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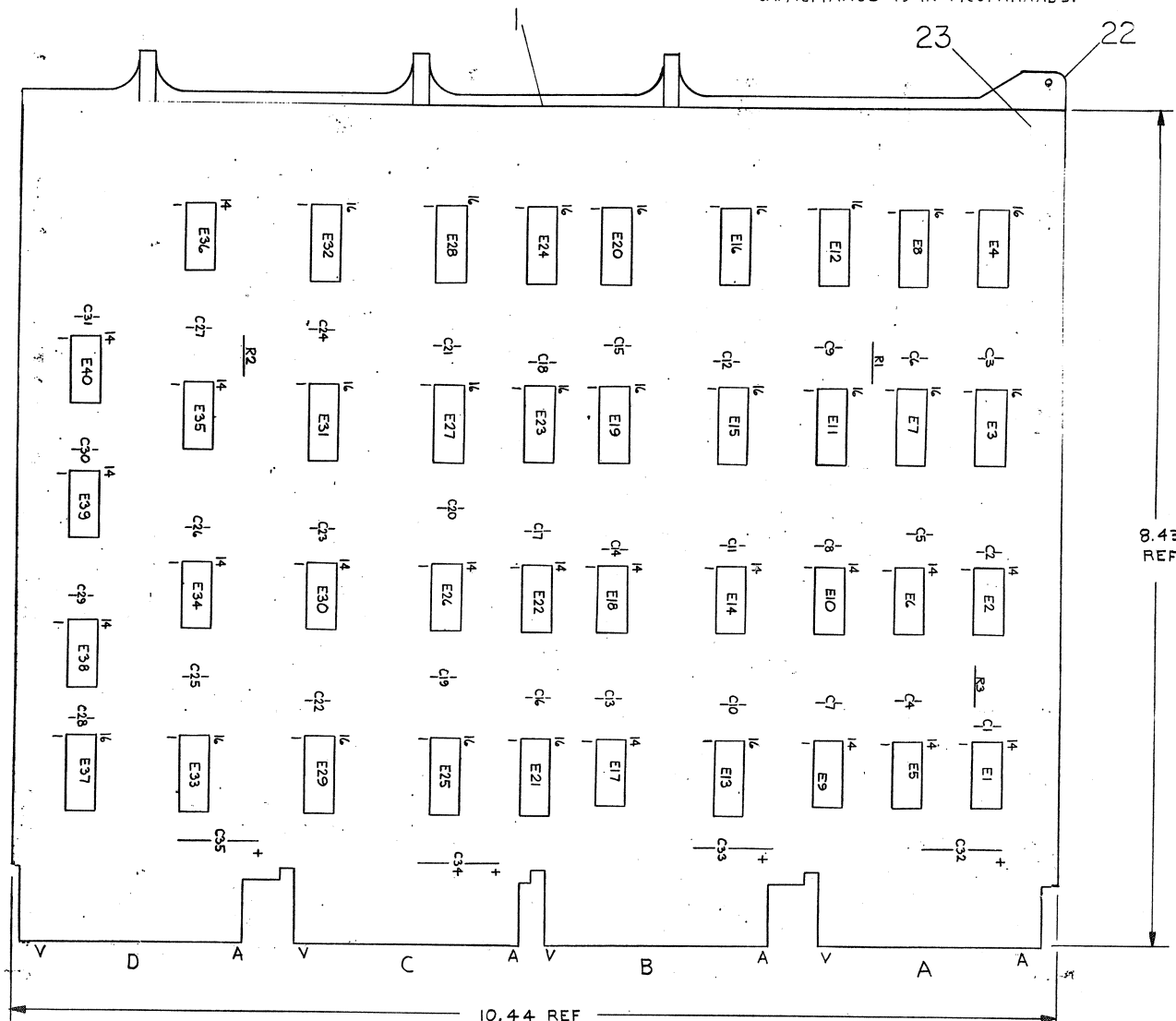
NOTES:

1. PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE KDI-A PROCESSOR. MODULE REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE FIRST LETTER.
2. ALL SIGNALS THAT HAVE MODULE PINS ARE SO NOTED. OUTPUT SIGNALS WITH MODULE PINS ARE BROUGHT TO THE RIGHT SIDE OF THE PRINT.

3. PROCESSOR SIGNAL PREFIX NOTATION (KF-1 FOR EXAMPLE) IDENTIFIES THE SIGNAL SOURCE (PRINT AND MODULE). THE FIRST NUMBER AFTER THE K INDICATES THE MODULE PRINT SET, WHILE THE SECOND INDICATES THE SHEET WITHIN THE SET. SIGNALS WITH A "BUS" PREFIX REPRESENT A "WIRED OR" SITUATION, AND MULTIPLE SOURCES FOR THE SIGNAL CAN EXIST.
4. UNLESS OTHERWISE NOTED: RESISTANCE IS IN OHMS; CAPACITANCE IS IN PICOFARRADS.

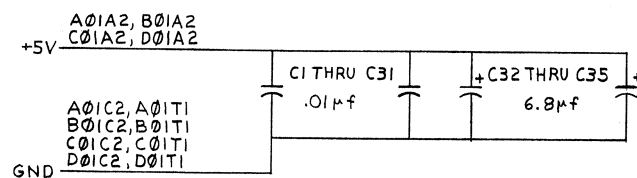
INSTALLATION:

CUT W1, W2, W3 ON M7238 WHEN
INSTALLING KEII-F OPTION
PLUG M7239 INTO KDII-A SLOT A-DØ1.

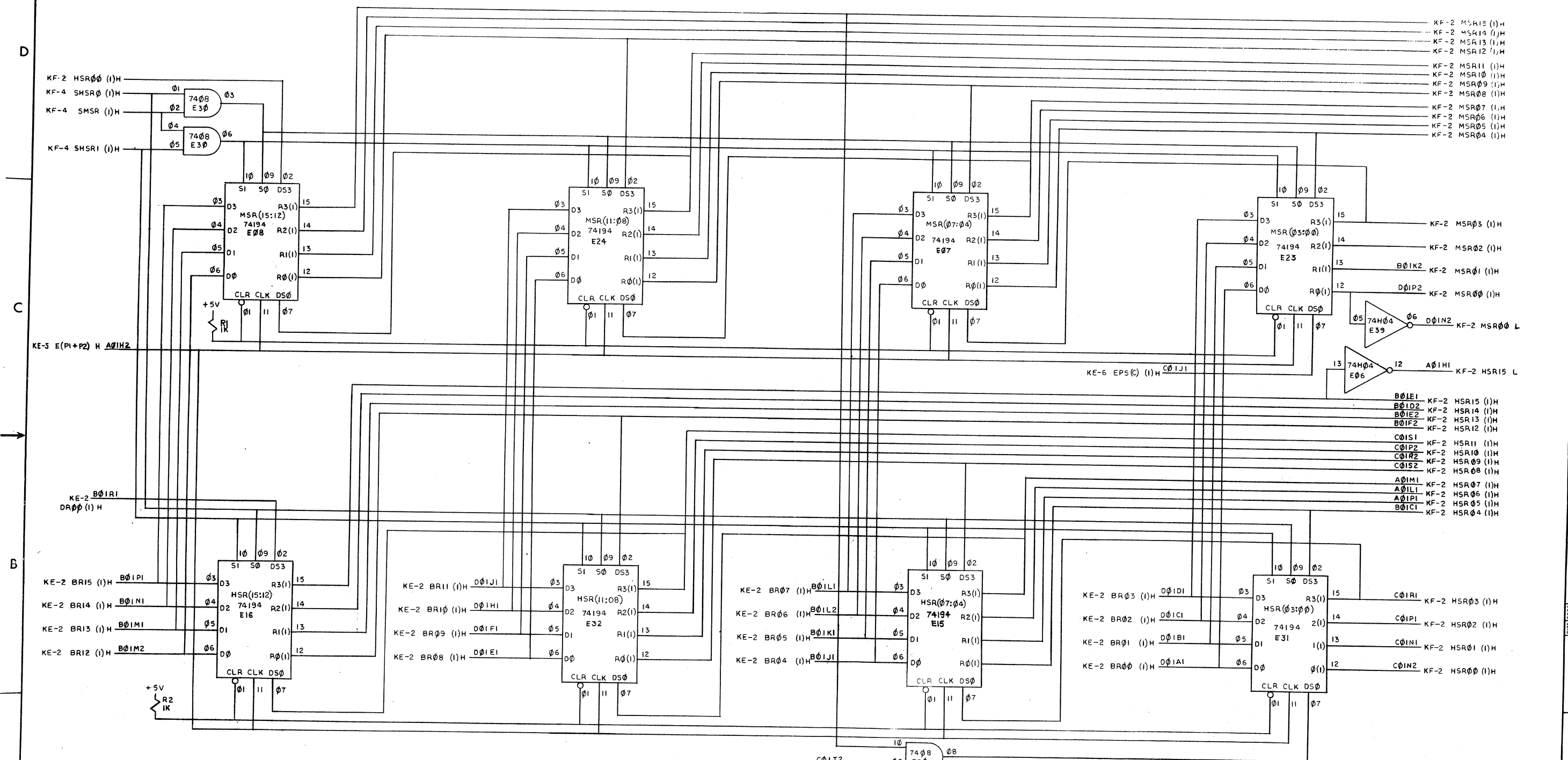


QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
8		EYELET	9006732	23
1		HANDLE	7409871	22
1	E21	I.C. DEC 23B33A2	23B33A2	21
1	E25	I.C. DEC 23B32A2	23B32A2	20
2	E29, E37	I.C. DEC 74175	1910651	19
8	E7, E8, E15, E16, E23, E24 E31, E32	I.C. DEC 74194	1910623	18
1	E30	I.C. DEC 7408	1910155	17
8	E3, E4, E11, E12, E19, E20 E27, E28	I.C. DEC 74153	1909937	16
1	E13	I.C. DEC 74151	1909936	15
2	E6, E39	I.C. DEC 74H04	1909931	14
4	E2, E10, E18, E26	I.C. DEC 74H01-1	1909849	13
2	E14, E40	I.C. DEC 8815	1909713	12
2	E34, E36	I.C. DEC 74H11	1909267	11
1	E9	I.C. DEC 74H50	1909060	10
3	E5, E22, E38	I.C. DEC 74H00	1909056	9
1	E35	I.C. DEC 7402	1909004	8
1	E17	I.C. DEC 74H20	1905635	7
1	E1	I.C. DEC 7474	1905547	6
1	E33	RESISTOR NETWORK	1311003-02	5
3	R1 THRU R3	RES 1K 1/4W $\pm 5\%$	1300365	4
31	C1 THRU C31	CAP .01 μ f 100V $\pm 20\%$ DISC	1001610	3
4	C32 THRU C35	CAP 6.8 μ f 35V $\pm 20\%$ TANT	1000067	2
1		ETCHED CIRCUIT BOARD	5010075	1

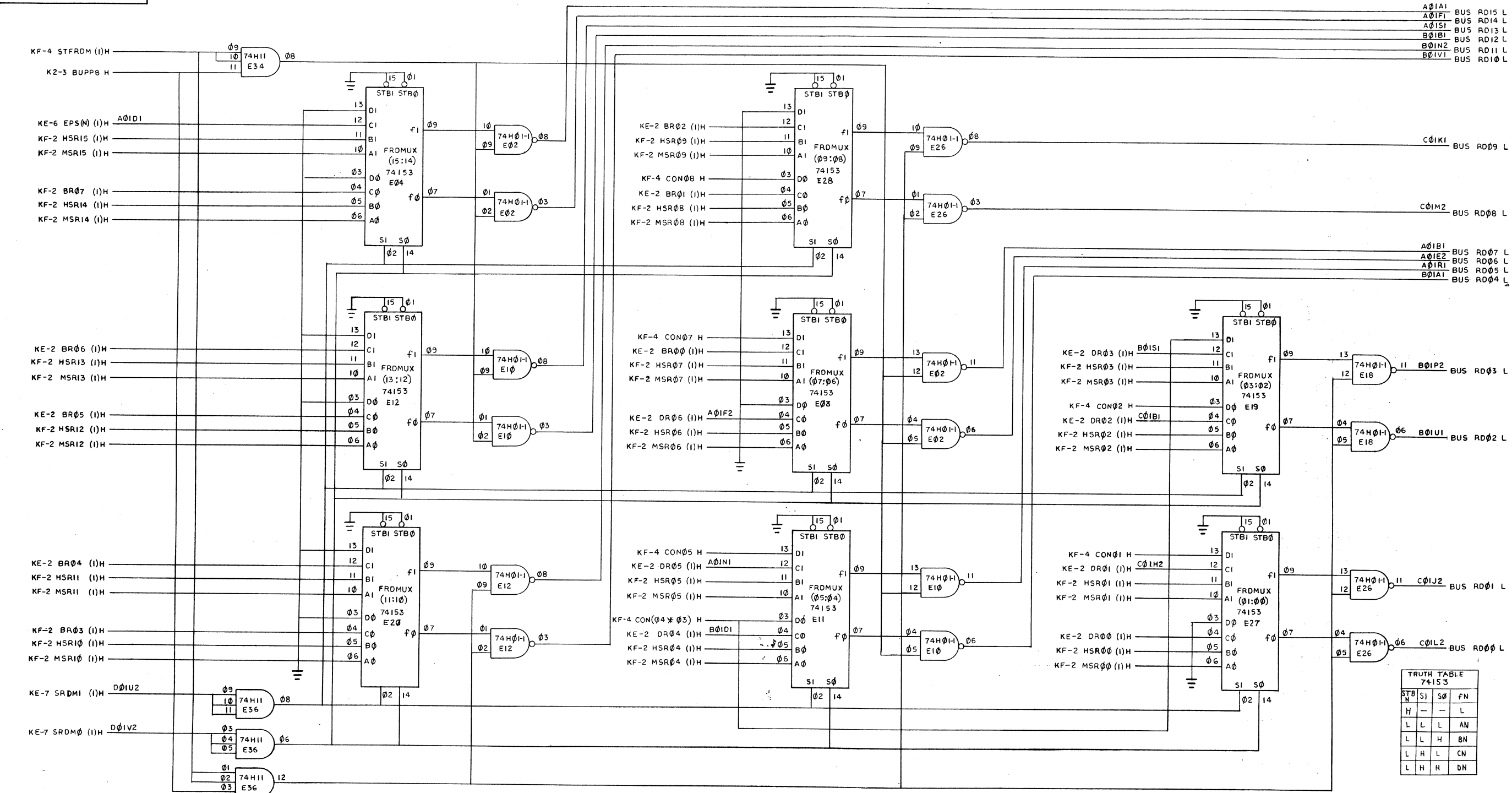
1311003-02	8	16
DEC 74194	8	16
DEC 74175	8	16
DEC 74153	8	16
DEC 74151	8	16
IC TYPE	GND	+ 5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

[illegible]

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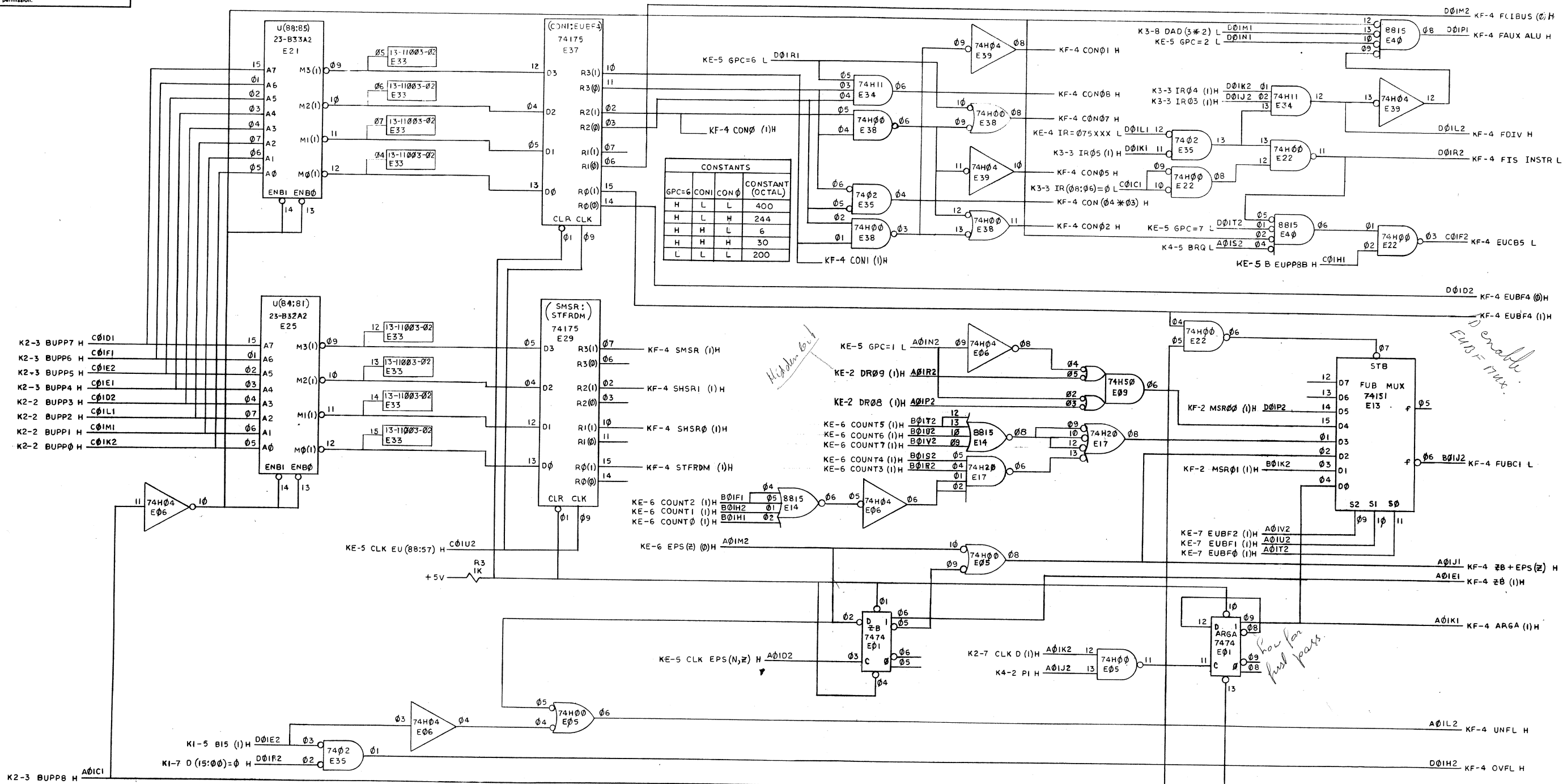
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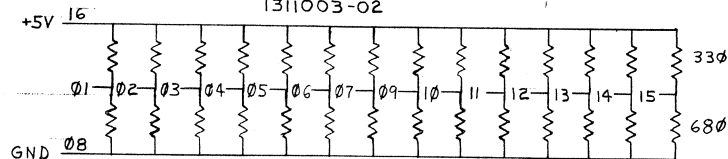
TRUTH TABLE 74H153			
STB	SI	S0	FN
H	-	-	L
L	L	L	AN
L	L	H	BN
L	H	L	CN
L	H	H	DN

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
KD11 - A					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN <i>R. Bullock</i>	DATE 3-10-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
		CHK'D <i>Raymond</i>	DATE 8-12-72		
DECIMALS	ANGLES	ENG <i>Raymond</i>	DATE 8-12-72	TITLE FIS	
.XXX - .005	±0° 30'	PROJ ENG <i>Raymond</i>	DATE 8/18/72		
.XX - .02		PROB <i>Raymond</i>	DATE 8-18-72		
.X - .1					
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓					
MATERIAL		NEXT HIGHER ASSY.		FRDMUX (15:00)	KF-3
		K11-F		SIZE CODE	NUMBER
FINISH		SCALE SHEET 3 OF 12		D C5	M7239-0-1
				REV.	B

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DEVICE TRUTH TABLE
1311003-02



STB	S2	S1	S0	FN	BUT (FUBC1)
H	-	-	-	L	-
L	L	L	L	D0	ARGA
L	L	L	H	D1	MSR01
L	L	H	L	D2	ZB+EPS(Z)
L	L	H	H	D3	COUNT > 30
L	H	L	L	D4	NORMALIZED
L	H	L	H	D5	MSR00
L	H	H	L	D6	-
L	H	H	H	D7	-

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
K011-A				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES				
DECIMALS	ANGLES	TITLE		
.XXX - .005	± 0° 30'	FIS		
.XX - .02		DATE 7/17/72		
.X - .1		DATE 8/1/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY.	ROM & CONTROL		
FINISH	SCALE	REV. B		

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FLOWS STATE		ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
E3	MUL7	000	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	00 204
E3	MUL19	001	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 133
E3	MUL2	002	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	00 015
E3	MUL4	003	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01	12 075
F5	FDV1	004	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	01	15 006
E3	MUL16	005	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	00 011
F5	FDV2	006	6	0	0	1	1	0	0	10	0	06	00	00	2	0	0	0	01	14 160
E3	MUL12	007	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	00 016
E3	MUL15	010	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 177
E3	MUL18	011	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	11	01 177
E3	MUL14	012	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 177
E3	MUL17	013	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	11	01 177
E3	MUL1	014	4	0	0	0	0	1	0	0	10	0	06	00	0	0	0	0	0	00 000
E3	MUL3	015	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	10	00 001
E3	MUL13	016	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	11	01 010
F3	ADD23	017	6	0	3	0	1	0	0	0	0	14	00	00	2	0	0	0	01	11 361
E4	DIV20	020	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	00 076
E5	DIV23	021	4	0	0	0	1	0	0	0	0	20	00	00	0	0	0	0	0	00 071
E4	DIV4	022	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 177
E5	DIV33	023	4	0	0	0	1	0	0	0	0	20	00	00	0	0	0	0	0	00 070
E4	DIV13	024	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	01 147
E5	DIV27	025	4	0	0	0	1	0	0	0	0	11	00	00	0	0	0	0	0	00 101
E4	DIV7	026	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	00 057
E5	DIV31	027	4	0	0	0	1	0	0	10	0	06	00	00	0	0	0	0	0	00 103
E2	ASH2	030	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 177
E4	DIV16	031	6	0	0	0	1	0	0	14	0	0	0	0	2	0	0	0	0	00 123
F5	FDV21	032	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	00 065
E4	DIV11	033	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01	11 372
E2	ASH5	034	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 037
E4	DIV19	035	6	0	0	0	1	0	0	14	0	0	0	0	2	0	0	0	0	00 153
E2	ASH3	036	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 063
E4	DIV12	037	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 177

NOTE:

THE COMPLEMENT OF THE ACTUAL
ROM OUTPUT FOR THE UPF, WR,
SPS (HIGH 2 BITS), BUS (LOW BIT),
AND CLK (LOW BIT) FIELD IS
LISTED FOR CLARITY.

FLOWS STATE ADR CON FC1 FUB MHR FRD ERD SRD SDR CVM NZM CCC GPC CEE CNT EUB CBR

E3	MUL7	000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
E3	MUL19	001	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	1	00	1
E3	MUL2	002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01	1
E3	MUL4	003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01	1
F5	FDV1	004	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	14	0
E3	MUL16	005	0	0	0	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0
F5	FDV2	006	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0
E3	MUL12	007	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	04	0
E3	MUL15	010	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
E3	MUL18	011	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0
E3	MUL14	012	0	0	0	0	0	0	0	0	5	0	1	0	0	0	0	0	0	0
E3	MUL17	013	0	0	0	0	0	0	0	0	5	2	5	0	0	0	0	0	0	0
E3	MUL1	014	0	0	0	0	0	0	0	0	5	0	1	0	0	0	0	2	00	0
E3	MUL3	015	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
E3	MUL13	016	0	0	0	0	0	0	0	0	2	3	6	0	0	0	0	0	0	0
F3	ADD23	017	0	0	0	0	0	0	0	2	0	0	0	4	0	0	0	0	0	0
E4	DIV20	020	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	03	0
E5	DIV23	021	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	02	0
E4	DIV4	022	0	0	0	0	0	0	0	0	1	1	7	0	0	0	0	0	0	0
E5	DIV33	023	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	02	0
E4	DIV13	024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	1
E5	DIV27	025	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0
E4	DIV7	026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV31	027	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0
E2	ASH2	030	0	0	0	0	0	0	0	0	5	2	7	0	0	0	0	0	0	0
E4	DIV16	031	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	1	00	1
F5	FDV21	032	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	00	1
E4	DIV11	033	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH5	034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	0
E4	DIV19	035	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	1	00	1
E2	ASH3	036	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	0
E4	DIV12	037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS		CHK
CHANGE NO.	REV	

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE FIS BOARD		NUMBER M7239-011		REV. B	
DRN	DATE 8-16-72	CHKD.	DATE 8-17-72	ENG.	DATE 8-17-72	PROJ. ENG.	DATE 8-17-72
GRD.	DATE 8-17-72	GRD.	DATE 8-17-72	GRD.	DATE 8-17-72	GRD.	DATE 8-17-72
SHEET 5 OF 19		ADRS 000-037		SIZE CODE C CS			

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FLOWS STATE		ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SBX	RIF	UPF
E2	ASH9	040	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	11	01 030
F4	FML4	041	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	00	00 150
F5	FDV23	042	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01	13 211
F4	FML3	043	6	0	3	1	1	0	0	0	0	23	00	00	0	2	0	0	01	15 176
E2	ASH16	044	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 243
E5	DIV25	045	6	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	00	00 053
E2	ASH10	046	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 223
E5	DIV29	047	4	0	0	0	0	1	0	0	0	11	01	17	0	0	0	0	00	00 104
E5	DIV37	050	4	0	0	0	0	1	0	0	0	20	00	00	0	0	0	0	00	00 106
E5	DIV40	051	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 054
E5	DIV35	052	4	0	0	0	0	1	0	0	0	11	01	17	0	0	0	0	00	00 105
E5	DIV26	053	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	10	00	00 177
E5	DIV41	054	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 037
E4	DIV2	055	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	00 231
E5	DIV42	056	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 177
E4	DIV8	057	6	0	0	0	0	1	0	0	0	06	00	00	2	0	0	0	00	00 060
E4	DIV9	060	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 061
E4	DIV10	061	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	01	12 031
E4	DIV15	062	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	01	12 031
E2	ASH4	063	6	0	3	1	1	0	0	0	0	0	0	0	3	0	0	10	00	00 063
F2	ADD3	064	6	0	0	0	0	1	0	0	10	06	00	00	2	0	0	0	00	00 320
E4	DIV17	065	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 066
E4	DIV18	066	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 035
E2	ASH14	067	4	0	0	0	0	1	0	0	0	32	00	00	0	0	0	0	00	00 127
E5	DIV34	070	2	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	00	00 050
E5	DIV24	071	2	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	00	00 045
F2	ADD17	072	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	00	00 301
073			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 000
E5	DIV39	074	6	0	3	0	1	0	0	0	0	11	01	17	2	0	0	10	00	00 051
E3	MUL5	075	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 110
E4	DIV6	076	6	0	0	0	0	1	0	0	10	06	00	00	2	0	0	0	00	00 024
E2	ASH13	077	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	11	01	01 206

NOTE:

THE COMPLEMENT OF THE ACTUAL
ROM OUTPUT FOR THE UPF, WR,
SPS(HIGH 2 BITS), BUS (LOW BIT),
AND CLK (LOW BIT) FIELD IS
LISTED FOR CLARITY.

FLOWS STATE		ADR	CON	FC1	FUB	MHR	FRD	ERD	SRD	SDR	CVM	NZM	CCC	GPC	CEE	CNT	EUB	CBR
E2	ASH9	040	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0
F4	FML4	041	0	0	0	0	1	0	3	0	0	0	0	6	0	0	0	0
F5	FDV23	042	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
F4	FML3	043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
E2	ASH16	044	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	0
E5	DIV25	045	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1
E2	ASH10	046	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	0
E5	DIV29	047	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0
E5	DIV37	050	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
E5	DIV40	051	0	0	0	0	0	0	0	0	5	2	7	0	0	0	0	0
E5	DIV35	052	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0
E5	DIV26	053	0	0	0	0	0	0	0	0	5	2	7	0	0	0	0	0
E5	DIV41	054	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0
E4	DIV2	055	0	0	0	0	0	0	0	0	0	0	0	0	0	2	04	1
E5	DIV42	056	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV8	057	0	0	0	0	0	0	0	0	3	0	0	4	0	0	0	1
E4	DIV9	060	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV10	061	0	0	0	0	0	0	0	0	1	1	7	0	0	0	03	0
E4	DIV15	062	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
E2	ASH4	063	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
F2	ADD3	064	0	0	0	0	0	0	0	0	4	0	1	0	0	1	10	1
E4	DIV17	065	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV18	066	0	0	0	0	0	0	2	0	0	0	0	0	0	1	07	0
E2	ASH14	067	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV34	070	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	1
E5	DIV24	071	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
F2	ADD17	072	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
073			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV39	074	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
E3	MUL5	075	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1
E4	DIV6	076	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
E2	ASH13	077	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS		CHK
CHANGE NO.	REV.	

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TITLE FIS BOARD	
(ADRS 040 - 077)	
DRN. <i>R. G. G. G.</i>	DATE 8-16-72
CHKD. <i>E. J. J. J.</i>	DATE 8-17-72
ENG. <i>E. J. J. J.</i>	DATE 8-17-72
PROF. ENG. <i>E. J. J. J.</i>	DATE 8-17-72
MOD. <i>E. J. J. J.</i>	DATE 8-17-72
SHEET 6 OF 12	DIST.
SIZE CODE CACS	NUMBER M7239-0-1
REV. B	

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FLOWS STATE		ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
E1	E10	100	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV28	101	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	11	01 021
E1	E13	102	2	0	3	1	0	0	0	0	0	0	0	0	2	0	0	0	01	14 007
E5	DIV32	103	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	11	01 023
E5	DIV30	104	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	11	01 021
E5	DIV36	105	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	11	01 050
E5	DIV38	106	2	0	3	1	0	0	0	0	0	0	0	0	2	0	0	0	10	00 074
E5	DIV22	107	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	11	01 021
E3	MUL6	110	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	10	00	133
E3	MUL22	111	4	0	0	0	1	0	0	0	0	23	00	00	0	0	0	0	00	00 113
E3	MUL21	112	4	0	0	0	1	0	0	10	0	06	00	00	0	0	0	0	00	00 111
E3	MUL23	113	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	11	01 114
E3	MUL27	114	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	10	00	133
E3	MUL25	115	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	00	00 141
E3	MUL24	116	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 115
		117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 000
F2	ADD0	120	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	01	13 251
F1	FP1	121	2	0	3	1	0	0	0	0	0	0	0	0	1	0	0	0	01	11 125
F2	SUB0	122	6	0	0	0	1	0	0	0	0	20	00	00	2	0	0	0	00	00 120
E2	ASH6	123	6	0	3	1	1	0	0	0	0	11	00	00	2	0	0	10	00	123
F4	FML0	124	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 177
F1	FP2	125	7	0	3	0	1	1	1	0	0	11	02	17	2	0	0	0	04	00 131
F5	FDV0	126	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	00	00 004
E2	ASH20	127	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 177
F4	FML1	130	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	01	14 132
F1	FP3	131	2	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	01	13 151
F4	FML2	132	6	0	3	0	1	0	0	0	0	11	00	00	2	0	0	0	01	15 041
E3	MUL9	133	6	0	0	0	1	0	0	14	0	0	0	0	3	0	0	0	00	00 133
F5	FDV20	134	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	00	00 154
F1	FP5	135	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	01	11 155
F6	NOM6	136	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	01	15 305
E3	MUL10	137	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	00	00 167

NOTE:
THE COMPLEMENT OF THE ACTUAL
ROM OUTPUT FOR THE UPF, WR,
SPS (HIGH 2 BITS), BUS (LOW BIT),
AND CLK (LOW BITS) FIELD IS
LISTED FOR CLARITY.

FLOWS STATE ADR CON FC1 FUB MHR FRD ERD SHD SDR CVM NZM CCC GPC CEE CNT EUB CBR

E1	E10	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	1	
E5	DIV28	101	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
E1	E13	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV32	103	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1
E5	DIV30	104	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
E5	DIV36	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV38	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV22	107	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
E3	MUL6	110	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	00	0	0
E3	MUL22	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	04	0	0
E3	MUL21	112	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	10	0	0
E3	MUL23	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL27	114	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	00	0	0
E3	MUL25	115	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0
E3	MUL24	116	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
		117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F1	FP1	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	SUB0	122	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
E2	ASH6	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML0	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F1	FP2	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV0	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH20	127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML1	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F1	FP3	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML2	132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL9	133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV20	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F1	FP5	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM6	136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL10	137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS		CHK
REV	CHANGE NO.	

DRN	DATE	8-16-72
CHK'd	DATE	8-17-72
ENG	DATE	8-17-72
PROJ. ENG.	DATE	8-17-72
PROD. ENG.	DATE	8-18-72

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TITLE FIS BOARD	
(ADRS 100-137)	
SIZE CODE C	NUMBER M7239-0-1
REV. CS	REV. B

SHEET	7	OF	12
DIST.			

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NOTE:

THE COMPLEMENT OF THE ACTUAL ROM OUTPUT FOR THE UPF,WR, SPS(HIGH 2 BITS), BUS(LOW BIT), AND CLK(LOW BIT) FIELD IS LISTED FOR CLARITY.

Flows	State	ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
F0	NOM14	140	6	0	3	1	1	0	0	00	0	11	01	17	2	0	00	01	15	142
E3	MUL26	141	2	0	3	0	0	0	0	00	0	00	00	00	2	0	00	10	00	177
F6	EX10	142	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	00	00	332
E5	MUL11	143	4	0	0	0	1	0	0	00	0	20	00	00	0	0	00	00	00	005
F1	FP12	144	2	0	3	0	1	0	0	00	0	00	00	00	2	0	00	01	11	244
E1	DST12	145	2	0	3	1	0	0	0	00	0	00	00	00	1	0	00	01	12	275
F1	FP10	146	6	0	3	1	1	0	0	00	0	23	00	00	2	0	00	01	13	252
E4	DIV14	147	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	10	00	062
F4	FML5	150	6	0	3	0	1	0	0	00	0	06	00	00	2	0	00	01	15	365
F1	FP4	151	6	0	3	0	1	0	0	00	0	11	00	00	2	0	00	01	13	135
E4	DIV20	152	0	0	0	0	0	0	0	00	0	00	00	00	0	0	00	00	00	000
E4	DIV20	153	6	0	0	0	1	0	0	14	0	00	00	00	2	0	00	00	00	153
F6	NOM1	154	6	0	3	0	1	0	0	00	0	11	01	17	2	0	00	01	15	324
F1	FP6	155	6	0	3	1	1	0	0	00	0	11	00	00	2	0	00	01	11	175
F6	NOM8	156	6	0	0	0	0	0	0	00	0	00	00	00	0	0	00	00	00	174
E5	DIV21	157	4	0	0	0	1	0	0	00	0	00	00	00	2	0	00	00	00	107
F5	FDV6	160	4	0	0	0	1	0	0	00	0	11	00	00	0	0	00	00	00	344
F6	EX14	161	6	0	0	1	0	0	0	00	0	00	00	00	0	0	00	00	00	256
F5	FDV5	162	6	0	3	1	1	0	0	00	0	23	00	00	2	0	00	01	15	176
F2	ADD13	163	4	0	0	0	1	0	0	10	0	06	00	00	0	0	00	00	00	340
F2	ADD5	164	2	0	0	1	0	0	0	00	0	00	00	00	0	0	00	01	11	165
F2	ADD6	165	4	0	0	0	1	0	0	00	0	06	00	00	0	0	00	00	00	202
F5	FDV3	166	4	0	0	0	1	0	0	00	0	00	00	00	0	0	00	00	00	350
E5	MUL20	167	2	0	3	0	0	0	0	00	0	00	00	00	2	0	00	10	00	143
E1	DST4	170	3	0	3	0	0	0	1	00	0	00	00	00	2	0	00	04	00	271
F5	FDV11	171	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	01	10	042
F4	FML8	172	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	01	10	210
F5	FDV13	173	6	0	0	0	1	0	0	14	0	00	00	00	2	0	00	00	00	331
F6	NOM9	174	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	00	00	273
F1	FP7	175	4	0	0	1	0	0	0	00	0	32	00	16	0	0	00	00	00	367
F6	NOM3	176	2	0	0	0	1	0	0	06	0	00	00	00	1	0	00	04	00	220
F2	ASH15	177	6	0	0	0	0	0	0	00	7	00	00	00	0	0	00	00	00	323

FLOWS STATE ADR CON FC1 FUB MHR FRD ERD SRD SDR CVM NZM CCC GPC CEE CNT EUB CBR

[illegible]

REVISIONS	
CHANGE NO.	REV.

DRN	DATE
G. Buderth	8-16-72
CHKD.	DATE
Hayward.	8-17-72
ENG	DATE
59 Hayward	8-17-72
POOLING	DATE
178 from J	8-17-72
PROD.	DATE
2750 mg	8-17-72

digital	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
	TITLE	
FIS BOARD		
(ADRS 140-177)		
SIZE CODE	NUMBER	REV.
C CS	M7239-0-1	B

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Flows	State	ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
F2	ADD39	200	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	13 072
E3	MUL0	201	6	0	0	0	0	0	0	0	0	32	12	17	2	0	0	0	0	00 014
F2	ADD7	202	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	11 300
E4	DIV0	203	6	0	0	0	0	0	0	0	0	32	12	17	2	0	0	0	0	00 303
E3	MUL8	204	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 001
E2	ASH0	205	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 311
E2	ASH19	206	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01 127
E2	ASH7	207	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01 551
F4	FML9	210	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 212
F5	FDV24	211	6	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	00 032
F4	FML10	212	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01 13 213
F4	FML11	213	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 232
F6	NOM11	214	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 216
F2	ADD16	215	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 13 200
F6	NOM12	216	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 234
F4	FML18	217	6	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	00 330
F6	EX17	220	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 336
E1	DST15	221	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01 12 241
F6	EX13	222	6	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	00 224
E2	ASH11	223	6	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	00 223
F6	EX112	224	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 161
F2	ADD10	225	6	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	00 245
F2	ADD15	226	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 215
E2	ASH12	227	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 077
F4	FML16	230	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01 11 250
E4	DIV3	231	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 020
F4	FML12	232	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	00 304
F3	ADD35	233	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 360
F6	NOM13	234	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 140
F1	FP9	235	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 144
F6	EX11	236	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 254
F3	ADD25	237	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	00 341

NOTE:

THE COMPLEMENT OF THE ACTUAL
ROM OUTPUT FOR THE UPF, WR,
SPS (HIGH 2 BITS), BUS (LOW BIT),
AND CLK (LOW BIT) FIELD IS
LISTED FOR CLARITY.

Flows State ADR CON FC1 FUB MHR FRD ERD SRD SDR CVM NZM CCC GPC CEE CNT EUB CBR

F2	ADD39	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL0	201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD7	202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV0	203	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
E3	MUL8	204	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
E2	ASH0	205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH19	206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH7	207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML9	210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV24	211	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML10	212	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML11	213	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM11	214	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD16	215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM12	216	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML18	217	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	EX17	220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E1	DST15	221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	EX13	222	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH11	223	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	EX112	224	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD10	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD15	226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH12	227	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML16	230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV3	231	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML12	232	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD35	233	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM13	234	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F1	FP9	235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	EX11	236	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD25	237	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REV	CHANGES NO.	REVISIONS

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TITLE FIS BOARD	
(ADRS 200-237)	
SIZE CODE C	NUMBER M7239-0-1
REV. B	

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

FLOWS STATE		ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
E1	EI2	240	4	0	0	0	1	0	0	0	0	32	00	17	0	0	0	00	00	102
E1	DST16	241	5	0	0	0	0	0	1	0	0	0	00	00	0	0	0	04	00	265
F1	FP0	242	3	0	0	0	0	0	1	0	0	0	00	00	2	1	00	04	00	121
E2	ASH17	243	6	0	3	1	1	0	0	0	0	11	00	00	2	0	00	10	00	243
F1	FP13	244	7	0	3	0	1	1	1	0	0	11	02	17	2	0	00	04	00	121
F2	ADD11	245	2	0	0	1	0	0	0	0	0	00	00	00	0	0	00	01	14	373
F1	FP14	246	2	0	0	1	0	0	0	0	0	00	00	00	0	0	00	00	00	255
F2	ASH18	247	4	0	0	0	1	0	0	0	0	00	00	00	0	0	00	00	00	077
F4	FML17	250	6	0	0	0	1	0	0	0	0	11	00	00	2	0	00	00	00	213
F2	ADD1	251	4	0	0	0	1	0	0	0	0	06	00	00	0	0	00	00	00	300
F1	FP11	252	2	0	3	0	1	0	0	0	0	00	00	00	2	0	00	01	11	244
F4	BRQ2	253	6	0	0	1	0	0	0	0	0	00	00	00	0	0	00	00	00	355
F6	EX12	254	2	0	3	0	0	0	0	0	0	00	00	00	2	0	00	01	14	220
F1	FP15	255	6	0	0	0	1	0	0	0	0	26	00	00	0	0	00	00	00	120
F6	EX15	256	6	0	0	0	0	0	0	0	7	00	00	00	0	0	00	00	00	354
F4	BRQ3	257	6	0	0	1	0	0	0	0	0	00	00	00	0	0	00	00	00	355
E1	DST0	260	4	0	0	0	1	0	0	0	0	00	00	00	0	0	00	04	00	261
E1	DST1	261	2	0	3	1	0	0	0	0	0	00	00	00	2	0	00	01	12	201
E1	DST10	262	3	0	0	0	0	0	1	1	0	00	00	00	0	1	00	04	00	271
F4	FML7	263	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	01	12	172
E1	DST2	264	4	0	0	0	1	1	0	0	0	11	02	17	0	1	00	04	00	170
E1	DST6	265	2	0	3	1	0	0	0	0	0	00	00	00	1	0	00	01	12	366
E1	DST5	266	7	0	3	0	1	1	1	0	0	11	02	17	2	1	00	04	00	265
F5	FDV10	267	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	171
E1	DST3	270	4	0	0	0	1	1	0	0	0	06	01	17	0	0	00	04	00	170
E1	DST8	271	2	0	3	1	0	0	0	0	0	00	00	00	1	0	00	01	12	201
E1	DST9	272	7	0	0	0	1	1	1	0	0	06	01	17	0	0	00	04	00	265
F6	NOM10	273	6	-0	0	0	1	0	0	0	0	11	00	00	2	0	00	00	00	214
E1	DST11	274	7	0	3	0	1	0	1	0	0	11	02	17	2	0	00	01	07	145
E1	DST13	275	5	0	0	0	0	1	1	0	0	11	00	00	0	0	00	04	00	271
E1	DST14	276	7	0	3	0	1	0	1	0	0	11	02	17	2	0	00	01	07	221
F4	FML15	277	6	0	0	0	1	0	0	0	0	11	00	00	2	0	00	00	00	230

NOTE:
THE COMPLEMENT OF THE ACTUAL
ROM OUTPUT FOR THE UPF, WR,
SPS (HIGH 2 BITS), BUS (LOW BIT),
AND CLK (LOW BIT) FIELD IS LISTED
FOR CLARITY.

FLOWS STATE ADR CON FC1 FUB MHR FRD EHD SRD SDR CVM NZM CCC GPC CEE CNT EUB CBR

E1	E12	240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
E1	DST16	241	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
F1	FP0	242	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
E2	ASH17	243	0	0	0	0	0	0	1	2	3	0	3	3	0	1	10	1	
F1	FP13	244	0	0	0	7	0	0	0	0	0	2	4	0	0	0	00	0	
F2	ADD11	245	0	0	0	0	0	0	0	3	0	3	4	0	0	0	00	0	
F1	FP14	246	0	0	0	0	0	1	1	0	0	0	0	0	0	0	15	0	
F2	ASH18	247	0	0	0	0	0	0	1	1	0	0	0	0	0	0	00	0	
F4	FML17	250	2	0	0	0	0	1	1	3	0	0	0	4	0	0	00	1	
F2	ADD1	251	0	0	0	0	0	0	0	0	4	0	1	0	0	0	00	0	
F1	FP11	252	0	0	0	0	0	0	1	0	0	0	0	0	0	0	00	0	
F4	BRQ2	253	2	0	0	0	0	1	0	3	0	0	0	0	0	0	00	0	
F6	EX12	254	0	1	0	0	0	0	0	0	0	0	0	0	0	0	00	0	
F1	FP15	255	0	0	0	0	1	0	0	0	0	0	0	0	0	0	00	1	
F6	EX15	256	0	0	0	0	0	1	0	0	0	0	0	0	1	0	00	0	
F4	BRQ3	257	2	0	0	0	1	0	3	0	0	0	0	0	0	0	00	0	
E1	DST0	260	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	
E1	DST1	261	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	1	
E1	DST10	262	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	
F4	FML7	263	0	0	0	0	0	0	0	0	0	0	0	0	0	2	00	1	
E1	DST2	264	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0	
E1	DST6	265	3	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0	
E1	DST5	266	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0	
F5	FDV10	267	0	0	0	0	0	0	0	3	0	0	0	0	0	0	00	1	
E1	DST3	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0	
E1	DST8	271	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0	
E1	DST9	272	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	1	
F6	NOM10	273	0	0	0	0	0	0	1	0	0	0	0	4	0	0	10	1	
E1	DST11	274	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0	
E1	DST13	275	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	
E1	DST14	276	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0	
F4	FML15	277	0	0	0	0	0	0	1	3	4	0	1	0	0	0	00	0	

REVISIONS		CHANGE NO.	REV.

DRN	<i>P. Paul</i>	DATE	8-16-72
CHWD	<i>P. Bygones</i>	DATE	8-17-72
ENG	<i>P. Bygones</i>	DATE	8-17-72
PROJ ENG	<i>P. Bygones</i>	DATE	8-17-72
PROD	<i>P. Bygones</i>	DATE	8-17-72

digital EQUIPMENT CORPORATION WAYNARD, MASSACHUSETTS	
TITLE FIS BOARD	
(ADRS 240-277)	
SIZE CODE C CS	NUMBER M7239-0-1
REV. B	

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FLOWS STATE		ADR	CLK	CIR	WH	CH	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
F2	ADD2	300	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD18	301	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD4	302	6	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
E4	DIV1	303	4	0	0	0	1	0	0	0	0	32	0	0	0	0	0	0	0	0
F4	FML13	304	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM7	305	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML14	306	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM5	307	4	0	0	0	1	0	0	0	0	06	0	0	0	0	0	0	0	0
F2	ADD21	310	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
E2	ASH1	311	6	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV19	312	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
F3	ADD27	313	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD33	314	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD32	315	6	0	0	0	1	0	0	0	0	11	0	0	2	0	0	0	0	0
F5	FDV16	316	6	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0
F3	ADD30	317	6	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0
F2	ADD8	320	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD19	321	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD9	322	2	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0
E2	ASH21	323	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM4	324	2	0	0	0	0	0	1	0	06	0	0	0	1	0	0	0	0	0
F2	ADD20	325	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM2	326	6	0	3	1	1	0	0	0	0	23	0	0	0	0	0	0	0	0
F6	NOM0	327	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML19	330	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV14	331	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	EX114	332	4	0	0	0	1	0	0	0	0	32	0	0	0	0	0	0	0	0
F5	FDV12	333	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD34	334	6	0	0	0	1	0	0	10	0	06	0	0	2	0	0	0	0	0
F3	ADD37	335	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	EX18	336	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV17	337	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE:
THE COMPLEMENT OF THE
ACTUAL ROM OUTPUT FOR THE
UPF, WR, SPS (HIGH 2 BITS), BUS
(LOW BIT), AND CLK (LOW BIT)
FIELD IS LISTED FOR CLARITY.

FLOWS STATE ADR CON FC1 FUB MHR FRD ERD SRD SDR CVM NZM CCC GPC CEE CNT EUB CBR

F2	ADD2	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD18	301	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD4	302	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV1	303	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML13	304	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM7	305	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0
F4	FML14	306	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
F6	NOM5	307	0	0	1	2	0	0	0	2	0	0	0	0	5	0	0	0	0	0
F2	ADD21	310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH1	311	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
F5	FDV19	312	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD27	313	2	0	0	1	0	0	1	1	0	0	0	0	7	0	0	1	0	0
F3	ADD33	314	0	0	0	0	1	0	1	3	0	2	4	0	0	0	0	0	0	0
F3	ADD32	315	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
F5	FDV16	316	0	0	0	6	0	1	2	2	0	0	0	0	0	0	0	0	0	0
F3	ADD30	317	0	0	0	0	1	0	1	0	4	0	1	0	0	0	0	0	0	0
F2	ADD8	320	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD19	321	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
F2	ADD9	322	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH21	323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM4	324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD20	325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM2	326	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM0	327	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML19	330	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV14	331	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	EX114	332	0	0	0	0	0	0	0	0	5	2	5	0	0	0	1	0	0	0
F5	FDV12	333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD34	334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD37	335	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	EX18	336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV17	337	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS		CHK
REV	CHANGE NO.	

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE FIS BOARD		(ADRS 300-337)		NUMBER M7239-0-1		REV. B	
DRN	DATE 8-16-72	CHKD	DATE 8-17-72	ENG	DATE 8-17-72	PROD. ENG.	DATE 8-19-72	PROD.	DATE 8-18-72
R. G. Enders		P. J. Maynard		P. J. Maynard		J. J. Maynard		J. J. Maynard	
SHEET 11		OF 12		DIST. 1		C		CS	

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FLOWS STATE		ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
F3	ADD22	340	6	0	0	1	1	0	0	0	0	14	00	00	2	0	00	01	13	017
F3	ADD26	341	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	313
F2	ADD14	342	2	0	0	0	0	0	0	0	0	00	00	00	2	0	00	00	226	0
F3	ADD28	343	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	317
F5	FDV7	344	2	0	3	0	0	0	0	0	0	00	00	00	2	0	00	01	15	346
F5	FDV8	345	0	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	000
F5	FDV8	346	6	0	0	0	1	0	0	0	0	11	02	17	2	0	00	00	00	364
F3	ADD31	347	2	0	0	1	0	0	0	0	0	00	00	00	0	0	00	01	11	315
F5	FDV4	350	2	0	3	0	0	0	0	0	0	00	00	00	2	0	00	01	14	222
E2	ASH8	351	6	0	0	1	1	0	0	0	0	00	00	00	2	0	00	10	00	040
F5	FDV18	352	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	312
F3	BRQ0	353	2	0	0	1	0	0	0	0	0	00	00	00	0	0	00	00	00	355
F6	EXI6	354	6	0	3	0	1	0	0	10	0	06	00	00	2	0	00	04	00	007
F4	BRQ4	355	6	0	3	0	1	0	0	10	0	06	00	00	2	0	00	04	00	375
F6	EXI9	356	6	0	3	0	1	1	0	06	0	06	01	17	2	0	00	04	00	374
F5	BRQ1	357	2	0	0	1	0	0	0	0	0	00	00	00	0	0	00	00	00	355
F3	ADD38	360	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	327
F3	ADD24	361	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	237
F3	ADD36	362	6	0	0	1	1	0	0	0	0	06	00	00	2	0	00	00	00	335
F3	ADD29	363	2	0	0	0	0	0	0	0	0	00	00	00	2	0	00	00	00	314
F5	FDV9	364	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	327
F4	FML6	365	6	0	0	0	0	0	0	0	0	00	00	00	0	0	00	01	12	267
E1	DSI7	366	3	0	0	0	0	1	1	0	0	00	00	00	0	1	00	00	00	263
F1	FP8	367	2	0	3	0	0	0	0	0	0	00	00	00	2	0	00	01	15	235
F5	FDV15	370	6	0	0	0	1	0	0	0	0	11	00	00	2	0	00	00	00	316
F5	BRQ6	371	6	0	0	1	0	0	0	0	0	00	00	00	0	0	00	00	00	355
F5	FDV22	372	6	0	0	0	1	0	0	0	0	06	00	00	2	0	00	00	00	316
F2	ADD12	373	6	0	0	1	1	0	0	10	0	06	00	00	2	0	00	01	15	163
F6	EXI10	374	5	0	0	0	1	0	1	00	0	32	00	00	0	0	00	00	00	376
F6	BRQ5	375	6	0	3	0	1	0	0	0	0	06	01	17	2	0	00	01	07	017
F6	EXI11	376	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	177
E1	EI1	377	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	240

NOTE:
THE COMPLEMENT OF THE
ACTUAL ROM OUTPUT FOR
THE UPF, WR, SPS (HIGH 2 BITS),
BUS (LOW BIT), AND CLK
(LOW BIT) FIELD IS LISTED
FOR CLARITY.

FLOWS STATE ADR CON FC1 FUB MHR FRD ERD SRD SDR CVM NZM CCC GPC CEE CNT EUB CBR

F3	ADD22	340	0	0	1	0	0	0	0	0	0	4	0	1	0	0	1	03	1
F3	ADD26	341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	0
F2	ADD14	342	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1
F3	ADD28	343	0	0	0	2	0	0	1	2	0	0	0	5	0	0	0	00	0
F5	FDV7	344	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	10	0
F5	FDV8	345	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
F3	ADD31	347	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	00	0
F5	FDV4	350	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	00	0
E2	ASH8	351	0	0	0	0	0	0	3	3	0	0	0	0	0	0	1	00	1
F5	FDV18	352	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	00	0
F3	BRQ0	353	2	0	0	0	1	0	3	0	0	0	0	0	0	0	0	00	0
F6	EXI6	354	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
F4	BRQ4	355	0	0	0	0	0	0	0	0	0	0	0	0	1	0	00	0	0
F6	EXI9	356	0	1	0	0	0	0	0	0	0	0	0	0	0	0	00	0	0
F3	BRQ1	357	2	0	0	0	1	0	3	0	0	0	0	0	0	0	0	00	0
F3	ADD38	360	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	00	0
F3	ADD24	361	0	0	1	0	0	1	2	0	0	0	0	0	0	0	02	1	
F3	ADD36	362	0	0	0	3	0	0	1	0	0	0	0	4	0	0	00	1	
F3	ADD29	363	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1	
F5	FDV9	364	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	00	1
F4	FML6	365	3	0	0	0	1	0	3	0	0	0	0	0	0	0	0	00	1
E1	DSI7	366	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	
F1	FP8	367	0	0	0	0	0	0	3	0	0	2	4	0	0	0	0	04	0
F5	FDV15	370	0	0	0	0	0	1	1	3	4	0	1	4	0	0	0	10	1
F5	BRQ6	371	2	0	0	0	1	0	3	0	0	0	0	0	0	0	0	00	0
F5	FDV22	372	0	0	0	0	1	0	1	3	4	0	1	4	0	0	0	10	1
F2	ADD12	373	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01	1
F6	EXI10	374	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
F6	BRQ5	375	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
F6	EXI11	376	0	0	0	0	0	0	0	0	0	2	7	0	0	0	0	00	0
E1	EI1	377	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	00	0

REVISIONS		CHANGE NO	REV.

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TITLE FIS BOARD	
(ADRS 340-377)	
SIZE CODE C CS	NUMBER M7239-0-1
REV. B	
SHEET 12 OF 12	
DATE 8-16-72	DATE 8-16-72
CHK'D J. Kennedy	DATE 8-16-72
ENG. J. Kennedy	DATE 8-16-72
PROG. MGR. J. Kennedy	DATE 8-16-72
PROG. MGR. J. Kennedy	DATE 8-16-72

[illegible]

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