
[B]
[C]
[D]
[E]
[F]
[H]
[J]
[K]
[L]
[M]
[N]

DRN:	E.WILSON	DATE: 04-APR-78
CHK'D:	R.W.CAUNTER	DATE: 19-APR-78
DES.ENG:	J.CYR	DATE: 02-MAY-78
RESP.ENG.:	J.CYR	DATE: 02-MAY-78
MFG.ENG.:	R.HAMELTON	DATE: 02-MAY-78
ASSEMBLY NUMBER: E-UA-5413269-0-0		TOP DOCUMENT NUMBER: PDT11/150

D I G I T A L

TITLE: PARTS LIST
5413269
TIM PERIPHERAL MODULE

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	5413269-0-0BP	C

FILE NAME: Z0537C.PLS
EDIT #: 9

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+5V
R8 180
USER DEFINED
L1 LED
GP1 L
7416 E12
+5V
R9 180
USER DEFINED
L2 LED
GP2 L
7416 E12
+5V
R10 180
DC PWR ON
L3 LED
+5V
R11 180
SYSTEM RUN
L4 LED
+5V
R12 10K
C1 .47uF
IFCLR L
+5V
74 LS123 E14
7416 E12
INIT H
74 LS04 E11

BLANK 1 H
TIM FD SEL L
74 LS08 E3
74 LS04 E9
RDL
DIR ENBG 74LS245 E13
HDBAD Ø H
HDBAD 1 H
HDBAD 2 H
HDBAD 3 H
HDBAD 4 H
HDBAD 5 H
HDBAD 6 H
HDBAD 7 H
PBAD Ø
PBAD 1
PBAD 2
PBAD 3
PBAD 4
PBAD 5
PBAD 6
PBAD 7

J5 EXPANSION OPTION
PBAD Ø
PBAD 1
PBAD 2
PBAD 3
PBAD 4
PBAD 5
PBAD 6
PBAD 7
-5V
+5V
A1Ø
+12V
I/O 1Ø L
INIT H
WRL
RDL
-5V
A9
A8

W2
W1
UART CLK (158.4 KHZ)
+5V

SOCKET J4 CONNECTOR MODULE #1
TSDATO
TØDTR
TSDATI
CDTR
LPSDATO
LPDTR
LPSDATI
CRTS
CSDATO
TRTS
CSDATI
FPRESET L
-5V
C SYNC CLK R
+12V
C SYNC CLK T
TEST L
PB6
PB5
PB4
PB3
PB2

OPTION SOCKET J3 CONNECTOR MODULE #2
T1SDATO
T1DTR
T1SDATI
T2SDATO
T2DTR
T2SDATI
T3SDATO
T3SDATI
+5V
T3DTR
-5V
+12V

S1-1 AUTO BD H
S1-2 LTC EN H
S1-3 REFR EN H
S1-4 BTEST L
S1-5 MFG TST EN L
TEST L

+5V C15 8uF C2 THRU C13 .01uF C14 .01uF
+12V C17 8uF -5V C16 8uF

J1
PB6
PB2
PB3
PB4
PB5
BLANK 1 H
+5V
HDBAD Ø H
HDBAD 1 H
TIM FD SEL L
A1Ø H
A8 H
A9 H
HDBAD 7 H
HDBAD 6 H
HDBAD 5 H
HDBAD 4 H
HDBAD 3 H
HDBAD 2 H
I/O 1.5 L
PDA H
PTBMT H
CDA H
HALT H
TDA H
IFCLR L
J7

J2
FPRESET L
REFR EN H
-5V
LTC EN H
I/O 1Ø L
+12V
BTEST L
TSDAT1
UART CLK (158.4KHZ)
BRCLK (5.0688 MHZ)
INIT H
I/O 3 L
I/O 4 L
I/O 2 L
WRL
RDL
I/O 13 L
I/O 14 L
I/O 12 L
PC5 H
CTBMT H
TTBMT H
J8

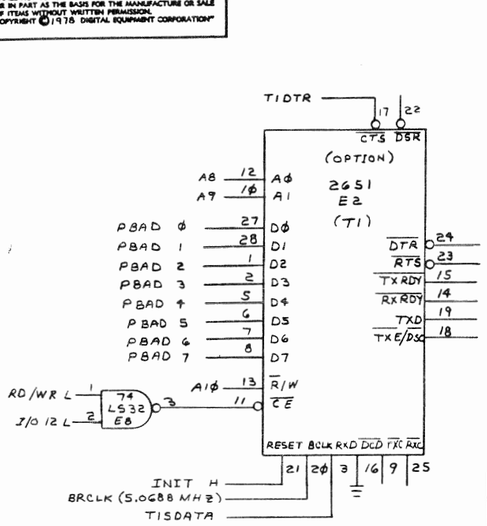
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CHK	CHANGE NO.	REV
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	5413269-ML004	D

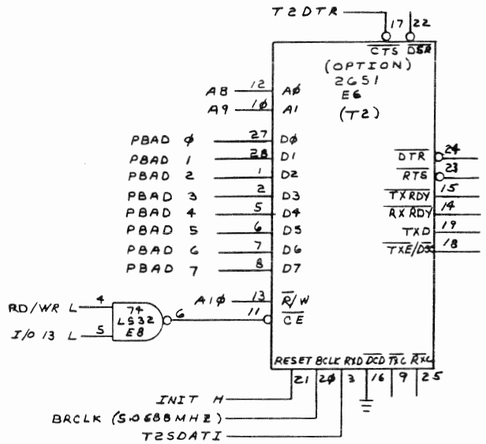
J CYR 13 MAR 79
A. AMICO 2-MAY-79

DRN. E Wilson	7-APR-78	FIRST USED ON PDT11/150
CHK'D R Lawler	10 Apr 78	
ENG. J Cyr	2-MAY-78	TITLE TIM PERIPHERAL MODULE
PROJ. ENG. J Cyr	2-MAY-78	
PROD. E Hall	2-MAY-78	
NEXT HIGHER ASSY.	B-DD-5413269-0	
SCALE NONE		SIZE D CODE CS NUMBER 5413269-0-1 REV. D
SHEET 1 OF 2		DIST.

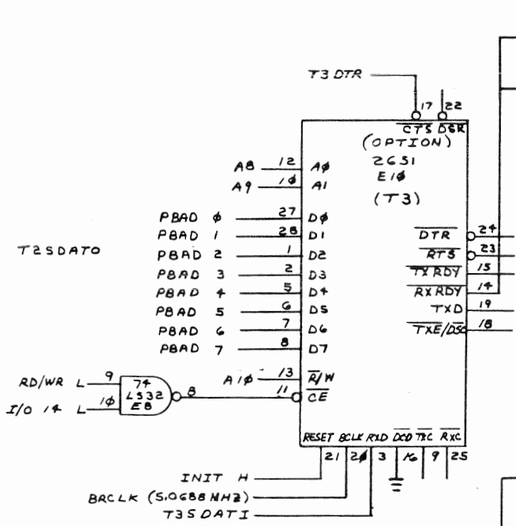
D CS5413269-0-1 D

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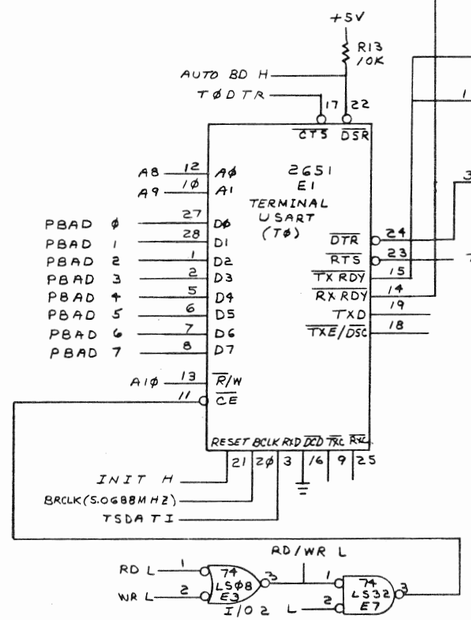


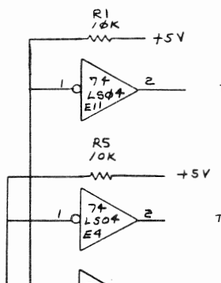


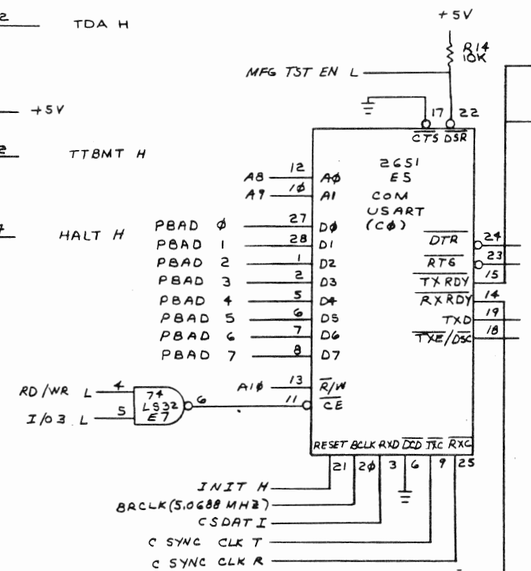
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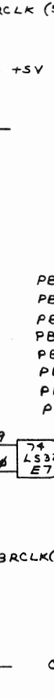


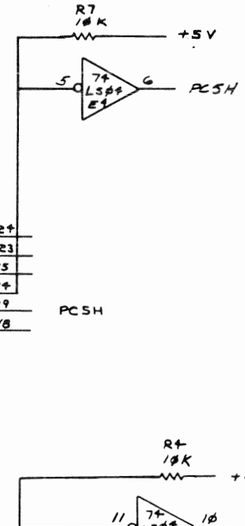
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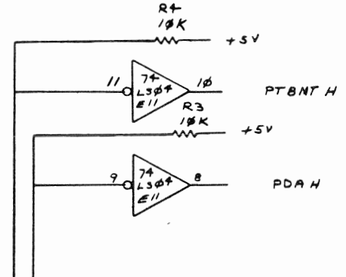












REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
TIM PERIPHERAL MODULE	D	DCS	5413269-0-1	D
SCALE	SHEET 2 OF 2	DIST.		

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TABLE OF CONTENTS

B-TC-MST11-Ø-1	FIELD MAINT. PRINT SET TABLE OF CONTENTS
B-DD-MST11-Ø	TIM RAM OPTION
A-PL-MST11-Ø-Ø	TIM RAM OPTION
A-PL-MST11-Ø-3	MST11 - SHIP LIST
A-SP-MST11-Ø-2	TIM MEMORY DAUGHTER MODULE
E-UA-5413275-Ø-Ø	TIM MOS RAM
B-PL-5413275-Ø-Ø	TIM MOS RAM
D-CS-5413275-Ø-1	MST11 TIM RAM MODULE

UNIT VARIATIONS COVERED BY THIS PRINT SET
MST11-AA
MST11-AB
MST11-AC
MST11-AD
MST11-BA
MST11-BB
MST11-BC
MST11-BD
MST11-CA
MST11-CB
MST11-CC
MST11-CD

MST11
Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO. MPØØ653

REV. | SIZE B | CODE TC | NUMBER MST11-Ø-1

REVISIONS

REV.	CHG. NO.	DATE

USED ON OPTION/MODEL	
PDT11/15Ø	
PDT11/130	
PDT11/110	

SHEET 1 OF 1

DRN. RW Counter	DATE 9-25-78	digital
CHK'D RW Counter	DATE 9-25-78	TITLE: FIELD MAINT. PRINT SET (MST11-Ø)
PROJ. ENG. [illegible]	DATE [illegible]	SIZE B / CODE TC / NUMBER MST11-Ø-1 / REV.
FIELD SERV: D Keating	DATE 9-25-78	DIST.

DRB 124

MR

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UNIT VARIATIONS

VAR	TITLE
MST11-AA	TIM RAM OPTION NO MEMORY
MST11-AB	TIM RAM OPTION 8K MEMORY
MST11-AC	TIM RAM OPTION 16K MEMORY
MST11-AD	TIM RAM OPTION 30K MEMORY
MST11-BA	TIM RAM OPTION NO MEMORY
MST11-BB	TIM RAM OPTION 8K MEMORY
MST11-BC	TIM RAM OPTION 16K MEMORY
MST11-BD	TIM RAM OPTION 30K MEMORY
MST11-CA	TIM RAM OPTION NO MEMORY
MST11-CB	TIM RAM OPTION 8K MEMORY
MST11-CC	TIM RAM OPTION 16K MEMORY
MST11-CD	TIM RAM OPTION 30K MEMORY

REVISIONS
REV.
CHANGE NO.
CHK

USED ON OPTION/MODEL
PDT11/150
PDT11/130
PDT11/110

SHEET 1 OF 2

DRN. RW Counter — DATE 2 Jun 78
CHK'D. RW Counter — DATE 2 Jun 78
PROJ. ENG. [illegible] — DATE 6-2-78
PROD. Ralf Hauser — DATE 7-20-78

TITLE: TIM RAM OPTION

digital

SIZE	CODE	NUMBER	REV
B	DD	MST11-0	

DIST.

MR

DRB 106A

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MPØØ653	FIELD MAINTENANCE PRINT SET (MP)	
	B-TC-MST11-Ø-1	FIELD MAINTENANCE PRINT SET (TC)	
	A-PL-MST11-Ø-Ø	TIM RAM OPTION	
	A-PL-MST11-Ø-3	MST11-A SHIP LIST	
	A-SP-MST11-Ø-2	TIM MEMORY DAUGHTER MODULE	
	A-SP-MSTII-O-4	BLASTING A BOOT W/CUSTOMER INFORMATION	
	A-SP-3700383-01	PACKAGING INSTRUCTIONS	
	EK-PDTII-UG-ØØ1	USER'S GUIDE	
	CVKDAA	PDTII 150 SYSTEM EXERCISER	
2	B-DD-5413275-0	TIM MOS RAM	

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE	SHEET	SIZE	CODE	NUMBER	REV
TIM RAM OPTION	2 OF 2	B	DD	MST11-Ø	

DRB 108A

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY R.W. Caunter DATE 19 June 78 | CHECKED R.W. Caunter DATE 19 June 78 | SECTION 1

ENG [illegible] DATE 6-20-78 | PROD R.W. Hunter DATE [illegible] | ISSUED SECTION 1

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION												REF DESIGNATION
				MST11-AA	MST11-AB	MST11-AC	MST11-AD	MST11-BA	MST11-BB	MST11-BC	MST11-BD	MST11-CA	MST11-CB	MST11-CC	MST11-CD	
1		5413275-0	MST11 TIM RAM MODULE	1	-	-	-	1	-	-	-	1	-	-	-	
2		5413275-AA	MST11 TIM RAM MODULE 8K	-	1	-	-	-	1	-	-	-	1	-	-	*
3		5413275-BA	MST11 TIM RAM MODULE 16K	-	-	1	-	-	-	1	-	-	-	1	-	*
4		5413275-CA	MST11 TIM RAM MODULE 30K	-	-	-	1	-	-	-	1	-	-	-	1	*
5		23032F3	PDT11/150 ROM Ø (E7)	1	1	1	1	-	-	-	-	-	-	-	-	
6		23033F3	PDT11/150 ROM 1 (E19)	1	1	1	1	-	-	-	-	-	-	-	-	
7		23034F3	PDT11/110 ROM Ø (E7)	-	-	-	-	1	1	1	1	-	-	-	-	
8		23035F3	PDT11/110 ROM 1 (E19)	-	-	-	-	1	1	1	1	-	-	-	-	
9		23036F3	PDT11/130 ROM Ø (E7)	-	-	-	-	-	-	-	-	1	1	1	1	
10		23037F3	PDT11/130 ROM 1 (E19)	-	-	-	-	-	-	-	-	1	1	1	1	

NOTES:
1. * FOR VENDOR FOR MOS MEMORY CHIPS SEE B-PL-5413275-0-0.

E.C.O. NO. MST11-[illegible]

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DRB 125

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
TIM RAM OPTIONS	B-DD-MST11-Ø	B	PL	MST11-Ø-Ø	A
	SHEET 1 OF 1	INSERTION PARTS LIST DATA BASE REV			

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY K W Carriker
DATE 19 June '78
CHECKED K W Carriker
DATE 19 June '78
SECTION 1
ENG A Thompson
DATE 6-28-78
PROD Ralf Hamilton
DATE 7-20-78
ISSUED SECTION 1

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION												NOTES: / REF DESIGNATION
				MST11-AA	MST11-AB	MST11-AC	MST11-AD	MST11-BA	MST11-BB	MST11-BC	MST11-BD	MST11-CA	MST11-CB	MST11-CC	MST11-CD	
1		MST11-AA	MST11 TIM RAM MODULE	1	-	-	-	-	-	-	-	-	-	-	-	
2		MST11-AB	MST11 TIM RAM MODULE 8K	-	1	-	-	-	-	-	-	-	-	-	-	
3		MST11-AC	MST11 TIM RAM MODULE 16K	-	-	1	-	-	-	-	-	-	-	-	-	
4		MST11-AD	MST11 TIM RAM MODULE 30K	-	-	-	1	-	-	-	-	-	-	-	-	
5		MPØØ653	MST11 PRINT SET	1	1	1	1	1	1	1	1	1	1	1	1	
6		MST11-BA	MST11 TIM RAM MODULE	-	-	-	-	1	-	-	-	-	-	-	-	
7		MST11-BB	MST11 TIM RAM MODULE 8K	-	-	-	-	-	1	-	-	-	-	-	-	
8		MST11-BC	MST11 TIM RAM MODULE 16K	-	-	-	-	-	-	1	-	-	-	-	-	
9		MST11-BD	MST11 TIM RAM MODULE 30K	-	-	-	-	-	-	-	1	-	-	-	-	
10		MST11-CA	MST11 TIM RAM MODULE	-	-	-	-	-	-	-	-	1	-	-	-	
11		MST11-CB	MST11 TIM RAM MODULE 8K	-	-	-	-	-	-	-	-	-	1	-	-	
12		MST11-CC	MST11 TIM RAM MODULE 16K	-	-	-	-	-	-	-	-	-	-	1	-	
13		MST11-CD	MST11 TIM RAM MODULE 30K	-	-	-	-	-	-	-	-	-	-	-	1	

E.C.O. NO.

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TITLE MST11 SHIP LIST

ASSY NO. B-DD-MST11-Ø

SIZE B | CODE PL | NUMBER MST11-Ø-3 | REV.

SHEET 1 OF 1

INSERTION PARTS LIST DATA BASE REV

DRB 125

MR

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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION DATE 17MAY78

TITLE TIM Memory Daughter Module

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG	APPD	SIZE	CODE	NUMBER	REV
A. Turnoy	John Gr	A	SP	MST11-Ø-2	

DEC 16-(392)-1079A-R873 DRA 107A MR SHEET 1 OF 19

ENGINEERING SPECIFICATION CONTINUATION SHEET

TITLE TIM Memory Daughter Module

TABLE OF CONTENTS

1.Ø Document Scope
1.1 Reference Documents
2.Ø General Description
2.1 Purpose
2.2 Introduction
3.Ø Option Description
3.1 Hardware
3.1.1 Block Diagram Description
3.1.2 Interface Signals
3.1.3 Memory Options
3.1.4 Power Requirements
3.1.5 Ordering Information
3.1.6 Logic Description
3.1.6.1 Memory Matrix
3.1.6.2 Address Bus Mux
3.1.6.3 Bank Selector
3.1.6.4 RAS/CAS/MUX Logic
3.1.6.5 Memory Data Buffer
3.1.6.6 Byte Selector
3.1.6.7 Bootstrap PROM (ROM)
3.1.6.8 Boot ROM Selector
3.1.6.9 Reply Logic
3.1.7 Signal Connections
3.1.8 Power Consumption Details
3.1.9 RAS/CAS/MUX Timing Analysis
4.Ø Specifications
4.1 Environmental
4.2 Electrical
4.3 Mechanical
4.4 Configuration Chart

SIZE	CODE	NUMBER	REV
A	SP	MST11-Ø-2	

DEC FORM NO EN-01022-16-N370-(381) DRA 108 MR SHEET 2 OF 19

ENGINEERING SPECIFICATION CONTINUATION SHEET

TITLE TIM Memory Daughter Module

1.Ø Document Scope

This specification will define the mechanical, electrical and environmental characteristics of the Terminal Intelligence Module (TIM) Memory Daughter Module. (MDM) It is assumed the reader is familiar with the operation of the LSI-11 and has read a description of the Terminal Intelligence Module.

1.1 Reference Document

The Documents referenced by this specification are the following;

Refer to the Terminal Intelligence Module Engineering Spec (A-SP-) for a more complete description of the TIM.

SIZE	CODE	NUMBER	REV
A	SP	MST11-Ø-2	

DEC FORM NO EN-01022-16-N370-(381) DRA 108 MR SHEET 3 OF 19

ENGINEERING SPECIFICATION CONTINUATION SHEET

TITLE TIM Memory Daughter Module

2.Ø General Description

2.1 Purpose

This module is intended for use as resident memory with the Western Digital Chip Set on the Terminal Intelligence Module. It will contain LSI-11 code for the RXT-11 object program.

2.2 Introduction

This module has a MOS memory and a ROM or PROM. The memory can be 4K X 16, 8K X 16, 16K X 16 or 32K X 16 by using either 4K or 16K dynamic RAM chips.

The ROM (PROM) is used as a bootstrap to facilitate program loading. The ROM will contain the boot written in 11 code for the RXT-11 floppy disk.

3.Ø Option Description

The MST11 consists of a 5413275 TIM MOS RAM and all the reference documentation.

3.1 Hardware

3.1.1 Block Diagram Description

This module is intended for use as a memory of 4K (4Ø96), 8K (8192), 16K (16384) or 32K (32768) word by 16 bit with the Terminal Intelligence Module. Refer to the TIM Engineering Spec (A-SP-) for a complete description of the TIM.

This memory will function as the resident memory for the 11 based processor on the TIM. It will be the memory that contains the customer program or the RT11 operating system.

It connects to the Western Digital chip set via a connection from the TIM. Refer to section 3.1.2 for a complete description of the interface signals. It is designed as a daughter board and will not stand alone. It always operates as a slave device as it has no capability of bus mastership. Along with the optional memory matrix configurations, there is a 1K X 16 bootstrap ROM (PROM) for program loading.

The TIM memory Daughter Module consists of nine basic functional areas: the RAM Matrix, the address bus mux, the byte selector, the Bootstrap ROM (PROM), the boot ROM selector, and the reply logic. Figure 1 brings all these functional blocks together.

SIZE	CODE	NUMBER	REV
A	SP	MST11-Ø-2	

DEC FORM NO EN-01022-16-N370-(381) DRA 108 MR SHEET 4 OF 19

TIM MDM
BLOCK DIAGRAM

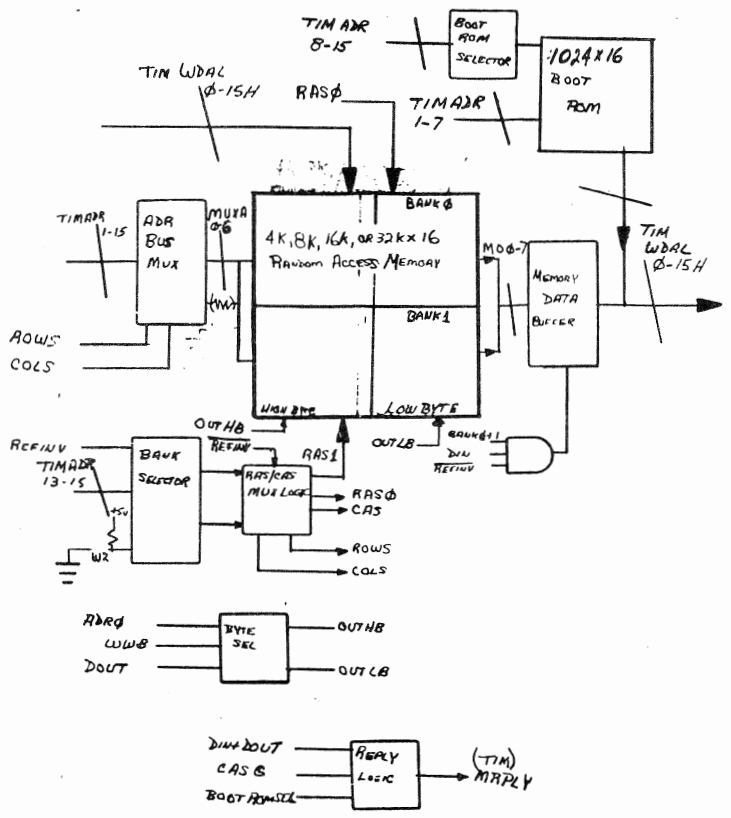


Figure 1

The remainder of this section will be devoted to explaining these nine functional blocks. This will provide an introduction to section 3.1.6.

The RAM Matrix

The RAM matrix consists of 4K or 16K dynamic RAM chips. The address for each 16 bit (or 8 bit) location is provided in two steps; first, a 6 (or 7) bit Row address is gated onto the tri-state address mux bus. Then RAS (L) is asserted. Approximately 8Ø nanoseconds (ns) after RAS L the mux control changes state to gate the 6 (or 7) bit column address onto the address bus mux. About 15Ø ns after that, CAS (L) is asserted, completing the address operation. Refer to figure 2 for a timing diagram of Addressing operations.

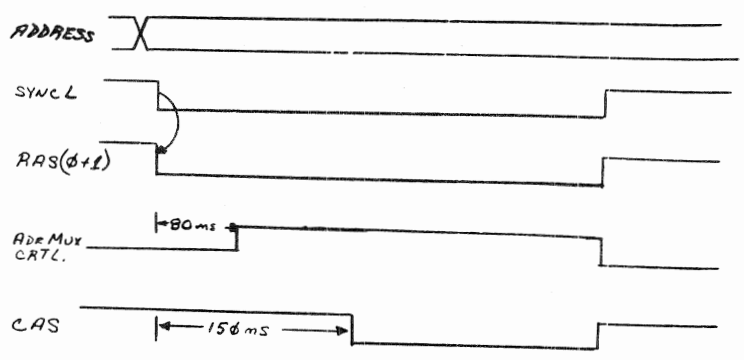


Figure 2
RAS/CAS/AMX Timing

Bank selection is facilitated by having separate RAS signals for each bank. RAS Ø L selects bank Ø while RAS 1 L selects bank 1.

Since this memory is a dynamic memory it must be refreshed at least every 2 millseconds to keep the data recirculating. This will be done by LSI-11 microcoded refresh cycles. 64 consecutive RAS cycles are performed every 1 millisecond. To refresh the 128 rows of a 16K memory, a two-state device is needed for the seventh row address bit.

The Address Bus Mux

This is a tri-state bus fed by address lines 1 to 14 for Row and Column addresses and address Ø to 5 and the extension for refresh cycles.

To allow for refreshing 128 rows with the 64 row refresh generated by the LSI-11 microcode a flip flop is attached to the seventh multiplexor input. This flip flop is toggled by refresh so that the first 64 rows are refreshed on the first interval then the next 64 rows are refreshed on the second interval. The refresh interval has to be 1 millisecond (ms) in order to refresh the 128 rows every 2 ms. When 4K chips are installed, this toggling is disabled.

The Bank Selector

A jumper (W2) is provided to select either 16K or 4K RAM chips. The jumper is installed for 4K parts and removed for 16K parts. If 16K RAM chips are used, (jumper removed), address bit 15 selects the bank. If 4K RAM chips are used Address 13, 14, and 15 are decoded to select the bank. Refresh will assert both Bank select signals. W3 is installed if only a single 4K is wanted, W4 is installed for a single 16K bank.

RAS/CAS/Mux Control Generator

Assertion of Sync generates RAS Ø L or RAS 1 L (depending on selected bank). There is an RC delay circuit connected to a 751Ø7 chip to control the address path and CAS L.

The delay from RAS L to mux going high is ≈ 8Ø ns. The delay from RAS L to CAS L is ≈ 15Ø ns.

Memory Data Buffer

The memory data buffer prevents the RAM's from sending erroneous data to the WDAL bus on the TIM. It is enabled by selection of Bank Ø or Bank 1 during a DIN (Data In) cycle while refresh is unasserted.

The Byte Selector

Byte selection is accomplished by decoding address Ø with WWB (write byte) during a DOUT (data out) cycle.

The Bootstrap ROM (PROM)

The bootstrap ROM is a 1Ø24 word by 16 bit Read only memory that contains a floppy disk bootstrap program to get the RXT-11 operating. The Bootstrap ROM is enabled by asserting addresses in the range of 17ØØØØ to 173776 during a DIN cycle.

Bootstrap ROM Selector

Asserting any address in the range 17ØØØØ-173776 will cause the ROM selector to enable the memories. A DIN or DOUT operation at these addresses will cause a reply to be generated. This allows DAT IO cycles to be used.

Reply Logic

The signal, MRPLY (L) is generated by a DIN or DOUT cycle and selection of the boot ROM or assertion of CAS.

3.1.2 Interface Signals

The interconnection signals will be listed along with a brief description of their function.

Signal Name	Type	Description
WDAL Ø - 15H	I/O	These lines act as data lines on the TIM and are data in and data out on the memory daughter module.
ADR Ø - 15	I	These are the latched addresses from the TIM. The higher order bits are used for bank selection. Address Ø selects the byte.
WDIN L	I	This is used to signify a Data IN operation (read). Used to enable the memory buffer for RAM read and enable the ROM.
DOUT ØH	I	Signifies Data OUT operation (write). Asserts WE (write enable) on RAM's.
WSYNC L	I	Signals the beginning of a WD bus cycle. Used to enable the decoders, address mux, and start the memory cycle.
FDIN (1)H	I	Signifies fast DIN cycle. Generates BRPLY.
WWB H	I	Used during DOUT cycles to signify half word (byte) operations. Byte = 8 bits

Signal Name	Type	Description
REF (Ø)H	I	When asserted, a 64 row refresh operation
MRPLY L	O	Asserted by the selected device when the device has accepted data or has data ready for the master.
+5V	I	Vcc (+5V) for Logic power.
-5V	I	Vbb for RAM's and 751Ø7.
+12V	I	Vdd for RAM's

3.1.3 Memory Options

The memory can be either 4K, 8K, 16K or 32K. The memory chips used for this implementation are either 4K Dynamic RAM's for the 4 and 8K version or 16K Dynamic RAM's for the 16 and 32K versions. The worst case access time for the 4 and 8K versions is 431 ns. The worst case access time for the 16 and 32K memories is 431 ns. These access times are calculated relative to the leading edge of assertion of SYNC L.

3.1.4 Power Requirements

The voltages required for operation of the daughter module are +5V, +12V and -5V ± 5%.

Voltage	I ave.	I peak
+5V	.654 A	NA
+12V	.96 A (4K) 1.12 A (16K)	2.82A (Switching)
-5V	18.2 ma (4K) 24.4 ma	NA

3.1.5 Ordering Information

The MST11 Terminal Intelligence Module Memory Daughter Module consists of a module and documentation as noted in the option parts list.

3.1.6 Logic Description

Before reading this section, the reader should be familiar with the block diagram description.

3.1.6.1 Memory Matrix

The memory matrix can be configured with 4K dynamic RAM chips or 16K dynamic RAM chips. Mixing of memory chip types is not allowed; all 4K or all 16K parts must be used.

There are two memory banks, bank Ø and bank 1. MUXAØ through MUXA6 are brought up to the matrix for address selection.

WDAL Ø-15 H connects to the data in pins of the RAM chips. The memory outputs MO Ø-15 H are connected to the memory data buffer.

On the low byte of either bank the W input (write) is connected to OUT LB L. OUT HB L is used for the high byte.

Bank selection is accomplished by having two separate RAS (row address strobe) signals. RASØ L selects bank Ø while RAS 1 L selects bank 1. RAS is asserted by SYNC L becoming true (low).

CAS L (column address strobe) finishes the addressing operation and indicates the chosen operation. (Either read or write).

The memory is structured internally like a capacitor which means the data must be recharged to keep it from being lost. This recharging or refresh is accomplished by performing a RAS L (asserted) only cycle on the 64 (or 128) rows every 2 milliseconds. Section 3.1.6.2 presents a more detailed description of the logic used to handle this.

3.1.6.2 Address Bus Mux

The multiplexing of the 12 (or 14) bit address needed for 4Ø96 or 16384 locations is done with 2 74LS373 octal latches with tri-state outputs. The Latches are enabled by assertion of SYNC L.

The 74LS373 driving the bus is selected by ROWS L or COLS L. During the first part of the memory cycle ROWS L gates the contents of address Ø1 through Ø6 and address 14 to MUXAØ through MUXA6. When the 751Ø7 changes state, COLS L is asserted and ROWS L is unasserted allowing the contents of ADR Ø7 through ADR 13 to be gated onto MUXAØ through MUXA6.

Use of a common CAS allows the unselected memory to go to standby power.

ADDR 14 is gated with REFINV L (Unasserted) to allow for the seventh address. During refresh, TGGLR (1) H is used to provide the seventh row address.

3.1.6.3 Bank Selector

To select 4K or 16K RAM chips, along with jumper W1, jumper W2 is included to enable different sections of the Bank Selection Logic. Jumper W2 is inserted for selection of 4K RAM chips. This unasserts 16K SEL H. For bank selection, ADR 13, 14, and 15 H are decoded to select bank Ø or 1.

BS7 L is asserted when ADR 13, 14 and 15H are high. BS7 is used as one of the enable inputs to the Boot ROM selector.

Logic Equations for Bank Selector

BS7.5L = ADR13H . ADR14H . ADR15H . ADR12H

BANKØSEL L = $\overline{\text{REFINTV H}}$ + $\overline{\text{16KSELH}}$. $\overline{\text{ADR13H}}$. $\overline{\text{ADR14H}}$. $\overline{\text{ADR15H}}$

$\overline{\text{.BS7.5L}}$ + 16SELH . $\overline{\text{BS7.5L}}$. $\overline{\text{ADR15H}}$

BANK 1 SEL L = $\overline{\text{REFINTV H}}$ + $\overline{\text{16KSELH}}$. ADR13H . $\overline{\text{ADR14H}}$.

$\overline{\text{ADR15F}}$. $\overline{\text{BS7.5L}}$ + 16KSELH . $\overline{\text{BS7.5H}}$. ADR15H

For 16K Bank Selection ADR15H selects the Bank. Jumper W1 is removed asserting 16KSELH. 3ØK of Memory is directly addressable by the TIM. Addresses ≥ 17ØØØØ are reserved for the I/O page.

Jumpers W3 and W4 are used to select a single 4K or 16K bank.

During the refresh interval, BANK Ø SEL L and BANK 1 SEL L are asserted.

3.1.6.4 RAS/CAS/MUX Logic

Two separate RAS signals are used for bank selection. RAS Ø L is generated by assertion of SYNCB H and Bank Ø SEL L. RAS 1 L is generated by assertion of SYNCB H and Bank 1 SEL L.

The delay between SYNB H asserting and MUX control and CAS L changing state is done with an RC delay attached to the differential inputs of a 751Ø7 chip. See figure 3 for a diagram of the RAS/CAS/MUX generator.

The memory can be speeded up by lowering the capacitor value. Keep in mind that the row address hold time is 25 ns. The threshold voltages on the 751Ø7 may have to change if high speed is wanted.

The mux control delay is accomplished by the 6.8K and 909 Ω 1% in parallel and a 7ØØ pf capacitor connected between the output of a 74LSØ5 and the differential leg A of the 751Ø7. One side of the 751Ø7 is connected to a resistor divider. This places the lower 751Ø7 at ≈ 1.5 volts on leg A and the upper 751Ø7 at ≈ 3.0 volts on leg B.

With SYNCB H unasserted, A-B ≤ -25 mv in both cases and each output is low. CAS L is unasserted, COLS L is unasserted and ROWS L is asserted when REFINVL is passive.

The mux control changes state after SYNC B H asserts after the time required for input A on the lower 751Ø7 to go from .4V (VCE (SAT) of the 74LSØ5) to 1.5 volts (A-B ≥ 25 mv) plus the propagation delays of the gates involved.

The time required for CASG H to assert will be equal to the time required for input A on the upper 751Ø7 to go from .4V to 3 volts plus the propagation delays.

The 6.8K resistor is used to provide for changing values due to aging and other unpredictable variations. If the time gets to be < 75 ns, clip the resistor.

For a more detailed timing analysis, consult section 3.1.9.

3.1.6.5 Memory Data Buffer

The memory data buffer has MO Ø-15 H as inputs and drives WDAL ØØ-15 H when BANK Ø + 1 H is asserted, DIN B is asserted, and REFINV L is unasserted.

Two 74LS373's are used for the memory data buffer.

3.1.6.6 Byte Selector

The Byte selector consists of 1 74LS37 and an inverter. Out LBL and Out HBL are asserted when WWB H is low during a DOUT cycle. When WWB H is asserted, ADRØH will select the byte. ADRØH asserted will assert OUT HB L during a DOUT cycle. ADRØH low will assert OUT L B L during a DOUT cycle.

3.1.6.7 Bootstrap PROM (ROM)

The Bootstrap PROM is a 1024 X 16 bipolar PROM. It will contain the floppy disk bootstrap loader needed to get the system running.

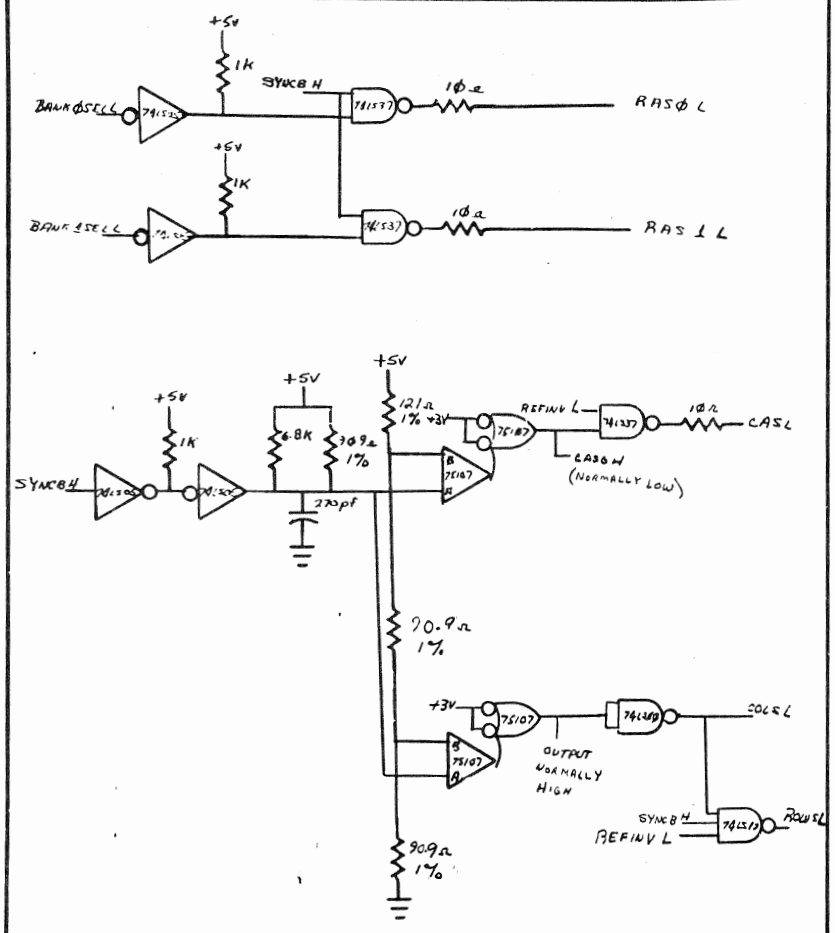


Figure 3. RAS/CAS/MUX Generator

The Bootstrap ROM is enabled by BOOTROMSEL L going low and DINBUF L going low.

3.1.6.8 Boot ROM Selector

Assertion of 17ØØØØ to 173777 will cause BOOT ROM SEL H to become true. An inverter is needed to provide the correct level for ROM enabling.

BOOT ROM SEL H = BS7.5L · $\overline{\text{ADR11H}}$ · SYNC3H

BOOT ROM SEL L = $\overline{\text{BOOT ROM SEL H}}$

3.1.6.9 Reply Logic

MRPLY L is asserted by BOOT ROM SEL H, high and DINBUF L or DOUT B L or DINBUF L or DOUT B L and CASG H.

3.1.7 Signal Connections

The following table contains the pin numbers of the interconnection signals from the Terminal Intelligence Module to the TIM Memory Daughter Module.

Signal Name	Pin #	Signal Name	Pin #
WDAL 15H	J2-4Ø	ADR 1ØH	J1-15
WDAL 14H	J2-39	ADR Ø9H	J1-16
WDAL 13H	J2-38	ADR Ø8H	J1-33
WDAL 12H	J2-37	ADR Ø7H	J1-34
WDAL 11H	J2-36	ADR Ø6H	J1-32
WDAL 1ØH	J2-35	ADR Ø5H	J1-31
WDAL Ø9H	J2-34	ADR Ø4H	J1-3Ø
WDAL Ø8H	J2-33	ADR Ø3H	J1-27
WDAL Ø7H	J2-32	ADR Ø2H	J1-28
WDAL Ø6H	J2-31	ADR Ø1H	J1-29
WDAL Ø5H	J2-3Ø	ADR ØØH	J1-17
WDAL Ø4H	J2-29	WDIN L	J2-2Ø
WDAL Ø3H	J2-28	DOUT (Ø)H	J1-2Ø
WDAL Ø2H	J2-27	WSYNC L	J2-1
WDAL Ø1H	J2-26	FDIN (1)H	J1-3
WDAL ØØH	J2-25	WWB H	J1-4
ADR 15H	J2-3	REF (Ø)H	J1-22
ADR 14H	J2-4	MRPLY L	J1-5
ADR 13H	J2-5	+5V	J1-23,24,25,26,27
ADR 12H	J2-22	-5V	J1-6,7,8,9,1Ø
ADR 11H	J1-12	+12V	J1-36,37,38,39,4Ø
GND	J2-11,12	GND	J2-13,14,15

3.1.8 Power Consumption Details

QTY.	DESC.	+5VI(ma)per	I-5V(ma)per	I+12V(ma)per	I+(+5V)
4	74LS373	4Ø	Ø	Ø	16Ø
1	74LS74	8	Ø	Ø	8
1	74LS27	5.25	Ø	Ø	5.25
32 (Optional)	4K RAMS (2113735-01)	.1 Depends on Loading	.1	3Ø (15Ø I peak)	1.6
1	74LSØØ	4.4	Ø	Ø	4.4
2	74LSØ1	4.4	Ø	Ø	8.8
2	74LSØ4	6.6	Ø	Ø	13.2
1	74LSØ5	6.6	Ø	Ø	6.6
1	74LSØ8	8.8	Ø	Ø	17.6
1	74LS1Ø	3.3	Ø	Ø	3.3
2	74LS37	12	Ø	Ø	24
1	74LS21	4.4	Ø	Ø	4.4
2	1024X8 PROMS (23ØØØ-8-6)	175	Ø	Ø	35Ø
1	751Ø7	3Ø	15	Ø	3Ø
32 (Optional)	16K RAMS 2113825-01	.1 Depends on Loading	.2	35 (15Ø I peak)	1.6
Resistor Divider		16.4	Ø	Ø	16.4
Pullups		.5	Ø	Ø	.5
Totals			18.2ma(4K) 24.4ma(16K)	96Øma(4K) 1.12A(16K) 2.8A(peak) 4K and 16K	654.Ø5ma

3.1.9 RAS/CAS/MUX Timing Analysis

Propagation Delays of Chips involved:

	tp(LH) typ	tp(LH) max	tp(HL) typ	tp(HL) max
74LSØ4	9 ns	15 ns	10 ns	15 ns
74LSØ5	17 ns	32 ns	15 ns	28 ns
751Ø7	12.5 ns	25 ns	12.5 ns	25 ns
74LS37	12 ns	24 ns	12 ns	24 ns
74LS1Ø	9 ns	15 ns	1Ø ns	15 ns
74LSØØ	9 ns	15 ns	1Ø ns	15 ns

Resistor value variation for timing components:

r_1 = 909 Ω 1%

r_2 = 6.8K Ω 5%

$R_p = \frac{r_1 r_2}{r_1 + r_2}$

	variance of value low	high
r_1	899.91	918.Ø9
r_2	6.46K	7.14K
R_p	789.8	813.4

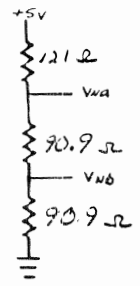
751Ø7 thresholds differential:

A-B		OUTPUT
VID ≥ 25 mv		H
-25 mv ≤ VID	25 mv	Indeterminate
VID ≤ -25 mv		L

CASG H normally L goes H when VID ≥ 25 mv.
Lower output normally L goes H when VID ≥ 25 mv.

Voltages on resistor divider:

v na ≈ 3.0 v ± 2%
v nb ≈ 1.5 v ± 2%



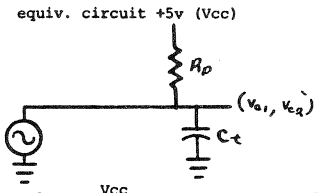
v nb + 25 mv = Threshold voltage (v_{c1}) for lower RC timing
v na + 25 mv = Threshold voltage (v_{c2}) for upper RC timing (CASG H)

Capacitor value variation - 180 pf 5%

	low	high	
C	171	189	pf

Time between SYNCB H 74LSØ5 (output) and input threshold.

equiv. circuit +5v (Vcc)



$t = RC \ln \frac{Vcc}{Vcc - v_c}$

Rp= 789.8 - 813.4 Ω
C = 171 - 189 pf
Vcc = +5V
v_c = 1.5V

t varies from 48.1 ns to 54.8 ns on MUX control.

Time between 74LSØ5 (output) and input threshold:

Same equivalent circuit v_{c2} = 3.0V

$t = RC \ln \frac{Vcc}{Vcc - v_c}$

Rp= 789.8 - 813.4 Ω
C = 171 - 189 pf
Vcc = 5V
v_c = 3.0V

t varies from 123.7 ns to 140.8 ns.

Time between RASØ L or RAS1 L and SYNC L

max 15 ns + 24 ns = 39 ns
typ 9 ns + 12 ns = 21 ns

Time between SYNC L and COLS L

max 15 ns + 28 ns + 32 ns + 54.8 ns + 25 ns + 15 ns + 15 ns = 184.8 ns
typ 9 ns + 15 ns + 17 ns + 57.5 ns + 25 ns + 9 ns + 10 ns = 142 ns

min Ø ns + Ø ns + Ø ns + 48.1 ns + Ø ns + 0 ns = 48.1 ns
typ prop. delays assumed.

Time between SYNC L and CAS L

max 15 ns + 28 ns + 32 ns + 140.8 ns + 25 ns + 24 ns = 264.8 ns
typ 9 ns + 15 ns + 17 ns + 132.3 ns + 12.5 ns + 12 ns = 197.8 ns

min Ø ns + Ø ns + Ø ns + 123.7 ns + 0 ns + 0 ns = 123.7 ns

Conclusions: At 48.1 ns minimum there is plenty of slack to stay within the ROW Address Hold time (TAHX) of 25 ns. 16K TRL1 AX1 is 25 ns.

RASØ or RAS1 L will stay asserted for the rest of the cycle. SYNC L shouldn't be any longer than 1Ø µs. This shouldn't occur because the Reply is directly attached tc the WD chip set.

4K maximum access time 332.8 ns
16K maximum access time 332.8 ns
These figures are relative to WSYNC L

4.Ø Specifications

4.1 Environmental -
- Class B2

Ambient temperature

Operating: 1Ø° to 5Ø°C

Non-operating: -4Ø° to 66°C

Humidity: 1Ø to 95 percent non-condensing with wet bulb 28°C and minimum dew point 2°C.

Altitude: Operating: sea level to 8ØØØ ft.

4.2 Electrical

Access time (4 and 8K versions) 33Ø ns
Access time (16 and 32K versions) 33Ø ns

+5V @ 654ma
+12V @ 1.12A 2.8A (peak)
-5V @ 24.4ma

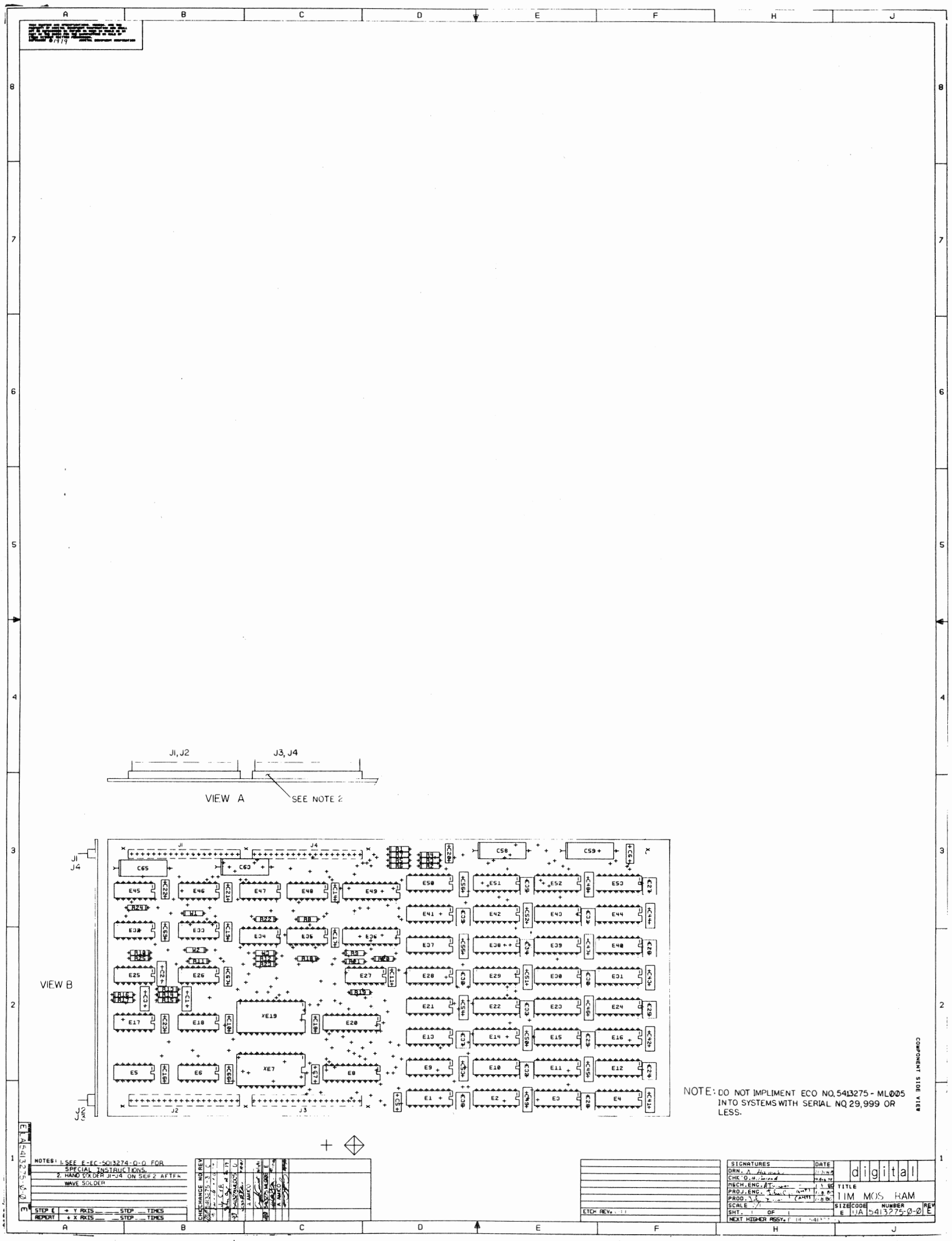
4.3 Mechanical

The board mounts in the RX36 system box and plugs into the Terminal Intelligence module via a board interconnecting plug.

Dimensions: 10.2 " Long X 5.202" wide
Mounting: Via 6-4-40 screws that align the stacking connectors

4.4 Configuration Chart

Memory Size	Chip Type Desc.	No. of Memory Chips	W1	W2	W3
4K	200 ns 4K dynamic RAM	16	IN	IN	OUT
8K	200 ns 4K dynamic RAM	32	IN	IN	IN
16K	200 ns 16K dynamic RAM	16	OUT	IN	OUT
3ØK	200 ns 16K dynamic RAM	32	OUT	IN	IN


A
B
C
D
E
F
H
J
8
7
6
5
4
3
2
1
J1, J2
J3, J4
VIEW A
SEE NOTE 2
VIEW B
J1
J4
J2
J3
XE19
XE7
COMPONENT SIDE VIEW
NOTE: DO NOT IMPLIMENT ECO NO. 5413275 - ML005 INTO SYSTEMS WITH SERIAL NO. 29,999 OR LESS.
NOTES: 1. SEE E-EC-5013274-0-0 FOR SPECIAL INSTRUCTIONS.
2. HAND SOLDER J1-J4 ON SIDE 2 AFTER WAVE SOLDER
STEP E + Y AXIS ___ STEP ___ TIMES
REPEAT + X AXIS ___ STEP ___ TIMES
E 5413275-0-0
CHG CHANGE NO REV
SIGNATURES
DATE
DRN.
CHK'D.
MECH. ENG.
PROJ. ENG.
PROD.
SCALE
SHT. OF
NEXT HIGHER ASSY.
ETCH REV.
digital
TITLE
1 IM MOS RAM
SIZE CODE NUMBER REV
E 01A 5413275-0-0 E

PRTLST.3L(37) AUTOMATED BY

P A R T S L I S T

SHEET A1 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	AB	AC	AD	REFERENCE DESIGNATOR
1	1	E-MD-5013274-0-0	5013274-00	5413275	1	1	1	1	
2	2		1010274-00	.22 MFD 50V +80-20% Z5U CER	18	18	18	18	C1,C2,C41-C56
3	3		1000020-00	180.0 MMF 100V 5%200PPM MICA	1	1	1	1	C3
4	4		1001610-01	.01 MFD50/100V +80-20% DISC	17	17	17	17	C5-C7,C10,C11,C14,C16-C23,C66,
							CONT		C67,C69
5	5		1000075-00	25 MFD 25V +75-10% AL EL	4	4	4	4	C58,C59,C63,C65
6	6		1010279-00	.47 MFD 25V 20% CER	16	16	16	16	C24-C39
7	7		1215006-06	SOCKET 24PIN IC LOW PROFILE	2	2	2	2	XE7,XE19
8	8		1302751-00	30.0 .25 W 5.0 % CC	9	9	9	9	R1-R7,R20,R21
9	9		1302124-00	18.0 .25 W 5.0 % CC	3	3	3	3	R8,R9,R19
10	10		1300479-00	10.0 K .25 W 5.0 % CC	1	1	1	1	R10
11	11		1300365-00	1.0 K .25 W 5.0 % CC	7	7	7	7	R11,R12,R18,R22-R25
12	12		1303037-00	90.90 .25 W 1.0 % RN55D-F10	2	2	2	2	R14,R15
13	13		1302957-00	121.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R13
14	14		1302685-00	909.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R16
15	15		1301423-00	6.80 K .25 W 5.0 % CC	1	1	1	1	R17
16	16		1912803-00	74LS04 INVERTER GATE,HEX	2	2	2	2	E5,E47
17	17		1910268-00	DEC 75107B RECEIVER,LINE,DUAL,	1	1	1	1	E25
18	18		1915219-00	LS373 FF-D OCTAL-TRANSPARE	4	4	4	4	E8,E20,E36,E49
19	19		1912811-00	LS21 AND GATE-DUAL 4IN,PO	1	1	1	1	E17
20	20		1912804-00	LS05 INVERTER GATE-HEX 1I	1	1	1	1	E34
21	21		1912805-00	LS08 AND GATE-QUAD 2IN,PO	2	2	2	2	E6,E33
22	22		1912800-00	LS01 NAND-GATE-QUAD 2IN,P	2	2	2	2	E32,E45
23	23		1912817-00	LS37 NAND GATE-QUAD 2IN,P	2	2	2	2	E27,E35
24	24		1912807-00	LS10 NAND GATE-TRIPLE 3IN	1	1	1	1	E18
25	25		1912813-00	LS27 NOR GATE-TRIPLE 3IN	1	1	1	1	E46
26	26		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1	1	1	1	E26
27	27		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	1	1	1	1	E48
28	28		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	3	3	3	3	W1-W3
29	29		2113735-01	4K MOS RAM 200NS 1	-	32	-	-	E1-E4,E9-E16,E21-E24,E28-E31,

REVISION HISTORY			
ENG	ECO NUMBER	REV	SECTION A OF D
---	INITIAL	B	SECTION.VARIATION INDEX
JC	5413275-MR003	B	[A] 00,AB,AC,AD
AA	5413275-ML005	C	[B] AE,BB,BC,BD
			[C] BE,BF,CB,CC
			[D] CD,CE,CF
			[E]
			[F]
			[H]
			[J]
			[K]
			[L]
			[M]
			[N]

BASIC PART NO: 5413275

DRN: M. NORMAND	DATE: 11-APR-78	D I G I T A L
CHK'D: M. NORMAND	DATE: 11-APR-78	TITLE: PARTS LIST — TIM MOS RAM
DES.ENG: A. TUNNESSEN	DATE: 20-APR-78	
RESP.ENG.: A. TUNNESSEN	DATE: 20-APR-78	DOCUMENT NUMBER
MFG.ENG.: R. HAMILTON	DATE: 20-APR-78	SIZE: K / CODE: PL / NUMBER: 5413275-0-DBP / REV: C
ASSEMBLY NUMBER: E-UA-5413275-0-0	TOP DOCUMENT NUMBER: B-DD-5413275-0-0	FILE NAME: Z0869C.PLS / EDIT #: 13

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	AB	AC	AD	REFERENCE DESIGNATOR
							CONT		E37-E44,E50-E53
30	30		2114475-01	4K MOS RAM 200NS 1	-	-	32	-	E1-E4,E9-E16,E21-E24,E28-E31,
							CONT		E37-E44,E50-E53
31	31		2113914-01	4K MOS RAM 200NS 1	-	-	-	32	E1-E4,E9-E16,E21-E24,E28-E31,
							CONT		E37-E44,E50-E53
32	32		2114114-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	
33	33		2113825-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	
34	34		2114408-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	
35	36		2114927-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	
36	37		2114897-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	
37	38		1215901-02	HEADER 20PIN STRAIGHT	4	4	4	4	J1-J4

38 NOTE: 1. 5413275-AA,BA,CA ARE PRIMARY VARIATIONS OF THE 4K,16K OR 32K SYSTEM. (NOT A MODULE TYPE)
39 NOTE: 5413275-AB,AC,AD,AE,BB,BC,BD,BE,BF,CB,CC,CD,CE AND CF ARE MODULE TYPES, USING
40 NOTE: DIFFERENT 4K OR 16K MOS DEVICES AND ARE IDENTICAL IN FUNCTION AND PURPOSE.

D	I	G	I	T	A	L	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
							TIM MOS RAM	A OF D	K	PL	5413275-0-DBP	C

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION AE	BB	BC	BD	REFERENCE DESIGNATOR
1	1	E-MD-5013274-0-0	5013274-00	5413275	1	1	1	1	
2	2		1010274-00	.22 MFD 50V +80-20% Z5U CER	18	18	18	18	C1,C2,C41-C56
3	3		1000020-00	180.0 MMF 100V 5%200PPM MICA	1	1	1	1	C3
4	4		1001610-01	.01 MFD50/100V +80-20% DISC	17	17	17	17	C5-C7,C10,C11,C14,C16-C23,C66,
							CONT		C67,C69
5	5		1000075-00	25 MFD 25V +75-10% AL EL	4	4	4	4	C58,C59,C63,C65
6	6		1010279-00	.47 MFD 25V 20% CER	16	16	16	16	C24-C39
7	7		1215006-06	SOCKET 24PIN IC LOW PROFILE	2	2	2	2	XE7,XE19
8	8		1302751-00	30.0 .25 W 5.0 % CC	9	9	9	9	R1-R7,R20,R21
9	9		1302124-00	18.0 .25 W 5.0 % CC	3	3	3	3	R8,R9,R19
10	10		1300479-00	10.0 K .25 W 5.0 % CC	1	1	1	1	R10
11	11		1300365-00	1.0 K .25 W 5.0 % CC	7	7	7	7	R11,R12,R18,R22-R25
12	12		1303037-00	90.90 .25 W 1.0 % RN55D-F10	2	2	2	2	R14,R15
13	13		1302957-00	121.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R13
14	14		1302685-00	909.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R16
15	15		1301423-00	6.80 K .25 W 5.0 % CC	1	1	1	1	R17
16	16		1912803-00	74LS04 INVERTER GATE,HEX	2	2	2	2	E5,E47
17	17		1910268-00	DEC 75107B RECEIVER,LINE,DUAL,	1	1	1	1	E25
18	18		1915219-00	LS373 FF-D OCTAL-TRANSPARE	4	4	4	4	E8,E20,E36,E49
19	19		1912811-00	LS21 AND GATE-DUAL 4IN,PO	1	1	1	1	E17
20	20		1912804-00	LS05 INVERTER GATE-HEX 1I	1	1	1	1	E34
21	21		1912805-00	LS08 AND GATE-QUAD 2IN,PO	2	2	2	2	E6,E33
22	22		1912800-00	LS01 NAND-GATE-QUAD 2IN,P	2	2	2	2	E32,E45
23	23		1912817-00	LS37 NAND GATE-QUAD 2IN,P	2	2	2	2	E27,E35
24	24		1912807-00	LS10 NAND GATE-TRIPLE 3IN	1	1	1	1	E18
25	25		1912813-00	LS27 NOR GATE-TRIPLE 3IN	1	1	1	1	E46
26	26		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1	1	1	1	E26
27	27		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	1	1	1	1	E48
28	28		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	3	3	3	3	W1-W3
29	29		2113735-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	

REVISION HISTORY			BASIC PART NO: 5413275										
ENG	ECO NUMBER	REV	SECTION B OF D	DRN: M. NORMAND	DATE: 11-APR-78		D	I	G	I	T	A	L
---	INITIAL	B	SECTION.VARIATION INDEX	CHK'D: M. NORMAND	DATE: 11-APR-78	TITLE PARTS LIST							
JC	5413275-MR003	B	[A] 00,AB,AC,AD			TIM MOS RAM							
AA	5413275-ML005	C	[B] AE,BB,BC,BD	DES.ENG: A. TUNNESSEN	DATE: 20-APR-78								
			[C] BE,BF,CB,CC										
			[D] CD,CE,CF			DOCUMENT NUMBER							
			[E]										
			[F]	RESP.ENG.: A. TUNNESSEN	DATE: 20-APR-78	SIZE	CODE	NUMBER				REV	
			[H]										
			[J]										
			[K]	MFG.ENG.: R. HAMILTON	DATE: 20-APR-78	K	PL	5413275-0-DBP				C	
			[L]										
			[M]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:						EDIT #	
			[N]	E-UA-5413275-0-0	B-DD-5413275-0-0	Z0869C.PLS						13	

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION AE	BB	BC	BD	REFERENCE DESIGNATOR
30	30		2114475-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	
31	31		2113914-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	
32	32		2114114-01	4K MOS RAM 200NS 1	32	-	-	-	E1-E4,E9-E16,E21-E24,E28-E31,
								CONT	E37-E44,E50-E53
33	33		2113825-01	16K MOS RAM 200NS 1	-	16	-	-	E3,E4,E11,E12,E15,E16,E23,E24,
								CONT	E30,E31,E39,E40,E43,E44,E52,E53
34	34		2114408-01	16K MOS RAM 200NS 1	-	-	16	-	E3,E4,E11,E12,E15,E16,E23,E24,
								CONT	E30,E31,E39,E40,E43,E44,E52,E53
35	36		2114927-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	
36	37		2114897-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	
37	38		1215901-02	HEADER 20PIN STRAIGHT	4	4	4	4	J1-J4

38 NOTE: 1. 5413275-AA,BA,CA ARE PRIMARY VARIATIONS OF THE 4K,16K OR 32K SYSTEM. (NOT A MODULE TYPE)
39 NOTE: 5413275-AB,AC,AD,AE,BB,BC,BD,BE,BF,CB,CC,CD,CE AND CF ARE MODULE TYPES, USING
40 NOTE: DIFFERENT 4K OR 16K MOS DEVICES AND ARE IDENTICAL IN FUNCTION AND PURPOSE.

D	I	G	I	T	A	L	TITLE	SECTION B OF D	SIZE	CODE	DOCUMENT NUMBER	REV
							TIM MOS RAM		K	PL	5413275-0-DBP	C

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION BE	BF	CB	CC	REFERENCE DESIGNATOR
1	1	E-MD-5013274-0-0	5013274-00	5413275	1	1	1	1	
2	2		1010274-00	.22 MFD 50V +80-20% Z5U CER	18	18	18	18	C1,C2,C41-C56
3	3		1000020-00	180.0 MMF 100V 5%200PPM MICA	1	1	1	1	C3
4	4		1001610-01	.01 MFD50/100V +80-20% DISC	17	17	17	17	C5-C7,C10,C11,C14,C16-C23,C66,
							CONT		C67,C69
5	5		1000075-00	25 MFD 25V +75-10% AL EL	4	4	4	4	C58,C59,C63,C65
6	6		1010279-00	.47 MFD 25V 20% CER	16	16	16	16	C24-C39
7	7		1215006-06	SOCKET 24PIN IC LOW PROFILE	2	2	2	2	XE7,XE19
8	8		1302751-00	30.0 .25 W 5.0 % CC	9	9	9	9	R1-R7,R20,R21
9	9		1302124-00	18.0 .25 W 5.0 % CC	3	3	3	3	R8,R9,R19
10	10		1300479-00	10.0 K .25 W 5.0 % CC	1	1	1	1	R10
11	11		1300365-00	1.0 K .25 W 5.0 % CC	7	7	7	7	R11,R12,R18,R22-R25
12	12		1303037-00	90.90 .25 W 1.0 % RN55D-F10	2	2	2	2	R14,R15
13	13		1302957-00	121.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R13
14	14		1302685-00	909.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R16
15	15		1301423-00	6.80 K .25 W 5.0 % CC	1	1	1	1	R17
16	16		1912803-00	74LS04 INVERTER GATE,HEX	2	2	2	2	E5,E47
17	17		1910268-00	DEC 75107B RECEIVER,LINE,DUAL,	1	1	1	1	E25
18	18		1915219-00	LS373 FF-D OCTAL-TRANSPARE	4	4	4	4	E8,E20,E36,E49
19	19		1912811-00	LS21 AND GATE-DUAL 4IN,PO	1	1	1	1	E17
20	20		1912804-00	LS05 INVERTER GATE-HEX 1I	1	1	1	1	E34
21	21		1912805-00	LS08 AND GATE-QUAD 2IN,PO	2	2	2	2	E6,E33
22	22		1912800-00	LS01 NAND-GATE-QUAD 2IN,P	2	2	2	2	E32,E45
23	23		1912817-00	LS37 NAND GATE-QUAD 2IN,P	2	2	2	2	E27,E35
24	24		1912807-00	LS10 NAND GATE-TRIPLE 3IN	1	1	1	1	E18
25	25		1912813-00	LS27 NOR GATE-TRIPLE 3IN	1	1	1	1	E46
26	26		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1	1	1	1	E26
27	27		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	1	1	1	1	E48
28	28		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	3	3	3	3	W1-W3
29	29		2113735-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	

REVISION HISTORY			BASIC PART NO: 5413275
ENG	ECO NUMBER	REV	SECTION C OF D
---	INITIAL	B	SECTION.VARIATION INDEX
JC	5413275-MR003	B	[A] 00,AB,AC,AD
AA	5413275-ML005	C	[B] AE,BB,BC,BD
			[C] BE,BF,CB,CC
			[D] CD,CE,CF
			[E]
			[F]
			[H]
			[J]
			[K]
			[L]
			[M]
			[N]

						D	I	G	I	T	A	L
DRN: M. NORMAND	DATE: 11-APR-78											
CHK'D: M. NORMAND	DATE: 11-APR-78	TITLE PARTS LIST										
		TIM MOS RAM										
DES.ENG: A. TUNNESSEN	DATE: 20-APR-78											
RESP.ENG.: A. TUNNESSEN	DATE: 20-APR-78	DOCUMENT NUMBER										
		SIZE	CODE	NUMBER	REV							
MFG.ENG.: R. HAMILTON	DATE: 20-APR-78	K	PL	5413275-0-DBP	C							
ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #									
E-UA-5413275-0-0	B-DD-5413275-0-0	Z0869C.PLS	13									

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION BE	BF	CB	CC	REFERENCE DESIGNATOR
30	30		2114475-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	
31	31		2113914-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	
32	32		2114114-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	
33	33		2113825-01	16K MOS RAM 200NS 1	-	-	32	-	E1-E4,E9-E16,E21-E24,E28-E31,
							CONT		E37-E44,E50-E53
34	34		2114408-01	16K MOS RAM 200NS 1	-	-	-	32	E1-E4,E9-E16,E21-E24,E28-E31,
							CONT		E37-E44,E50-E53
35	36		2114927-01	16K MOS RAM 200NS 1	16	-	-	-	E3,E4,E11,E12,E15,E16,E23,E24,
							CONT		E30,E31,E39,E40,E43,E44,E52,E53
36	37		2114897-01	16K MOS RAM 200NS 1	-	16	-	-	E3,E4,E11,E12,E15,E16,E23,E24,
							CONT		E30,E31,E39,E40,E43,E44,E52,E53
37	38		1215901-02	HEADER 20PIN STRAIGHT	4	4	4	4	J1-J4

38 NOTE: 1. 5413275-AA,BA,CA ARE PRIMARY VARIATIONS OF THE 4K,16K OR 32K SYSTEM. (NOT A MODULE TYPE)
39 NOTE: 5413275-AB,AC,AD,AE,BB,BC,BD,BE,BF,CB,CC,CD,CE AND CF ARE MODULE TYPES, USING
40 NOTE: DIFFERENT 4K OR 16K MOS DEVICES AND ARE IDENTICAL IN FUNCTION AND PURPOSE.

DIGITAL	TITLE	SECTION C OF D	SIZE	CODE	DOCUMENT NUMBER	REV
	TIM MOS RAM		K	PL	5413275-0-DBP	C

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION CD	CE	CF	REFERENCE DESIGNATOR
1	1	E-MD-5013274-0-0	5013274-00	5413275	1	1	1	
2	2		1010274-00	.22 MFD 50V +80-20% Z5U CER	18	18	18	C1,C2,C41-C56
3	3		1000020-00	180.0 MMF 100V 5%200PPM MICA	1	1	1	C3
4	4		1001610-01	.01 MFD50/100V +80-20% DISC	17	17	17 CONT	C5-C7,C10,C11,C14,C16-C23,C66, C67,C69
5	5		1000075-00	25 MFD 25V +75-10% AL EL	4	4	4	C58,C59,C63,C65
6	6		1010279-00	.47 MFD 25V 20% CER	16	16	16	C24-C39
7	7		1215006-06	SOCKET 24PIN IC LOW PROFILE	2	2	2	XE7,XE19
8	8		1302751-00	30.0 .25 W 5.0 % CC	9	9	9	R1-R7,R20,R21
9	9		1302124-00	18.0 .25 W 5.0 % CC	3	3	3	R8,R9,R19
10	10		1300479-00	10.0 K .25 W 5.0 % CC	1	1	1	R10
11	11		1300365-00	1.0 K .25 W 5.0 % CC	7	7	7	R11,R12,R18,R22-R25
12	12		1303037-00	90.90 .25 W 1.0 % RN55D-F10	2	2	2	R14,R15
13	13		1302957-00	121.0 .25 W 1.0 % RN55D-F10	1	1	1	R13
14	14		1302685-00	909.0 .25 W 1.0 % RN55D-F10	1	1	1	R16
15	15		1301423-00	5.80 K .25 W 5.0 % CC	1	1	1	R17
16	16		1912803-00	74LS04 INVERTER GATE,HEX	2	2	2	E5,E47
17	17		1910268-00	DEC 75107B RECEIVER,LINE,DUAL,	1	1	1	E25
18	18		1915219-00	LS373 FF-D OCTAL-TRANSPARE	4	4	4	E8,E20,E36,E49
19	19		1912811-00	LS21 AND GATE-DUAL 4IN,PO	1	1	1	E17
20	20		1912804-00	LS05 INVERTER GATE-HEX 1I	1	1	1	E34
21	21		1912805-00	LS08 AND GATE-QUAD 2IN,PO	2	2	2	E6,E33
22	22		1912800-00	LS01 NAND-GATE-QUAD 2IN,P	2	2	2	E32,E45
23	23		1912817-00	LS37 NAND GATE-QUAD 2IN,P	2	2	2	E27,E35
24	24		1912807-00	LS10 NAND GATE-TRIPLE 3IN	1	1	1	E18
25	25		1912813-00	LS27 NOR GATE-TRIPLE 3IN	1	1	1	E46
26	26		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1	1	1	E26
27	27		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	1	1	1	E48
28	28		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	3	3	3	W1-W3
29	29		2113735-01	*** THIS ITEM IS NOT USED ***	-	-	-	

REVISION HISTORY			BASIC PART NO: 5413275
ENG	ECO NUMBER	REV	SECTION D OF D
---	INITIAL	B	SECTION.VARIATION INDEX
JC	5413275-MR003	B	[A] 00,AB,AC,AD
AA	5413275-ML005	C	[B] AE,BB,BC,BD
			[C] BE,BF,CB,CC
			[D] CD,CE,CF
			[E]
			[F]
			[H]
			[J]
			[K]
			[L]
			[M]
			[N]

					D	I	G	I	T	A	L	
DRN: M. NORMAND	DATE: 11-APR-78											
CHK'D: M. NORMAND	DATE: 11-APR-78	TITLE PARTS LIST										
		TIM MOS RAM										
DES.ENG: A. TUNNESSEN	DATE: 20-APR-78											
RESP.ENG.: A. TUNNESSEN	DATE: 20-APR-78	DOCUMENT NUMBER										
		SIZE	CODE	NUMBER	REV							
MFG.ENG.: R. HAMILTON	DATE: 20-APR-78	K	PL	5413275-0-DBP	C							
ASSEMBLY NUMBER: E-UA-5413275-0-0	TOP DOCUMENT NUMBER: B-DD-5413275-0-0	FILE NAME: Z0869C.PLS			EDIT #: 13							

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION CD	CE	CF	REFERENCE DESIGNATOR
30	30		2114475-01	*** THIS ITEM IS NOT USED ***	-	-	-	
31	31		2113914-01	*** THIS ITEM IS NOT USED ***	-	-	-	
32	32		2114114-01	*** THIS ITEM IS NOT USED ***	-	-	-	
33	33		2113825-01	*** THIS ITEM IS NOT USED ***	-	-	-	
34	34		2114408-01	*** THIS ITEM IS NOT USED ***	-	-	-	
35	36		2114927-01	16K MOS RAM 200NS 1	-	32	-	E1-E4,E9-E16,E21-E24,E28-E31,
							CONT	E37-E44,E50-E53
36	37		2114897-01	16K MOS RAM 200NS 1	-	-	32	E1-E4,E9-E16,E21-E24,E29-E31,
							CONT	E37-E44,E50-E53
37	38		1215901-02	HEADER 20PIN STRAIGHT	4	4	4	J1-J4

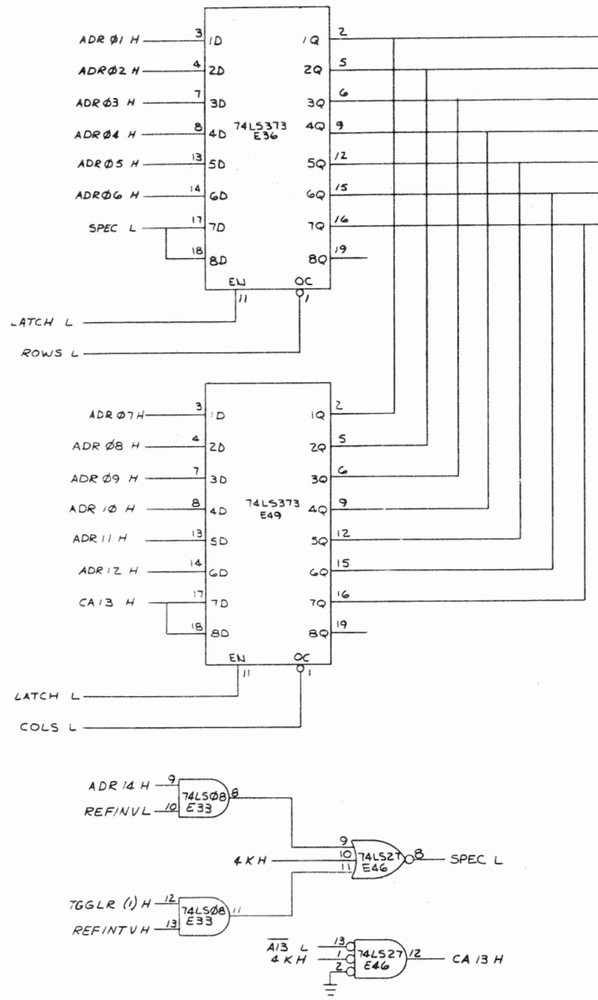
38 NOTE: 1. 5413275-AA,BA,CA ARE PRIMARY VARIATIONS OF THE 4K,16K OR 32K SYSTEM. (NOT A MODULE TYPE)
39 NOTE: 5413275-AB,AC,AD,AE,BB,BC,BD,BE,BF,CB,CC,CD,CE AND CF ARE MODULE TYPES, USING
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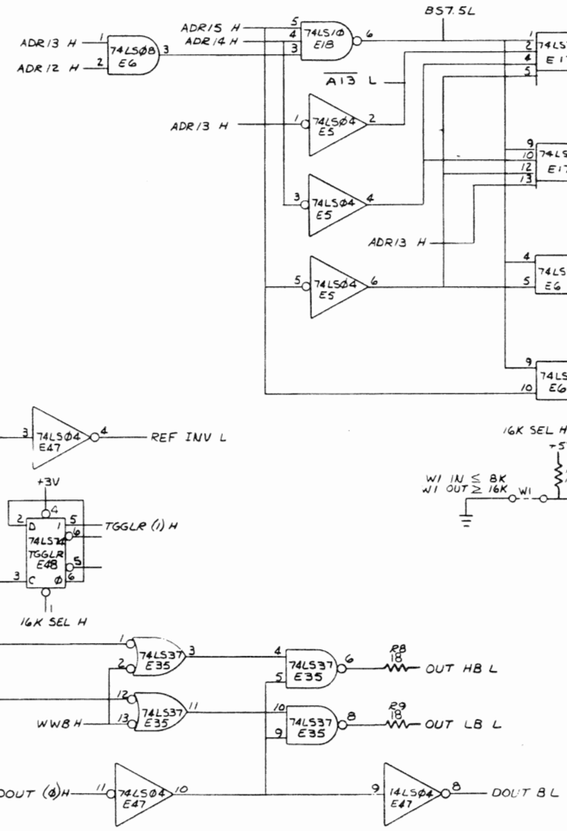
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							TIM MOS RAM	D OF D	K	PL	5413275-0-DBP	C

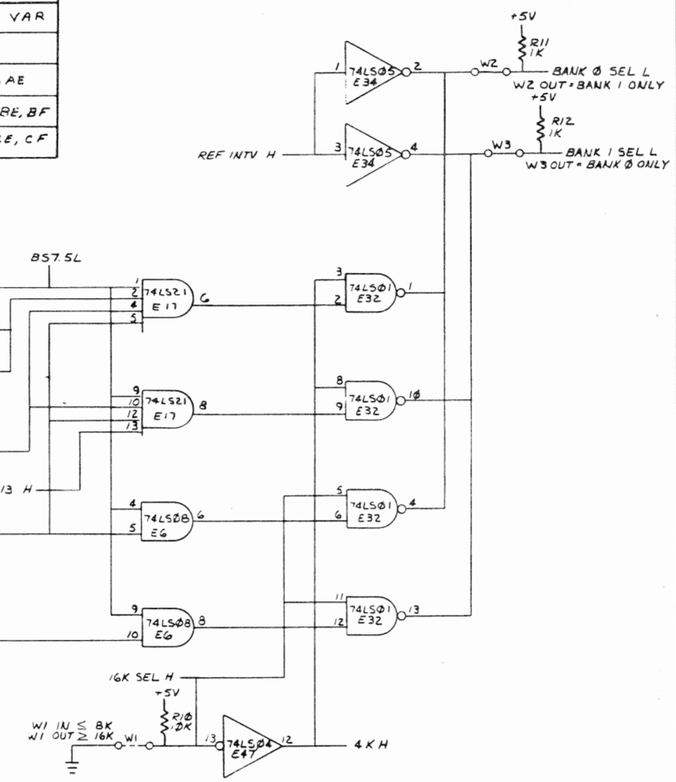
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JUMPER CONFIGURATION

	W1	W2	W3	5413275 VAR
4K	IN	IN	OUT	
8K	IN	IN	IN	AA, AB, AC, AD, AE
16K	OUT	IN	OUT	BA, BB, BC, BD, BE, BF
30K	OUT	IN	IN	CA, CB, CC, CD, CE, CF







REVISIONS		
CHK	CHANGE NO.	REV.
	5413275 MR001	C
	5413275 MR003	C
	5413275-ML005	D
	5413275 ML006	E

W. LEIFERT 20-JUN-79
J. CYR 20-JUN-79
A. AMICO 21-JUN-79
A. AMICO

DRN. M Maynard	30 Jan 78	FIRST USED ON RXT-11
CHK B Cyr	31 Jan 78	
ENG. T	12 Dec 77	
PROJ. ENG.	3 Dec 77	
PROD.	14 Dec 77	
NEXT HIGHER ASSY. B-DC-5413275-0		
SCALE		
SHEET 1 OF 8		

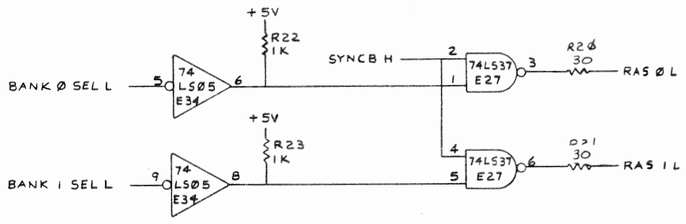
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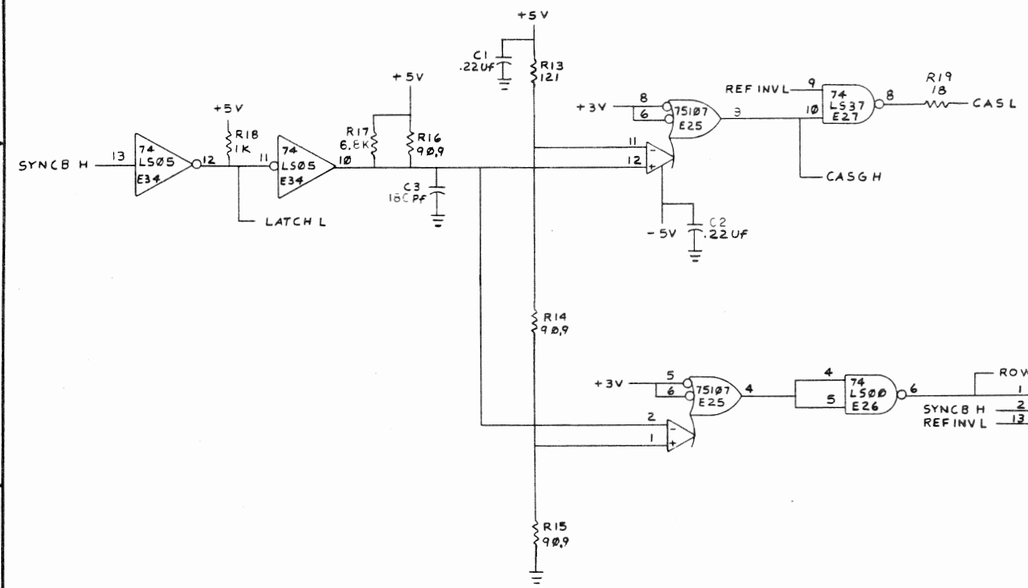
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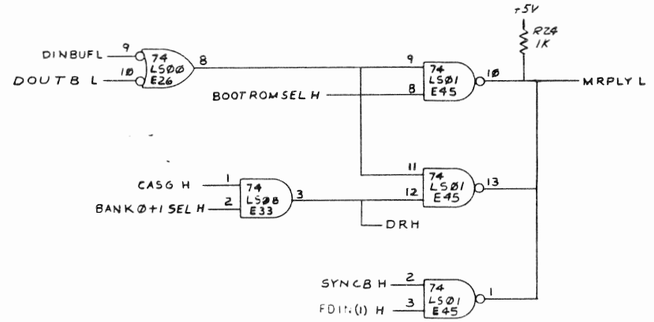
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DEC FORM NO 380 1002-0

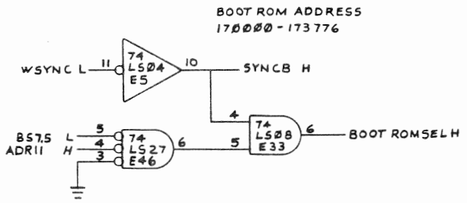
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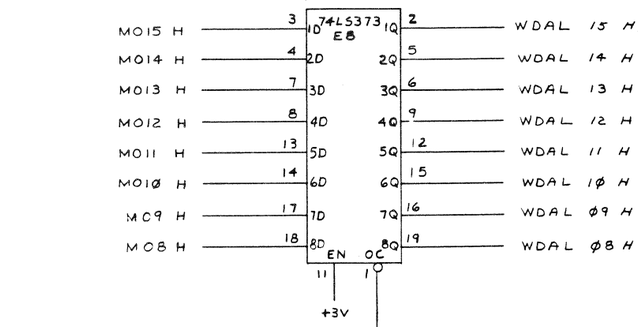


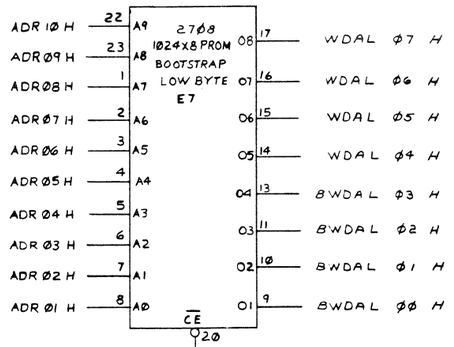
REVISIONS		
CHK	CHANGE NO.	REV.

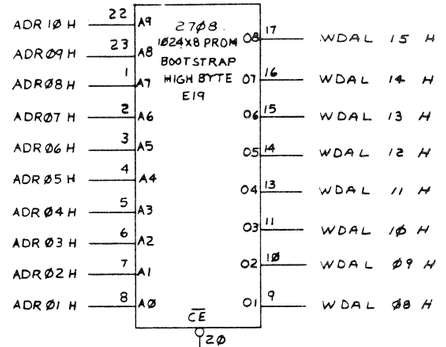
TITLE	MSTII TIM RAM MODULE		
SIZE	CODE	NUMBER	REV.
D	CS	5413275-0-1	E
SCALE		SHEET 2 OF 8	DIST.

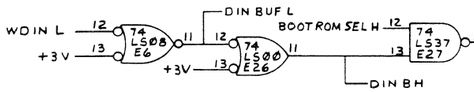
5413275-0-1 E

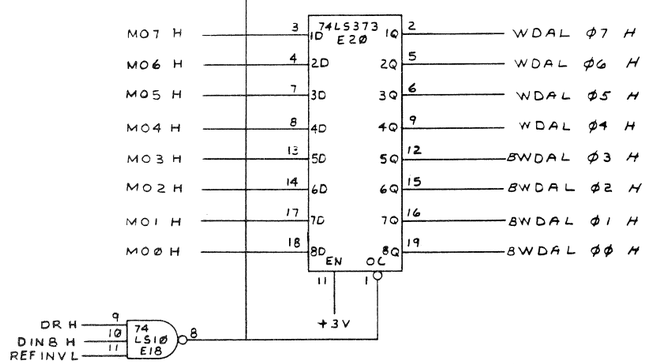
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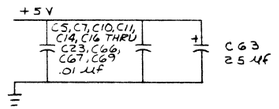


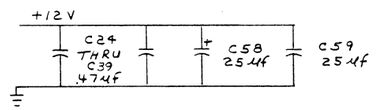


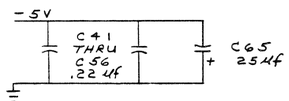












REVISIONS		
CHK	CHANGE NO.	REV.

TITLE MSTII TIM RAM MODULE		SIZE D	CODE DCS
SCALE	SHEET 3 OF 8	DIST.	NUMBER 5413275-0-1

REV. E

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OUT LB L

BWDAL ØØ H → DATA IN (2) | 16K/4K RAM E4 | DATA OUT (14) → MO Ø H

BWDAL Ø1 H → DATA IN (2) | 16K/4K RAM E12 | DATA OUT (14) → MO 1 H

BWDAL Ø2 H → DATA IN (2) | 16K/4K RAM E16 | DATA OUT (14) → MO 2 H

BWDAL Ø3 H → DATA IN (2) | 16K/4K RAM E2A | DATA OUT (14) → MO 3 H

RAS Ø L
CAS L

OUT LB L

WDAL Ø4 H → DATA IN (2) | 16K/4K RAM E31 | DATA OUT (14) → MO 4 H

WDAL Ø5 H → DATA IN (2) | 16K/4K RAM E40 | DATA OUT (14) → MO 5 H

WDAL Ø6 H → DATA IN (2) | 16K/4K RAM E44 | DATA OUT (14) → MO 6 H

WDAL Ø7 H → DATA IN (2) | 16K/4K RAM E53 | DATA OUT (14) → MO 7 H

RAS Ø L
CAS L

MUX AG H
MUX A5 H
MUX A4 H
MUX A3 H
MUX A2 H
MUX A1 H
MUX AØ H

BANK Ø (LOW BYTE)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE MSTII TIM RAM MODULE
SIZE D | CODE CS | NUMBER 5413275-0-1 | REV E
SCALE | SHEET 4 OF 8 | DIST.

5413275-0-1 REV E
DS 5413275-0-1

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OUT HB L
BWDAL Ø8 H
BWDAL Ø9 H
BWDAL 1Ø H
BWDAL 11 H
OUT B L
WDAL 12 H
WDAL 13 H
WDAL 14 H
WDAL 15 H
RAS Ø L
CAS L

DATA IN	2			
AØ	5			
A1	7			
A2	6			
A3	12			
A4	11			
A5	1Ø			
AG/$\overline{CS}$	13			
$\overline{R}$	4			
$\overline{C}$	15			
DATA OUT	14	MO 8 H	MO 9 H	MO 1Ø H
		MO 12 H	MO 13 H	MO 14 H

16K/4K RAM	E3	E11	E15
	E3Ø	E39	E

16K/4K RAM	E23	E52
DATA OUT	MO 11 H	MO 15 H

MUX AG H
MUX A5 H
MUX A4 H
MUX A3 H
MUX A2 H
MUX A1 H
MUX AØ H

BANKØ (HIGH BYTE)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	MSTII TIM RAM MODULE		
SIZE	CODE	NUMBER	REV.
D	CS	5413275-0-1	E
SCALE		SHEET 5 OF 8	DIST.

DEC FORM NO. 6900 138

5413275-0-1 REV E
DCS

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OUT LB L

BWDAL ØØ H → DATA IN (2) — 16K/4K RAM E2 — DATA OUT (14) → MO Ø H
BWDAL Ø1 H → DATA IN (2) — 16K/4K RAM E10 — DATA OUT (14) → MO 1 H
BWDAL Ø2 H → DATA IN (2) — 16K/4K RAM E14 — DATA OUT (14) → MO 2 H
BWDAL Ø3 H → DATA IN (2) — 16K/4K RAM E22 — DATA OUT (14) → MO 3 H

RAS 1 L
CAS L

OUT LB L

WDAL Ø4 H → DATA IN (2) — 16K/4K RAM E29 — DATA OUT (14) → MO 4 H
WDAL Ø5 H → DATA IN (2) — 16K/4K RAM E38 — DATA OUT (14) → MO 5 H
WDAL Ø6 H → DATA IN (2) — 16K/4K RAM E42 — DATA OUT (14) → MO 6 H
WDAL Ø7 H → DATA IN (2) — 16K/4K RAM E51 — DATA OUT (14) → MO 7 H

RAS 1 L
CAS L

MUX AG H
MUX A5 H
MUX A4 H
MUX A3 H
MUX A2 H
MUX A1 H
MUX AØ H

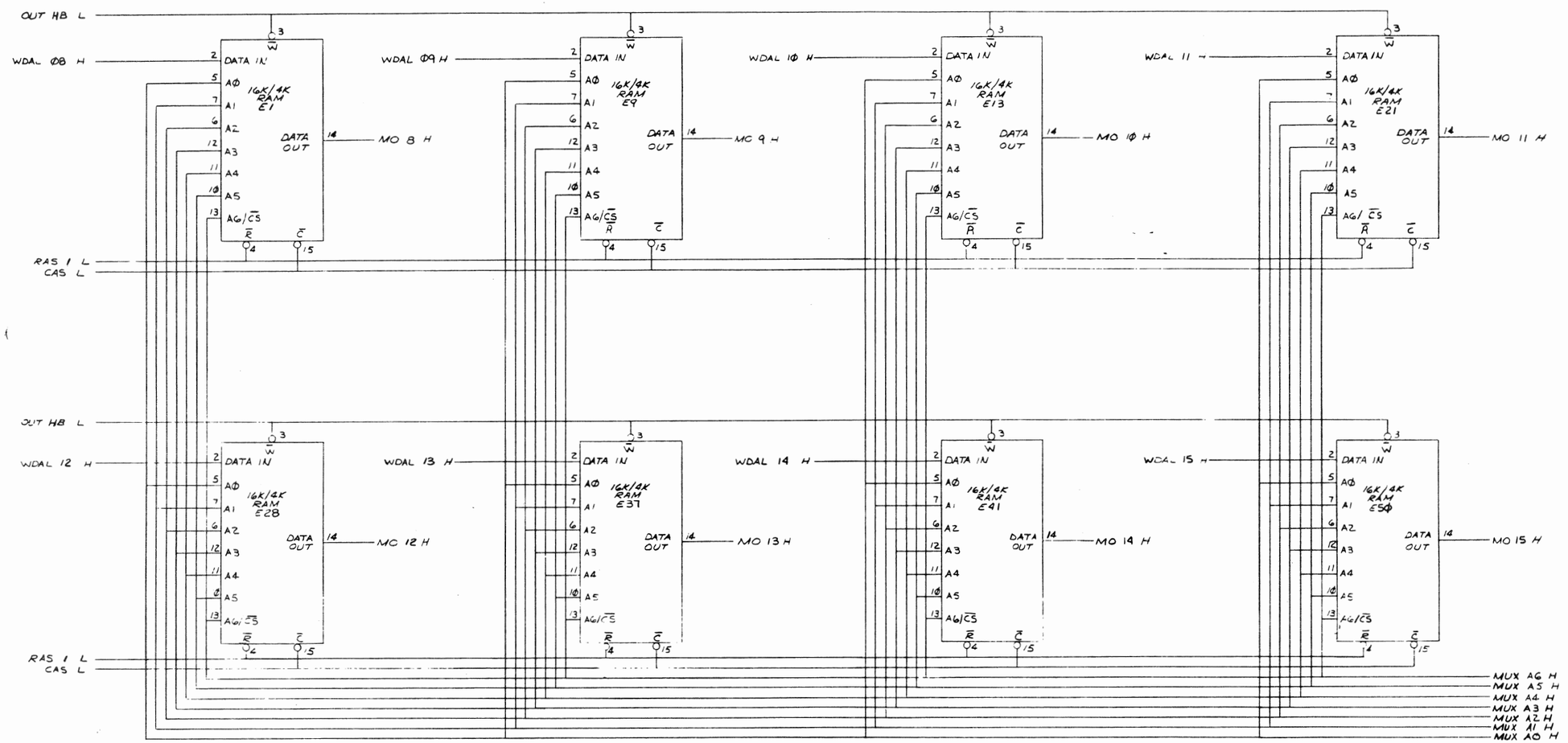
BANK 1 (LOW BYTE)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
MSTII TIM RAM MODULE	D	CS	5413275-0-1	E
SCALE →	SHEET 6 OF 8	DIST.		

DEC FORM NO. 1150

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REVISIONS

CHK	CHANGE NO.	REV.

BANK 1 (HIGH BYTE)

TITLE	SIZE	CODE	NUMBER	REV.
MST11 TIM RAM MODULE	D	CS	5413275-01	E
SCALE	SHEET 1 OF 8	DIST.		

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J4

20	+12V
19	
18	
17	
16	
15	
14	ADRØ7 H
13	ADRØ8 H
12	ADRØ6 H
11	ADRØ5 H
10	ADRØ4 H
9	ADRØ1 H
8	ADRØ2 H
7	DRØ3 H
6	+5V
5	
4	
3	
2	REF(Ø) H
1	

J1

24	DOUT (Ø) H
19	
18	
17	ADRØØ H
16	ADRØ9 H
15	ADRIØ H
14	
13	
12	ADRII H
11	
10	-5V
9	
8	
7	
6	
5	MRPLY L
4	WWB H
3	FD IN (1) H
2	
1	

J3

20	WDAL 15
19	WDAL 14 H
18	WDAL 13 H
17	WDAL 12 H
16	WDAL 11 H
15	WDAL 10 H
14	WDAL Ø9 H
13	WDAL Ø8 H
12	WDAL Ø7 H
11	WDAL Ø6 H
10	WDAL Ø5 H
9	WDAL Ø4 H
8	B WDAL Ø3 H
7	B WDAL Ø2 H
6	B WDAL Ø1 H
5	B WDAL ØØ H
4	
3	
2	
1	ADA 12 H

J2

24	WD IN L
19	
18	
17	
16	
15	
14	
13	
12	
11	
10	
9	
8	
7	
6	
5	ADR 13 H
4	ADR 14 H
3	ADR 15 H
2	
1	WSYNC L

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
MSTII TIM RAM MODULE	D	CS	5413275-0-1	E
SCALE	SHEET 8 OF 8	DIST.		

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-RXT11-0-1	FIELD MAINT. PRINT SET
TABLE OF CONTENTS	
B-DD-RXT11-0	FLOPPY CONTROLLER
B-PL-RXT11-0-0	FLOPPY CONTROLLER (PL)
B-PL-RXT11-0-3	RXT11 SHIP LIST
E-UA-5413273-0-0	FLOPPY CONTROLLER MODULE
K-PL-5413273-0-DBP	PARTS LIST (5413273)
D-CS-5413273-0-1	FLOPPY CONTROLLER MODULE (CS)

UNIT VARIATIONS COVERED BY THIS PRINT SET
RXT11

RXT11

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00688

SIZE B | CODE TC | RXT11-0-1 | REV.

REVISIONS			
REV		USED ON OPTION/MODEL	
CHG. NO.		PDT11/150	
DATE			

SHEET 1 OF 1

DRN. M Morrow	DATE 11 Aug 78	TITLE: FIELD MAINT. PRINT SET
CHK'D K W Counter	DATE 15 Aug 78	digital
PROJ. ENG. John Cyr	DATE 9-24-78	SIZE B | CODE TC | NUMBER RXT11-0-1 | REV.
FIELD SERV. D McDonald	DATE 9-25-78	DIST.

DRB 124

MR

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DRAWING DIRECTORY

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UNIT VARIATIONS

VAR	TITLE
RXT11	FLOPPY CONTROLLER

REVISIONS

REV.	CHANGE NO.	CHK

USED ON OPTION/MODEL

PDT11/150

SHEET 1 OF 2

DRN.	DATE	11 Aug 78
CHK'D.	DATE	15 Aug 78
PROJ. ENG.	DATE	8-24-78
PROD.	DATE	20 Oct 78

TITLE: FLOPPY CONTROLLER

digital

SIZE	CODE	NUMBER	REV
B	DD	RXT11-0	

DIST.

DRB 106A

MR

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP00688	FEILD MAINT. PRINT SET (MP)	-
	B-TC-RXT11-0-1	FEILD MAINT. PRINT SET (TC)	-
	B-PL-RXT11-0-0	FLOPPY CONTROLLER	E/M
	B-PL-RXT11-0-3	RXT11 SHIP LIST	E/M
	A-SP-RXT11-0-2	RXTII ENGINEERING SPEC	
	A-SP-3700383-02	PACKAGING INSTRUCTIONS	E/M
	CVKDAA	PDT11/150 SYSTEM EXERCISER	E/M
2	B-DD-5413273-0	FLOPPY CONTROLLER MODULE	E

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE FLOPPY CONTROLLER

SHEET 2 OF 2 | SIZE B | CODE DD | NUMBER RXT11-0 | REV

DRB 108A

MR

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY [illegible] DATE 1 Aug 78	CHECKED RWCarter DATE 15 Aug 78	SECTION 1
ENG [illegible] DATE [illegible]	PROD JAMcLellan DATE 20 Oct 78	ISSUED SECTION 1

NOTES:
1. * EARLY MODULES MAY HAVE PROM IN LIEU OF MASKED ROM.

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION	REF DESIGNATION
1		5413273	FLOPPY CONTROLLER MODULE	1	
2		23041E2	PROM (E30)	*	
3		23040E2	ROM (E3Φ)	1	
4		9009515-01	SCREW,SLOTTED PAN HD#4-40X.250	2	
5		9009306	SPACER,HEX #4-40X.250X.437LG.	2	

E.C.O. NO.

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
FLOPPY CONTROLLER	B-DD-RXT11-0	B	PL	RXT11-0-0	
	SHEET 1 OF 1	INSERTION PARTS LIST DATA BASE REV			

DRB 125

MR

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M Thomas	CHECKED R W Counter	SECTION 1
DATE 10 Aug 78	DATE 15 Aug 78	
ENG [illegible]	PROD J Thomas	ISSUED SECTION 1
DATE 6 24 79	DATE 20 Oct 78	

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION	REF DESIGNATION
1		RXT11	FLOPPY CONTROLLER	1	
2		MP00688	RXT11 PRINT SET	1	

NOTES:

E.C.O. NO.

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
RXT11 SHIP LIST	B-DD-RXT11-0	B	PL	RXT11-0-3	
	SHEET 1 OF 1	INSERTION PARTS LIST DATA BASE REV			

DRB 125

MR

REWORK INSTRUCTIONS

ECO "7

COMPONENT ADDS SIDE 1, AS SHOWN:
7-1 R111 (180)
7-2 R150 (150)
7-3 R148(180, 5W)
7-4 R149 (1K)

WIRE ADDS SIDE 1, AS SHOWN:
7-5 FROM PC3 TO PC4 WITH ITEM "117
7-6 FROM E37-6 TO PTH LEFT OF C16
7-7 FROM R139 TO E8-5
7-8 FROM E8-6 TO E31-2
7-9 FROM E31-2 TO E45-7
7-10 FROM PTH ABOVE E45 TO PTH ABOVE & RIGHT OF E28-14
7-11 FROM E23-7 TO PTH LEFT OF E20-8
7-12 FROM E24-7 TO PTH ABOVE E34-14

SEE E-EC-5013272-0-0 FOR ETCH CUTS

ECO "10

COMPONENT DELETIONS
10-11 PC1
10-12 PC2
10-13 PC3
10-14 PC4
10-15 1.21K RES FROM R38
10-16 1.21K RES FROM R44

COMPONENT ADDS
10-17 NEW CONNECTOR PC1 (SEE NOTE 1)
10-18 NEW CONNECTOR PC2
10-19 NEW CONNECTOR PC3
10-20 NEW CONNECTOR PC4

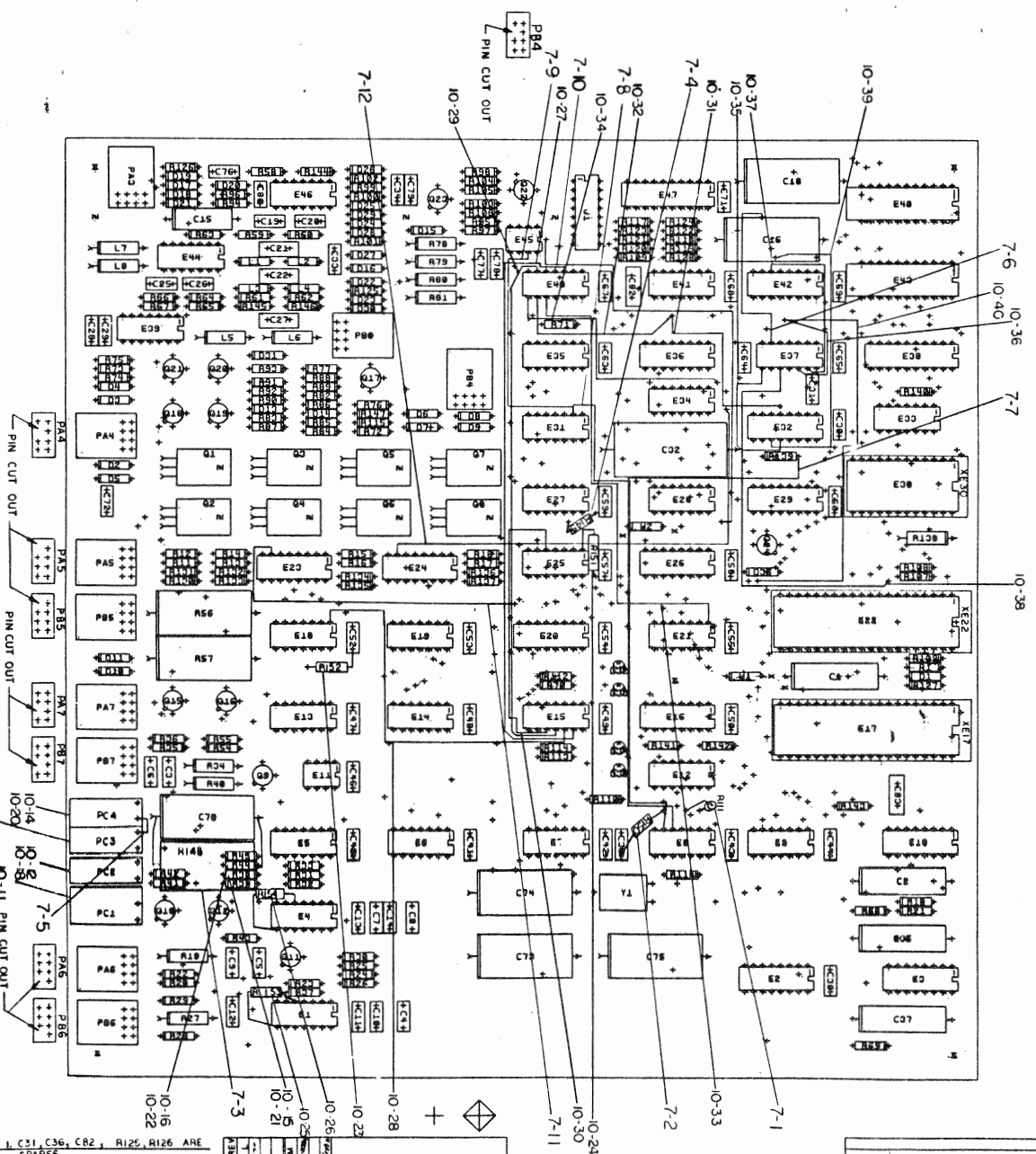
REWORK INSTRUCTIONS

ECO "10 CONT.

COMPONENT ADDS(CONT)
10-21 5.6K RES TO R38
10-22 5.6K RES TO R44
10-23 R152 FROM RIGHT END OF C52 TO PTH NEAR E18-11
10-24 R151 FROM E25-1 TO PTH ABOVE E25-14
10-25 R153 FROM E1-5 TO E1-8
10-26 R154 FROM E4-5 TO E4-8

WIRE ADDS AS SHOWN
10-27 FROM E40-3 TO E15-3
10-28 FROM E15-12 TO E18-1
10-29 FROM E40-6 TO E15-11
10-30 FROM E15-10 TO E25-5
10-31 FROM PTH AT E41-10 TO E17 SIDE OF ETCH CUT NEAR E37-11
10-32 FROM PTH AT E41-10 TO E40-9
10-33 FROM E40-10 TO E21-1
10-34 FROM PTH ABOVE E34-1 TO E40-8
10-35 FROM E32-12 TO E37-8
10-36 FROM PTH NEAR E37-4 TO E37-12
10-37 FROM E37-13 TO E42-6
10-38 FROM PTH BESIDE E22-8 TO E37-10
10-39 FROM PTH BESIDE E42-6 TO E32-11
10-40 FROM PTH BESIDE D36 TO PTH NEAR E37-4

NOTE: 1 REMOVE LEFT HAND PIN COMPLETLY BEFORE INSERTING CONNECTOR (ITEM # 118) AT PC1



NOTES: 1. C31, C36, C82, R125, R126 ARE SPARES.
2. E30 IS A OPTIONAL COMPONENT
3 DO NOT IMPLIMENT ECO#NO 5413273-ML010 INIO SYSTEM WITH SERIAL #NO 29,999 OR LESS

STEP & REPEAT: + Y AXIS ____ STEP ____ TIMES; + X AXIS ____ STEP ____ TIMES

CHG CHANGE NO REV
MR227 M

ETCH REV. E-P5

SIGNATURES	DATE
DRN.	
CHK'D.	
MECH. ENG.	
PROJ. ENG.	
PROD.	
SCALE 2/1	
SHT. 1 OF 1	
NEXT HIGHER ASSY. B-DD-5413273-0	

digital

TITLE FLOPPY CONTROLLER

SIZE E | CODE | NUMBER 54-13273-0-0 | REV M

5413273-0-0 M

MR

AUTOMATED BY PRTLST,2D(12) — P A R T S L I S T — SHEET A1 OF A4

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	E-MD-5013272-0-0	5013272-00	FLOPPY CONTROLLER R-W	1	
2	2		1000085-00	180 MFD 6V 20% 150D S,TA	1	C1
3	3		1004814-00	47 MFD 20V 10% 150D S,TA	2	C35,C37
4	4		1001765-00	5000,0 MMF 100V 20% Z5U DISC	5	C3,C6,C9,C12,C33
5	5		1001610-01	.01 MFD 100V -20+80 Z5U DISC	43	C4,C5,C7,C8,C10,C11,C13,C14,C28,
					CONT	C29,C30,C34,C38,C40-C44,C46-C50,
					CONT	C52-C55,C57-C60,C63-C65,C67-C69,
					CONT	C71,C72,C76-C79
6	6		1000075-00	25 MFD 25V G% 30D AL EL	5	C16,C18,C73-C75
7	7		1010978-32	.047 MFD 50V 10% 2C067CER,	4	C19,C20,C25,C26
8	8		1000021-00	*** THIS ITEM IS NOT USED ***	-	
9	9		1000020-00	180,0 MMF 100V 5%200PPM DM15S	1	C21
10	10		1009671-00	.51 MFD 100V 5% 410P MYLR	1	C32
11	11		1001739-00	*** THIS ITEM IS NOT USED ***	-	
12	12		1000080-00	50 MFD 50V G% 30D AL EL	1	C70
13	13		1105275-00	D 672 TR= 15NS PIV= 60V SI	8	D1,D15-D17,D19,D20,D22,D31
14	14		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	10	D2-D11
15	15		1110713-00	SZ710910 VZ= 5,1 2% M	2	D13,D14
16	16		1111577-00	1N 4454 TR= 4NS PIV= 50 S	10	D18,D21,D23-D30
17	17		1110324-00	LED 1MCD@10MA PIV=3	4	D32-D35
18	18		1213335-02	HEADER 9POS RT ANGLE	10	PA3-PA7,PB3-PB7
19	19		1212204-00	HEADER,156 2POS RT ANGLE	4	PC1-PC4
20	20		1215006-02	SOCKET 16PIN IC LOW PROFILE	1	J1
21	21		1215006-06	SOCKET 24PIN IC LOW PROFILE	1	XE30
22	22		1215006-08	SOCKET 40PIN IC LOW PROFILE	2	XE17,XE22
23	23		1300439-00	3,30 K ,25 W 5,0 % CC	8	R1,R76,R88,R89,R94,R96,R98,R104
24	24		1302715-00	*** THIS ITEM IS NOT USED ***	-	
25	25		1300250-00	150,0 ,25 W 5,0 % CC	1	R150
26	26		1309405-00	68,0 ,50 W 5,0 % CC	4	R19,R27,R34,R40
27	27		1303312-00	10,0 K 1/4W 1% RN55D-F 100PPM	4	R20,R28,R36,R42

REVISION HISTORY			BASIC PART NO: 5413273
ENG	ECO NUMBER	REV	SECTION A OF A
---	INIT	C	SECTION,VARIATION INDEX
MN	MR001	D	[A] 00
MN	MR002	E	[B]
MN	MR003	F	[C]
WL	MR004	H	[D]
WL	MR005	J	[E]
WL	5413273-MR006	K	[F]
JC	5413273-MR007	L	[H]
			[J]
			[K]
			[L]
			[M]
			[N]

DRN: E,WILSON	DATE: 04-MAY-78		D	I	G	I	T	A	L
CHK'D: R,W,CAUNTER	DATE: 04-MAY-78	TITLE: PARTS LIST							
DES,ENG: W,LEDDER	DATE: 15-MAY-78	5413273 FLOPPY CONTROLLER R-W							
RESP,ENG: J,CYR	DATE: 15-MAY-78	DOCUMENT NUMBER							
MFG,ENG: R,HAMELTON	DATE: 15-MAY-78	SIZE: K	CODE: PL	NUMBER: 5413273-0-DBP				REV: L	
ASSEMBLY NUMBER: E-UA-5413273-0-0	TOP DOCUMENT NUMBER: PDT11/150	FILE NAME: Z0454L.PLS						EDIT #: 27	

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MR

MR

AUTOMATED BY PRTLST,2D(12) — P A R T S L I S T — SHEET A2 OF A4

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
28	28		1300365-00	1.0 K .25 W 5.0 % CC	14	R21,R54,R55,R64,R65,R77,R91,R92,
					CONT	R103,R105,R106,R110,R139,R149
29	29		1302871-00	1.21 K 1/4W 1% RN55D-F 100PPM	11	R22,R29,R35,R38,R41,R44,R72-R74,
					CONT	R84,R115
30	30		1300391-00	1.50 K .25 W 5.0 % CC	7	R23,R30,R37,R43,R63,R90,R93
31	31		1302941-00	14.7 K 1/4W 1% RN55D-F 100PPM	5	R24,R2o,R31,R33,R75
32	32		1304856-00	4.64 K 1/4W 1% RN55D-F 100PPM	5	R10,R25,R32,R39,R45
33	33		1300479-00	10.0 K .25 W 5.0 % CC	19	R11-R18,R95,R97,R107,R108,R116,
					CONT	R127,R128,R129,R140-R142
34	34		1309094-00	100 5W 5% WW	2	R56,R57
35	35		1302644-00	*** THIS ITEM IS NOT USED ***	-	
36	36		1303047-00	*** THIS ITEM IS NOT USED ***	-	
37	37		1302411-00	*** THIS ITEM IS NOT USED ***	-	
38	38		1300488-00	12.0 K .25 W 5.0 % CC	2	R68,R69
39	39		1301322-00	180.0 .25 W 5.0 % CC	5	R70,R111-R114
40	40		1305143-00	825 1/4W 1% RN55D-F 100PPM	1	R71
41	41		1300385-00	1.20 K .50 W 5.0 % CC	4	R78-R81
42	42		1304868-00	2.74 K 1/4W 1% RN55D-F 100PPM	1	R87
43	43		1303156-00	34.8 K 1/4W 1% RN55D-F 100PPM	2	R99,R100
44	44		1309419-00	19.6 K 1/4W 1% RN55D-F 100PPM	2	R101,R102
45	45		1300295-00	330.0 .25 W 5.0 % CC	1	R109
46	46		1302751-00	30.0 .25 W 5.0 % CC	8	R117-R124
47	47		1510421-00	*** THIS ITEM IS NOT USED ***	-	
48	48		1510705-00	XA 05 NPN 500MW SI 60 50 P	7	Q9-Q12,Q15,Q16,Q23
49	49		1510706-00	XA 55 PNP 500MW SI 60 50 P	6	Q17-Q22
50	50		1610663-00	*** THIS ITEM IS NOT USED ***	-	
51	51		1601759-00	*** THIS ITEM IS NOT USED ***	-	
52	52		1602723-00	1000 UH 10% 125MA	4	L5-L8
53	53		1812396-09	XTAL 16,000 MHZ	1	Y1
54	54		1910337-00	DEC 1414L VOLT,COMPARATOR,DUAL	3	E1,E4,E39
55	55		1912848-00	LS158 MUX 1 OF 2 (QUAD)	1	E2
56	56		1912837-00	LS123 ONE SHOT-DUAL,RETRIG	1	E3
57	57		1914451-00	74LS393 COUNTER,BINARY,4BIT	2	E5,E14
58	58		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	2	E6,E41
59	59	SEE NOTE 2	1912824-00	LS74 FF-D DUAL,EDGE TRIGG	3	E7,E13,E28
60	60		1912803-00	LS04 INVERTER GATE-HEX 1I	1	E27
61	61		1912801-00	LS02 NOR-GATE-QUAD 2IN	3	E9,E21,E37
62	62		1910406-00	75451 DRIVER,PERIPH,DUAL,	1	E11
63	63		1909928-00	7416 INVERTER GATE-HEX 1I	1	E15
64	64		1912849-00	LS161 COUNTER,SYNCHR,4BIT	2	E16,E26
65	65		2115105-00	FLOPPY DISK CONTROLLER/FORMATTER	1	E17
66	66		1905587-00	*** THIS ITEM IS NOT USED ***	-	
67	67		1912820-00	LS51 A-O-I GATE 2-WIDE 2I	1	E19
68	68		1912844-00	LS151 MUX 1 OF 8 & DATA	1	E20
69	69		2114963-00	UP,8-BIT NMOS	1	E22
70	70		1912853-00	*** THIS ITEM IS NOT USED ***	-	
71	71		1912842-00	LS138 DECODER-THREE INPUT,	1	E29
72	72		1912805-00	LS08 AND GATE-QUAD 2IN,PO	3	E12,E31,E33

D	I	G	I	T	A	L	TITLE	SECTION A OF A
							5413273 FLOPPY CONTROLLER R-W	

SIZE	CODE	DOCUMENT NUMBER	REV
K	PL	5413273-0-DBP	L

MR

MK

AUTOMATED BY PRTLST,2D(12) P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
73	73		1911116-00	DEC 8837 RECEIVER,BUS,HEX,UN	1	E32
74	74		1910741-00	7406 INVERTER GATE-HEX 1I	1	E35
75	75		1914214-00	LS374 FF-D OCTAL EDGE TRIG	1	E38
76	76		1910644-00	733 DIFFERENTIAL AMP,WID	2	E44,E46
77	77		1912847-00	LS157 MUX 1 OF 2(QUAD)	1	E42
78	78		2113681-00	RAM, 256X4, TRI-ST,	2	E43,E48
79	79		1910645-00	75452 DRIVER,PERIPH,DUAL,	1	E45
80	80		1915218-00	LS245 TRANSCEIVER,BUS,OCT	1	E47
81	81		9006010-01	SCREW,PAN ,PHIL, 4-40X 5/16	8	
82	82		9006557-00	NUT,KEP , 4-40X 1/4 AF	8	
83	83		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	W1,W2
84	84		9009769-00	WASHER, RECTANGULAR .405X.225X.0	8	
85	85		1303177-00	2.40 K .25 W 5.0 % CC	5	R82,R83,R85,R86,R147
86	86		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
87	87		1005820-00	22.0 MMF 100V 5%200PPM DM15S	1	C83
88	88		1000011-00	*** THIS ITEM IS NOT USED ***	-	
89	89		1110420-00	*** THIS ITEM IS NOT USED ***	-	
90	90		9009597-00	INSULATOR, THERMA-FILM	8	
91	91		1000026-00	680.0 MMF 100V 5%200PPM DM15S	1	C22
92	92		1313590-00	1.5 K 1/4W 1% RN55D-F 100PPM	2	R145,R146
93	93		1000015-00	82.0 MMF 100V 5%200PPM DM15S	1	C27
94	94		1912829-00	LS86 X-OR GATE-QUAD 2IN	1	E34
95	95		1000006-00	*** THIS ITEM IS NOT USED ***	-	
96	96		1910534-00	74S04 INVERTER GATE-HEX 1I	1	E8
97	97		1000050-00	.033 MFD 100V 10% 663UW MYLR	1	C15
98	98		1503409-01	DEC6534B PNP 310MW SI 40 90 P	1	Q24
99	99		1311522-00	200.0 .25 W 5.0 % CC	2	R66,R67
100	100		1612946-02	22 UH 10%	2	L1,L2
101	101		1610661-00	56 UH 10% #DD56	2	L3,L4
102	102		1912858-00	LS221 ONE SHOT-DUAL,SCHMIT	1	E10
103	103		1912697-00	LS174 FF-D HEX W/CLEAR	1	E36
104	104		1912816-00	LS32 OR GATE-QUAD 2IN,POS	1	E40
105	105		1909984-00	DEC 74141 DECODER&NIXIE TUBE D	2	E23,E24
106	106		1912823-00	LS73 FF-JK DUAL W/CLEAR	2	E18,E25
107	107		1102809-00	1N 752A VZ= 5.6 5% .40W	1	D36
108	108		1301781-00	82.0 .50 W 5.0 % CC	1	R138
109	109		1300447-00	4.70 K .25 W 5.0 % CC	8	R130-R137
110	110		1514509-00	TIP 125 PNP 65W SI 60 500 8A	8	Q1-Q8
111	111		1300496-00	15.0 K .25 W 5.0 % CC	2	R143,R144
112	112		1302874-00	147 1/4W 1% RN55D-F 100PPM	4	R59-R62
113	113		1302377-00	39.0 .25 W 5.0 % CC	1	R58
114	114		1312655-00	180 5W 5%	1	R148
115	115		1004813-00	10 MFD 20V 10% S.TANT	1	C2
116	116		1010274-02	1 MFD 50V X% 2C023 CER.	1	C80
117	117		9107560-03	WIRE,BUSS,18AWG	A/R	

D	I	G	I	T	A	L	TITLE	SECTION A OF A
							5413273 FLOPPY CONTROLLER R-W	

SIZE	CODE	DOCUMENT NUMBER	REV
K	PL	5413273-0-DBP	L

MR

MR

AUTOMATED BY PRTLST,2D(12) P A R T S L I S T SHEET A4 OF A4

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR

118 NOTE: 1.ITEM 90 TO BE USED ON(ITEM 47)Q1-Q8.
119 NOTE: 2.7474 (1905547) MAY BE SUBSTITUTED FOR XE7 (ITEM #59) .

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							5413273 FLOPPY CONTROLLER R-W		K	PL	5413273-0-DBP	L

MR

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NOTES:
1. DRIVES AT REV. J ARE PROPERLY PHASED AND CAN BE USED WITH BOARDS AT LEVEL J,J1, AND K. DRIVES BELOW REV. J MAY NOT OPERATE PROPERLY WITH BOARDS AT LEVEL K AND ABOVE, AND MAY REQUIRE RE-ADJUSTMENT. REFER TO ECO #7013077-MR006 AND ECO # PDT 11/150-MR006 FOR PROPER RE-ADJUSTMENT INSTRUCTIONS.
2. DO NOT IMPLIMENT ECO#5413273-ML010 INTO SYSTEM WITH SERIAL NO 29.999 OR LESS

R111 180 · R150 150 · R142 10K · S04 E8 · LS08 E12 · F1 16MHZ · Y1 · 16 MHZ
F5 4MHZ · R141 10K · LS08 E12 · F1 CLK 2MHZ
R1 3.3 K · D1 D672 · W1 · C1 180 MF · F1 RESET L · RESIN
8085 E22 SOCKET XE22
CLK · SOD · SID · F1 SID SEL · S0 · S1 · RES OUT · LS02 E37
R140 10K · LS08 E33 · F1 DONE H
A15 · A13 · A12 · A11 · A10 · A9 · A8 · F1 A10 · F1 A9 · F1 A8
RD L · WR L · ALE · F1 RD L · F1 WR L · F1 ALE
F2 TIM RD L · 8837 E32 · LS02 E37 · F1 UB RD L
F2 TIM ALE · 8837 E32 · F1 B TIM ALE
F1 ALE · F1 RD L · F1 UB RD L · F1 WR L · F2 UB WR L · F1 RAM SEL L · F2 TIM FD SEL L · LS157 E42 · F1 ALE CLK · F1 RAM RD L · F1 RAM WR L · F1 RAM EN L
F1 A15 · +AV · LS138 E29 · F1 DISP CLK L · F1 DISP CLR L · F1 FD SEL L · F1 RAM SEL L · F1 ROM SEL L
F3 INTR H · R107 10K · RES 7.5
F2 TIM GO H · 8837 E32 · LS02 E37 · RES 6.5
R108 10K · F3 DRQ H · REQ 5.5
R53 10 K · TRAP · RDY
R116 10 K · S04 E8 · F2 BTEST L · F1 BTEST H
HOLD · INTR · R109 330
AD0 · AD1 · AD2 · AD3 · AD4 · AD5 · AD6 · AD7 · F1 AD0 · F1 AD1 · F1 AD2 · F1 AD3 · F1 AD4 · F1 AD5 · F1 AD6 · F1 AD7
F3 HEAD ENG L · F3 SCT 1A · F3 SCT 1B · F3 SCT 2A · F3 SCT 2B · F4 DK 0 AVAIL H · F4 DK 1 AVAIL H · F1 BTEST H · LS151 E20 · F1 SID SEL · F3 DISP 3 · F3 DISP 2 · F3 DISP 1
C16 25 MF · C75 25 MF · -5V
+12V · C73 25 MF
C72 .01MF · C70 50MF · R148 180 · +24V
C30 .01 UF · C38 .01 UF · C40 THRU C44 .01UF · C46 THRU C50 .01UF · C52 THRU C55 .01UF · C57 THRU C60 .01UF · C63 THRU C65 .01UF · C67 THRU C69 .01UF · C71 .01 UF · C74 25 MF · R21 1K · R110 1K · C18 25MF · +AV · +CV

IC POWER PIN CONNECTIONS

TYPE	+5	GND	-5	+12
8085	40	20		
1771	21	20	1	40
8316E	24	12		
2101A	22	8		
75451	8	4		
20 PIN	20	10		
16 PIN	16	8		
14 PIN	14	7		

REVISIONS			
CHK	CHANGE NO.	REV	
	5413273-MR001	D	W. LEDDER 9/Dec/78
	5413273-MR002	E	W. LEDDER 10/1/78
	5413273-MR003	F	W. LEDDER 6-NOV-78
	5413273-MR004	H	W. LEDDER 6-MAR-79
	5413273-MR005	J	W. LEDDER 5-MAR-79
	5413273-MR006	K	W. LEDDER 10 AUG 79
	5413273-MR007	L	J.CYR 12 NOV 79
	5413273-ML010	M	J GANONG 14 MAY 80

DRN.	FIRST USED ON PDT 11/150 digital
CHK'D	
ENG.	
PROJ. ENG.	
PROD.	
NEXT HIGHER ASSY.	TITLE RX36 FLOPPY CONTROLLER
B-DD-5413273-0	SIZE D · CODE CS · NUMBER 5413273-0-1 · REV M
SCALE NONE	DIST.
SHEET 1 OF 7	

F1: CONTROL PROCESSOR

MR 2 5413273-0-1 M

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+5V

8316E
E30
SOCKET
XE30

F2 A0 8
F2 A1 7
F2 A2 6
F2 A3 5
F2 A4 4
F2 A5 3
F2 A6 2
F2 A7 1
F1 A8 23
F1 A9 22
F1 A10 19
F1 RD L 20 CS1
F1 ROM SEL L 18 CS2
+5V 21 CS3
12

9 F1 AD0
10 F1 AD1
11 F1 AD2
13 F1 AD3
14 F1 AD4
15 F1 AD5
16 F1 AD6
17 F1 AD7

F1 RAM WR L 20 R/W
+AV 17 CE2
F1 RAM EN L 19 CE1
F2 A0 4
F2 A1 3
F2 A2 2
F2 A3 1
F2 A4 21
F2 A5 5
F2 A6 6
F2 A7 7

21Ø1A-2
E43

OD 18 F1 RAM RD L
DI1 9
DO1 10 F1 AD0
DI2 11
DO2 12 F1 AD1
DI3 13
DO3 14 F1 AD2
DI4 15
DO4 16 F1 AD3

F1 RAM WR L 20 R/W
+A 17 CS2
F1 RAM EN L 19 CS1
F2 A0 4
F2 A1 3
F2 A2 2
F2 A3 1
F2 A4 21
F2 A5 5
F2 A6 6
F2 A7 7

21Ø1
E48

OD 18 F1 RAM RD L
DI1 9
DO1 10 F1 AD4
DI2 11
DO2 12 F1 AD5
DI3 13
DO3 14 F1 AD6
DI4 15
DO4 16 F1 AD7

TIM INTF
J1

1 F2 TIM GO H
2 F2 HDBAD3 H
3 F2 HDBAD5 H
4 F2 HDBAD7 H
5 F2 HDBADI H
6 F2 TIM RD L
7 F2 UB WR L
8 F1 DONE H
9
10 F2 TIM FD SEL L
11 F2 HDBAD0 H
12 F2 HDBAD2 H
13 F2 HDBAD 2 H
14 F2 HDBAD4 H
15 F2 TIM ALE
16 F2 BTEST L

F1 AD0 3 R0 f0 2 F2 A0
F1 AD1 4 R1 LS374 E38 f1 5 F2 A1
F1 AD2 7 R2 f2 6 F2 A2
F1 AD3 8 R3 f3 9 F2 A3
F1 AD4 13 R4 f4 12 F2 A4
F1 AD5 14 R5 f5 15 F2 A5
F1 AD6 17 R6 f6 16 F2 A6
F1 AD7 16 R7 f7 19 F2 A7
CLK 11 1

F1 ALE CLK 1
LS00 E41 2 3
R128 10K
+5V

F2 HDBAD 0 H R119 30 18 2 F1 AD0
F2 HDBAD 1 H R124 30 17 3 F1 AD1
F2 HDBAD 2 H R120 30 16 4 F1 AD2
F2 HDBAD 3 H R121 30 15 5 F1 AD3
F2 HDBAD 4 H R117 30 14 6 F1 AD4
F2 HDBAD 5 H R122 30 13 7 F1 AD5
F2 HDBAD 6 H R116 30 12 8 F1 AD6
F2 HDBAD 7 H R123 30 11 9 F1 AD7

LS245
E47
1 19

F2 TIM FD SEL L 5
LS02 E37 4
F1 RAM RD L 6

F1 DONE H 4
LS00 E41 5 6 F2 DONE L
R129 10K
+5V

+5V

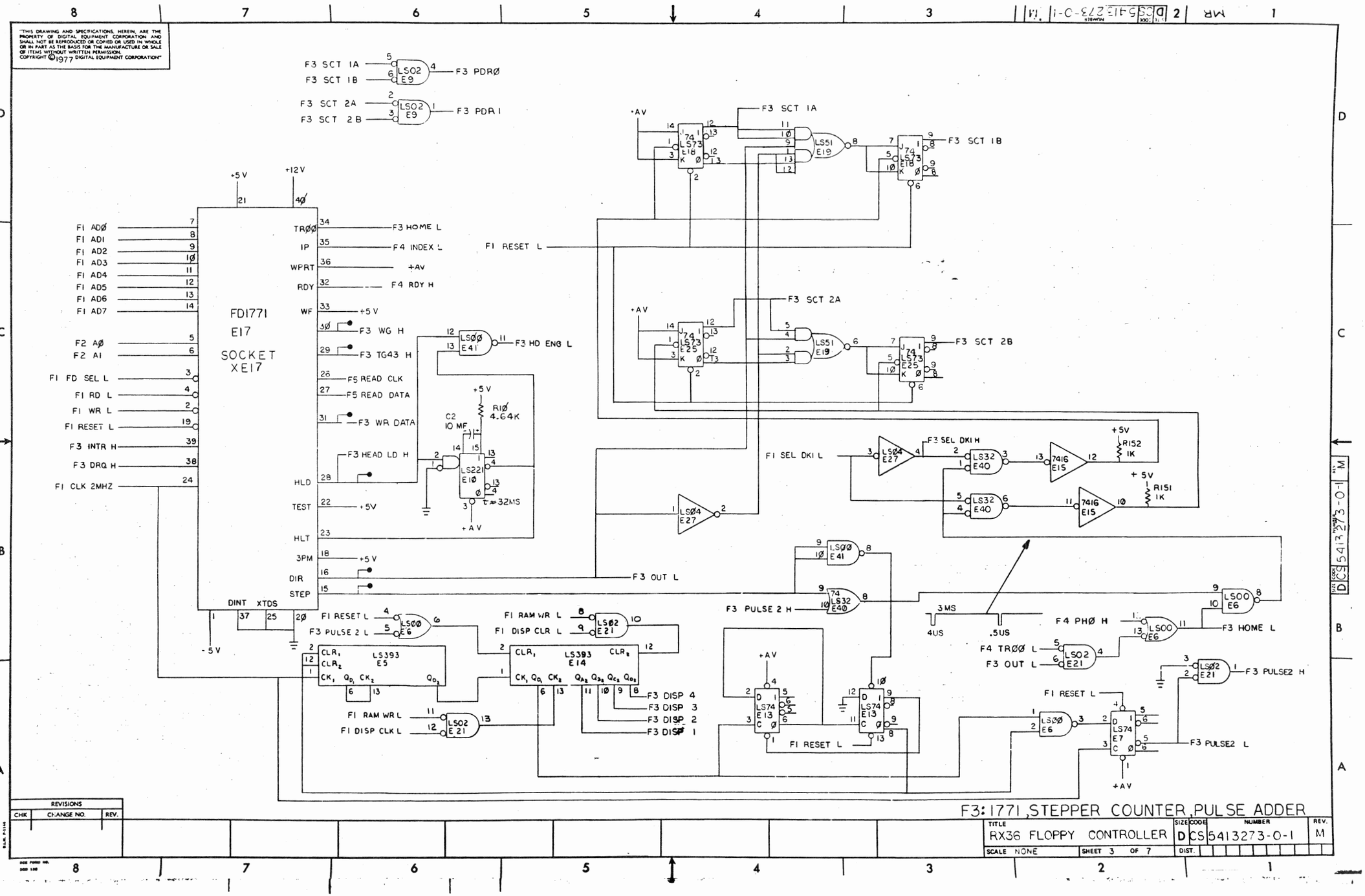
F3 DISP1 1 7416 E15 2 R70 180 D32 LED
F3 DISP2 3 7416 E15 4 R112 180 D33 LED
F3 DISP3 5 7416 E15 6 R113 180 D34 LED
F3 DISP4 9 7416 E15 8 R114 180 D35 LED

F2: ROM, RAM, ADR DRIVER, INTERFACE

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	RX36 FLOPPY CONTROLLER		
SIZE	CODE	NUMBER	REV.
D	CS	5413273-0-1	M
SCALE	NONE	SHEET 2 OF 7	DIST.

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F3: 1771, STEPPER COUNTER, PULSE ADDER

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
RX36 FLOPPY CONTROLLER	D	CS	5413273-0-1	M
SCALE NONE	SHEET 3 OF 7		DIST.	

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DKØ PA6 — INDEX — R19 68 ½W — R20 10K 1% — Q9 AØ5 — R22 1.21K 1% — C3 .ØØ5µf — R23 1.5K — R24 14.7K 1% — R25 4.64K 1% — R26 14.7K — C4 .01UF — C5 .01µf — +12V — -5V — +5V — +AV — C35 47µf — R68 12K — LS123 E3 — F4 DK Ø AVAIL H

DKØ PA7 — TRK ØØ — R34 68 ½W — R35 1.21K 1% — Q11 AØ5 — R36 10K 1% — C9 .ØØ5µf — R37 1.5K — R38 5.6K — R39 4.64K 1% — C10 .01µf — C11 .01µf — R153 5.6K

DK1 PB6 — R27 68 ½W — R28 10K 1% — Q10 AØ5 — R29 1.21K 1% — C6 .ØØ5µf — R30 1.5K — R31 14.7K 1% — R32 4.64K 1% — R33 14.7K — C7 .01µf — C8 .01µf — F4 DK1 AVAIL H

DK1 FB7 — R40 68 ½W — R41 1.21K 1% — Q12 AØ5 — R42 10K 1% — C12 .ØØ5µf — R43 1.5K — R44 5.6K — R45 4.64K 1% — R154 5.6K — C13 .01µf — C14 .01µf

C37 47µf — R69 12K — LS123 E3

LS158 E2 (STB, SO) — F3 PDR1 — F3 PDRØ

F4 RDY H — F4 INDEX L — F4 TRØØ L — F4 PHØ H — LS34 E27

F1 SEL DK1 L — F3 HEAD LD H — F3 SEL DK1 H

75451 E11 — Q15 AØ5 — DIØ IN4ØØ4 — +24V — DKØ HEAD LOAD — DKØ PA5 — R54 1K — R55 1K — R56 1ØØ 5W

75451 E11 — Q16 AØ5 — DI1 IN4ØØ4 — DK1 HEAD LOAD — DK1 PB5 — R57 1ØØ 5W

PC4 — +24V — +24VRET
PC3 — -5V — +5V
PC2
PC1 — +12V

F4:HEAD LOAD, TRØ, INDEX

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
RX36 FLOPPY CONTROLLER	D	CS	5413273-0-1	M
SCALE NONE	SHEET 4 OF 7		DIST.	

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+5V
L8 1000 uh
C19 .047uf R59 147 L1 22 uh L3 56 uh R145 1.5K
C18 .033 uf
C8Ø .1uf
F6 R/W BUS +
F6 R/W BUS -
R144 15K
733 E46
R58 39
C21 180 pF C22 680 pF
C26 .047uf RGØ 147 L2 22 uh L4 56 uh RG2 147 R146 1.5K
L5 1000 uh
L6 1000 uh
C27 82 pF
733 E44
L7 1000 uh
-5V
C25 .047 uf RG3 1.5K C26 .047uf
RGG 200 RG4 1K RG5 1K RG7 200
+12V
C28 .01 uf
1414 E39
W2
F5 RAW DATA H
R147 2.4K
-5V
C29 .047uf
+5V
F5 4 MHZ
F5 8 MHZ
74 LS74 E28
+CV
74LS161 E26
F1 RESET L
16 MHZ
74 LS04 E27
74 LS86 E34
74LS161 E16
F5 WINDOW H
F5 TRX L
F1 16 MHZ
74 LS08 E9
F5 RD CLK H
F5 RD DATA H
74LS74 E36
F5 RAW DATA H
F5 A H
F5 B H
F5 C H
F5 E H
F5 6D H
F5 8 MHZ
F5 G D H
74 LS221 E16
R143 15K
C83 22 PF
F5 E H
F5 TRX L

F5:READ CHAIN AND DATA SEPERATOR

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
RX36 FLOPPY CONTROLLER	D	DCS	5413273-0-1	M
SCALE	SHEET 5 OF 7	DIST.		

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NOTE:
1. DIODES ARE DEC PART NO. 1111577, 1114454 OR EQUIV.

+5V
R71 825 1%
R115 1.21K 1%
R72 1.21K 1%
7406 E35
C32 .51 μf 5%
τ_{on} : 224 nS
t_{on} : 523 nS
R73 1.21K 1%
R74 1.21K 1%
R75 14.7K 1%
1414 E39
-5V
D31 D672
7406 E35
+24V
R77 1K
R76 3.3K
Q17 A55
R78 1.2K 1/2 W
R79 1.2K 1/2 W
R80 1.2K 1/2 W
R81 1.2K 1/2W
C33 .005 μf
D15 D672
D16 D672

F3 WG H
F7 B RESET L
LS08 E31
7406 E35
R82 2.4 K
+24V
R83 2.4K
D13 5.1V
R84 1.21K 1%
Q18 A55
R85 2.4K
D14 5.1V
R87 2.74K 1%
Q19 A55
R86 2.4K

F3 TG43 H
SO4 E8
LS08 E31
7406 E35

D17 D672
D18 SEE NOTE 1
D24 SEE NOTE 1
D25 SEE NOTE 1
F6 R/W BUS +

+AV
F3 WR DATA
LS74 E7
+CV
LS08 E31
7406 E35
R93 1.5K
R88 3.3K
R89 3.3K
R90 1.5K
R91 1K
R92 1K
+5V
+24V
Q20 A55
Q21 A55
C76 .01uf
R96 3.3K
R94 3.3K
+24V
R95 10K
D19 D672
C77 .01uf
DK0 HEAD PA3
R97 10K
D22 D672
C78 .01uf
DK1 HEAD PB3
D21 SEE NOTE 1
D30 SEE NOTE 1
R98 3.3K
R100 34.8K 1%
R99 34.8K 1%
C79 .01 μf
-5V
C34 .014 μf
R102 19.6K 1%
R101 19.6K 1%
D26 SEE NOTE 1
D27 SEE NOTE 1

F1 SEL DK1 L
F7 B RESET L
F3 SEL DK1 H
75452 E45
D20 D672
D29 SEE NOTE 1
D28 SEE NOTE 1
FG R/W BUS -

LS04 E27
R106 1K
R103 1K
Q22 A55
Q23 A05
R104 3.3K
R105 1K
+5V
-5V

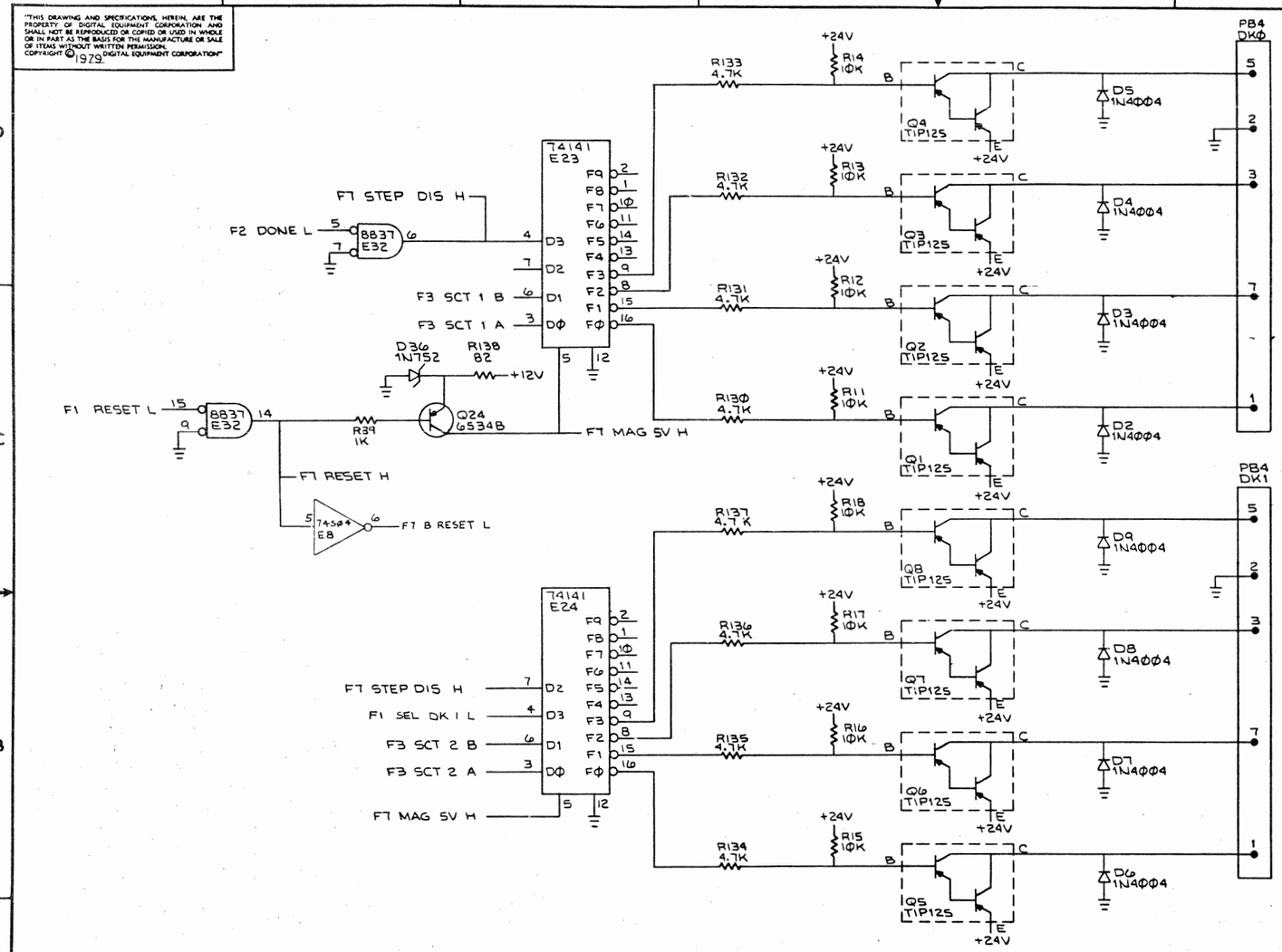
F6: RW BUS, WRITER, HEAD

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
RX36 FLOPPY CONTROLLER	D	CS	5413273-0-1	M
SCALE NONE	SHEET 6 OF 7		DIST.	

NEXT ASSY: 5413273-0-1 M

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F7 : STEPPER MOTOR DRIVER

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
RX36 FLOPPY CONTROLLER	D	CS	5413273 - 0 - 1	M
SCALE	SHEET 7 OF 7	DIST.		

5413273-0-1 M
DCS 5413273-0-1 M

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-KDT11-0-1 FIELD MAINT. PRINT SET
TABLE OF CONTENTS
B-DD-KDT11-0 TERMINAL INTELLIGENCE
B-PL-KDT11-0-0 TERMINAL INTELLIGENCE
B-PL-KDT11-0-3 KDT11 SHIP LIST
E-UA-5413271-0-0 TERMINAL INTELLIGENCE MODULE
K-PL-5413271-0-DBP TERMINAL INTELLIGENCE MODULE (PL)
D-CS-5413271-0-1 TERMINAL INTELLIGENCE MODULE (CS)

UNIT VARIATIONS COVERED BY THIS PRINT SET
KDT11-AA
KDT11-AB
KDT11-AC

KDT11

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00687

REVISIONS		
REV	CHG. NO.	DATE
A	KDT11-MR0001	4 JUNE 79

USED ON OPTION/MODEL	
PDT11/150	

SHEET 1 OF 1

DRN. M Monroe	DATE 11 Aug 78	
CHK'D E.D. Lawton	DATE 15 Aug 78	
PROJ. ENG. John Cyr	DATE 8-24-78	
FIELD SERV. D. Heathcock	DATE 9-25-78	

digital

TITLE: FIELD MAINT. PRINT SET

SIZE	CODE	NUMBER	REV.
B	TC	KDT11-0-1	A

DIST.

SIZE B | CODE TC | NUMBER KDT11-0-1 | REV. A

DRB 124

MR

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DRAWING DIRECTORY

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UNIT VARIATIONS

VAR	TITLE
KDT11-AA	TERMINAL INTELLIGENCE
KDT11-AB	TERMINAL INTELLIGENCE
KDT11-AC	TERMINAL INTELLIGENCE

REVISIONS		
REV	CHANGE NO.	CHK
A	KDT11-MR0001	
B	KDT11-MR0002	
C	KDT11-MR0003	

USED ON OPTION/MODEL

PDT11/150

SHEET 1 OF 2

DRN.	DATE	
CHK'D.	DATE	
PROJ. ENG.	DATE	
PROD.	DATE	

TITLE: TERMINAL INTELLIGENCE

digital

SIZE	CODE	NUMBER	REV
B	DD	KDT11-0	C

DIST.

DRB 106A

MR

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP00687	FIELD MAINT. PRINT SET (MP)	-
	B-TC-KDT11-0-1	FIELD MAINT. PRINT SET (TC)	-
	B-PL-KDT11-0-0	TERMINAL INTELLIGENCE	E/M
	B-PL-KDT11-0-3	KDT11 SHIP LIST	E/M
	A-SP-KDT11-0-2	KDT11 ENGINEERING SPEC	E/M
	A-SP-3700383-02	PACKAGING INSTRUCTIONS	
	CVKDAC	PDT11/150 SYSTEM EXERCISER	E/M
2	B-DD-5413271-0	TERMINAL INTELLIGENCE MODULE	E

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE: TERMINAL INTELLIGENCE

SHEET 2 OF 2 | SIZE B | CODE DD | NUMBER KDT11-0 | REV C

DRB 108A

MR

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY M. Morand DATE 11 Aug 78 | CHECKED RW Carriker DATE 15 Aug 78 | SECTION 1
ENG John Cyr DATE 8-24-78 | PROD J Donilla DATE 20 Oct 78 | ISSUED SECTION 1

NOTES:
1. * EARLY MODULES MAY HAVE PROMS IN LIEU OF MASKED ROMS.

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION KDT11-AA	KDT11-AB	KDT11-AC	REF DESIGNATION
1		5413271	TERMINAL INTELLIGENCE MODULE	1	1	-	
2		23043E2	I.C. ROM Ø (E16)	1	-	1	
3		23042E2	I.C. ROM 1 (E25)	1	-	1	
4		23039E2	I.C. ROM 2 (E10)	1	-	1	
5		23047E2	I.C. PROM 0 (E16)	*	-	*	
6		23048E2	I.C.PROM 1 (E25)	*	-	*	
7		23049E2	I.C. PROM 2 (E10)	*	-	*	
8		23064E2	I.C. ROM 0 (E16)	-	1	-	
9		23063E2	I.C. ROM 1 (E25)	-	1	-	
10		23062E2	I.C. ROM 2 (E10)	-	1	-	
11		23090E2	I.C. PROM 0 (E16)	-	1	-	
12		23091E2	I.C. PROM 1 (E25)	-	1	-	
13		23092E2	I.C. PROM 2 (E10)	-	1	-	
14		5413271-YA	TERMINAL INTELLIGENCE MODULE	-	-	1	

E.C.O. NO. KDT11-MR001, KDT11-MR002, KDT11-MR003

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TITLE TERMINAL INTELLIGENCE

ASSY NO. B-DD-KDT11-0 | SIZE B | CODE PL | NUMBER KDT11-0-0 | REV. C

SHEET 1 OF 1 | INSERTION PARTS LIST DATA BASE REV

DRB 125

MR

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY / DATE	CHECKED RWCarlson DATE 15 Dec 78	SECTION
ENG / DATE	PROD Romaker DATE 20 Oct 78	ISSUED SECTION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION KDT11-AA	KDT11-AB	KDT11-AC										NOTES: / REF DESIGNATION
1		KDT11-AA	TERMINAL INTELLIGENCE	1	-	-										
2		KDT11-AB	TERMINAL INTELLIGENCE	-	1	-										
3		MP00687	KDT11 PRINT SET	1	1	1										
4		KDT11-AC	TERM INTL INTELLIGENCE	-	-	1										

E.C.O. NO. KDT11-MR001

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
KDT11 SHIP LIST	B-DD-KDT11-0	B	PL	KDT11-0-3	A
	SHEET 1 OF 1	INSERTION PARTS LIST DATA BASE REV			

DRB 125

MR

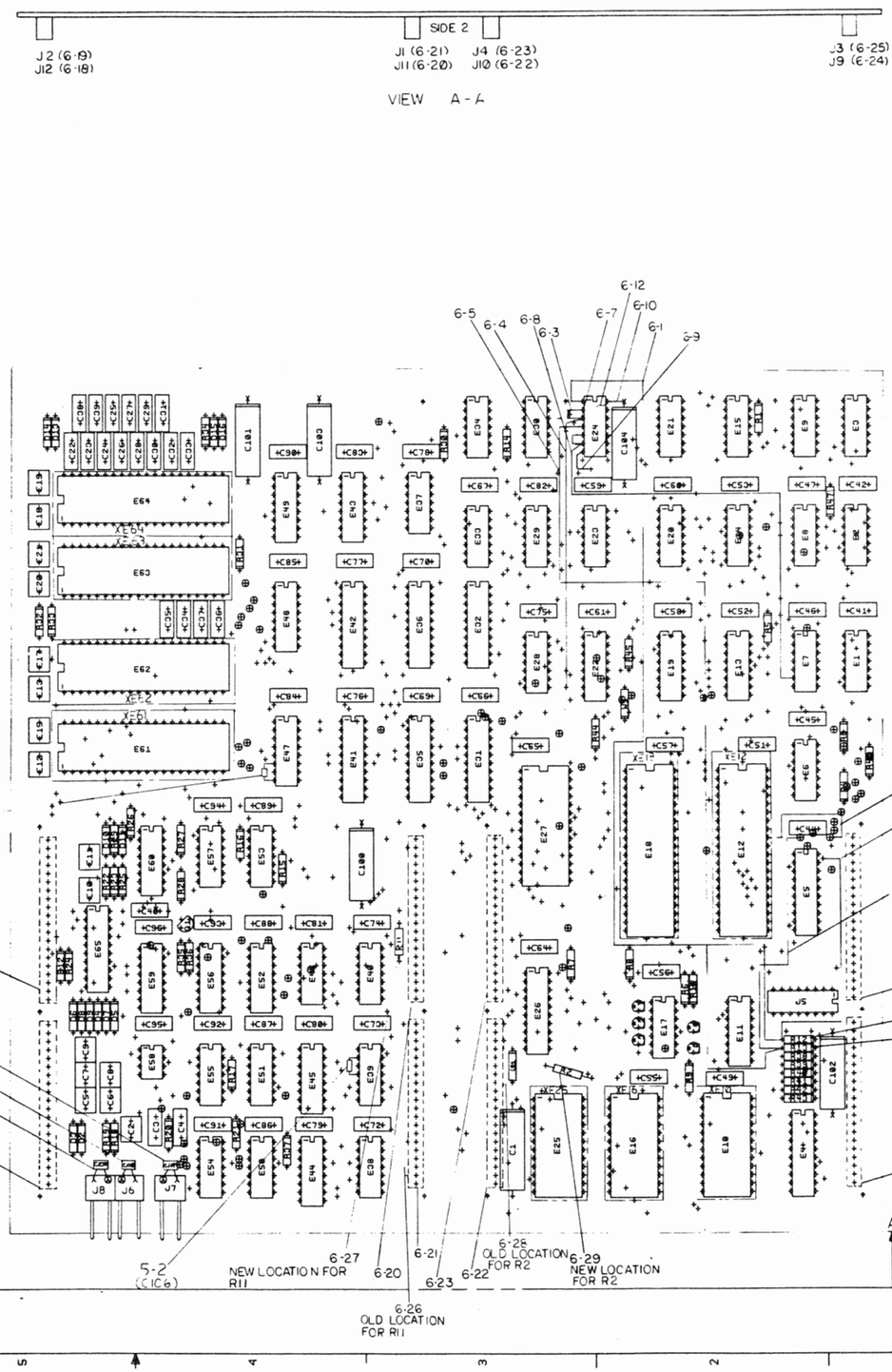
REWORK INSTRUCTIONS

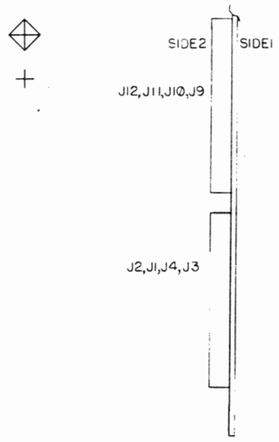
ECO '5

COMPONENT ADDS SIDE 1, AS SHOWN:
5-1. C105 FROM E47-6 TO E47-8
5-2. C106 FROM E39-2 TO E39-4

ECO '6

COMPONENT DELETE SIDE1 AS SHOWN
6-26 R11 2K
6-28 R2 33K
ETCH CUTS SIDE1 AS SHOWN
EC6-1 AT PTH LEFT SIDE NEAR E12-32
EC6-2 AT PTH RIGHT SIDE NEAR E12-32
EC6-3 AT E12-30
EC6-4 AT R12
EC6-5 AT R13
COMPONENT ADDS SIDE 1 AS SHOWN
6-12 E24 (6861)
6-13 R12 (180)
6-14 R13 (180)
6-15 C107 (.22UF)
6-16 C108 (.22UF)
6-17 C109 (.22UF)
6-27 R11 (2K)
6-29 R2 (3.3K)
COMPONENT ADDS SIDE 2 HAND SOLDER AFTER WAVE SOLDER AS SHOWN
6-18 J12 STRIP SOCKET
6-19 J2
6-20 J11
6-21 J1
6-22 J10
6-23 J4
6-24 J9
6-25 J3 STRIP SOCKET
WIRE ADDS SIDE1 AS SHOWN
6-1 FROM E24-1 TO R12 LEFT
6-2 FROM R12 LEFT TO PTH NEAR E5-10 AND E5-20
6-3 FROM E24-2 TO E24-3
6-4 FROM E24-3 TO PTH NEAR E28-6
6-5 FROM E24-4 TO R13 LEFT
6-8 FROM R13 LEFT TO PTH BELOW C44 LEFT
6-7 FROM E24-5 TO E24-6
6-8 FROM E24-6 TO E7-6
6-9 FROM E24-7 TO PTH BELOW E24 (GND)
6-10 FROM E24-14 TO C104 TOP (VCC)
6-11 FROM E12-32 ETCH TO PTH BELOW C44 RIGHT





digital

SIGNATURES
DRN.
CHK'D
MECH. ENG.
PROJ. ENG.
PROD. ENG.
SCALE
SHT.
OF
NEXT HIGHER ASSY.

DATE
TITLE I.I.M.
SIZE/CODE E
NUMBER A 54-13271-0J
REV

ETCH REV.

NOTES:
1. DO NOT IMPLEMENT ECO NO. 54-13271-M1 OR 7 INTO SYSTEMS WITH KERNAL NO. 29,999 OR LESS.

STEP X + X PULSES — STOP — TIMES
REPORT + X PULSES — STOP — TIMES

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	YA	REFERENCE DESIGNATOR
1	1	D-MD-5013270-0-0	5013270-00	ETCH BOARD FOR 54-13271	1	1	
2	2		1000086-00	180 MFD 6V 20% S.TANT	1	1	C1
3	3		1012312-01	.47 MFD 50V +80-20% CER	16	16	C2,C5-C13,C15,C17-C21
4	4		1013466-07	220.0 MMF 50V 5% CER	2	2	C3,C4
5	5		1013466-04	33.0 MMF 50V 5% CER	18	18	C22-C39
6	6		1001610-00	.01 MFD 50V +80-20% 25U CER	50	50	C40-C42,C44-C47,C49,C51-C53,
						CONT	C55-C61,C64-C67,C69,C70,C72-C96,
						CONT	C105
7	7		1000075-00	25 MFD 25V +75-10% AL EL	5	5	C100-C104
8	8		1100114-00	D 664 GS\75PCB PIV= 25V SP	13	13	D1-D9,D13-D16
9	9		1100113-00	D 662 OS 600PCB(STABISTOR)	2	2	D10,D11
10	10		1100122-00	1N 748A VZ= 3.9 5%	1	1	D12
11	11		1110324-00	LED 1MCD@10MA PIV=3	5	5	L1-L5
12	12		1215006-02	SOCKET 16PIN IC LOW PROFILE	1	1	J5
13	13		1212204-00	HEADER.156 2POS RT ANGLE	3	3	J6,J7,J8
14	14		1300365-00	1.0 K .25 W 5.0 % CC	2	2	R1,R37
15	15		1300439-00	3.30 K .25 W 5.0 % CC	1	1	R2
16	16		1300479-00	10.0 K .25 W 5.0 % CC	3	3	R3,R5,R44
17	17		1301424-00	680.0 .25 W 5.0 % CC	2	2	R4,R32
18	18		1301322-00	180.0 .25 W 5.0 % CC	7	7	R6-R10,R12,R13
19	19		1302388-00	2.0 K .25 W 5.0 % CC	10	10	R11,R14-R17,R25,R30,R31,R33,R34
20	20		1300197-00	33.0 .25 W 5.0 % CC	2	2	R18,R19
21	21		1300316-00	470.0 .25 W 5.0 % CC	2	2	R20,R21
22	22		1300247-00	120.0 .25 W 5.0 % CC	3	3	R22-R24
23	23		1301317-00	10.0 .25 W 5.0 % CC	3	3	R26-R28
24	24		1305125-00	383.0 .25 W 1.0 % RN55D-F10	1	1	R36
25	25		1303047-00	464.0 .25 W 1.0 % RN55D-F10	1	1	R35
26	26		1510705-01	B 05 NPN 500MW SI 60 50	1	1	Q1
27	27		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	2	2	E1,E34
28	28		1912816-00	LS32 OR GATE-QUAD 2IN,POS	3	3	E2,E9,E20

REVISION HISTORY			BASIC PART NO: 5413271											
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: E.WILSON	DATE: 06-MAR-78		D	I	G	I	T	A	L
	INIT	B	SECTION.VARIATION INDEX	CHK'D: R.W.CAUNTER	DATE: 03-APR-78	TITLE PARTS LIST							
MN	MR001	C	[A] 00,YA			5413271							
MN	MR002	D	[B]			TERMINAL INTELLIGENCE MODULE							
JC	MR003	E	[C]	DES.ENG: J.CYR	DATE: 02-MAY-78								
JC	5413271-MR005	F	[D]			DOCUMENT NUMBER							
JC	5413271-ML007	H	[E]										
			[F]	RESP.ENG.: J.CYR	DATE: 02-MAY-78	SIZE	CODE	NUMBER		REV			
			[H]										
			[J]										
			[K]	MFG.ENG.: R.HAMELTON	DATE: 02-MAY-78	K	PL	5413271-0-DBP		H			
			[L]										
			[M]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:				EDIT #			
			[N]	E-UA-5413271-0-0	PDT11/150	Z0436H.PLS				14			

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	YA	REFERENCE DESIGNATOR
29	29		1912801-00	LS02 NOR-GATE-QUAD 2IN	2	2	E3,E14
30	30		1915218-00	LS245 TRANSCEIVER,BUS,OCT	3	3	E4,E5,E65
31	31		1912805-00	LS08 AND GATE-QUAD 2IN,PO	3	3	E6,E21,E23
32	32		1912803-00	74LS04 INVERTER GATE,HEX	2	2	E7,E37
33	33		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	7	7	E8,E15,E29,E33,E39,E40,E50
34	34		2114963-00	UP,8-BIT NMOS	1	1	E12
35	35		1912697-00	LS174 FF-D HEX W/CLEAR	2	2	E11,E47
36	36		1912842-00	LS138 DECODER-THREE INPUT,	4	4	E13,E19,E22,E49
37	37		1909928-00	7416 INVERTER GATE-HEX 1I	1	1	E17
38	38		2114964-00	RAM 2048 MOSJ-STATIC	1	1	E18
39	39		1914214-00	LS374 FF-D OCTAL EDGE TRIG	3	3	E26,E35,E36
40	40		2115104-00	INTERRUPT-PROGRAMMAB	1	1	E27
41	41		1913414-00	LS14 INVERTER GATE-HEX SC	1	1	E28
42	42		1912808-00	LS11 AND GATE-TRIPLE 3IN	1	1	E30
43	43		1915193-00	LS244 DRIVER,LINE,OCTAL,T	2	2	E31,E32
44	44		1914451-00	74LS393 COUNTER,BINARY,4BIT	1	1	E38
45	45		1915219-00	LS373 FF-D OCTAL-TRANSPARE	2	2	E41,E42
46	46		1912395-00	DM 8136 COMPARATOR-6BIT UNIF	2	2	E43,E48
47	47		1910545-00	74S112 FF-JK DUAL,EDGE TRIG	2	2	E44,E45
48	48		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	2	2	E46,E51
49	49		1911195-00	7497 MULTIPLIER,6BIT BINA	1	1	E52
50	50		1910532-00	74S00 NAND GATE-QUAD 2IN	1	1	E53
51	51		1912388-00	74S02 NOR GATE-QUAD 2IN,PO	1	1	E54
52	52		1910035-00	DEC 74197 COUNTER,ASYNCH UP,H1	1	1	E55
53	53		1911527-00	8097 BUFFER GATE-HEX 2INP	1	1	E56
54	54		1912098-00	0026 DRIVER,MOS CLOCK,2	1	1	E58
55	55		1910957-00	74S175 FF-D QUAD COMMON CLO	1	1	E59
56	56	SEE NOTE 1	1914282-01	3245 DRIVER,QUAD TTL-NMOS	1	1	E60
57	57		1811660-22	OSCILLATOR, XTAL 30.413 MHZ	1	1	E57
58	58		23002C4-00	LSI-11 CONTROL CHIP FIN. SPEC.	1	1	E62
59	59		2300185-00	B5-01,B5-AA	1	-	E63
60	60		23002B5-00	LSI-11 MICROM 1 FIN. SPEC.	1	-	E64
61	61		2115579-00	PG 1611H N-CHAN SILICON CHIP	1	1	E61
62	62		1215006-06	SOCKET 24PIN IC LOW PROFILE	3	3	XE10,XE16,XE25
63	63		1215006-08	SOCKET 40PIN IC LOW PROFILE	6	6	XE12,XE18 XE61-XE64
64	64		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	1	W1
65	65		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	A/R	
66	66		1301522-00	27.0 .25 W 5.0 % CC	1	1	R29
67	67		1012784-00	.047 MFD 50V +80-20% CER	1	1	C106
68	68		23003B6-00	B6-03	-	1	E63
69	69		23003B5-00	B5-01	-	1	E64
70	70		1010274-00	.22 MFD 50V +80-20% Z5U CER	3	3	C107-C109
71	71		1909705-00	DEC 8881 NAND GATE-QUAD 2IN O	1	1	E24
72	72		1217861-00	HEADER.100 20SKT PC MTG	8	8	J1-J4,J9-J12

D	I	G	I	T	A	L	TITLE	SECTION A OF A
							5413271 TERMINAL INTELLIGENCE MODULE	

SIZE	CODE	DOCUMENT NUMBER	REV
K	PL	5413271-0-DBP	H

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00 YA	REFERENCE DESIGNATOR

73 NOTE: 1. USE 1914282-00 AS A SUBSTITUTE FOR 1914282-01.

DIGITAL	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
	5413271 TERMINAL INTELLIGENCE MODULE		K	PL	5413271-0-DBP	H

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8085 E12
PCLK 1 X1
PLCK 2 X2
TSDATI H
WIAK H 1 — 74 LSØ8 E6 — 3
BDIN H 2
SID 5
TRAP 6
TIMER H 7 RST 7.5
PTBMT H 8 RST 6.5
PDA H 9 RST 5.5
10 INTR
RESET OUT 37
INTA 11
HLDA 38
SOD 4
IO/M 34
SI 33
S0 29
WR 31
RD 32
ALE 36
RDY 35
HOLD 39
RESET IN 36

74 LSØ2 E14: 5, 6 → 4
RESET OUT L
RESET OUT H
INTA L

R3 10K: +5V → RDY
R4 68Ø: HOLD → GND

I/O 9 L
C5 8259-5 E27
WA L 2 WR
RD L 3 RD
AB H 27 AØ
WC INTRQ H 25 IR7
FRIR H 24 IR6
FWIR H 23 IR5
CTBMT H 22 IR4
DONE H 21 IR3
TTBMT H 20 IR2
T DA H 19 IR1
C DA H 18 IRØ
INTA L 26 INTA
INT 17
12 CØ
13 C1
15 C2
SP 16 → +3VA

D7 4 BAD 7 H
D6 5 BAD 6 H
D5 6 BAD 5 H
D4 7 BAD 4 H
D3 8 BAD 3 H
D2 9 BAD 2 H
D1 10 BAD 1 H
DØ 11 BAD Ø H

A15 28 A15 H
A14 27 A14 H
A13 26 A13 H
A12 25 A12 H
A11 24 A11 H
AIØ 23 AIØ H
A9 22 A9 H
A8 21 A8 H

A7 19 AD7 H
A6 18 AD6 H
A5 17 HD5 H
A4 16 AD4 H
A3 15 AD3 H
A2 14 AD2 H
A1 13 AD1 H
AØ 12 ADØ H

J5 FLOPPY INTERFACE
TIM RD L 6 → 11 HD BAD Ø
UBWR L 7 → 5 HD BAD 1
DONE H 8 → 12 HD BAD 2
TIM GO H 1 → 2 HD BAD 3
FD SEL L 10 → 14 HD BAD 4
TIM ALE H 15 → 3 HD BAD 5
BTEST L 16 → 13 HD BAD 6
9 → 4 HD BAD 7

+3VA 9 — 74 LSØ8 E6 — 10 → 8 WR L
UBWR L
74 LS32 E2: 12, 13 → 11 RD L
ALE H

RD L 12 — 74 LSØ8 E6 — 11
INTA L 13
BLANK Ø H → 74LS245 E5 ENBG 19, DIR 1
BLANK 1 H → 74LS245 E4 ENBG 19, DIR 1

E5: A8 9 AD7 H; A7 8 AD6 H; A6 7 HD5 H; A5 6 AD4 H; A4 5 AD3 H; A3 4 AD2 H; A2 3 AD1 H; A1 2 ADØ H
B8 11 HDBAD 7 H; B7 12 HDBAD 6 H; B6 13 HDBAD 5 H; B5 14 HDBAD 4 H; B4 15 HDBAD 3 H; B3 16 HDBAD 2 H; B2 17 HDBAD 1 H; B1 18 HDBAD Ø H

E4: A1 2 HDBAD 7 H; A2 3 HDBAD 6 H; A4 5 HDBAD 5 H; A6 7 HDBAD 4 H; A8 9 HDBAD 3 H; A7 8 HDBAD 2 H; A5 6 HDBAD 1 H; A3 4 HDBAD Ø H
B1 18 BAD 7 H; B2 17 BAD 6 H; B4 15 BAD 5 H; B6 13 BAD 4 H; B8 11 BAD 3 H; B7 12 BAD 2 H; B5 14 BAD 1 H; B3 16 BAD Ø H

+5V — R1 1K — +3VA

+5V — R2 3.3K — D1 D664 — C1 18Ø uF → FP RESET L
74 LS14 E28: 1 → 2; INIT H; 3 → 4; INIT L
74 LSØ8 E6: WDINIT L 4, 5 → 6

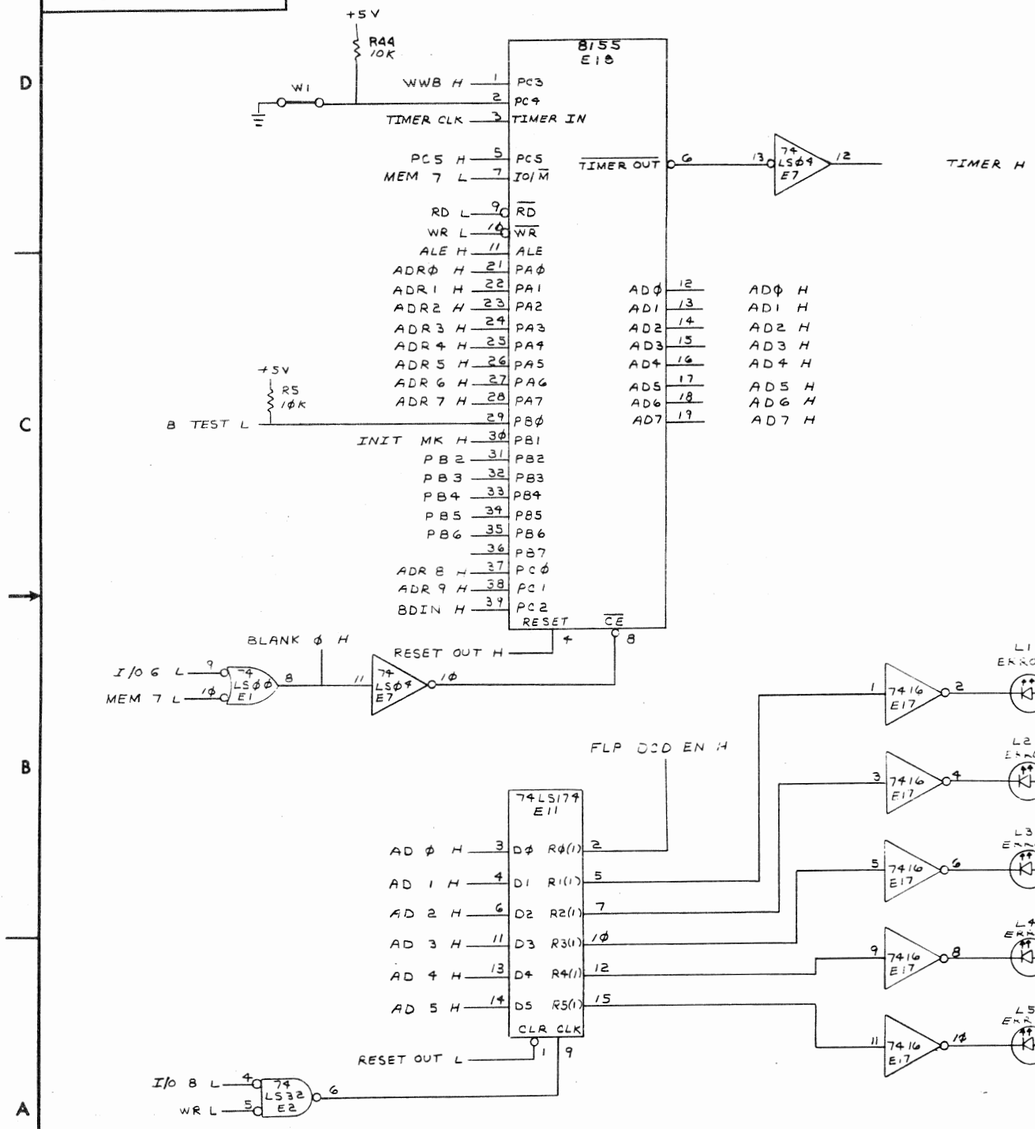
PROCESSOR, INTERRUPT CONTROL, AD BUFFER

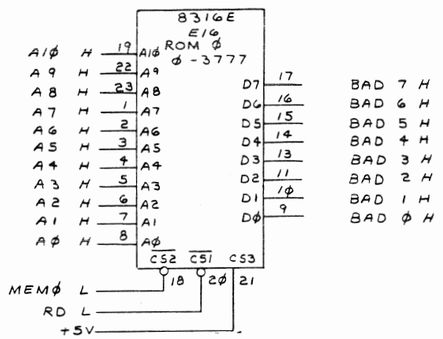
REVISIONS		
CHK	CHANGE NO.	REV.
MLØ	5413271-MLØØ1	C
MLØ	5413271-MLØØ2	D
MLØ	5413271 MLØØ3	E
MLØ	5413271-ML0007	F
A AMICO	5413271 - ML0006	H
A AMICO		

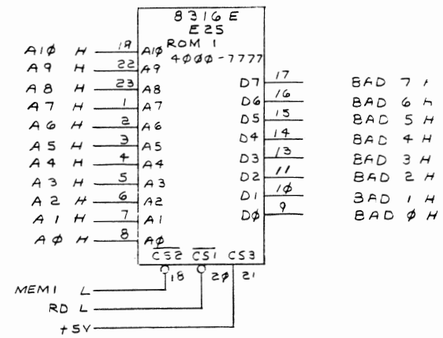
DRN.		
CHK'D		
ENG.		
PROJ. ENG.		
PROD.		
NEXT HIGHER ASSY.	5-11-54132?1-0	
SCALE	NONE	
SHEET	1 OF 3	

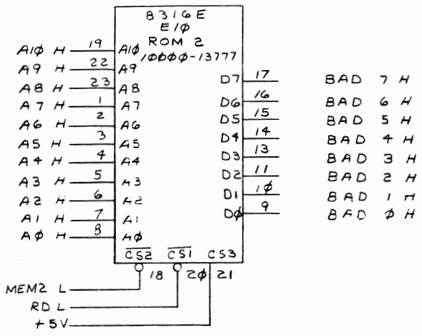
FIRST USED ON RXT-11 digital
TITLE T.IM INTELLIGENCE MODULE
SIZE D CODE CS NUMBER 5413271-0-1 RFV. H
DIST.

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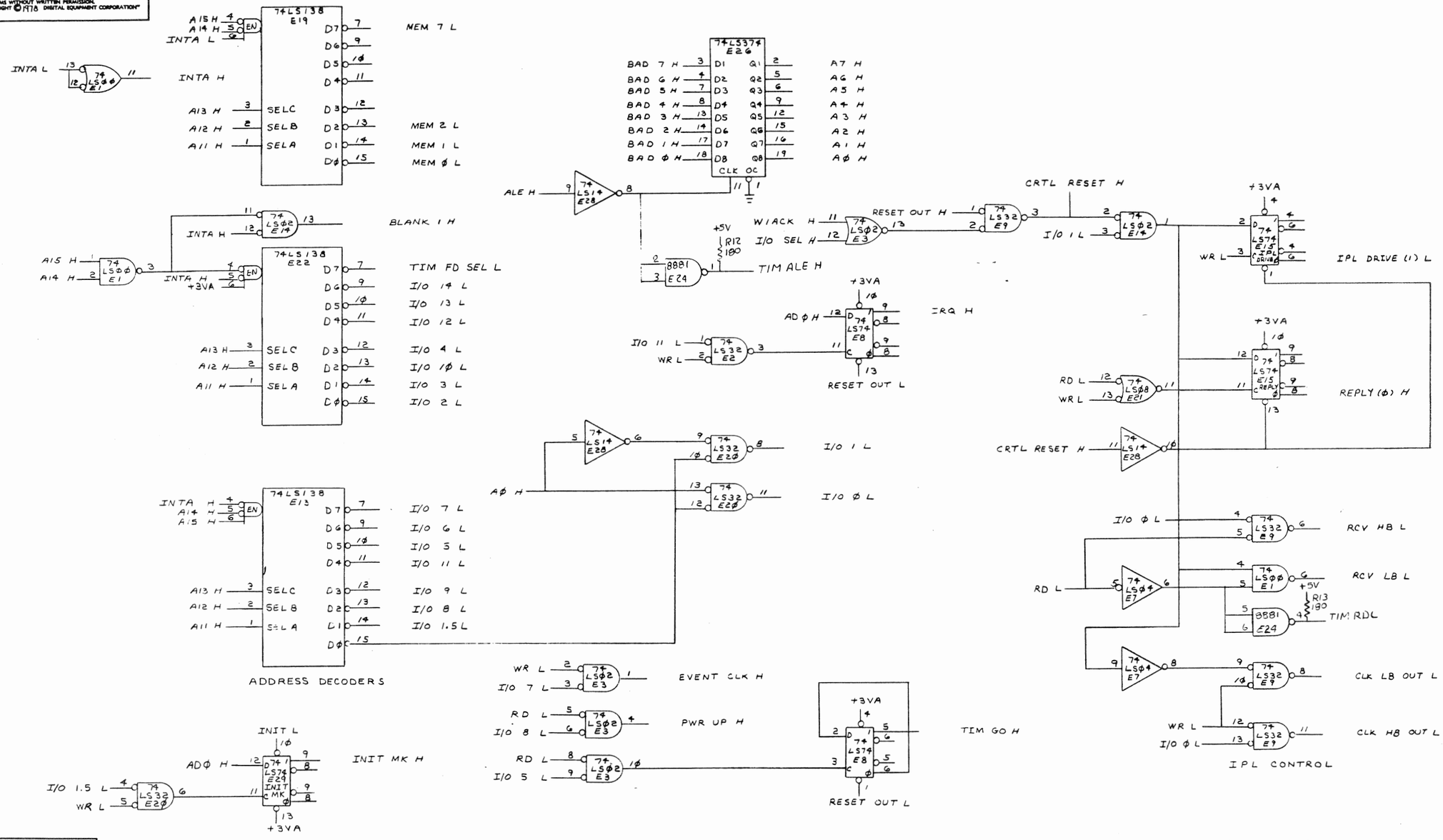
REVISIONS		
CHK	CHANGE NO.	REV.

TIMER, RAM, ADDRESS ID AND OPTION SELECT CONTROL ROM

TITLE	SIZE	CODE	NUMBER	REV.
T.I.M INTELLIGENCE MODULE	D	CS	5413271-0-1	H
SCALE	SHEET 2 OF 6		DIST.	

5413271-0-1 H

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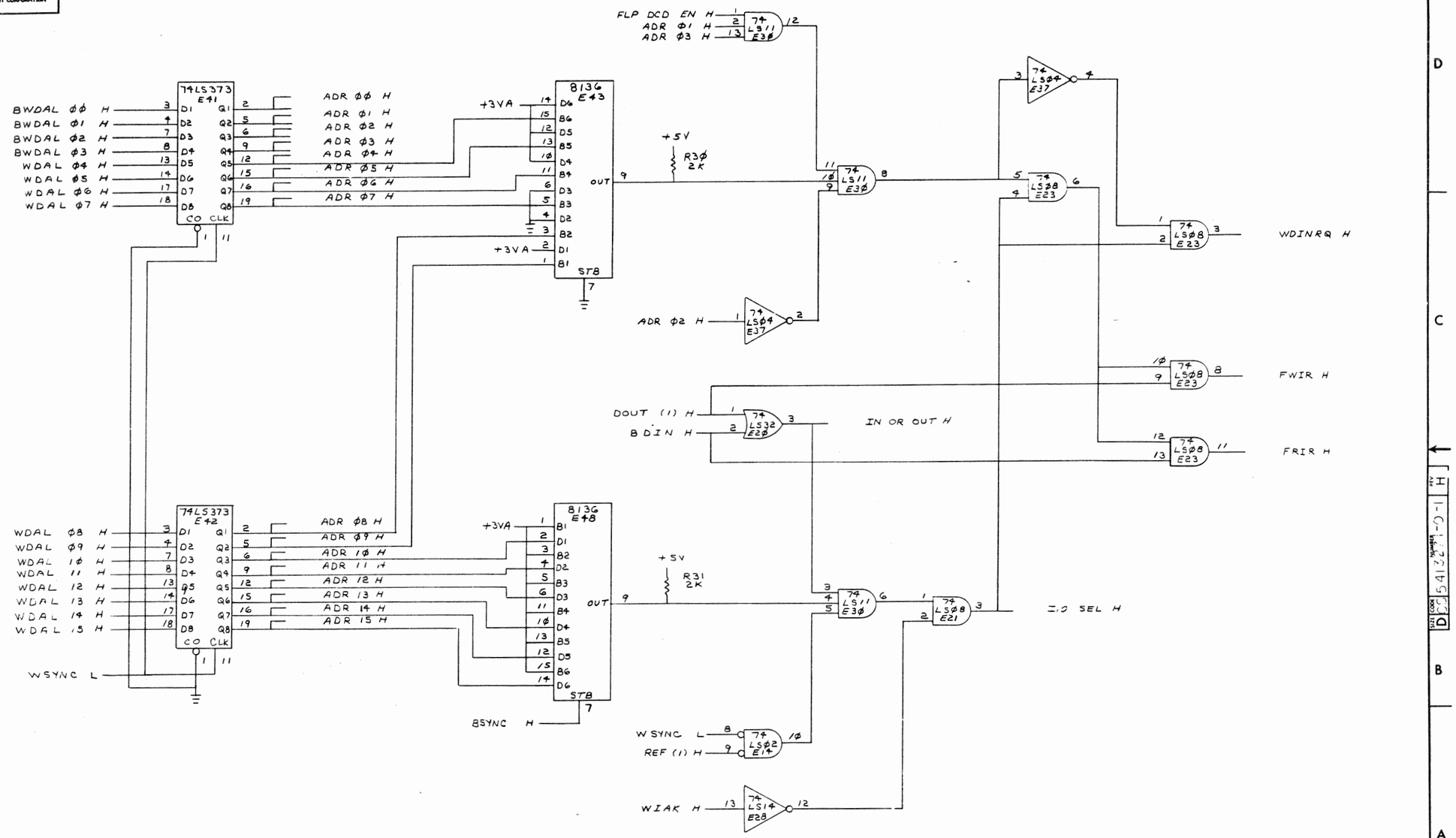


REVISIONS		
CHK	CHANGE NO.	REV.

ADDRESS DECODER, LOW BYTE ADDRESS LATCH, IPL CONTROL

TITLE		SIZE	CODE	NUMBER	REV.
T.I.M INTELLIGENCE MODULE		D	CS	5413271-0-1	H
SCALE	SHEET 3 OF 9	DIST.			

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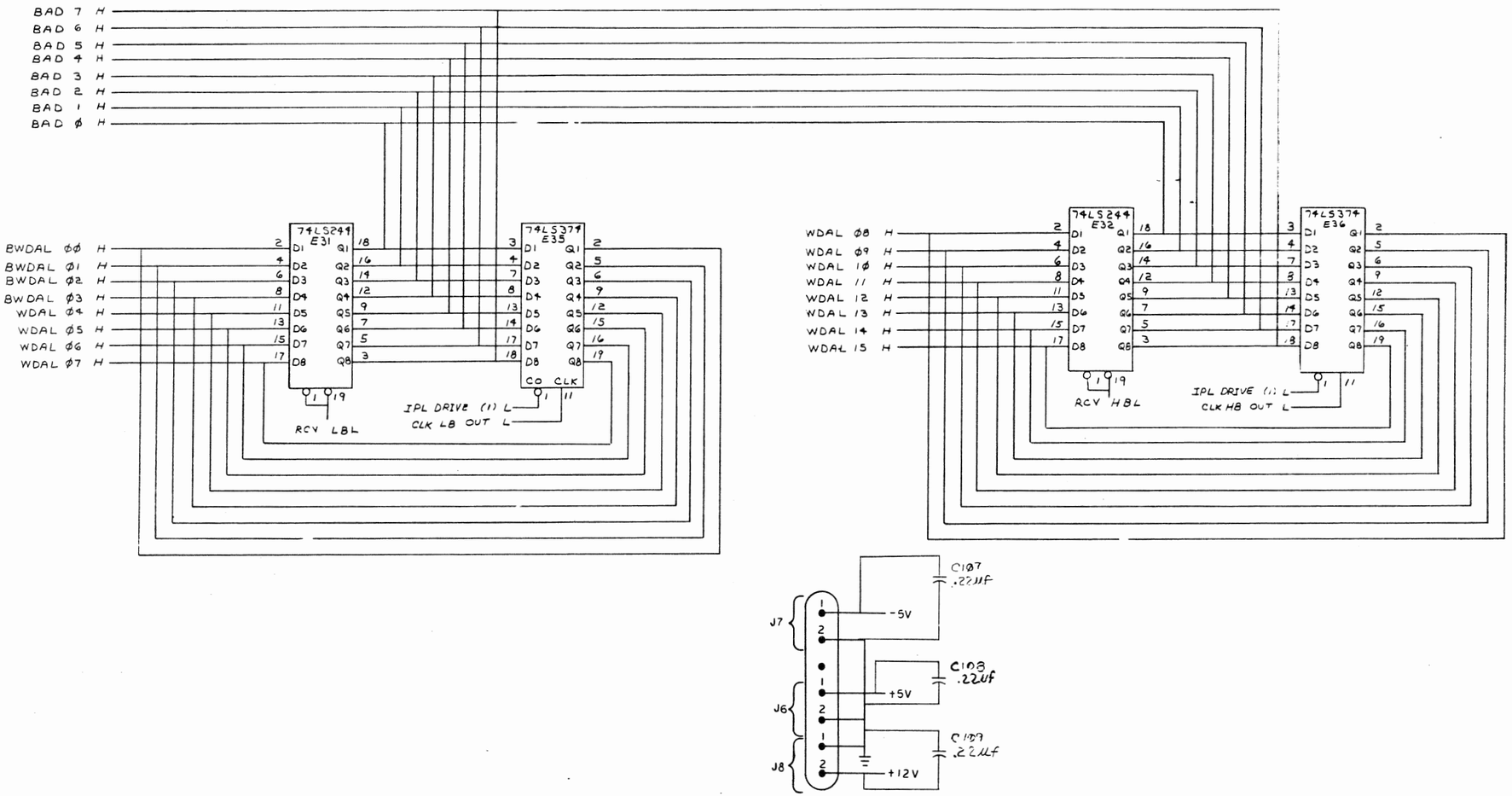


REVISIONS		
CHK	CHANGE NO.	REV.

DEVICE ADDRESS DECODERS

TITLE	SIZE	CODE	NUMBER	REV.
T.I.M. INTELLIGENCE MODULE	D	CS	5413271-0-1	H
SCALE —	SHEET 4 OF 9	DIST.		

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REVISIONS		
CHK	CHANGE NO.	REV.

I.P.L

TITLE	SIZE	CODE	NUMBER	REV.
TIM INTELLIGENCE MODULE	D	CS	5413271-0-1	H
SCALE	SHEET 3 OF 9	DIST.		

DCS5413271-0-1 H

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FDIN (1) H
BSYNC H
+5V +3VA
R11 2K
REFER EN L
+3VA
TIMER H
BDCLO L
C106 .047uF
INIT L
POWER UP H
DCLO H
DCLO L
+3VA
+3VA
WDOUT H
PH1 L
BSYNC H
DOUT (1) H
DOUT (Ø) H
PH 3 L
WM1B 21 L
+3VA
WM1B 18 L
WM1B 19 L
WM1B 2Ø L
74LS138 E49
SEL A
SEL B
SEL C
D7
D6
D5
D4
D3
D2
D1
DØ
IFCLR L
REF (1) H
REF (Ø) H
RESET OUT L
WD INIT L
BDCLO L
74LSØ8 E21
74SØ8 E53
+3VA
7497 E52 (16MHS)
C1 C2 C4 C8 C16 C32
Y Z U/C EN/OUT
CLK STB CLR EN
TIME OUT CLK H
IN OR OUT H
74LSØ4 E37
BRESET OUT L
MRPLY L
REPLY (Ø) H
74LSØ8 E21
PH2 L
74S74 E46
+3VA
WREPLY H
BTEST L
74LSØ9 E7
74367 E56 (1)
WDAL ØØ H
WDAL Ø1 H
DCLO L
BDCLO L
TERR (1) H
WDAL Ø2 H
RESET OUT L
BRESET OUT L
WDAL Ø3 H
WIAK H
74LSØØ E37
WSYNC H
74LSØØ E34
BRESET OUT L
PH 3 L
74S74 E50
+3VA
WSYNC L
BSYNC L
+3VA
WDIN H
74LSØØ E34
74LSØ4 E7
BDIN H
WDIN L
74LS245 E65
A1 A2 A3 A4 A5 A6 A7 A8 A9
B1 B2 B3 B4 B5 B6 B7 B8
DIR ENB
FDIN (1) H
BWDAL ØØ H
BWDAL Ø1 H
BWDAL Ø2 H
BWDAL Ø3 H
TERR (1) H
C105 .01uF
HALT H
IRQ H
BDCLO L
PH1 L
74LS174 E47
D1 D2 D3 D4 D5
CLR CLK
NRFIRQ (1) H
NRESET (1) L
NIPIRQ (1) H
NEVIRQ (1) H
NIOIRQ (1) H
+5V +3VA
R14 2K
LTC EN H
EVENT CLK H
74LS74 E33

REVISIONS		
CHK	CHANGE NO.	REV.

RXT-11 PROCESSOR BUS CONTROL

TITLE		SIZE	CODE	NUMBER	REV.
T.I.M INTELLIGENCE MODULE		D	CS	5413271-0-1	H
SCALE	SHEET 6 OF 9	DIST.			

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+5V
R15 2K
MCKD L
E57 30.913 M
74S00 E53
R16 2K
MCK L
+3VB
74S112 E45
+3VA
74S112 E45
74S112 E44
PCLK
PCLK (6.0825 MHZ)
74S02 E54
74197 E55
D3 D2 D1 D0 R3(1) R2(1) R1(1) R0(1) CLR LD CLK1 CLK0
74S74 E51
R37 1K
MSTB L
74S02 E54
74S175 E59
PH1 L
PH2 L
PH3 L
3245 E60
S0 S1 S2 S3 EN1 EN2 R C
D0 D1 D2 D3
R26 1Ø RPH 1 H
R27 1Ø RPH 4 H
R28 1Ø RPH 2 H
R29 1Ø RPH 3 H
R25 2K +5V
+12V
R35 464
R36 383
Q1 805
C4Ø .Ø1MF
VDVR
C11 .47
10.1376 MHZ
98 NS
74LS393 E38
BRCLK (5.0688 MHZ)
QA1 QB1 QC1 QD1 QA2 QB2 QC2 QD2 A1 A2 CLR1 CLR2
INIT H
74LS74 E58
TIMER CLK H (316.8 KHZ)
TIME OUT CLK H (19.8 KHZ)
UART CLK (158.4 KHZ)
R18 33
R19 33
C2 .47 MF
C3 22Ø PF
R2Ø 47Ø
C4 22Ø PF
R21 47Ø
74S02 E54
MH ØØ26 E58
C5 .47 MF
C6 .47 MF
C7 .47 MF
C8 .47 MF
C9 .47 MF
C1Ø .47 MF
D2 DG64
D3 DG64
D4 DG64
D5 DG64
D6 DG64
D7 DG64
D8 DG64
D9 DG64
D1Ø DGG2
D11 DGG2
D12 3.9 V
R22 12Ø
R23 12Ø
R24 12Ø
VDVR
VROM

REVISIONS		
CHK	CHANGE NO.	REV.

CLOCK GENERATORS, CHARGE PUMP

TITLE	SIZE	CODE	NUMBER	REV.
T.I.M INTELLIGENCE MODULE	D	CS	5413271-0-1	H
SCALE	SHEET 7 OF 9	DIST.		

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+12V
D13 DG64
D14 DG64
C12 .47μf
C15 .47μf
-VROM
RPH 3 H
RPH 1 H
+12V

DATA EG1
VBB Φ3 Φ1 VDD
VSS Φ4 Φ2 WAIT

WDAL ΦΦ H	3	38	WMIB ΦΦ L
WDAL Φ1 H	4	37	WMIB Φ1 L
WDAL Φ2 H	5	36	WMIB Φ2 L
WDAL Φ3 H	6	35	WMIB Φ3 L
WDAL Φ4 H	7	34	WMIB Φ4 L
WDAL Φ5 H	8	33	WMIB Φ5 L
WDAL Φ6 H	9	32	WMIB Φ6 L
WDAL Φ7 H	10	31	WMIB Φ7 L
WDAL Φ8 H	11	30	WMIB Φ8 L
WDAL Φ9 H	12	29	WMIB Φ9 L
WDAL 10 H	13	28	WMIB 10 L
WDAL 11 H	14	27	WMIB 11 L
WDAL 12 H	15	26	WMIB 12 L
WDAL 13 H	16	25	WMIB 13 L
WDAL 14 H	17	24	WMIB 14 L
WDAL 15 H	18	23	WMIB 15 L

C22 33 pf	WMIB ΦΦ L	
C23 33pf	WMIB Φ1 L	
C24 33 pf	WMIB Φ2 L	
C25 33 pf	WMIB Φ3 L	
C26 33 pf	WMIB Φ4 L	
C27 33 pf	WMIB Φ5 L	
C28 33 pf	WMIB Φ6 L	
C29 33 pf	WMIB Φ7 L	
C30 33 pf	WMIB Φ8 L	
C31 33 pf	WMIB Φ9 L	
C32 33 pf	WMIB 10 L	
C33 33pf	WMIB 11 L	
C34 33 pf	WMIB 12 L	
C35 33 pf	WMIB 13 L	
C36 33 pf	WMIB 14 L	
C37 33 pf	WMIB 15 L	
C38 33pF	WMIB 16 L	
C39 33 pf	WMIB 17 L	

D15 DG64
D16 DG64
+12V
RPH 2 H
RPH 4 H

C13 .47μf
C17 .47μf
C18 .47μf
C19 .47μf
C20 .47μf
C21 .47μf

CONTROL EG2
VBB Φ3 Φ1 VDD
VSS Φ4 Φ2 VCC

WIOIRQ (1) H	3	38	WMIB ΦΦ L
WEVIRQ (1) H	4	37	WMIB Φ1 L
WIPIRQ (1) H	5	36	WMIB Φ2 L
WREIRQ (1) H	6	35	WMIB Φ3 L
WMIB 17 L	7	34	WMIB Φ4 L
BUSY H	8	33	WMIB Φ5 L
MCOMP H	9	32	WMIB Φ6 L
WRESET (1) L	10	31	WMIB Φ7 L
WMIB 16 L	11	30	WMIB Φ8 L
WREPLY H	12	29	WMIB Φ9 L
	13	28	WMIB 10 L
WDOUT H	14	27	WMIB 11 L
WWB H	15	26	WMIB 12 L
WIAK H	16	25	WMIB 13 L
WSYNC H	17	24	WMIB 14 L
WDIN H	18	23	WMIB 15 L

R32 68Φ
R33 2K
+5V

CROM EG4
VBB Φ3 Φ1 VDD
VSS Φ4 Φ2 VCC

	3	38	WMIB ΦΦ L
	4	37	WMIB Φ1 L
	5	36	WMIB Φ2 L
	6	35	WMIB Φ3 L
WMIB 15 L	7	34	WMIB Φ4 L
WMIB 14 L	8	33	WMIB Φ5 L
WMIB 13 L	9	32	WMIB Φ6 L
WMIB 12 L	10	31	WMIB Φ7 L
WMIB 16 L	11	30	WMIB Φ8 L
WMIB 17 L	12	29	WMIB Φ9 L
WMIB 18 L	13	28	WMIB 10 L
WMIB 19 L	14	27	WMIB 11 L
WMIB 20 L	15	26	MROM DISABLE L
WMIB 21 L	16	25	
	17	24	
	18	23	

R34 2K
+5V

CROM EG3
VBB Φ3 Φ1 VDD
VSS Φ4 Φ2 VCC

	3	38	WMIB ΦΦ L
	4	37	WMIB Φ1 L
	5	36	WMIB Φ2 L
WMIB 15 L	7	35	WMIB Φ3 L
WMIB 14 L	8	34	WMIB Φ4 L
WMIB 13 L	9	33	WMIB Φ5 L
WMIB 12 L	10	32	WMIB Φ6 L
WMIB 16 L	11	31	WMIB Φ7 L
WMIB 17 L	12	30	WMIB Φ8 L
WMIB 18 L	13	29	WMIB Φ9 L
WMIB 19 L	14	28	WMIB 10 L
WMIB 20 L	15	27	WMIB 11 L
WMIB 21 L	16	26	MROM DISABLE L
	17	25	
	18	24	
		23	

-VROM
RPH 3 H
RPH 1 H
+12V

+5V
RPH 2 H
RPH 4 H

REVISIONS		
CHK	CHANGE NO.	REV.

LSI-11 CHIP SET

TITLE	SIZE	CODE	NUMBER	REV.
T.I.M INTELLIGENCE MODULE	D	CS	5413271-0-1	H
SCALE	SHEET 5 OF 9	DIST.		

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J11

- 2Ø: +12 V
- 19
- 18
- 17
- 16
- 15
- 14: ADR Ø7 H
- 13: ADR Ø8 H
- 12: ADR Ø6 H
- 11: ADR Ø5 H
- 1Ø: ADR Ø4 H
- 9: ADR Ø1 H
- 8: ADR Ø2 H
- 7: ADR Ø3 H
- 6
- 5
- 4
- 3: +5 V
- 2: REF (Ø) H
- 1

- 2Ø: DOUT (Ø) H
- 19
- 18
- 17: ADR ØØ H
- 16: ADR Ø9 H
- 15: ADR 1Ø H
- 14
- 13
- 12
- 11: ADR 11 H
- 1Ø
- 9
- 8
- 7
- 6: − 5V
- 5: MRPLY L
- 4: WWB H
- 3: FDIN (1) H
- 2
- 1

J1

J12

- 2Ø: WDAL 15 H
- 19: WDAL 14 H
- 18: WDAL 13 H
- 17: WDAL 12 H
- 16: WDAL 11 H
- 15: WDAL 1Ø H
- 14: WDAL Ø9 H
- 13: WDAL Ø8 H
- 12: WDAL Ø7 H
- 11: WDAL Ø6 H
- 1Ø: WDAL Ø5 H
- 9: WDAL Ø4 H
- 8: BWDAL Ø3 H
- 7: BWDAL Ø2 H
- 6: BWDAL Ø1 H
- 5: BWDAL ØØ H
- 4: BUSY H
- 3
- 2: ADR 12 H
- 1

- 2Ø: WDIN L
- 19
- 18: MSTB L
- 17
- 16
- 15
- 14
- 13
- 12
- 11
- 1Ø
- 9
- 8
- 7
- 6
- 5: ADR 13 H
- 4: ADR 14 H
- 3: ADR 15 H
- 2
- 1: WSYNC L

J2

J9

- 2Ø: IFCLR L
- 19: TDA H
- 18: HALT H
- 17: CDA H
- 16: PTBMT H
- 15: PDA H
- 14: I/O 1.5 L
- 13
- 12
- 11: HDBAD 2 H
- 1Ø: HDBAD 3 H
- 9: HDBAD 4 H
- 8: HDBAD 5 H
- 7: HDBAD 6 H
- 6: HDBAD 7 H
- 5: A9 H
- 4: A8 H
- 3: A1Ø H
- 2: TIM FD SEL L
- 1: HDBAD 1 H

- 2Ø: HDBAD Ø H
- 19
- 18
- 17
- 16: +5V
- 15
- 14
- 13
- 12
- 11
- 1Ø
- 9
- 8
- 7: BLANK 1 H
- 6
- 5
- 4: PB5
- 3: PB4
- 2: PB3
- 1: PB2

J3: PB6

J10

- 2Ø: TTBMT H
- 19: CTBMT H
- 18: PC5 H
- 17: I/O 12 L
- 16: I/O 14 L
- 15: I/O 13 L
- 14: RDL
- 13: WRL
- 12: I/O 2 L
- 11: I/O 4 L
- 1Ø: I/O 3 L
- 9
- 8
- 7
- 6
- 5
- 4: INIT H
- 3: BRCLK (5.068 MHz)
- 2
- 1

- 2Ø
- 19
- 18: UART CLK (158.4 KHz)
- 17
- 16: TSDAT 1 H
- 15
- 14
- 13
- 12
- 11: BTEST L
- 1Ø
- 9
- 8: +12
- 7: I/O 1Ø L
- 6: LTC EN L
- 5
- 4
- 3: -5V
- 2: REF EN L
- 1: FPRESET L

J9

REVISIONS

CHK	CHANGE NO.	REV.

MEMORY, PERIPHERAL MODULES INTER-CONNECTION

TITLE	SIZE	CODE	NUMBER	REV.
T.I.M INTELLIGENCE MODULE	D	CS	5413271-0-1	H

SCALE — SHEET 9 OF 9 — DIST.

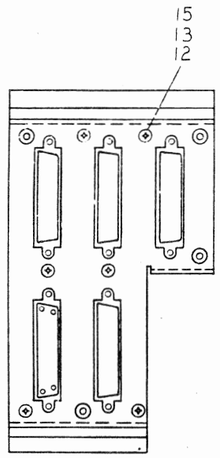
SIZE D CODE CS NUMBER 5413271-0-1 REV H

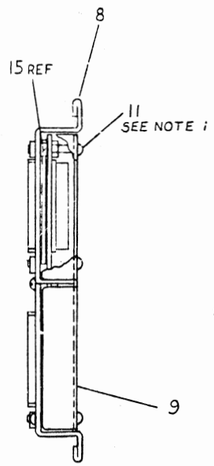
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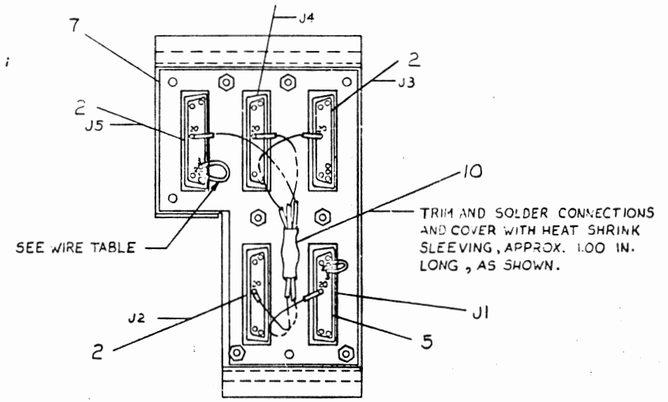
WIRE TABLE

ITEM NO.	DESCRIPTION AWG	COLOR	FROM CONNECTION	WITH	TO CONNECTION	WITH	REMARKS
3	24	RED	J1-4	4	J1-5	4	
3	24	RED	J1-12	4			
3	24	RED	J1-2	4	J1-3	4	
3	24	RED	J1-6	4	J1-8	4	
3	24	RED	J1-11	4			
					J1-22	4	
6	24	WHT	J1-20	4	LEAVE APPROX 2.5 IN. SEE DRAWING FOR TERMINATION		
6	24	WHT	J2-2	1	J2-3	1	
6	24	WHT	J2-20	1	LEAVE APPROX 2.5 IN. SEE DRAWING FOR TERMINATION		
6	24	WHT	J3-2	1	J3-3	1	
6	24	WHT	J3-20	1	LEAVE APPROX. 2.5 IN. SEE DRAWING FOR TERMINATION		
6	24	WHT	J4-2	1	J4-3	1	
6	24	WHT	J4-20	1	LEAVE APPROX 2.5 IN. SEE DRAWING FOR TERMINATION		
6	24	WHT	J5-2	1	J5-3	1	
6	24	WHT	J5-20	1	LEAVE APPROX 2.5 IN. SEE DRAWING FOR TERMINATION		

NOTES:
1. USE ADHESIVE ITEM 14 ON 4 RETAINING SCREWS (ITEM 11).







PLATE, BOTTOM (ITEM 9) REMOVED FOR CLARITY

6	SPACER .125 ID x .07L	9008435	15
AR	ADHESIVE/SEALANT THRD LOCK	9009321	14
6	NUT, KEPS #4-40	9006557-00	13
2	SCREW, PHL PAN HD #4-40 x .38LG	9006011-01	12
4	SCREW, PHL PAN HD #4-40 x .75LG	9006015-01	11
AR	SLEEVING, HEAT SHRINK	9107255-02	10
1	PLATE, BOTTOM (LOOPBACK CONN)	C-MD-7421961-0-0	9
1	COVER, TOP (LOOP BACK CONN)	C-IA-7421963-0-0	8
1	PLATE, CONN. HOLD DOWN	C-MD-7421962-0-0	7
AR	WIRE #24 AWG WHT	9107450-99	6
1	SHELL AND INSERT-FEMALE	1210493-32	5
10	SOCKET 20-24 AWG	1210493-41	4
AR	WIRE #24 AWG RED	9107450-22	3
4	SHELL AND INSERT-MALE	1210493-31	2
12	PIN 20-24 AWG	1210493-39	1
	DESCRIPTION	UNIQUART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES: OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.08
✓	PREFERRED ☐	±.012	±.016	±.020	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL

FINISH

DRN J. Clark 16 OCT 78
CHK'D [illegible] 16 OCT 78
ENG. [illegible] 16 OCT 78
PROJ. ENG [illegible] 16 OCT 78
PROD. [illegible] 16 OCT 78
NEXT HIGHER ASSY.
E-UA-PDT11-0-0
SCALE 1/1
SHEET 1 OF 1

FIRST USED ON PDT11/153

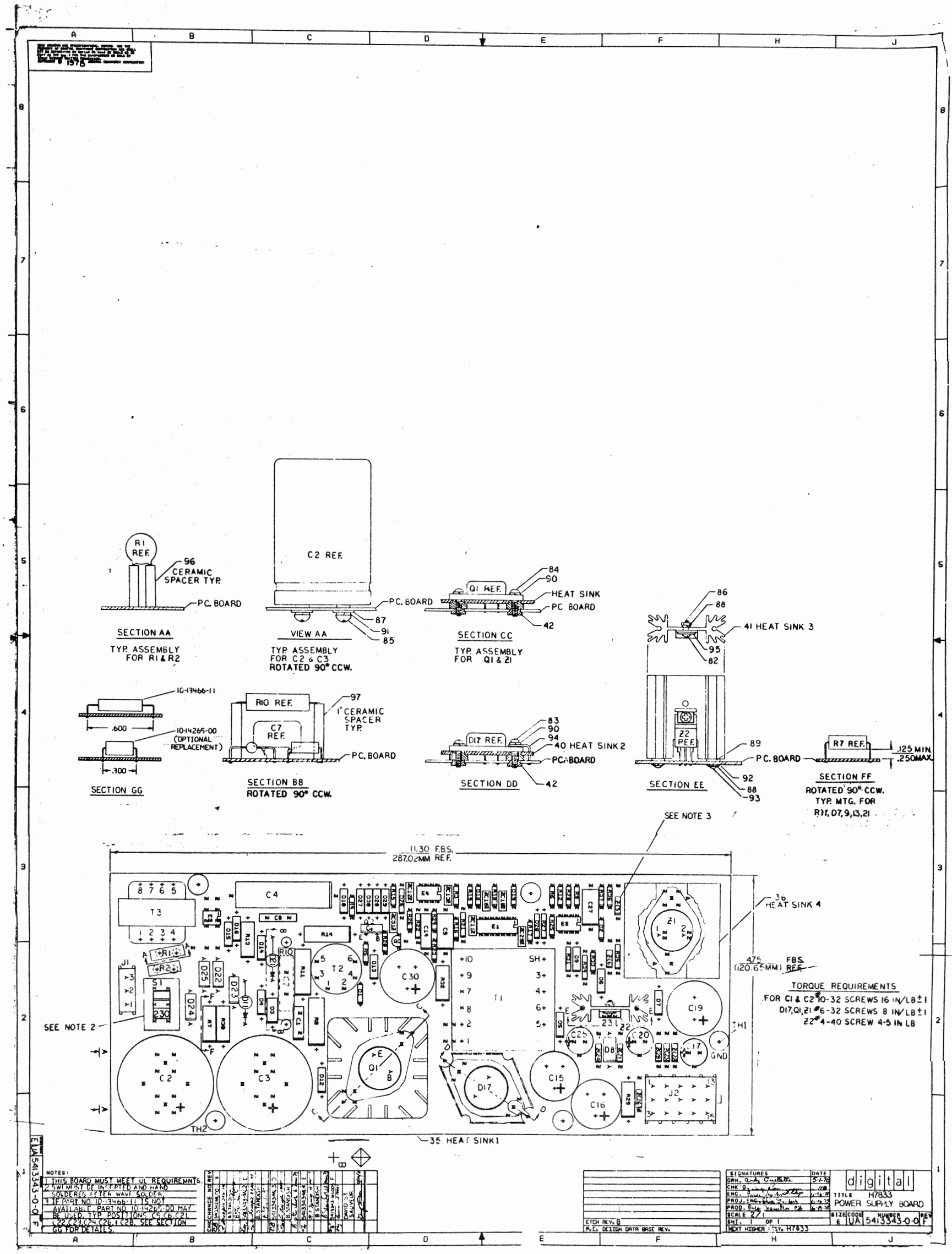
TITLE LOOPBACK CONNECTOR

SIZE D | CODE AD | NUMBER 7016464-0-0 | REV.

DIST

REVISIONS: REV. | CHANGE NO. | CHK.

DEC Form No. BM-1004



NOTES:
1. THIS BOARD MUST MEET UL REQUIREMNTS.
2. SW1 MUST BE INSERTED AND HAND SOLDERED AFTER WAVE SOLDER.
3. IF PART NO. 10-13466-11 IS NOT AVAILABLE, PART NO. 10-14265-00 MAY BE USED. TYP. POSITIONS: C5, C6, C21, C22, C23, C24, C26, & C28. SEE SECTION GG FOR DETAILS.

CHG	CHANGE NO	REV
		B
		C
		D
		E
		F

ETCH REV. B
P.C. DESIGN DATA BASE REV.

SIGNATURES	DATE
DRN.	5-1-76
CHK'D	
ENG.	5-14-76
PROJ. ENG.	6-14-76
PROD.	6-17-76
SCALE 2/1	
SHT. 1 OF 1	
NEXT HIGHER ASSY. H7833	

digital
TITLE H7833
POWER SUPPLY BOARD
SIZE E | CODE UA | NUMBER 5413343-0-0 | REV F

E UA 5413343-0-0 F

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-ND-5413342-0-0	5013342-00	RXT11 POWER SUPPLY	1	
2	2		1000209-00	33.0 MMF 100V 5%200PPM DM15S	1	C13
3	3		1000042-00	1000.0 MMF 100V 5%200PPM DM15S	3	C10,C11,C18
4	4		1000026-00	680.0 MMF 100V 5%200PPM DM15S	1	C31
5	5		1000061-00	8200.0 MMF 100V 10% 663UW MYLR	1	C14
6	6		1001610-01	.01 MFD 100V -20+80 Z5U DISC	2	C12,C29
7	7		1005507-00	1 MFD 100V E% 30D AL EL	1	C9
8	8		1005784-00	.01 MFD 100V 10% 663VW MYLR	1	C27
9	9		1011847-01	.01 MFD 400V 10% POLYPROP	1	C8
10	10		1011847-02	.01 MFD 600V 10% POLYPROP	1	C7
11	11		1011849-01	6800. MFD 25V G%500D AL EL	1	C4
12	12		1012607-00	560 MFD 20V H% 672D AL EL	2	C17,C25
13	13		1012744-00	590 MFD 200V E% 36D AL EL	2	C2,C3
14	14		1013280-00	680.0 MMF1000V 5%200PPM	1	C1
15	15		1013466-11	.22 MFD 50V +80/-20% CER.	8	C5,C6,C21-C24,C26,C28
16	16		1013485-00	680 MFD 12V H% 672D AL EL	1	C20
17	17		1014070-00	680 MFD 40V H% 673D AL EL	1	C19
18	18		1015255-00	1600 MFD 40V +75-10% AL EL	1	C30
19	19		1015466-00	8000 MFD 6.3V +75-10% AL EL	2	C15,C16
20	20		1100114-00	D 664 QS\75PCB PIV= 25V SP	2	D18,D19
21	21		1100125-00	1N 758A VZ= 10.0 5% .40W PPE	1	D26
22	22		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	2	D1,D2
23	23		1105873-00	4705-1AZ1 VZ= 5.1 1% .400W	1	D20
24	24		1110420-00	1N 5624 PIV=200 I= 5A	1	D8
25	25		1112594-02	A115M PIV=600 I= 3A	2	D11,D21
26	26		1112595-01	A114B PIV=200 I= 1A	10	D5,D6,D10,D14-D16,D27-D30
27	27		1112595-02	A114M PIV=600 I= 1A	2	D4,D12
28	28		1113123-00	1.5K3200 VOLT,TRANS,SUPRESS, 220	1	D3
29	29		1114781-00	UES601 PIV=50 I=30A	1	D17
30	30		1114893-00	UES1301 PIV= 50 I= 6A	1	D7

REVISION HISTORY			BASIC PART NO: 5413343										
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: LISE GRAHM	DATE: 24-MAR-78		D	I	G	I	T	A	L
---	INIT	A	SECTION,VARIATION INDEX	CHK'D: T. SHETRAWSKI	DATE: 18-MAY-78	TITLE	PARTS LIST						
B,S	5413343-ML001	B	[A] 00			H7833 POWER SUPPLY BOARD							
B,S	5413343-ML002	C	[B]										
B,S	5413343-ML003	D	[C]	DES.ENG: BRUCE STANDISH	DATE: 7-JUN-78								
B,S	5413343-ML004	E	[D]										
			[E]			DOCUMENT NUMBER							
			[F]	RESP.ENG.: BRUCE STANDISH	DATE: 24-MAR-78								
			[H]			SIZE	CODE	NUMBER				REV	
			[J]										
			[K]	MFG.ENG.: RALPH HAMILTON	DATE: 7-JUN-78	K	PL	5413343-0-DBP				E	
			[L]										
			[M]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:						EDIT #	
			[N]	D-UA-5413343-0-0	H7833	Z0245E.PLS						17	

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1115182-00	1N 5626 PIV=600 I= 3A	4	D22-D25
32	32		1115272-00	UES1303 PIV=150 I=6A $	1	D9
33	33		1115273-00	UES 1304 RECTIFIER 200V 6A	1	D13
34	34		1115369-00	VM 18 PIV=100 I=1A	1	E3
35	35		1210012-04	HT SINK W/HOLES	1	HS1
36	36		1211987-03	HEAT SINK	1	HS4
37	37		1212297-03	MATE-N-LOK 3PIN UNIV HEADER	1	J1
38	38		1212297-04	MATE-N-LOK 15PIN UNIV HEADER	1	J2
39	39		1215340-00	SW,SLIDE 2P 3A DPDT,FLUSH AC	1	S1
40	40		1213426-03	HEAT SINK TO-3 1"HIGH	1	HS2
41	41		1213921-01	HEAT SINK,TAB MNT SEMI 1.5" HIGH	1	HS3
42	42		1214789-00	INSERT,THREADED 6-32 ,BRASS,ELEC	6	
43	43		1300219-00	68 1/4W 5% CC	1	R3
44	44		1300288-00	270 2W 10% CC	1	R14
45	45		1300295-00	330 1/4W 5% CC	2	R5,R15
46	46		1300298-00	330 1W 10% CC	1	R13
47	47		1300365-00	1 K 1/4W 5% CC	5	R23,R25,R26,R36,R4
48	48		1300447-00	4.7 K 1/4W 5% CC	1	R17
49	49		1300479-00	10 K 1/4W 5% CC	1	R20
50	50		1301392-00	1 K 2W 10% CC	1	R8
51	51		1302395-00	56 K 1/4W 5% CC	1	R24
52	52		1302514-00	39 K 1/4W 5% CC	1	R16
53	53		1303114-00	1.0 K 1/4W 1% RN55D-F 100PPM	2	R31,R34
54	54		1304856-00	4.64 K 1/4W 1% RN55D-F 100PPM	1	R22
55	55		1305123-00	215 1/4W 1% RN55D-F 100PPM	1	R21
56	56		1305125-00	383 1/4W 1% RN55D-F 100PPM	1	R28
57	57		1305265-00	39.2 K 1/4W 1% RN55D-F 100PPM	1	R19
58	58		1305428-00	*** THIS ITEM IS NOT USED ***	-	
59	59		1309418-00	24.3 K 1/4W 1% RN55D-F 100PPM	1	R18
60	60		1309422-00	5.1 1/4W 5% CC	1	R6
61	61		1309595-00	1 M 1/4W 5% CC	2	R9,R37
62	62		1309680-00	2.7 M 1/4W 5% CC	2	R12,R33
63	63		1313008-00	5.11 1/4W 1% RN55D-F 100PPM	1	R27
64	64		1313014-00	.01 3-3/4W 3% WW	1	R29
65	65		1313191-00	1 K 9W 5% WW	1	R10
66	66		1314270-00	5 15% THERMISTOR	2	R1,R2
67	67		1314350-00	1 2W 10% WW	1	R11
68	68		1314492-00	40.2 K 1/4W 1% RN55D-F 100PPM	1	R35
69	69		1315225-00	82 K 1W 5% CC	2	R7,R30
70	70		1315240-00	.1 3W 1% WW	1	R32
71	71		1510706-00	XA 55 PNP 500MW SI 60 50 P	1	Q3
72	72		1512782-00	NPN 100W S1325 15	1	Q1
73	73		1512790-00	D 44C11 NPN 30W SI 80 40	1	Q2
74	74		1612920-02	PULSE XFMR 30KHZ VT61	1	T2
75	75		1614778-00	XFMR P-AB S=6.0@ 100MA	1	T3
76	76		1615464-00	XFMR P=240-360V S=VARIABLE	1	T1
77	77		1910282-00	301AN OP AMP	1	E4
78	78		1912048-04	DEC 7812-04 VOLT,REG,FIX +1	1	Z1

D	I	G	I	T	A	L	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
							H7833 POWER SUPPLY BOARD	A OF A	K	PL	5413343-0-DBP	E

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
79	79		1912536-01	7805 VOLT.REG.FIX +	1	Z2
80	80		1914156-00	LM 393 VOLT.COMPARATOR DUAL	1	E2
81	81		1914392-00	556 TIMER-DUAL	1	E1
82	82		9006010-01	SCREW,PAN ,PHIL, 4-40X 5/16	1	
83	83		9006024-01	SCREW,PAN ,PHIL, 6-32X 1/2	2	
84	84		9006025-01	SCREW,PAN ,PHIL, 6-32X 5/8	4	
85	85		9000038-13	SCREW,PAN,PHIL, 10-32X 5/16 B	4	
86	86		9006556-00	NUT,HEX , 4-40X1/4 AF X 3/	1	
87	87		9009950-01	WASHER, FLAT, .438 O.D. X .203 I	4	
88	88		9006688-00	WASHER, LOCK, S.S. #4	3	
89	89		9006707-00	WASHER, NYLON, FLAT #6 .312 OD	2	
90	90		9007801-00	WASHER, LOCK, S.S. #6	6	
91	91		9007906-00	WASHER, LOCK S.S. #10	4	
92	92		9008172-00	WASHER, FLAT,SS .250 OD X .125 I	2	
93	93		9010089-00	SCREW,TAPPING,TYPE TT,PAN ,PHIL,	2	
94	94		9009676-00	TERM LUG 1POS SOLDER	1	
95	95		9009769-00	WASHER, RECTANGULAR .405X.225X.0	1	
96	96		9009798-00	SPACER, CERAMIC, .186 ODX.078 ID	4	
97	97		9009798-02	SPACER, CERAMIC, .186 ODX.078 ID	2	

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TO FAN AND SPINDLE MOTORS 115V, 60HZ VERSION

REF. FILTER MOUNTED ON BACK PANEL

EMI FILTER

F1. 3A

T1 HIGH FREQ. POWER XFMR

SHIELD

S1 230V 115V

S2

J1

R2 5 15%

R1 5 15%

D13 UES1304

D7 UES1301

D9 UES1303

D5 A114B

D6 A114B

D17 UES601

Z1 7812-04

Z2 7805

C30 1600UF 40V

C19 680UF 40V

C25 560UF 20V

C15 8000UF 6.3V

C16 8000UF 6.3V

C17 560UF 20V

C23 .22UF 50V

C24 .22UF 50V

C22 .22UF 50V

C21 .22UF 50V

C20 680UF 12V

C28 .22UF 50V

R32 0.1 3W 1%

D8 IN5624

R29 .01 3.75W 3%

C26 .22UF 50V

C6 .22UF 50V

R34 1K 1%

R33 2.7M

R12 2.7M

R35 40.2K 1/4W 1%

J2

+24V

GND

+12V

GND

GND

-5V

+5V

GND

GND

C2 590 200V

C3 590 200V

R7 82K 1W

R30 82K 1W

IN5626 D23

IN5626 D24

IN5626 D22

IN5626 D25

D11 A115M

D4 A114M

D3 1.5K 3,200 VOLT. SURPRESS.

C7 .01UF 600V

D21 A115M

D12 A114M

R8 1K 2W 10%

C1 680PF 1000V

R10 1K 9W

Q1 BUY69B

D1 IN4004

R11 1.0 2W

T2

R5 330

D2 IN4004

R14 270 2W 10%

D10 A114B

D30 A114B

D27 A114B

D28 A114B

Q2 D44C11

D29 A114B

R15 330

R4 1K

R16 39K

R18 29.3K 1%

D18 D664

R19 39.2K 1%

556 E1

DIS.C1

THR 1

TRIG 1

CONT V1

DIS C2

THR 2

TRIG 2

CONT V2

RESET

GND

Y1

Y2

VCC

D19 D664

R17 4.7K

R27 5.11 1%

R31 1K 1%

R28 383 1%

C27 .01UF 100V

R9 1M

R37 1M

C5 .22UF 50V

R36 1K

LM393 E2

LM393 E2

START-UP XFMR T3

E3

C4 600UF 25V

D14 A114B

D15 A114B

D16 A114B

C8 .01UF 400V

R13 330 1W 10%

R3 68

R23 1K

R24 56K

C14 8200PF 100V

R25 1K

R26 1K

DEC301 E4

NC

C13 33PF 100V

R22 4.64K 1%

Q3 A55

R20 10K

D20 5.1V .4W 1%

R6 5.1

R21 215 1%

D26 IN758A 10V 5%

C12 .01UF 100V

C11 1,000PF 100V

C18 1000PF 100V

C29 .01UF 100V

C10 1000PF 100V

C9 1.0UF 100V

NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 1/4 WATT, 5%.

2. CHASSIS (POWER) GROUND AND SENSE GROUNDS ARE CONNECTED TOGETHER AT THE SUPPLIES OUTPUT (INTERFACE) CONNECTIONS.

REVISIONS			
DWN	CHANGE NO.	REV	
[illegible]	5413343-ML001	B	14 NOV 78
B. STANDISH			
B. Standish	5413343-ML002	C	8-DEC-78
B. STANDISH			
B. Standish	5413343-ML003	D	13 JAN 79
B. STANDISH			
B. Standish	5413343-ML004	E	16 March 79
B. STANDISH			

DRN		FIRST USED ON H7833
CHK'D		digital
ENG. B. Standish	6 16 78	TITLE H7833 POWER SUPPLY BOARD
PROJ. ENGR. B. Standish	6 16 78	
PROD. [illegible]	6 21 78	
NEXT HIGHER ASSY.		
D-UA-5413343-0-0		SIZE D CODE CS NUMBER 5413343-0-1 REV. E
SCALE		
SHEET 1 OF 1		DIST.

5413343-0-1 E

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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

B-TC-RXT11-0-1	FIELD MAINT. PRINT SET
TABLE OF CONTENTS	
B-DD-RXT11-0	FLOPPY CONTROLLER
B-PL-RXT11-0-0	FLOPPY CONTROLLER (PL)
B-PL-RXT11-0-3	RXT11 SHIP LIST
E-UA-5413273-0-0	FLOPPY CONTROLLER MODULE
K-PL-5413273-0-DBP	PARTS LIST (5413273)
D-CS-5413273-0-1	FLOPPY CONTROLLER MODULE (CS)

UNIT VARIATIONS COVERED BY THIS PRINT SET
RXT11

RXT11

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00688

REV.

SIZE B | CODE TC | NUMBER RXT11-0-1

REVISIONS	REV	CHG. NO.	DATE
N/R			

USED ON OPTION/MODEL	
PDT11/150	

SHEET 1 OF 1

DRN. M Morrow	DATE 11 Aug 78	TITLE: FIELD MAINT. PRINT SET
CHK'D R W Counter	DATE 15 Aug 78	digital
PROJ. ENG. John Cyr	DATE 9-24-78	SIZE B | CODE TC | NUMBER RXT11-0-1 | REV.
FIELD SERV. D. Nadeau	DATE 9-25-78	DIST.

DRC 124

MR

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UNIT VARIATIONS

VAR	TITLE
RXT11	FLOPPY CONTROLLER

REVISIONS

REV.	CHANGE NO.	CHK

USED ON OPTION/MODEL

PDT11/150

SHEET 1 OF 2

DRN.	DATE	11 Aug 78
CHK'D.	DATE	16 Aug 78
PROJ. ENG.	DATE	8-24-78
PROD.	DATE	20 Oct 78

TITLE

digital

FLOPPY CONTROLLER

SIZE	CODE	NUMBER	REV
B	DD	RXT11-0	

DIST.

DRB 106A

MR

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP00688	FEILD MAINT. PRINT SET (MP)	-
	B-TC-RXT11-0-1	FEILD MAINT. PRINT SET (TC)	-
	B-PL-RXT11-0-0	FLOPPY CONTROLLER	E/M
	B-PL-RXT11-0-3	RXT11 SHIP LIST	E/M
	A-SP-RXT11-0-2	RXT11 ENGINEERING SPEC	
	A-SP-3700383-02	PACKAGING INSTRUCTIONS	E/M
	CVKDAA	PDT11/150 SYSTEM EXERCISER	E/M
2	B-DD-5413273-0	FLOPPY CONTROLLER MODULE	E

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE	SHEET	SIZE	CODE	NUMBER	REV
FLOPPY CONTROLLER	2 OF 2	B	DD	RXT11-0	

DRB 108A

MR

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY [illegible] DATE 1 Aug 78	CHECKED R W Cantoni DATE 15 Aug 78	SECTION 1
ENG [illegible] DATE 5-24-78	PROD J Wheeler DATE 20 Oct 78	ISSUED SECTION 1

NOTES:
1. * EARLY MODULES MAY HAVE PROM IN LIEU OF MASKED ROM.

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION	REF DESIGNATION
1		5413273	FLOPPY CONTROLLER MODULE	1	
2		23041E2	PROM (E30)	*	
3		23040E2	ROM (E3Φ)	1	
4		9009515-01	SCREW,SLOTTED PAN HD#4-40X.250	2	
5		9009306	SPACER,HEX #4-40X.250X.437LG.	2	

E.C.O. NO.

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
FLOPPY CONTROLLER	B-DD-RXT11-0	B	PL	RXT11-0-0	
	SHEET 1 OF 1	INSERTION PARTS LIST DATA BASE REV			

DRB 125

MR

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY [illegible] DATE [illegible] 78	CHECKED RW Carnter DATE 15 Aug 78	SECTION
ENG [illegible] DATE [illegible] 78	PROD JW Mullen DATE 20 Oct 78	ISSUED SECTION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION	NOTES: / REF DESIGNATION
1		RXT11	FLOPPY CONTROLLER	1	
2		MP00688	RXT11 PRINT SET	1	

E.C.O. NO.

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TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
RXT11 SHIP LIST	B-DD-RXT11-0	B	PL	RXT11-0-3	
	SHEET 1 OF 1	INSERTION PARTS LIST DATA BASE REV			

DRB 126

NMR

REWORK INSTRUCTIONS

ECO #7

COMPONENT ADDS SIDE 1, AS SHOWN:

7-1 R111 (180)
7-2 R150 (150)
7-3 R148(180, 5W)
7-4 R149 (1K)

WIRE ADDS SIDE 1, AS SHOWN:

7-5 FROM PC3 TO PC4 WITH ITEM #117
7-6 FROM E37-6 TO PTH LEFT OF C16
7-7 FROM R139 TO E8-5
7-8 FROM E8-6 TO E31-2
7-9 FROM E31-2 TO E45-7
7-10 FROM PTH ABOVE E45 TO PTH ABOVE & RIGHT OF E28-14
7-11 FROM E23-7 TO PTH LEFT OF E20-8
7-12 FROM E24-7 TO PTH ABOVE E34-14

SEE E-EC-5013272-0-0 FOR ETCH CUTS

ECO #10

COMPONENT DELETIONS

10-11 PC1
10-12 PC2
10-13 PC3
10-14 PC4
10-15 1.21K RES FROM R38
10-16 1.21K RES FROM R44

COMPONENT ADDS

10-17 NEW CONNECTOR PC1 (SEE NOTE 1)
10-18 NEW CONNECTOR PC2
10-19 NEW CONNECTOR PC3
10-20 NEW CONNECTOR PC4

REWORK INSTRUCTIONS

ECO #10 CONT.

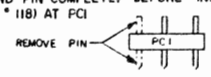
COMPONENT ADDS(CONT)

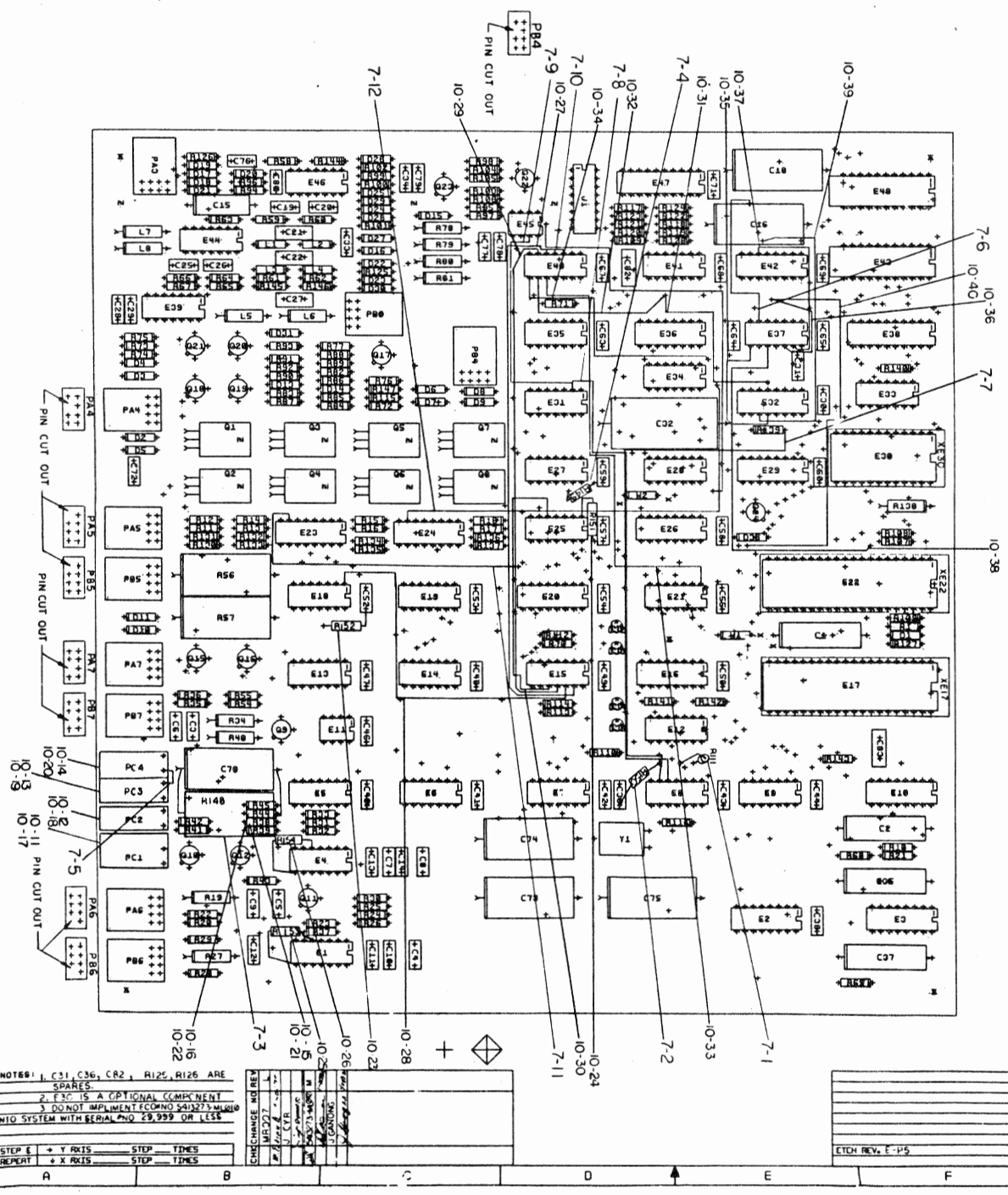
10-21 5.6K RES TO R38
10-22 5.6K RES TO R44
10-23 R152 FROM RIGHT END OF C52 TO PTH NEAR E18-11
10-24 R151 FROM E25-1 TO PTH ABOVE E25-14
10-25 R153 FROM E1-5 TO E1-8
10-26 R154 FROM E4-5 TO E4-8

WIRE ADDS AS SHOWN

10-27 FROM E40-3 TO E15-3
10-28 FROM E15-12 TO E18-1
10-29 FROM E40-6 TO E15-11
10-30 FROM E15-10 TO E25-5
10-31 FROM PTH AT E41-10 TO E17 SIDE OF ETCH CUT NEAR E37-11
10-32 FROM PTH AT E41-10 TO E40-9
10-33 FROM E40-10 TO E21-1
10-34 FROM PTH ABOVE E34-1 TO E40-8
10-35 FROM E32-12 TO E37-8
10-36 FROM PTH NEAR E37-4 TO E37-12
10-37 FROM E37-13 TO E42-6
10-38 FROM PTH BESIDE E22-8 TO E37-10
10-39 FROM PTH BESIDE E42-6 TO E32-11
10-40 FROM PTH BESIDE D36 TO PTH NEAR E37-4

NOTE: 1 REMOVE LEFT HAND PIN COMPLETLY BEFORE INSERTING CONNECTOR (ITEM # 118) AT PC1





NOTES: 1. C31, C36, CR2, R125, R126 ARE SPARES.
2. E35 IS A OPTIONAL COMPONENT
3. DO NOT IMPLIMENT ECO NO 5413273-M1010 INTO SYSTEM WITH SERIAL #NO 29,999 OR LESS

STEP ∥ + Y AXIS ____ STEP ____ TIMES
REPEAT + X AXIS ____ STEP ____ TIMES

CHG	CHANGE NO	REV
	M2027	
	M2027	

ETCH REV. E-P5

SIGNATURES	DATE
DRN.	
CHK'D.	
MECH. ENG.	
PROJ. ENG.	
PROD.	

SCALE = 1/1
SHT. 1 OF 1
NEXT HIGHER ASSY. B-DD-5413273-0

digital
TITLE FLOPPY CONTROLLER
SIZE E | CODE | NUMBER UA-5413273-0-0 | REV M

E UA5413273-0-0 M

MR

AUTOMATED BY PRTLST,2D(12) P A R T S L I S T SHEET A1 OF A4

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	E-MD-5013272-0-0	5013272-00	FLOPPY CONTROLLER R-W	1	
2	2		1000086-00	180 MFD 6V 20% 150D S,TA	1	C1
3	3		1004814-00	47 MFD 20V 10% 150D S,TA	2	C35,C37
4	4		1001765-00	5000,0 MMF 100V 20% Z5U DISC	5	C3,C6,C9,C12,C33
5	5		1001610-01	.01 MFD 100V -20+80 Z5U DISC	43	C4,C5,C7,C8,C10,C11,C13,C14,C28,
					CONT	C29,C30,C34,C38,C40-C44,C46-C50,
					CONT	C52-C55,C57-C60,C63-C65,C67-C69,
					CONT	C71,C72,C76-C79
6	6		1000075-00	25 MFD 25V G% 30D AL EL	5	C16,C18,C73-C75
7	7		1010978-32	.047 MFD 50V 10% 2C067CER,	4	C19,C20,C25,C26
8	8		1000021-00	*** THIS ITEM IS NOT USED ***	-	
9	9		1000020-00	180,0 MMF 100V 5%200PPM DM15S	1	C21
10	10		1009671-00	.51 MFD 100V 5% 410P MYLR	1	C32
11	11		1001739-00	*** THIS ITEM IS NOT USED ***	-	
12	12		1000080-00	50 MFD 50V G% 30D AL EL	1	C70
13	13		1105275-00	D 672 TR= 15NS PIV= 60V SI	8	D1,D15-D17,D19,D20,D22,D31
14	14		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	10	D2-D11
15	15		1110713-00	SZ710910 VZ= 5,1 2% M	2	D13,D14
16	16		1111577-00	1N 4454 TR= 4NS PIV= 50 S	10	D18,D21,D23-D30
17	17		1110324-00	LED 1MCD@10MA PIV=3	4	D32-D35
18	18		1213335-02	HEADER 8POS RT ANGLE	10	PA3-PA7,PB3-PB7
19	19		1212204-00	HEADER,156 2POS RT ANGLE	4	PC1-PC4
20	20		1215006-02	SOCKET 16PIN IC LOW PROFILE	1	J1
21	21		1215006-06	SOCKET 24PIN IC LOW PROFILE	1	XE30
22	22		1215006-08	SOCKET 40PIN IC LOW PROFILE	2	XE17,XE22
23	23		1300439-00	3,30 K .25 W 5,0 % CC	8	R1,R76,R88,R89,R94,R96,R98,R104
24	24		1302715-00	*** THIS ITEM IS NOT USED ***	-	
25	25		1300250-00	150,0 .25 W 5,0 % CC	1	R150
26	26		1309405-00	68,0 .50 W 5,0 % CC	4	R19,R27,R34,R40
27	27		1303312-00	10,0 K 1/4W 1% RN55D-F 100PPM	4	R20,R28,R36,R42

REVISION HISTORY			BASIC PART NO: 5413273
ENG	ECO NUMBER	REV	SECTION A OF A
---	INIT	C	SECTION,VARIATION INDEX
MN	MR001	D	[A] 00
MN	MR002	E	[B]
MN	MR003	F	[C]
WL	MR004	H	[D]
WL	MR005	J	[E]
WL	5413273-MR006	K	[F]
JC	5413273-MR007	L	[H]
			[J]
			[K]
			[L]
			[M]
			[N]

DRN: E,WILSON	DATE: 04-MAY-78		D	I	G	I	T	A	L
---	---	---	---	---	---	---	---	---	---
CHK'D: R,W,CAUNTER	DATE: 04-MAY-78	TITLE PARTS LIST							
		5413273 FLOPPY CONTROLLER R-W							
DES,ENG: W,LEDDER	DATE: 15-MAY-78								
		DOCUMENT NUMBER							
RESP,ENG: J,CYR	DATE: 15-MAY-78	SIZE	CODE	NUMBER					REV
		K	PL	5413273-0-DBP					L
MFG,ENG: R,HAMELTON	DATE: 15-MAY-78								
ASSEMBLY NUMBER: E-UA-5413273-0-0	TOP DOCUMENT NUMBER: PDT11/150	FILE NAME: Z0454L,PLS						EDIT # 27	

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WD

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
28	28		1300365-00	1.0 K .25 W 5.0 % CC	14	R21,R54,R55,R64,R65,R77,R91,R92,
						CONT R103,R105,R106,R110,R139,R149
29	29		1302871-00	1.21 K 1/4W 1% RN55D-F 100PPM	11	R22,R29,R35,R38,R41,R44,R72-R74,
						CONT R84,R115
30	30		1300391-00	1.50 K .25 W 5.0 % CC	7	R23,R30,R37,R43,R63,R90,R93
31	31		1302941-00	14.7 K 1/4W 1% RN55D-F 100PPM	5	R24,R26,R31,R33,R75
32	32		1304856-00	4.64 K 1/4W 1% RN55D-F 100PPM	5	R10,R25,R32,R39,R45
33	33		1300479-00	10.0 K .25 W 5.0 % CC	19	R11-R18,R95,R97,R107,R108,R116,
						CONT R127,R128,R129,R140-R142
34	34		1309094-00	100 5W 5% WW	2	R56,R57
35	35		1302644-00	*** THIS ITEM IS NOT USED ***	-	
36	36		1303047-00	*** THIS ITEM IS NOT USED ***	-	
37	37		1302411-00	*** THIS ITEM IS NOT USED ***	-	
38	38		1300488-00	12.0 K .25 W 5.0 % CC	2	R68,R69
39	39		1301322-00	180.0 .25 W 5.0 % CC	5	R70,R111-R114
40	40		1305143-00	825 1/4W 1% RN55D-F 100PPM	1	R71
41	41		1300385-00	1.20 K .50 W 5.0 % CC	4	R78-R81
42	42		1304868-00	2.74 K 1/4W 1% RN55D-F 100PPM	1	R87
43	43		1303156-00	34.8 K 1/4W 1% RN55D-F 100PPM	2	R99,R100
44	44		1309419-00	19.6 K 1/4W 1% RN55D-F 100PPM	2	R101,R102
45	45		1300295-00	330.0 .25 W 5.0 % CC	1	R109
46	46		1302751-00	30.0 .25 W 5.0 % CC	8	R117-R124
47	47		1510421-00	*** THIS ITEM IS NOT USED ***	-	
48	48		1510705-00	XA 05 NPN 500MW SI 60 50 P	7	Q9-Q12,Q15,Q16,Q23
49	49		1510706-00	XA 55 PNP 500MW SI 60 50 P	6	Q17-Q22
50	50		1610663-00	*** THIS ITEM IS NOT USED ***	-	
51	51		1601759-00	*** THIS ITEM IS NOT USED ***	-	
52	52		1602723-00	1000 UH 10% 125MA	4	L5-L8
53	53		1812396-09	XTAL 16.000 MHZ	1	Y1
54	54		1910337-00	DEC 1414L VOLT,COMPARATOR,DUAL	3	E1,E4,E39
55	55		1912848-00	LS158 MUX 1 OF 2 (QUAD)	1	E2
56	56		1912837-00	LS123 ONE SHOT-DUAL,RETRIG	1	E3
57	57		1914451-00	74LS393 COUNTER,BINARY,4BIT	2	E5,E14
58	58		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	2	E6,E41
59	59	SEE NOTE 2	1912824-00	LS74 FF-D DUAL,EDGE TRIGG	3	E7,E13,E28
60	60		1912803-00	LS04 INVERTER GATE-HEX 1I	1	E27
61	61		1912801-00	LS02 NOR-GATE-QUAD 2IN	3	E9,E21,E37
62	62		1910406-00	75451 DRIVER,PERIPH,DUAL,	1	E11
63	63		1909928-00	7416 INVERTER GATE-HEX 1I	1	E15
64	64		1912849-00	LS161 COUNTER,SYNCHR,4BIT	2	E16,E26
65	65		2115105-00	FLOPPY DISK CONTROLLER/FORMATTER	1	E17
66	66		1905587-00	*** THIS ITEM IS NOT USED ***	-	
67	67		1912820-00	LS51 A-O-I GATE 2-WIDE 2I	1	E19
68	68		1912844-00	LS151 MUX 1 OF 8 & DATA	1	E20
69	69		2114963-00	UP,8-BIT NMOS	1	E22
70	70		1912853-00	*** THIS ITEM IS NOT USED ***	-	
71	71		1912842-00	LS138 DECODER-THREE INPUT,	1	E29
72	72		1912805-00	LS08 AND GATE-QUAD 2IN,PO	3	E12,E31,E33

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							5413273 FLOPPY CONTROLLER R-W		K	PL	5413273-0-DBP	L

MR

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
73	73		1911116-00	DEC 8837 RECEIVER,BUS,HEX,UN	1	E32
74	74		1910741-00	7406 INVERTER GATE-HEX 1I	1	E35
75	75		1914214-00	LS374 FF-D OCTAL EDGE TRIG	1	E38
76	76		1910644-00	733 DIFFERENTIAL AMP,WID	2	E44,E46
77	77		1912847-00	LS157 MUX 1 OF 2(QUAD)	1	E42
78	78		2113681-00	RAM, 256X4, TRI-ST,	2	E43,E48
79	79		1910645-00	75452 DRIVER,PERIPH,DUAL,	1	E45
80	80		1915218-00	LS245 TRANSCEIVER,BUS,OCT	1	E47
81	81		9006010-01	SCREW,PAN ,PHIL, 4-40X 5/16	8	
82	82		9006557-00	NUT,KEP , 4-40X 1/4 AF	8	
83	83		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	W1,W2
84	84		9009769-00	WASHER, RECTANGULAR ,405X.225X.0	8	
85	85		1303177-00	2.40 K .25 W 5.0 % CC	5	R82,R83,R85,R86,R147
86	86		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
87	87		1005820-00	22.0 MMF 100V 5%200PPM DM15S	1	C83
88	88		1000011-00	*** THIS ITEM IS NOT USED ***	-	
89	89		1110420-00	*** THIS ITEM IS NOT USED ***	-	
90	90		9009597-00	INSULATOR, THERMA-FILM	8	
91	91		1000026-00	680.0 MMF 100V 5%200PPM DM15S	1	C22
92	92		1313590-00	1.5 K 1/4W 1% RN55D-F 100PPM	2	R145,R146
93	93		1000015-00	82.0 MMF 100V 5%200PPM DM15S	1	C27
94	94		1912829-00	LS86 X-OR GATE-QUAD 2IN	1	E34
95	95		1000006-00	*** THIS ITEM IS NOT USED ***	-	
96	96		1910534-00	74S04 INVERTER GATE-HEX 1I	1	E8
97	97		1000050-00	.033 MFD 100V 10% 663UW MYLR	1	C15
98	98		1503409-01	DEC6534B PNP 310MW SI 40 90 P	1	Q24
99	99		1311522-00	200.0 .25 W 5.0 % CC	2	R66,R67
100	100		1612946-02	22 UH 10%	2	L1,L2
101	101		1610661-00	56 UH 10% #DD56	2	L3,L4
102	102		1912858-00	LS221 ONE SHOT-DUAL,SCHMIT	1	E10
103	103		1912697-00	LS174 FF-D HEX W/CLEAR	1	E36
104	104		1912816-00	LS32 OR GATE-QUAD 2IN,POS	1	E40
105	105		1909984-00	DEC 74141 DECODER&NIXIE TUBE D	2	E23,E24
106	106		1912823-00	LS73 FF-JK DUAL W/CLEAR	2	E18,E25
107	107		1102808-00	1N 752A VZ= 5.6 5% .40W	1	D36
108	108		1301781-00	82.0 .50 W 5.0 % CC	1	R138
109	109		1300447-00	4.70 K .25 W 5.0 % CC	8	R130-R137
110	110		1514509-00	TIP 125 PNP 65W SI 60 500 8A	8	Q1-Q8
111	111		1300496-00	15.0 K .25 W 5.0 % CC	2	R143,R144
112	112		1302874-00	147 1/4W 1% RN55D-F 100PPM	4	R59-R62
113	113		1302377-00	39.0 .25 W 5.0 % CC	1	R58
114	114		1312655-00	180 5W 5%	1	R148
115	115		1004813-00	10 MFD 20V 10% S.TANT	1	C2
116	116		1010274-02	1 MFD 50V X% 2C023 CER,	1	C80
117	117		9107560-03	WIRE,BUSS,18AWG	A/R	

D	I	G	I	T	A	L	TITLE	SIZE	CODE	DOCUMENT NUMBER	REV
							5413273 FLOPPY CONTROLLER R-W	K	PL	5413273-0-DBP	L
							SECTION A OF A				

MK

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
118	NOTE:	1.ITEM 90 TO BE USED ON(ITEM 47)Q1=Q8.			
119	NOTE:	2.7474 (1905547) MAY BE SUBSTITUTED FOR XE7 (ITEM #59) .			

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							5413273 FLOPPY CONTROLLER R=W		K	PL	5413273-0-DBP	L

MP

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NOTES:
1. DRIVES AT REV. J ARE PROPERLY PHASED AND CAN BE USED WITH BOARDS AT LEVEL J,J1, AND K. DRIVES BELOW REV. J MAY NOT OPERATE PROPERLY WITH BOARDS AT LEVEL K AND ABOVE, AND MAY REQUIRE RE-ADJUSTMENT. REFER TO ECO #7013077-MR006 AND ECO #PDT11/150-MR006 FOR PROPER RE-ADJUSTMENT INSTRUCTIONS.
2. DO NOT IMPLIMENT ECO #5413273-ML010 INTO SYSTEM WITH SERIAL NO 29.999 OR LESS

R111 180 · R150 150 · +5V R142 10K · LS08 E12 · FI 16MHZ · Y1 16 MHZ

F5 4MHZ · 4Ø · 8085 E22 SOCKET XE22

+5V R1 3.3K · D1 D672 · W1 · FI RESET L · C1 18Ø MF · RESIN

F3 INTR H · R107 10K · RES 7.5

F2 TIM GO H · 8837 E32 · LS02 E37 · RES 6.5

+5V R108 10K · F3 DRQ H · REQ 5.5

+5V R53 10 K · TRAP

RDY

+5V R116 10 K · F2 BTEST L · S04 E8 · FI BTEST H

HOLD · INTR · 39 · 1Ø · 2Ø · R109 33Ø

CLK · SOD · SID · FI SID SEL · S_0 · S_1 · RES OUT · AI5 · FI AI5 · A13 · A12 · A11 · AIØ · A9 · A8 · FI AIØ · FI A9 · FI A8 · RD L · WR L · ALE · FI RD L · FI WR L · FI ALE

ADØ · AD1 · AD2 · AD3 · AD4 · AD5 · AD6 · AD7 · FI ADØ · FI AD1 · FI AD2 · FI AD3 · FI AD4 · FI AD5 · FI AD6 · FI AD7

F2 TIM RD L · 8837 E32 · LS02 E37 · FI UB RD L

F2 TIM ALE · 8837 E32 · 8837 E32 · FI B TIM ALE

S04 E8 · FI SEL DK1 L

+5V R141 10K · LS08 E12 · FI CLK 2MHZ

FI ALE · FI RD L · FI UB RD L · FI WR L · F2 UB WR L · FI RAM SEL L · F2 TIM FD SEL L · LS157 E42 · FI ALE CLK · FI RAM RD L · FI RAM WR L · FI RAM EN L

+5V R140 10K · LS08 E33 · FI DONE H

FI AI5 · +AV · LS138 E29 · FI DISP CLK L · FI DISP CLR L · FI FD SEL L · FI RAM SEL L · FI ROM SEL L

F3 HEAD ENG L · F3 SCT 1A · F3 SCT 1B · F3 SCT 2A · F3 SCT 2B · F4 DK Ø AVAIL H · F4 DK 1 AVAIL H · FI BTEST H · LS151 E20 · STB · FI SID SEL · F3 DISP 3 · F3 DISP 2 · F3 DISP 1

C16 25 MF · C75 25 MF · -5V

+12V C73 25 MF

+24V C72 .01MF · C70 50MF · R148 180

IC POWER PIN CONNECTIONS

TYPE	+5	GND	-5	+12
8Ø85	4Ø	2Ø		
1771	21	2Ø	1	4Ø
8316E	24	12		
2101A	22	5		
7545I	8	1		
2Ø PIN	2Ø	1Ø		
16 PIN	16	8		
14 PIN	14	7		

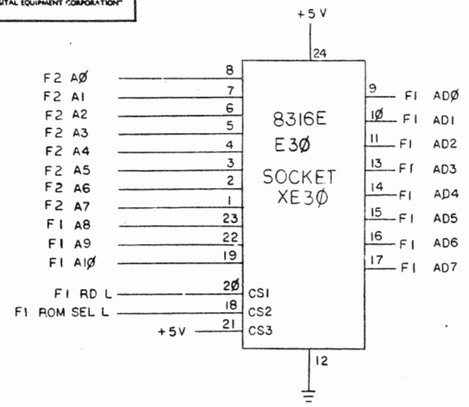
+5V · C30 .01 UF · C38 .01 UF · C40 THRU C44 .01UF · C46 THRU C50 .01UF · C52 THRU C55 .01UF · C57 THRU C60 .01UF · C63 THRU C65 .01UF · C67 THRU C69 .01UF · C71 .01 UF · C74 25 MF · R121 1K +AV · R110 1K +CV · C18 25MF

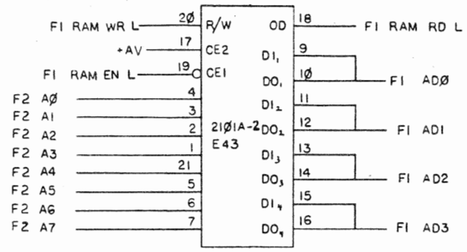
REVISIONS	CHANGE NO.	REV.	CHK
5413273-MR001	D	W.LEDDER 9/Feb 10/5/78	
5413273-MR002	E	W.LEDDER 6-NOV-78	
5413273-MR003	F	W.LEDDER 12 Dec 78	
5413273-MR005	J	W.LEDDER 3-MAR-79	
5413273-MR004	H	W.LEDDER 5-MAR-79	
5413273-MR006	K	W.LEDDER 9-APR-79	
5413273-MR007	L	12 NOV 79 .CYR	
5413273-ML010	M	J GANONG	

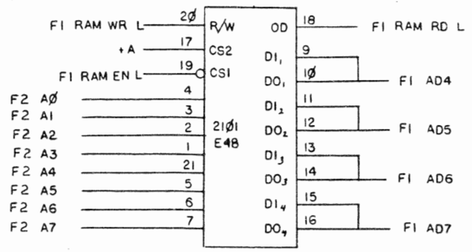
FI: CONTROL PROCESSOR

DRN.		FIRST USED ON PDT11/150 digital
CHK'D		
ENG.		TITLE RX36 FLOPPY CONTROLLER
PROJ. ENG.		
PROD.		
NEXT HIGHER ASSY.	B-DD-5413273-0	SIZE D · CODE CS · NUMBER 5413273-0-1 · REV M
SCALE NONE		
SHEET 1 OF 7		D/ST.

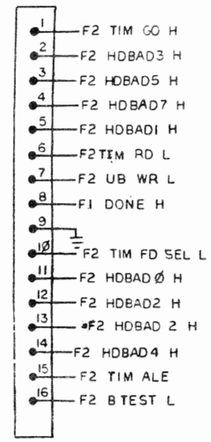
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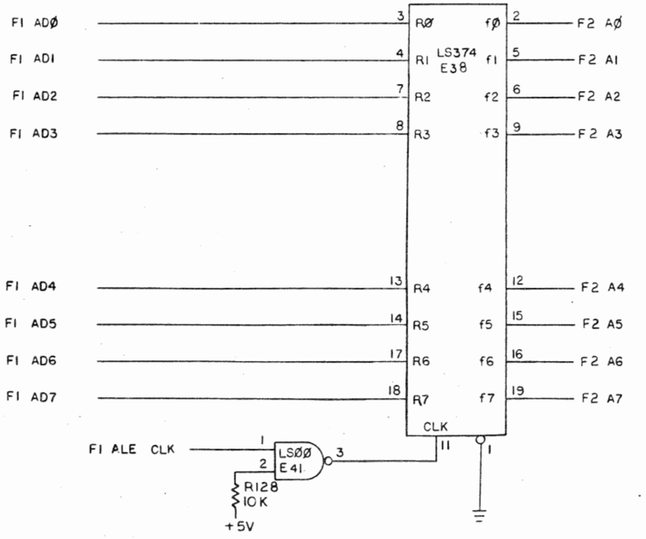


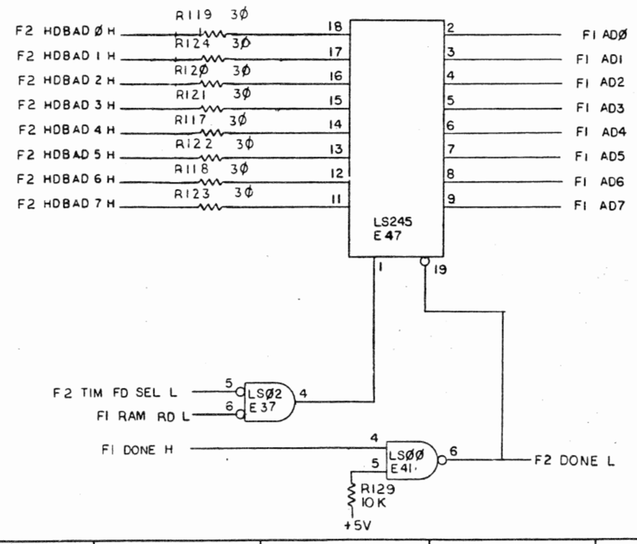


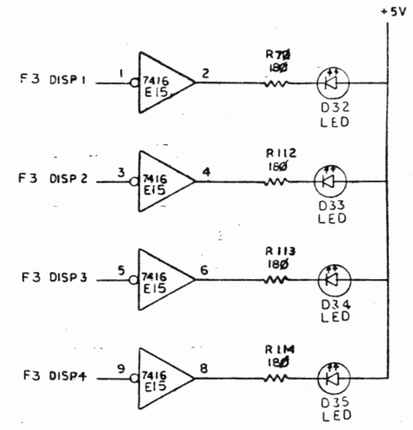


TIM INTF
J1









F2: ROM, RAM, ADR DRIVER, INTERFACE

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: RX36 FLOPPY CONTROLLER	SIZE: D	CODE: DCS	NUMBER: 5413273-0-1
SCALE: NONE	SHEET 2 OF 7	DIST.	REV. M

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F3 SCT 1A
F3 SCT 1B
LS02 E9
F3 PDRØ
F3 SCT 2A
F3 SCT 2B
LS02 E9
F3 PDR1

+5V
+12V
FDI771
E17
SOCKET XE17

F1 ADØ
F1 AD1
F1 AD2
F1 AD3
F1 AD4
F1 AD5
F1 AD6
F1 AD7
F2 AØ
F2 A1
F1 FD SEL L
F1 RD L
F1 WR L
F1 RESET L
F3 INTR H
F3 DRQ H
F1 CLK 2MHZ

TRØØ — F3 HOME L
IP — F4 INDEX L
WPRT — +AV
RDY — F4 RDY H
WF — +5V
WG — F3 WG H
TG43 — F3 TG43 H
READ CLK — F5 READ CLK
READ DATA — F5 READ DATA
WR DATA — F3 WR DATA
HEAD LD — F3 HEAD LD H
HLD
TEST — +5V
HLT
3PM — +5V
DIR — F3 OUT L
STEP
DINT XTDS
-5V

LSØØ E41 — F3 HD ENB L
+5V
RIØ 4.64K
C2 10 MF
LS221 E1Ø
t≈32MS
+AV

F1 RESET L
+AV
J74 LS73 E18 K Ø
LS51 E19
F3 SCT 1A
F3 SCT 1B

+AV
J74 LS73 E25 K Ø
LS51 E19
F3 SCT 2A
F3 SCT 2B

F1 SEL DKI L
LS04 E27
LS32 E40
F3 SEL DKI H
7416 E15
+5V R152 1K
+5V R151 1K

F1 RESET L
F3 PULSE 2 L
LSØØ E6

F1 RAM WR L
F1 DISP CLR L
LS02 E21
LS393 E5
LS393 E14
F3 DISP 4
F3 DISP 3
F3 DISP 2
F3 DISP 1
F1 RAM WR L
F1 DISP CLK L
LS02 E21

+AV
LS74 E13
F1 RESET L
LS74 E13

F3 PULSE 2 H
LSØØ E41
LS32 E40
3MS
4US
.5US
F4 PHØ H
LSØØ E6
F4 TRØØ L
F3 OUT L
LS02 E21
F3 HOME L
LS02 E21
F3 PULSE2 H
F1 RESET L
LSØØ E6
LS74 E7
F3 PULSE2 L
+AV

REVISIONS		
CHK	CHANGE NO.	REV.

F3: 1771, STEPPER COUNTER, PULSE ADDER

TITLE	SIZE	CODE	NUMBER	REV.
RX36 FLOPPY CONTROLLER	D	DCS	5413273-0-1	M
SCALE NONE	SHEET 3 OF 7		DIST.	

DCS 5413273-0-1 REV. M

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DKØ PA6 — INDEX — R19 68 ½W — R20 10K 1% — Q9 AØ5 — R22 1.21K 1% — C3 .ØØ5µf — R25 4.64K 1% — R23 5K — R24 14.7K 1% — R26 14.7K 1% — C4 .01UF — C5 .01µf — 1414 E1 — +12V — +5V — -5V — F4 DK Ø AVAIL H

DKØ PA7 — TRK ØØ — R34 68 ½W — R35 1.21K 1% — Q11 AØ5 — R36 10K 1% — C9 .ØØ5µf — R37 5K — R38 5.6K — R39 4.64K 1% — C10 .01µf — R153 5.6K — 1414 E1 — +12V — +5V — -5V

DK1 PB6 — R27 68 ½W — R28 10K 1% — Q10 AØ5 — R29 1.21K 1% — C6 .ØØ5µf — R30 1.5K — R31 14.7K 1% — R32 4.64K 1% — R33 14.7K 1% — C7 .01µf — C8 .01µf — 1414 E4 — +12V — +5V — -5V — F4 DK1 AVAIL H

DK1 PB7 — R40 68 ½W — R41 1.21K 1% — Q12 AØ5 — R42 10K 1% — C12 .ØØ5µf — R43 1.5K — R44 5.6K — R45 4.64K 1% — R154 5.6K — C13 .01µf — C14 .01µf — 1414 E4 — +12V — +5V — -5V

C35 47µf — R68 12K — LS123 E3 — +AV — +5V

C37 47µf — R69 12K — LS123 E3 — +AV — +5V

LS158 E2 — STB — SO — AØ BØ A2 B2 A1 B1 A3 B3 — fØ f2 f1 f3 — F4 RDY H — F4 INDEX L — F4 TRØØ L — F4 PHØ H — LSØ4 E27 — F3 PDR1 — F3 PDRØ

75451 E11 — Q15 AØ5 — D10 1N4ØØ4 — +24V — DKØ PA5 — DKØ HEAD LOAD — R54 1K — R56 10Ø 5W

75451 E11 — Q16 AØ5 — D11 1N4ØØ4 — DKI PB5 — DKI HEAD LOAD — R55 1K — R57 10Ø 5W

F1 SEL DKI L — F3 HEAD LD H — F3 SEL DKI H

PC4 — +24V — +24VRET
PC3 — -5V
PC2 — +5V
PC1 — +12V

F4:HEAD LOAD, TRØ, INDEX

REVISIONS

CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
RX36 FLOPPY CONTROLLER	D	CS	5413273-0-1	M
SCALE NONE	SHEET 4 OF 7		DIST.	

DC 5413273-0-1 M

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+5V
L8 10ØØ uH
C19 .Ø47uF
RS9 14Ø
L1 22 uH
L3 56 uH
R145 1.5K
C15 .Ø33 uF
C8Ø .1uF
RG1 14Ø
L5 1ØØØ uH
F6 R/W BUS +
F6 R/W BUS −
R144 15K
733 E46
R58 39
C21 18Ø pF
C22 68Ø pF
C27 82 pF
C2Ø .Ø47uF
RGØ 14Ø
L2 22 uH
L4 56 uH
RG2 14Ø
R146 1.5K
LG 1ØØØ uH
L7 1ØØØ uH
−5V
C25 .Ø47 uF
RGG 2ØØ
RG4 1K
RG3 1.5K
C26 .Ø47uF
RG5 1K
RG7 2ØØ
+12V
C28 .Ø1 uF
1414 E39
W2
F5 RAW DATA H
R147 2.4K
−5V
C29 .Ø47uF
+5V
74 LS74 E28
F5 4 MHZ
F5 8MHZ
+CV
74LS574 E36
F5 RAW DATA H
F5 A H
F5 B H
F5 C H
F5 E H
F5 8 MHZ
F5 G D H
F1 RESET L
F1 16 MHZ
74 LS04 E27
74 LS86 E34
74LS161 E26
16 MHZ
CNT EN
CRY EN
F5 WINDOW H
74LS161 E16
F5 TRX L
74 LS08 E34
74 LS02 E9
F5 RD CLK H
F5 RD DATA H
R143 15K
C83 22PF
74 LS221 E16
F5 E H
F5 TRX L

F5:READ CHAIN AND DATA SEPERATOR

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
RX36 FLOPPY CONTROLLER	D	CS	5413273-0-1	M
SCALE →	SHEET 5 OF 7	DIST.		

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NOTE:
1. DIODES ARE DEC PART NO. 1111577, UA454 OR EQUIV.

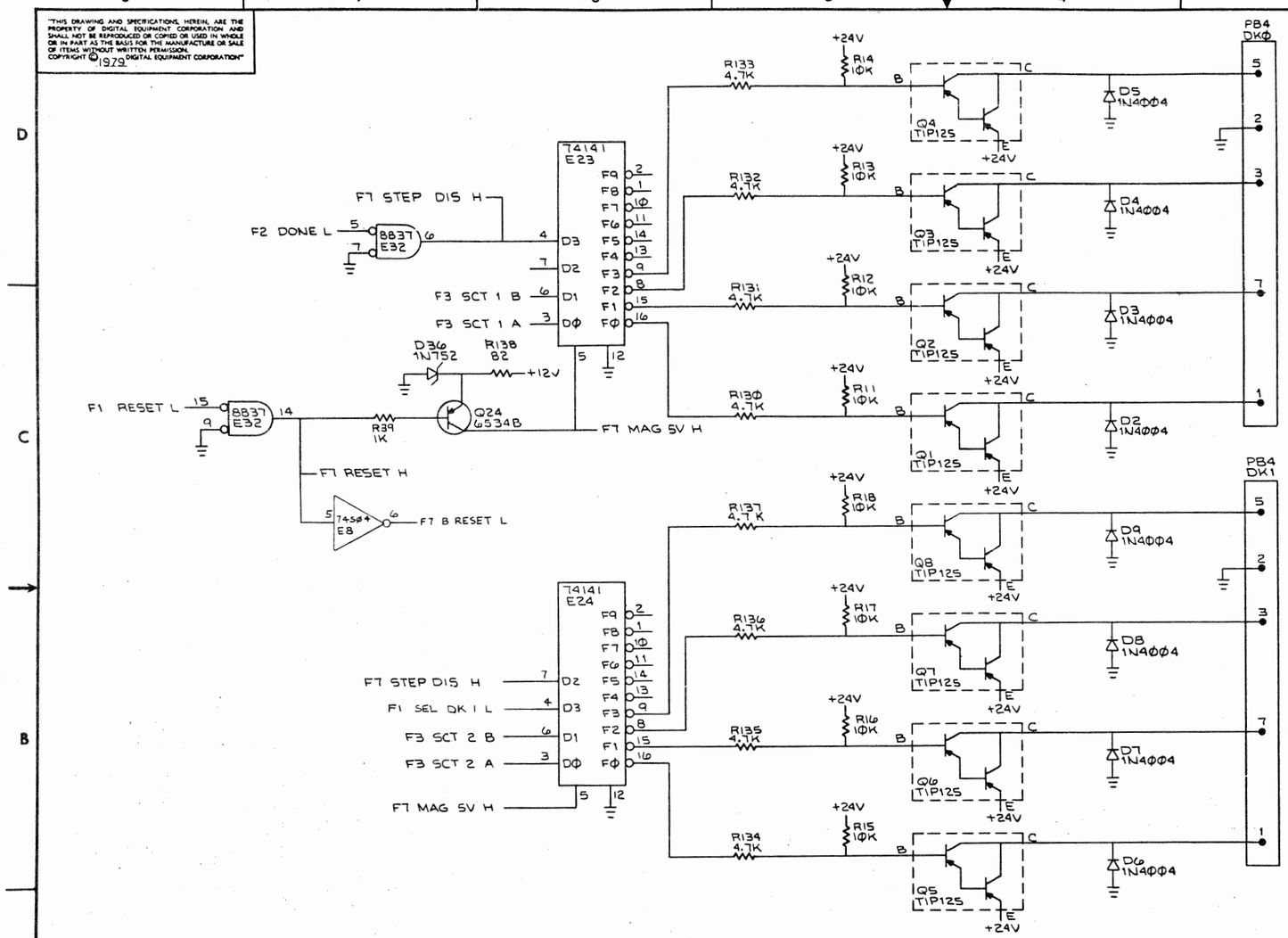
+5V
R71 825 1%
R115 1.21K 1%
R72 1.21K 1%
C32 .51 µf 5%
7406 E35
T_{on} = 224 nS
T_{off} = 523 nS
R73 1.21K 1%
R74 1.21K 1%
R75 14.7K 1%
1414 E39
-5V
D31 D672
7406 E35
+24V
R77 1K
R76 3.3K
Q17 A55
R78 1.2K 1/2 W
R79 1.2K 1/2 W
R80 1.2K 1/2 W
R81 1.2K 1/2W
C33 .0005 µf
D15 D672
D16 D672
F3 WG H
F7 B RESET L
LS08 E31
7406 E35
R82 2.4 K
R83 2.4K
D13 5.1V
R84 1.21K 1%
Q18 A55
R85 2.4K
D14 5.1V
R87 2.74K 1%
Q19 A55
R86 2.4K
F3 TG43 H
S04 E8
LS08 E31
7406 E35
D17 D672
D18 SEE NOTE 1
D24 SEE NOTE 1
D25 SEE NOTE 1
F6 R/W BUS +
+AV
LS74 E7
F3 WR DATA
+CV
R93 1.5K
R88 3.3K
R91 1K
R89 3.3K
R92 1K
R90 1.5K
Q20 A55
Q21 A55
C76 .01uf
R96 3.3K
R94 3.3K
R95 10K
D19 D672
C77 .01uf
DK0 HEAD PA3
R97 10K
D22 D672
C78 .01uf
DK1 HEAD PB3
D21 SEE NOTE 1
D20 D672
D30 SEE NOTE 1
D29 SEE NOTE 1
D28 SEE NOTE 1
R98 3.3K
C79 .01 µf
R100 34.8K 1%
R99 34.8K 1%
C34 .01 µf
R102 19.6K 1%
R101 19.6K 1%
D26 SEE NOTE 1
D27 SEE NOTE 1
F6 R/W BUS -
F1 SEL DK1 L
F7 B RESET L
F3 SEL DK1 H
75452 E45
LS04 E27
R106 1K
R103 1K
Q22 A55
Q23 A05
R104 3.3K
R105 1K

F6: RW BUS, WRITER, HEAD

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: RX36 FLOPPY CONTROLLER		SIZE: D	CODE: CS	NUMBER: 5413273-0-1 REV: M
SCALE: NONE	SHEET 6 OF 7	DIST.		

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F7 : STEPPER MOTOR DRIVER

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
RX36 FLOPPY CONTROLLER	D	CS	5413273 - 0 - 1	M
SCALE	SHEET 7 OF 7		DIST.	

5413273-0-1 M