

Notes on Neg. Bus Installation, or PDP8,

on pages: CI 1  
CI 2  
CI 3  
CAR 8  
PBC 1  
DBC 2  
DBC 3

**digital**

**FPP 12**

**Engineering Drawings**

Digital Equipment Corporation

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PRINT SET					DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE	OPTION NO.	
FPP12-0										
X				D-BS-FPP12-0-FTH1		1	FETCH 1			
X				D-BS-FPP12-0-FTH2		1	FETCH 2			
X				D-BS-FPP12-0-FTH3		1	FETCH 3			
X				D-BS-FPP12-0-ID1		1	INSTRUCTION DECODER 1			
X				D-BS-FPP12-0-ID2		1	INSTRUCTION DECODER 2			
X				D-BS-FPP12-0-MLSW	A	6	MULTIPLEXER-LEAST SIG WORD			
X				D-BS-FPP12-0-MMSW		6	MULTIPLEXER-MOST SIG WORD			
X				D-BS-FPP12-0-MQR1	A	2	MULTIPLEXER QUOTIENT REG 1			
X				D-BS-FPP12-0-RG1	A	1	REGISTER GATING 1			
X				D-BS-FPP12-0-RG2	C	1	REGISTER GATING 2			
X				D-BS-FPP12-0-RG3	B	1	REGISTER GATING 3			
X				D-BS-FPP12-0-RG4	B	1	REGISTER GATING 4			
X				D-BS-FPP12-0-RG5		1	REGISTER GATING 5			
X				D-BS-FPP12-0-RG6	A	1	REG. GATING (ENABLES FOR M190)			
X				D-BS-FPP12-0-RG7	A	1	MULTIPLEXER ENABLES 1			
X				D-BS-FPP12-0-RG8	A	1	MULTIPLEXER ENABLES 2			
X				D-BS-FPP12-0-RG9		1	MULTIPLEXER ENABLES 3			
X				D-BS-FPP12-0-RG10		1	MULTIPLEXER ENABLES 4			
X				D-BS-FPP12-0-SPI1	A	1	SPECIAL INSTRUCTIONS 1			
X				D-BS-FPP12-0-SPI2	B	1	SPECIAL INSTRUCTIONS 2			
X				D-BS-FPP12-0-SPI3		2	SPECIAL INSTRUCTIONS 3			
X				D-BS-FPP12-0-STG	B	2	STATE GEN			
X				D-BS-FPP12-0-STG1		1	STATE GEN JUMPS			
X				D-MU-FPP12-0-02	F	4	MODULE UTILIZATION			
X				A-PL-FPP12-0-02	F	2	MODULE UTILIZATION			
X				D-AD-7007220-0-0	A	2	WIRED ASSY (FPP12)			
X				A-PL-7007220-0-0	A	1	WIRED ASSY (FPP12)			
<b>TITLE</b>					<b>FLOATING POINT PROCESSOR</b>		<b>SHEET</b> 3 <b>OF</b> 4	<b>SIZE</b> A <b>CODE</b> ML	<b>NUMBER</b> FPP12-0	<b>REV.</b> R

PRINT SET					DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE	OPTION NO.	
FPP12-0										
X				D-IC-FPP12-0-IOC	A	1	I/O CONNECTORS			
X				K-WL-FPP12-0-04	L	1	WIRE LIST (FPP12)			
X				A-PL-H721-0-0	#	1	H721 POWER SUPPLY			
X				D-CS-H721-0-1	#	1	H721 CIRCUIT SCHEMATIC			
X				A-PL-854-0-0	#	1	POWER CONTROL 854 (PL)			
X				B-CS-854-0-1	#	1	POWER CONTROL 854			
X				D-UA-FPP12-0-0	B	2	FLOATING POINT PROCESSOR			
X				A-PL-FPP12-0-0	B	2	FLOATING POINT PROCESSOR			
				A-SP-FPP12-0-5	REF	33	ENGINEERING SPECIFICATION			
				A-SP-FPP12-0-6	REF	6	PRODUCTION CHECKOUT PROCEDURE			
				A-SP-FPP12-0-7	REF	5	ACCEPTANCE PROCEDURE			
X				A-SL-FPP12-0-8		1	SOFTWARE LIST			
<b>TITLE</b>					<b>FLOATING POINT PROCESSOR</b>		<b>SHEET</b> 4 <b>OF</b> 4	<b>SIZE</b> A <b>CODE</b> ML	<b>NUMBER</b> FPP12-0	<b>REV.</b> R





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D  
C  
B  
A

STG NAMES

ARS2 LD AMSW L  
ARS2 INC ARS ADDR L  
ARS2 LD FPC L  
ARS2 LD ALSW L  
ARS2 ENABLE A TO 0 L  
ARS2 INC ARS ADDR L  
ARS2 SET OP ADDR L

ARS2 LD P0 ADDR L  
ARS2 ENABLE X0 L

ARS2 INC ARS ADDR L  
ARS2 INC AGAIN L

ARS2 LD FAC EXP L  
ARS2 ENABLE FAC EXP L  
ARS2 INC ARS ADDR L  
ARS2 LD FAC MSW L  
ARS2 ENABLE AMSW L  
ARS2 INC ARS ADDR L  
ARS2 LD FAC LSW L  
ARS2 ENABLE ALSW L  
ARS2 ENABLE A TO 0 L  
ARS2 ENABLE 0 TO FAC L

THE SIGNAL ARS2 LD FAC LSW L CAUSES ENTRY INTO FETCH STATE B

INITIATE / INITIATE GATES APPEAR ON ARS 2

REQUEST OUTBRK USING ADRS (CAP1)	STATE 0
MB → AMSW FIELD BITS	0-1
INC ADRS	0-2
REQUEST OUTBRK USING ADRS	STATE 1
MB → ALSW	1-1
A → 0	1-2
INC ADRS	1-3
0 → OP ADDR	1-3
OP ADDR → FPC	1-4

STATE 2

REQUEST OUTBRK USING ADRS	2-1
MB → X0 ADDR	2-1

INC ADRS	2-2
----------	-----

REQUEST OUTBRK USING ADRS	3-1
MB → P0 ADDR	3-1

INC ADRS	3-2
INC ADRS	3-3

REQUEST OUTBRK USING ADRS	4-1
MB → FAC EXP	4-1
INC ADRS	4-2
REQUEST OUTBRK USING ADRS	STATE 5
MB → AMSW	5-1
INC ADRS	5-2
REQUEST OUTBRK USING ADRS	STATE 6
MB → ALSW	6-1
A → 0	6-2
0 → FAC FRACTION	6-3

MB9-11 → FPC F.B ALWAYS  
MB6-8 → X0 ADDR F.B  
MB3-5 → P0 ADDR F.B

+1 - APT Pointer

+1 - APT Pointer

CR4 SET BY AC05  
P+2

CR5 SET BY AC06  
P0 ADDR = BASE REG  
P+3

skip operand address loc. P+4  
THE ARS2 ADDR IS INCREMENTED TO SKIP OPERAND ADDRESS.

P+5 = exponent

P+6 = MSW

P+7 = LSW

FETCH / FETCH GATES APPEAR ON PRINTS FTH1-FTH3.

FTH ENABLE L  
FTH1 MB → FPC L  
FTH1 INC FPC L

REQUEST OUTBRK USING FPC & 0 → MQ	STATE 0
MB → FPC, 23 → A → FPC EXP → B	0-1
INC FPC, A MINUS B → 0	0-2

RG4 ZERO MQL  
123 → A, FAC EXP → B  
FOR JAL TEST

FIR3 = 0 &  
FIR4 = 0

FIR3 = 1 &  
FIR4 = 0

FIR3 = 1

FTH1 A PLUS A → 0 L  
FTH1 0 → B L  
FTH1 A PLUS B → 0 L  
FTH1 0 → A L  
FTH1 A PLUS B (ST2) → 0 L  
FTH1 0 → OP ADDR L

A PLUS A → 0	1-2
0 → B	1-3
A PLUS B → 0	1-4
0 → A + P0 ADDR + B	2-1
A PLUS B → 0	2-2
0 → OP ADDR	2-3

FIR3 = 1 OR MUL \* DIV OR D.P.

FTH1 INC OP ADDR L

FTH1 GO TO EXECUTE L

FTH2 ENABLE L

FTH2 MB TO MQLSW L  
FTH2 INC OP ADDR L  
FTH2 FPC6-B → ALSW L

FTH2 REQ OUTBRK L

FTH2 MB TO MQLSW L

FTH2 A PLUS B → 0 L  
FTH2 0 OP ADDR L  
FTH2 0 → 0 L

REQUEST OUTBRK USING OP ADDR	STATE 3
MB9-11 → MQMSW	3-1
INC OP ADDR	3-2
FIR6-FIRB → ALSW	3-4
B → AMSW	3-4
X0 ADDR → B	3-4

REQUEST OUTBRK USING OP ADDR	STATE 4
MB → MQ LSW	4-1

A PLUS B → 0	4-2
0 → OP ADDR	4-3
LOGICAL 0 → 0	4-4

FIRST USED ON OPTION/MOD		QTY.	DESCRIPTION	PART NO.	TEM. R.C.
PDP12			PARTS LIST		
UNLESS OTHERWISE SPECIFIED		DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
UNLESS OTHERWISE SPECIFIED		DATE	TITLE		
DIMENSION IN INCHES		12-15-72	FPP12		
TOLERANCES		DATE	FLOW DIAGRAM		
DECIMALS FRACTIONS ANGLES		12/14/72	#1		
= .005 = 1/64 = 0°30'		DATE	SCALE		
FINAL SURFACE QUALITY		12/18/72	A-ML- FPP12-0		
REMOVE BURRS AND BREAK SHARP CORNERS		DATE	D.F.D. FPP12-0-03		
MATERIAL		DATE	SHEET 1 OF 12		
NEXT HIGHER ASSY			DIST.		
FINISH			REV. E		

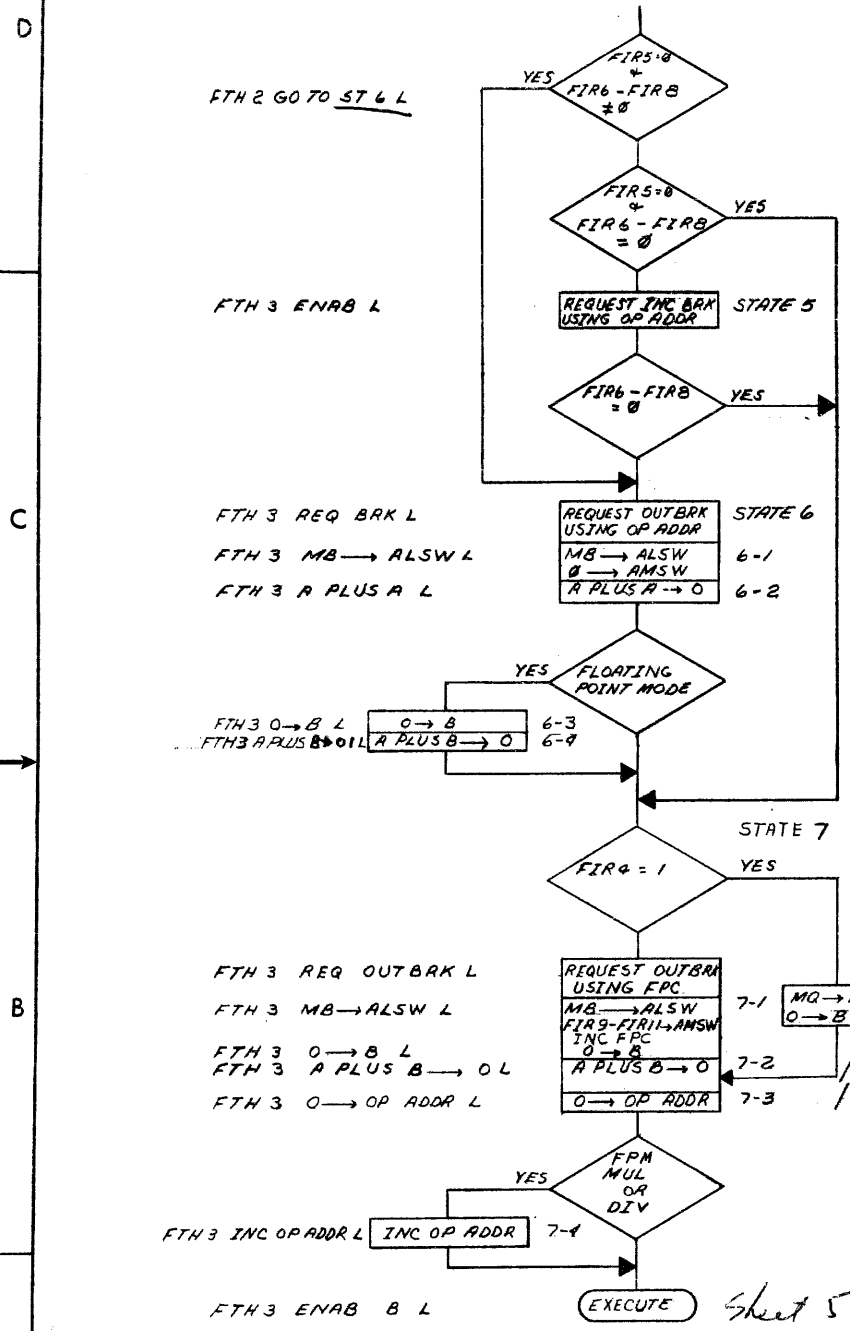
See Page 6-5 in User's Manual for Signal Name Definitions.

REV. NO.	REV.	DATE	BY
1	1	12-15-72	R. MOORE
2	2	12-15-72	R. MOORE
3	3	12-15-72	R. MOORE
4	4	12-15-72	R. MOORE
5	5	12-15-72	R. MOORE
6	6	12-15-72	R. MOORE
7	7	12-15-72	R. MOORE
8	8	12-15-72	R. MOORE

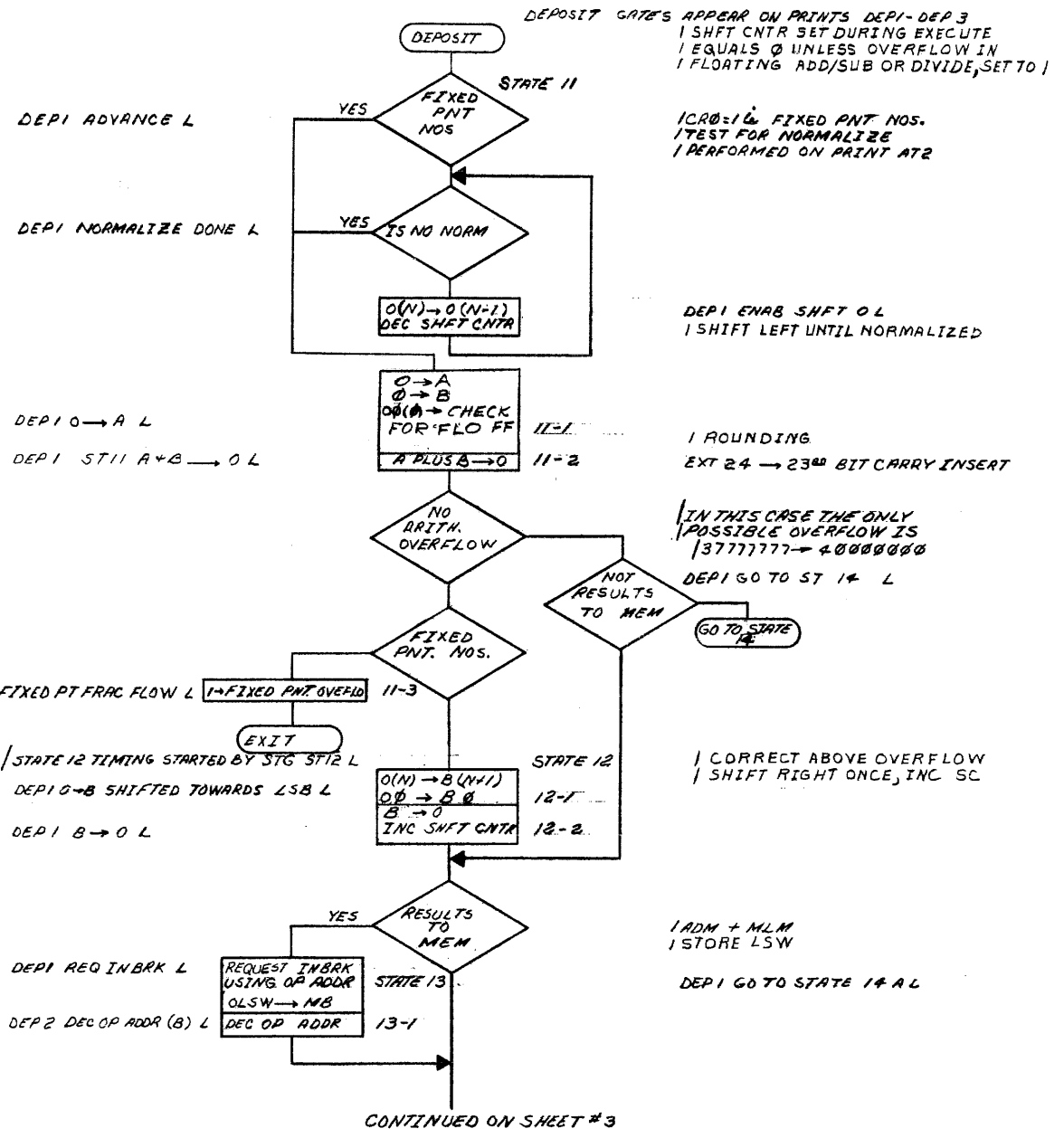
SIZE CODE D.F.D. FPP12-0-03

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CONTINUED FROM SHEET #1



| NO INC, INDEX ≠ 0  
 | NO INC, INDEX = 0  
 FTH 2 GO TO ST 7 L  
 THE CONTENT OF X0 PLUS C (FIR6-B) IS INCREMENTED ON INDEXED INSTRUCTIONS IF BIT 5 IS A 1.  
 FTH 3 SKIP TO 7 L  
 /BREAK FOR C (INDEX REG)  
 MULTIPLY C (INDEX REG) BY 2  
 IF FLOATING POINT MODE  
 ADD [C (INDEX REG) + 2 \* C (INDEX REG)]  
 INDEX MODIFIER CALCULATED - UNMODIFIED ADDR STORED  
 DOUBLE WORD - SECOND WORD (C (FPC))  
 SWI - C (MA)  
 FTH 3 MQ → A L  
 FTH 3 O → B L  
 AT THE CONCLUSION OF FETCH FOR DATA REFERENCE INSTRUCTIONS THE OPERAND ADDRESS POINTS AT:  
 (a) THE EXPONENT FOR FLOATING POINT LOAD, STORE, ADD, SUBTRACT  
 (b) THE MOST SIGNIFICANT WORD OF THE FRACTION FOR FIXED POINT OPERATION AND FLOATING-POINT MULTIPLIES AND DIVIDES.



REV	CHANGE NO.

FIRST USED ON OPTION/MOD PDP 12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED	DRN	DATE	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES	ENG	DATE	TITLE	
DECIMALS FRACTIONS ANGLES	PROJ. ENG.	DATE	FPP12 FLOW DIAGRAM #2	
± .005 ± .164 ± 0°30'	PRG'D	DATE	NEXT HIGHER ASSY	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	MATERIAL	DATE	A-ML-FPP12-0	
FINISH	SCALE	DATE	SIZE CODE NUMBER REV	
	SHEET 2 OF 12		D/FD/FPP12-0-03 E	

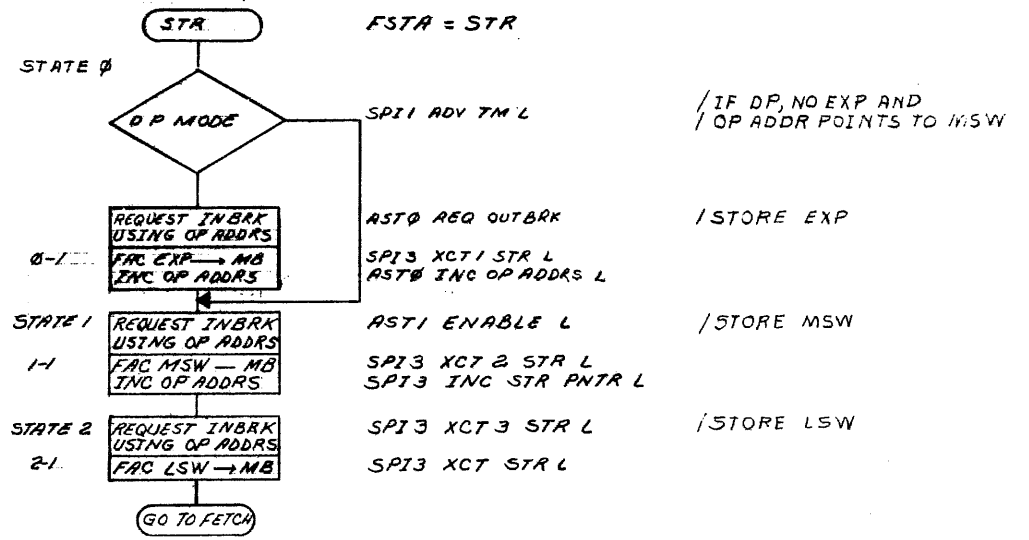
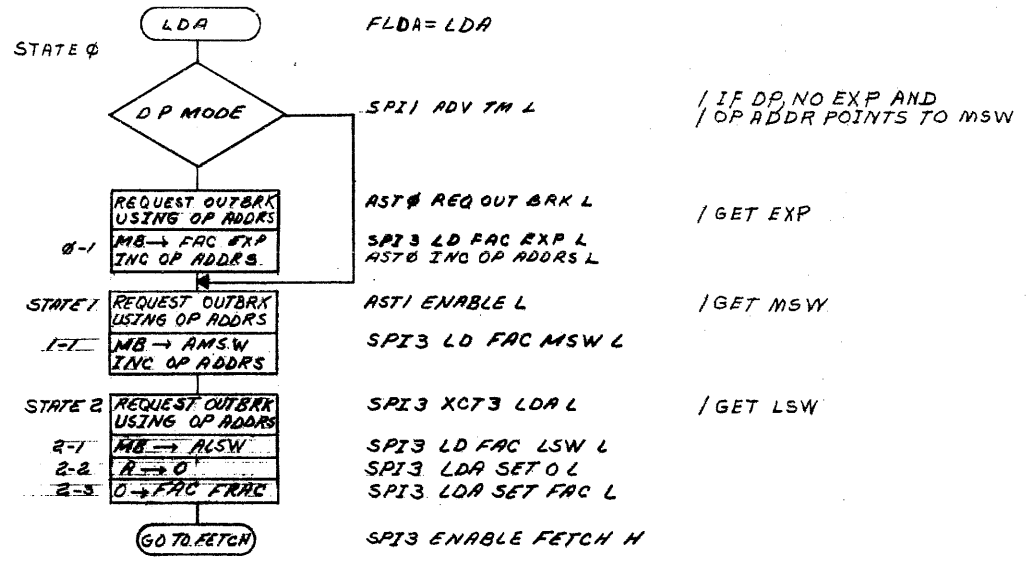




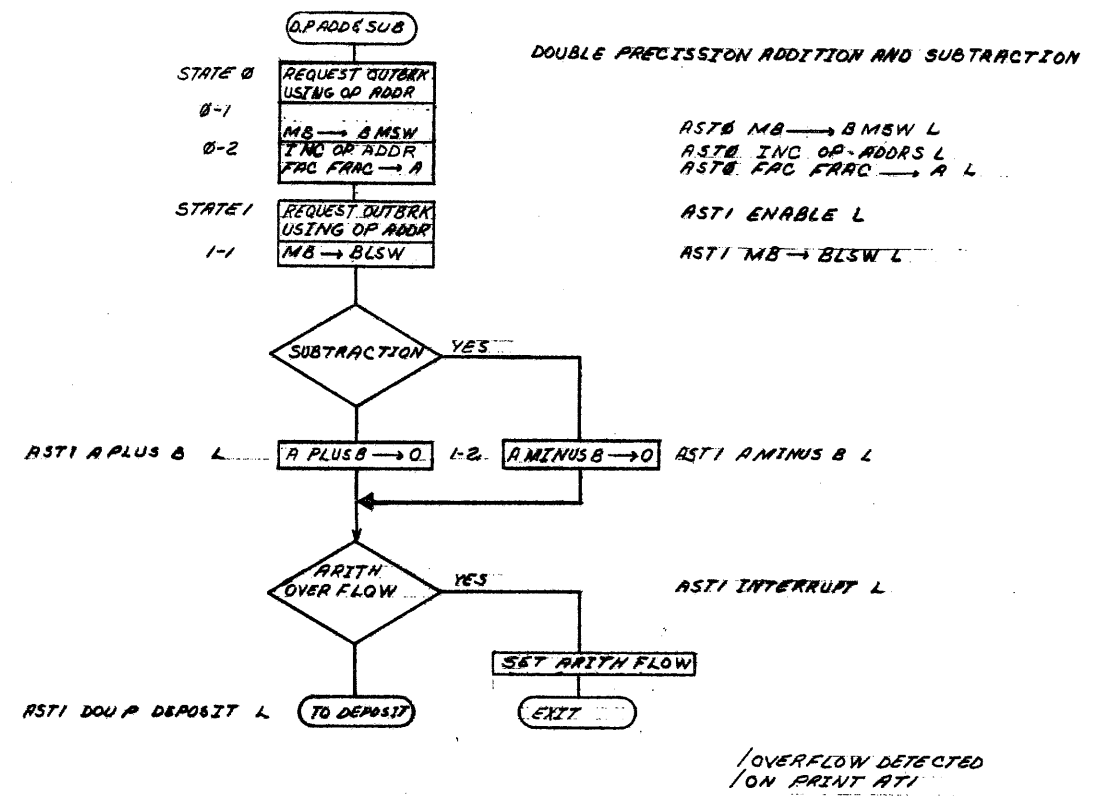
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REV. E  
NUMBER DFD/FPP12-0-03  
SIZE CODE 2

FLDA GATES FOUND ON PRINT SPI1 - SPI3



DOUBLE PRECISION ADDITION AND SUBTRACTION



Page 4 of 8 on Execute

FIRST USED ON OPTION/MOD PDP 12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRM/	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHKD/	DATE	TITLE	
TOLERANCES	ENG/	DATE	FPP 12	
DECIMALS FRACTIONS ANGLES	PROJ. ENG/	DATE	FLOW DIAGRAM	
= .005 = 1/64 = 0°30'	PROD/	DATE	# 4	
REMOVE BURRS AND BREAK SHARP CORNERS	NEXT HIGHER ASSY			
MATERIAL	A-ML-FPP12-0	SIZE CODE	NUMBER	REV.
FINISH	SCALE	DFD/FPP12-0-03		E
	SHEET 4 OF 12	DIST.		

REVISIONS	REV.
CHANGE NO.	
CHK	

DEC 1966 NO. 090 1024

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AST0 REQ OUTBRK L  
 AST0 EXP → BLSW L  
 AST0 REQ OUTBRK L  
 AST0 FAC EXP → ALSW L  
 AST0 A MINUS B → 0 L

ADD/SUB OF FR NOS  
 REQUEST OUTBRK USING OP ADDR STATE 0  
 MB → BLSW + MQLSW  
 SIGN EXTEND → BMSW  
 INC OP ADDR  
 FAC EXP → ALSW  
 SIGN EXTEND → AMSW  
 A MINUS B → 0 0-2

THE FRACTION TO BE SHIFTED MUST GO INTO THE B REGISTER, THE FRACTION TO BE SHIFTED IS THE ONE ASSOCIATED WITH THE SMALLEST EXPONENT.

THE OPERATION PREPARES TO TEST #SHIFTS. IF THE NUMBER OF SHIFTS IS GREATER THAN (2%) NO SHIFTING NEED BE DONE AND OVERSHT FF SET

SHFT FAC FRAC  
 AST0 SET SHFT FAC FRAC L  
 AST0 × 23 → A L

0 > 0  
 SET SHFT FAC FRAC  
 0 → SHFT CNTR 0-3  
 0 → B  
 + 27 → ALSW  
 0 → A MSW  
 A PLUS B → 0 0-4  
 REQUEST OUTBRK USING OP ADDR STATE 1

SHFT OPER AND 0 = 0  
 0 → SHFT CNTR 0-3  
 0 → B  
 + 27 → ALSW  
 0 → AMSW  
 A MINUS B → 0  
 INC SHFT CNTR 0-4  
 REQUEST OUTBRK USING OP ADDR STATE 1

AST0 SET SHFT OP FRAC L = 1041,111  
 AST0 + 23 → A L  
 AST0 A MINUS B → 0 / ADD SUB L

INCREMENTING SHIFT COUNTERS COMPLETES FORMING OF 2'S COMP OF # OF SHIFTS

AST0 A PLUS B → 0 L  
 AST1 ENABLE L

FOR SUB, A REG LOADED WITH COMP OF OPERAND

SUBTRACTION

AST1 MB → AMSW L  
 AST1 INC OP ADDR L  
 D13 H2 ON AST1

YES  
 MB → AMSW 1-1  
 INC OP ADDR 00 → OVERSHT FF 1-2  
 0 → B 1-3

NO  
 MB → BMSW 1-1  
 INC OP ADDR 00 → OVERSHT FF 1-2  
 FAC FRAC → A 1-3  
 A → 0

AST1 MB → BMSW L  
 AST1 INC OP ADDR L  
 D13 H2 ON AST1  
 AST1 FAC FRAC → A L  
 AST1 A → 0 L

AST1 0 → A (0 = 0) L

ADD ZERO FF  
 0 → A

0 = 0

FAC EXP → MQLSW 1-4

TEST FAC FRAC = 0  
 IF SO, NO SHIFTING NEED BE DONE

AST1 FAC EXP → MQLSW L

OVERSHT FF = 1

DEPOSIT

AST1 NO SHFT DEPOSIT L (0 → SC)

AST2 REQ OUTBRK L

REQUEST OUTBRK USING OP ADDR STATE 2

REQUEST OUTBRK USING OP ADDR STATE 2

AST2 REQ OUTBRK L

TEST OPERAND = 0  
 IF SO, NO SHIFTING NEED BE DONE

AST2 MB → ALSW L  
 AST2 MB → ALSW L  
 AST2 A PLUS PLUS CARRY → 0 L

SUBTRACTION

YES  
 MB → ALSW 2-1  
 +1 → CARRY IN A PLUS B → 0 2-2  
 A → 0

NO  
 MB → BLSW 2-1

ADD ZERO FF = 1

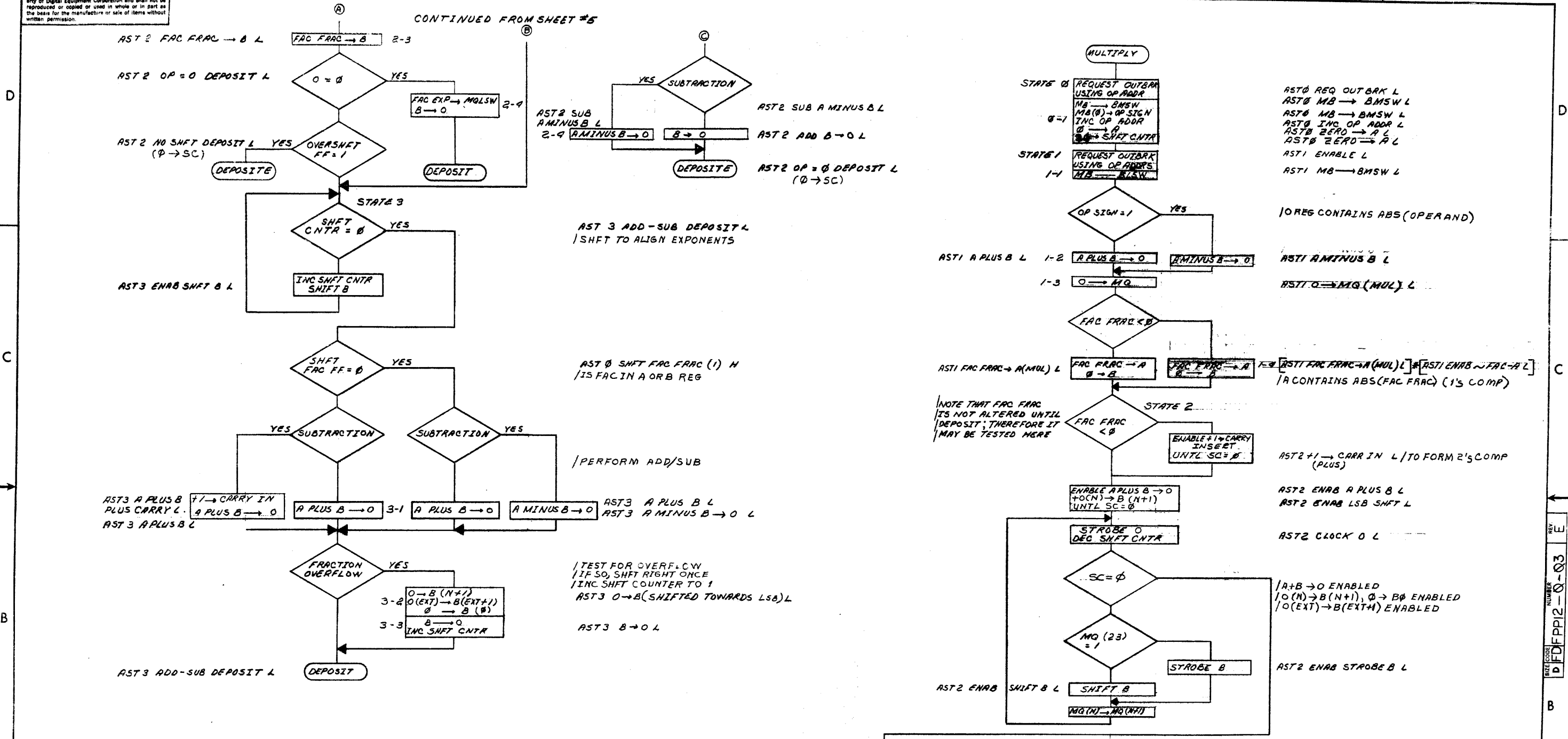
AST2 MB → BLSW L

CONTINUED ON SHEET #6

REV.	CHANGE NO.

FIRST USED ON OPTION/MOD PDP12	QTY.	DESCRIPTION	PART NO	ITEM N.O.
UNLESS OTHERWISE SPECIFIED	PARTS LIST			
UNLESS OTHERWISE SPECIFIED	DATE 12-20-70	DATE 12-15-70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES	DATE 12-16-70	DATE 12-10-70	TITLE FPP12 FLOW DIAGRAM #5	
DECIMALS FRACTIONS ANGLES = .006 = 1/64 = 0°30'	DATE 12-11-70	DATE 12-11-70	SCALE D/FD/FPP12-0-03	
REMOVE BURRS AND BREAK SHARP CORNERS	DATE 12-11-70	DATE 12-11-70	REV. E	
MATERIAL	NEXT HIGHER ASSY A-ML- FPP12-0			
FINISH	SCALE SHEET 5 OF 12			

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REV	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD
1	REVISED	11-18-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
2	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
3	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
4	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
5	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
6	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
7	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
8	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith

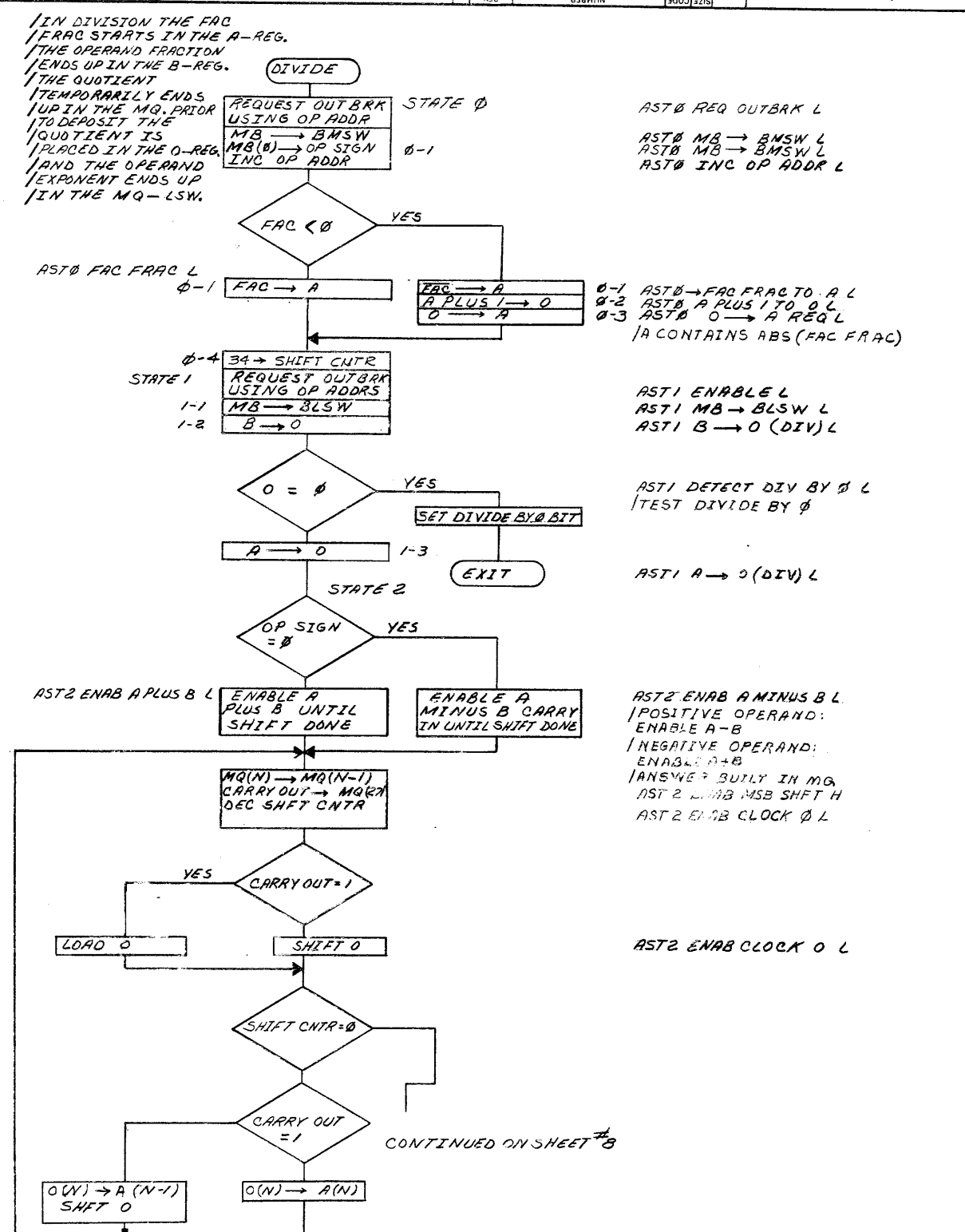
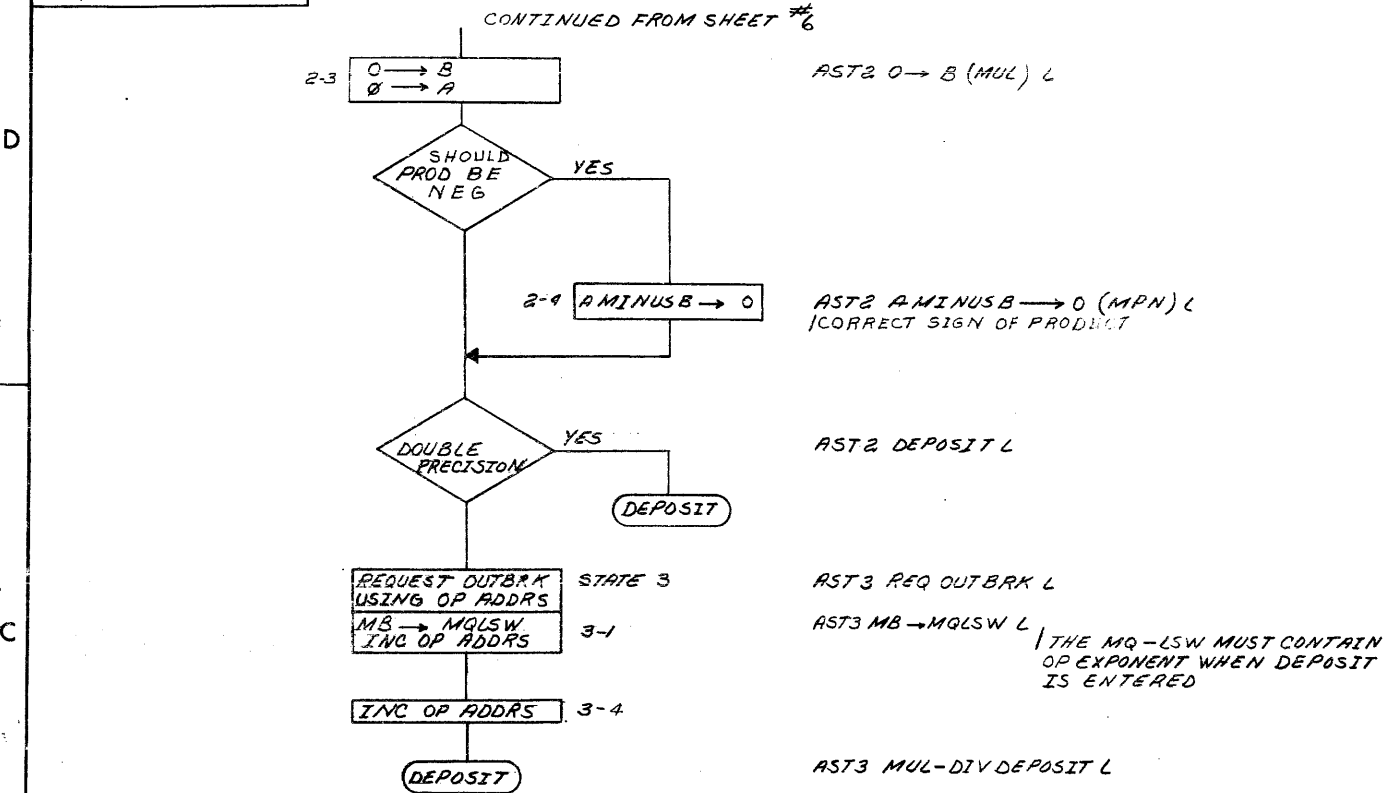
  

REV	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD
1	REVISED	11-18-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
2	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
3	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
4	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
5	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
6	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
7	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
8	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith

REV	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD
1	REVISED	11-18-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
2	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
3	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
4	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
5	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
6	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
7	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith
8	REVISED	12-15-70	J. Smith	J. Smith	12-15-70	J. Smith	J. Smith

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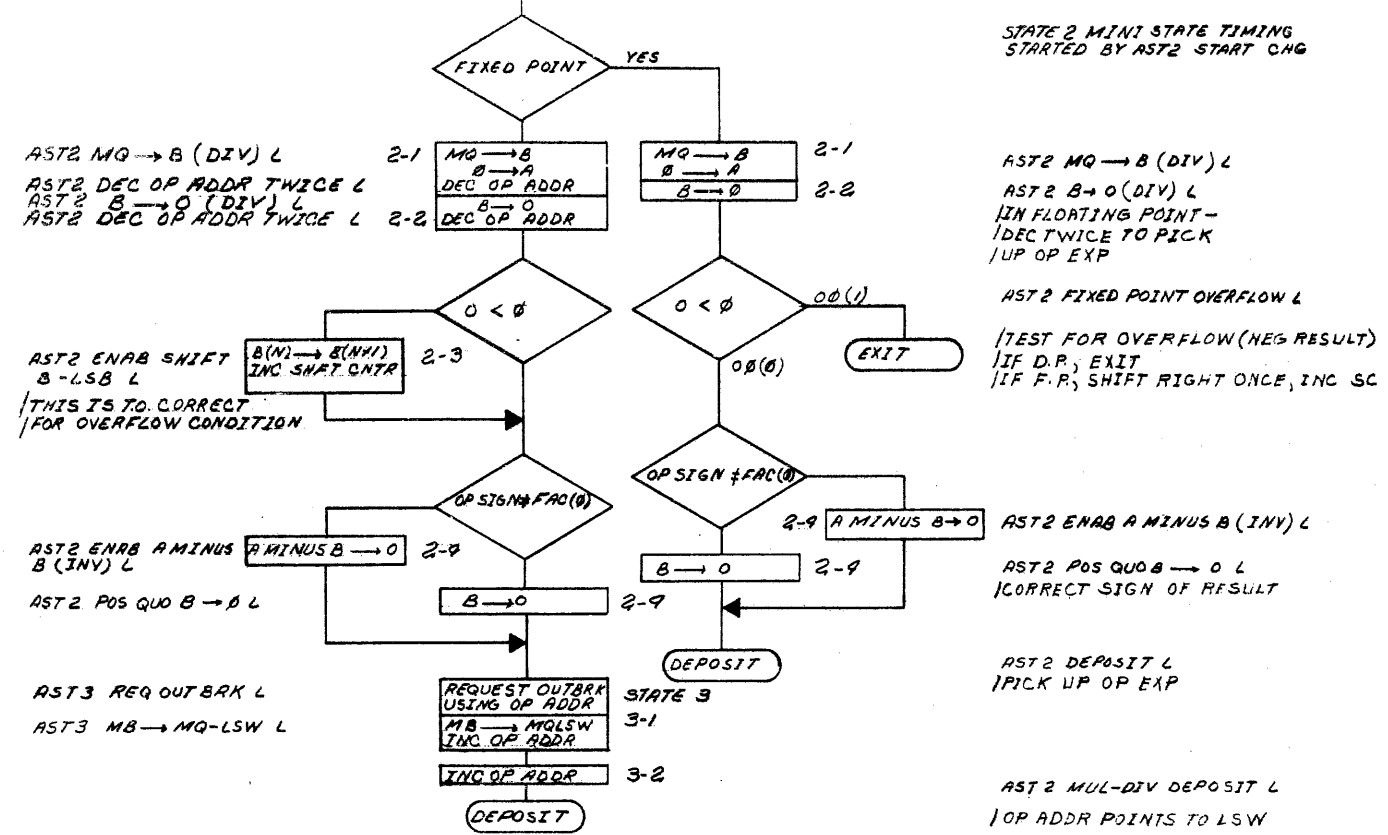
REV	
CHANGE NO	
CHK	

FIRST USED ON OPTION/MOD	QTY.	DESCRIPTION	PART NO.	ITEM
PDP 12				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHKD	DATE	DIGITAL EQUIPMENT CORPORATION	
TOLERANCES	ENG	DATE	CORPORATION	
DECIMALS FRACTIONS ANGLES	PRD	DATE	NORTH AND SOUTH	
$\pm .005 \pm 1/64 \pm 0'30"$	PRD	DATE	NORTH AND SOUTH	
FINAL SURFACE QUALITY	PRD	DATE	NORTH AND SOUTH	
REMOVE BURRS AND BREAK SHARP CORNERS	PRD	DATE	NORTH AND SOUTH	
MATERIAL			NEXT HIGHER ASSY	
FINISH			NEXT HIGHER ASSY	
	SCALE		SIZE CODE	NUMBER
	SHEET 7 OF 12		DFD FPP12-0-03	REV E

REV E  
D F D F P P 1 2 - 0 - 0 3

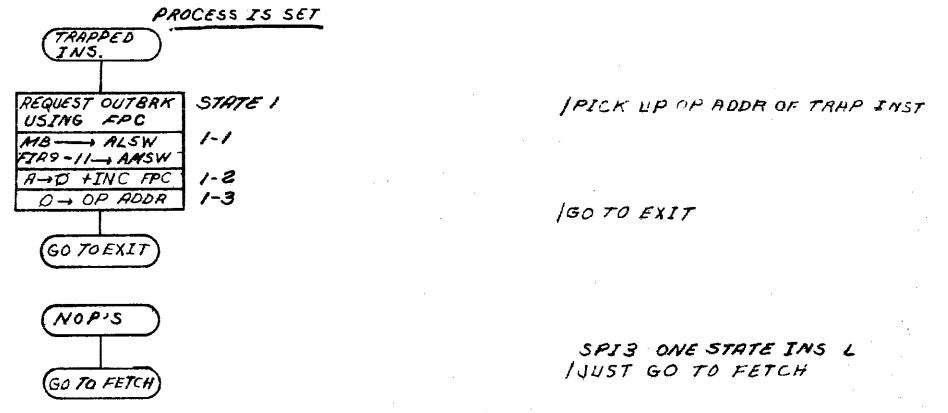
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CONTINUED FROM SHEET #7



Process starts

SPI3 TRP INS L  
SPI3 TRP LD A L  
SPI3 TRP A TO 0 L  
SPI3 TRP 0 TO OP ADDRS L  
SPI3 TRP INS L



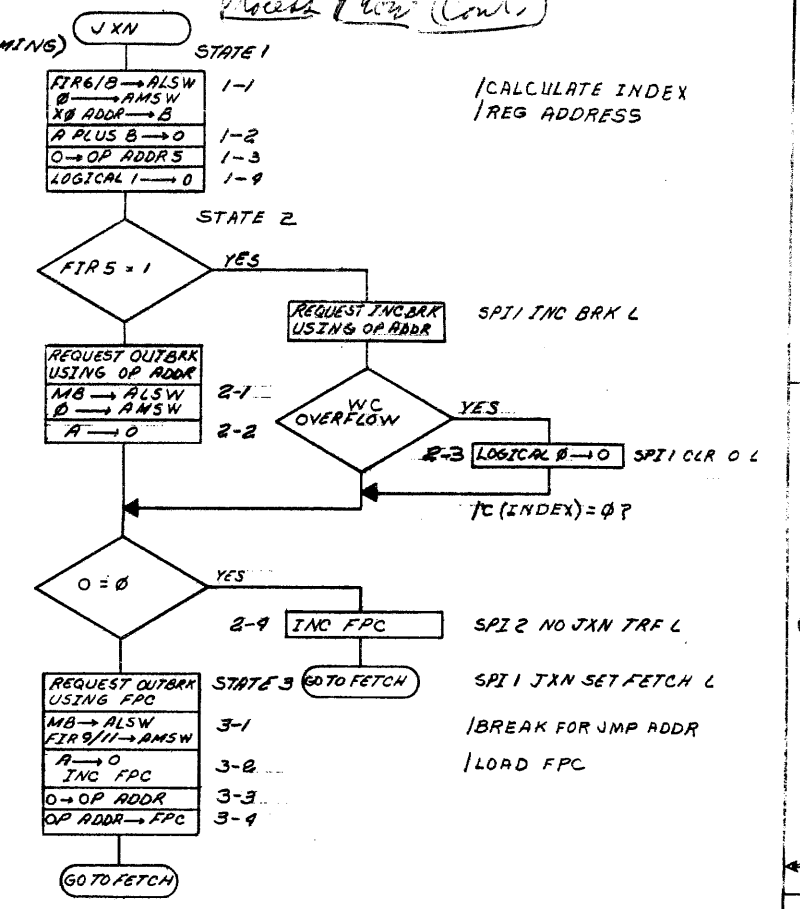
SPI ADVL (ADVANCE TIMING)

SPI1 CAL X ADDRS L  
SPI1 ADD A TO B L  
SPI1 X TO OP ADDRS L  
SPI1 SET 0 L

SPI1 JXN GET X L  
SPI1 C(X) TO A L  
SPI1 C(X) TO 0 L

SPI1 JXN TRF L  
SPI1 MB → ALSW  
SPI1 A TO 0 L  
SPI1 0 TO OP ADDRS L  
SPI1 ENABLE FPC L  
SPI1 JXN SET FETCH L

Process Flow (Cont.)



REVISIONS  
CHANGE NO.  
CHK

FIRST USED ON OPTION/MOD.	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRW	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHKD	DATE	TITLE	
DIMENSION IN INCHES		12-15-70	FPP12 FLOW DIAGRAM	
TOLERANCES	ENG	DATE	REV	
DECIMALS FRACTIONS ANGLES		12-16-70	E	
= .005 ± 1.64 ± 0.30	PROJ. ENG.	DATE	SIZE CODE	
FINAL SURFACE QUALITY		12-18-70	D F D FPP12-0-03	
REMOVE BURRS AND BREAK SHARP CORNERS	PROD.	DATE	NUMBER	
		12-18-70	E	
MATERIAL	NEXT HIGHER ASSY			
	A-M-L FPP12-0			
FINISH	SCALE	DIST		
	SHEET 8 OF 12			

REV L  
FD FPP12-0-03

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*Process (Contd)*

**D**

)/CALCULATE INDEX  
/REG ADDRESS

SPI2 TM ADV L (ADVANCES TIMING)  
SPI2 CLASS I GET X L  
SPI1 ADD A TO B L  
SPI1 X TO OP ADDRS L

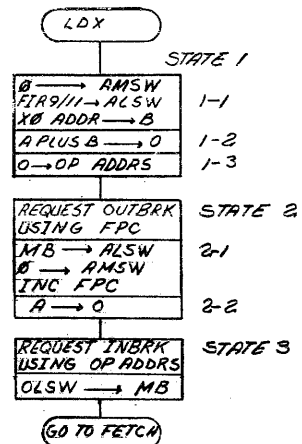
)/BREAK FOR OPERAND

SPI2 RQST OUTBRK L  
SPI3 LDX ENAB A L

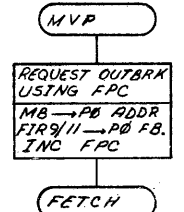
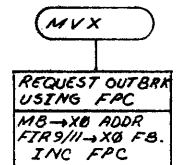
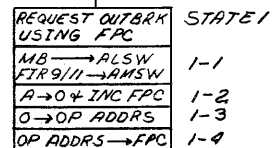
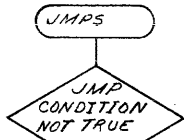
SPI3 LDX A → 0 L

)/STORE IN INDEX REG

SPI3 LDX STR L



)/JMP ENABLE = JMP  
/JZR FAC = 0  
/JGE FAC < 0  
/JLE FAC < 0  
/JNE FAC ≠ 0  
/JLT FAC < 0 (1)  
/JGT FAC > 0  
/JEG OUT 00 (0)  
/TEST JUMP CONDITION



SPI TRANSFER L  
/GET JUMP ADDRESS  
SPI1 MB → ALSW L

SPI1 A TO 0 L  
SPI1 A TO OP ADDRS L  
SPI1 0 TO OP ADDRS L  
/LOAD FPC

SPI1 JXN SET FETCH L

)/SET X = MVX  
/GET NEW X0 ADDR

SPI3 XCT MVX L

SPI3 SET X0 ADDRS L

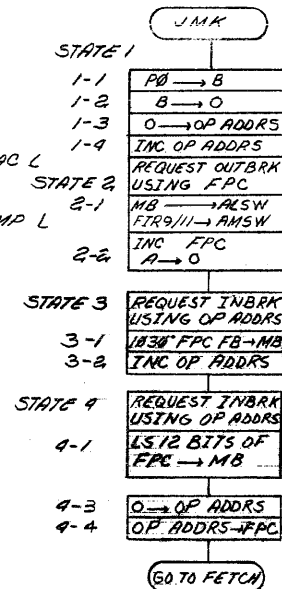
SPI3 XCT MVX L

)/SET B = MVP  
/GET NEW P0 ADDR

SPI3 MVP XCT L

SPI3 ENBL P0 ADDRS L

SPI3 MVP XCT L



)/USR = JMK

SPI1 P0 ADDRS TO B L /GET ADDRESS OF BASE  
SPI1 B TO OUT L /OFFSET 0  
SPI1 SET TRF ADDRS L  
SPI1 BUMP OP ADDRS L  
SPI1 SUBCALL 2 L /GET BREAK ADDR

SPI1 MB ALSW L  
SPI1 A TO 0 L

SPI1 SUB-CALL 3 L /STORE RETURN JUMP /1030 IS JA

SPI1 INC OP ADDRS L

SPI1 SUB-CALL 4 L /STORE RETURN JUMP /ADDRESS

SPI1 SET SUB ADDRS L  
SPI1 SET FAC L

SPI1 SUB-CALL 4 L

**C**

)/CALCULATE INDEX  
/REG ADDRESS

SPI2 TM ADV L (ADVANCES TIMING)  
SPI2 CLASS I GET X L  
SPI1 ADD A TO B L  
SPI1 X TO OP ADDRS L

)/BREAK FOR C (INDEX REG)  
/BREAK FOR OPERAND

SPI3 ADX ENABL B L

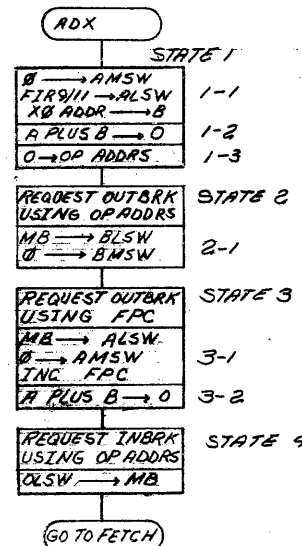
SPI3 ADX GET L

)/ADD OPERAND TO INDEX REG

SPI3 ADX SUM L

)/STORE SUM IN INDEX REG

SPI3 ADX STR L



*Set X Reg.*

*Set Base Reg.*

REV	CHG	NO.

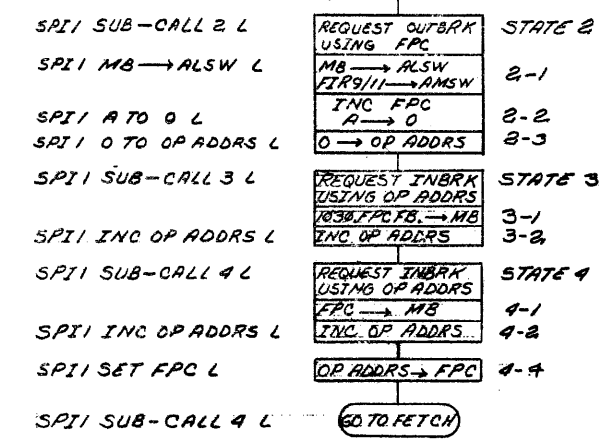
*Pages 9-12 are all "PROCESS" pages!*

FIRST USED ON OPTION/MOD <b>PDP12</b>	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DATE 12-15-70	DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± .164 ± .0130	DATE 12-15-70	TITLE <b>FPP12 FLOW DIAGRAM # 9</b>		
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	DATE 12-16-70	NUMBER <b>DFD FPP12-0-03</b>		
MATERIAL	DATE 12/18/70	REV <b>E</b>		
NEXT HIGHER ASSY	SCALE	SHEET 9 OF 12		
FINISH	DIST.	1		

REV E  
NUMBER  
PDP12-0-03

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USA = USB  
 SPI1 SKP NXT ST L (JUMPS TO STATE 2)

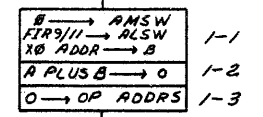


STATE 2  
 1 GET JUMP ADDR  
 STATE 3  
 1 1030 JA INST  
 STORE RTN JMP ADDR

SPI2 CLK B L  
 (CLOCK'S B REG)  
 SPI2 EXP TO B L

SPI2 RST OUTBRK L  
 SPI2 LD NEW EXP L

ALN  
 STATE 1



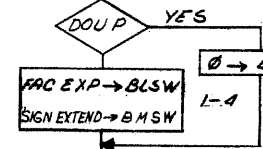
SPI2 TM ADV L (ADVANCES TIMING)

SPI2 CLASS 1 GET X L  
 SPI1 ADD A TO B L  
 SPI1 X TO OP ADDRS L

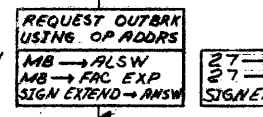
IN D.P., NO EXP

SPI2 FIX ADV H (ADVANCES TIMING)  
 ALIGN ON INDEX REG  
 /OR 27<sub>8</sub>

IF USING INDEX, GET IT  
 OTHERWISE USE 27<sub>8</sub>  
 STORE IN FAC EXP  
 CALCULATE # SHFTS TO ALN  
 IF NEG, MUST SHFT LEFT  
 O REG - SHFT LEFT  
 B REG - SHFT RIGHT

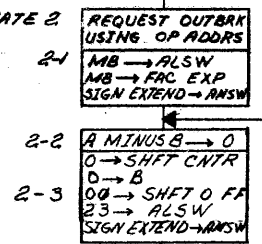


STATE 2  
 X = 0



SPI2 FIX FOR X L  
 SPI2 FIX AC L

SPI2 DIFF L  
 SPI2 LD SHFT CNTR L



SHFT O FF = 1



SPI2 B POS L  
 SPI2 B NEG L

TEST IF # SHFTS GREATER  
 THAN 27<sub>8</sub> TO ALN

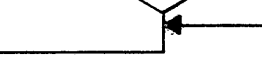
STATE 3  
 00 = 1



SPI2 SHFT FAC L  
 SPI2 OVR SHFT L  
 SPI2 LD O L

IF SO SET SC = 0

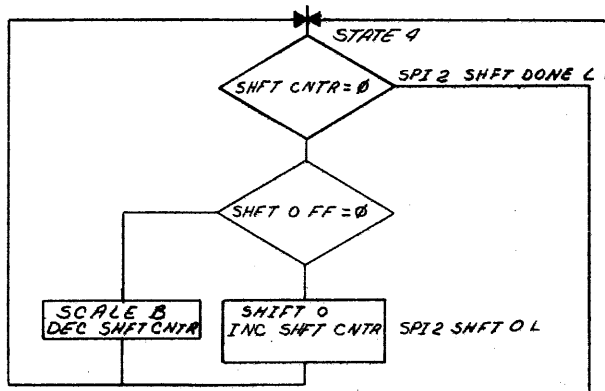
0 = 0



SPI2 NO SHFT L

SHFT RIGHT OR LEFT AS  
 DECIDED AND COUNT WITH  
 SHFT COUNTER

SPI2 SHFT B L



SPI2 B POS L

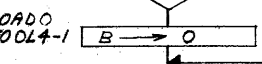
SHFT O FF = 0



SPI2 FAC ALN L  
 SPI2 ALN DONE L

IF SHFTING B, LOAD 0  
 SPI2 RESULTS TO CLA-1

0 = 0  
 FAC FRAC NEG



LOGICAL 1 -> 0  
 SPI2 -1 TO O L

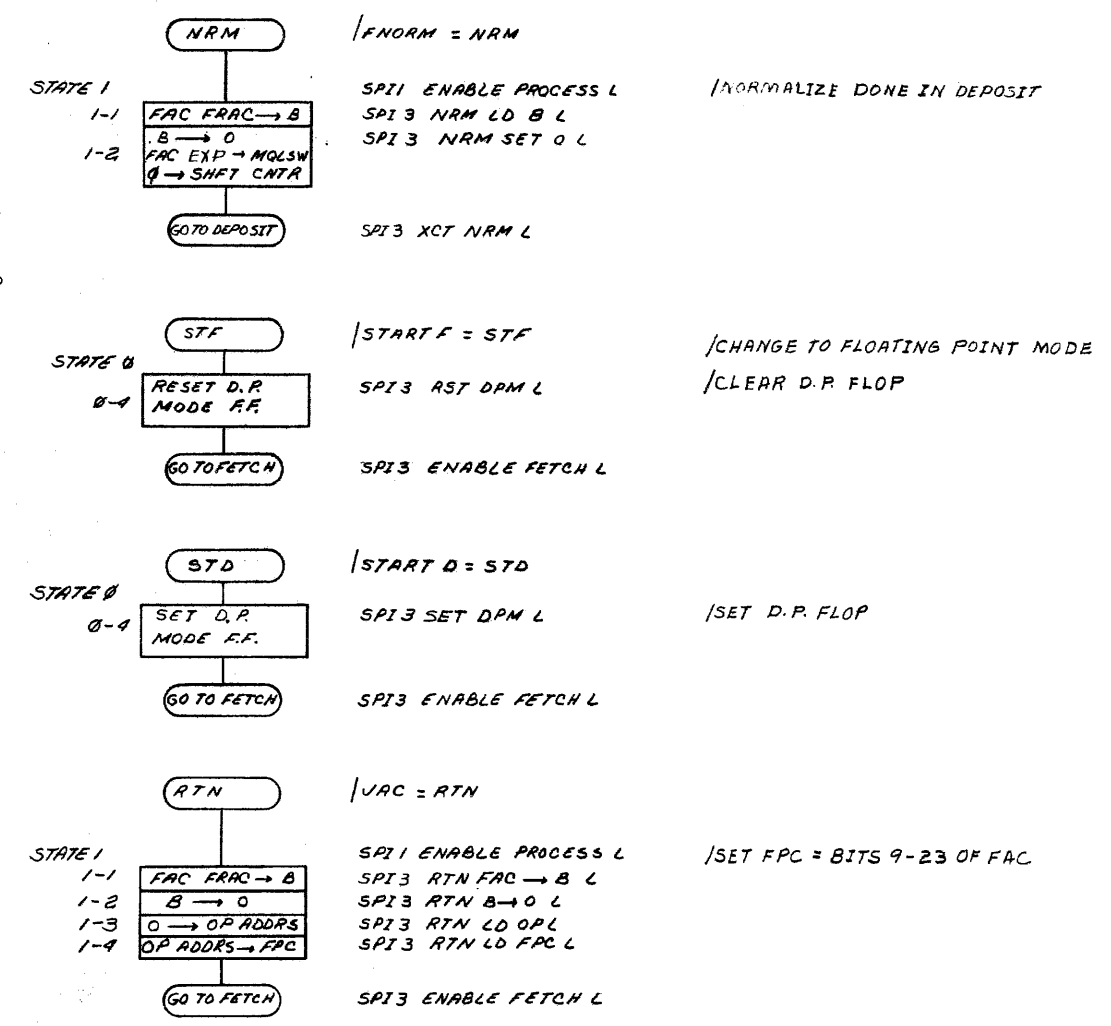
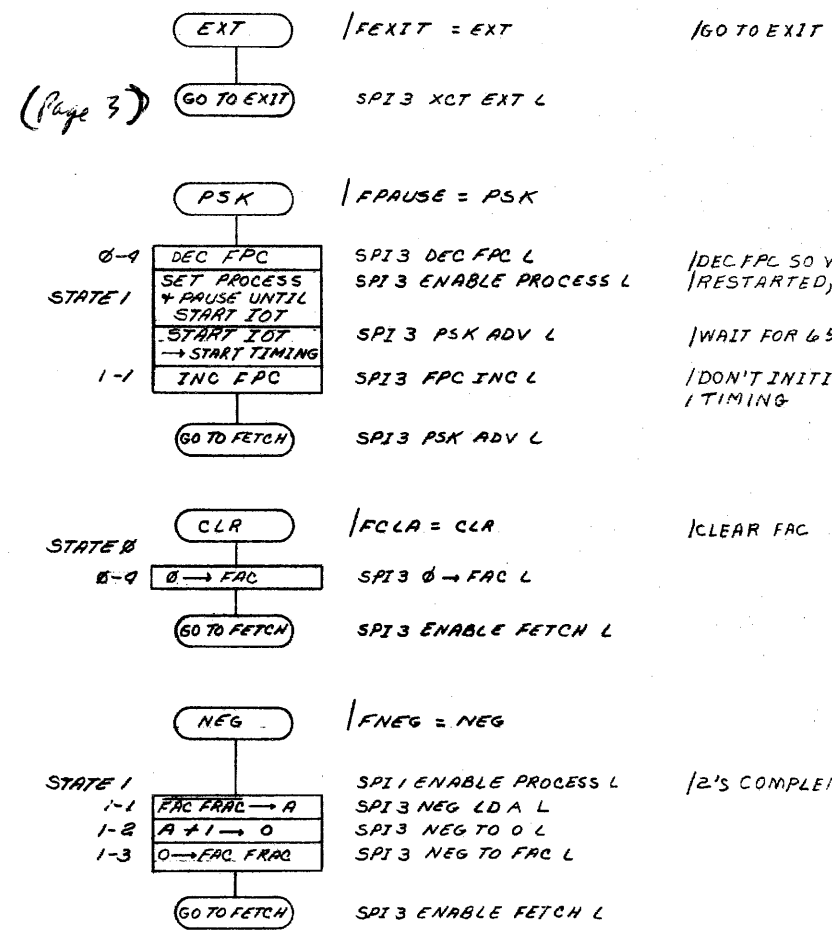
REV	CHANGE NO.

FIRST USED ON OPTION/ MOD PDP12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	TITLE	
DIMENSION IN INCHES		FPP12 FLOW DIAGRAM #10		
TOLERANCES		DATE		
DECIMALS	FRACTIONS	ANGLES	DATE	
± .005	± 1/64	± 0°30'	DATE	
FINAL SURFACE QUALITY		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS		DATE		
MATERIAL	NEXT HIGHER ASSY			
FINISH	SCALE	SIZE CODE	NUMBER	REV.
		DFD FPP12-0-03		E
SHEET 10	OF 12	DIST.		





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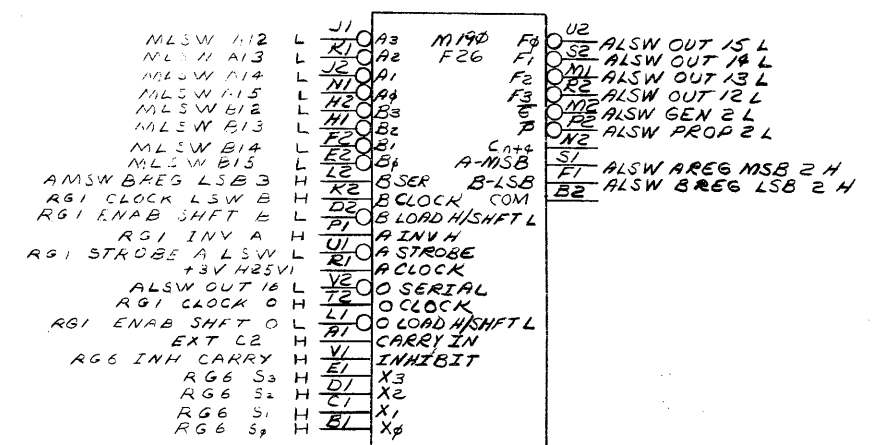
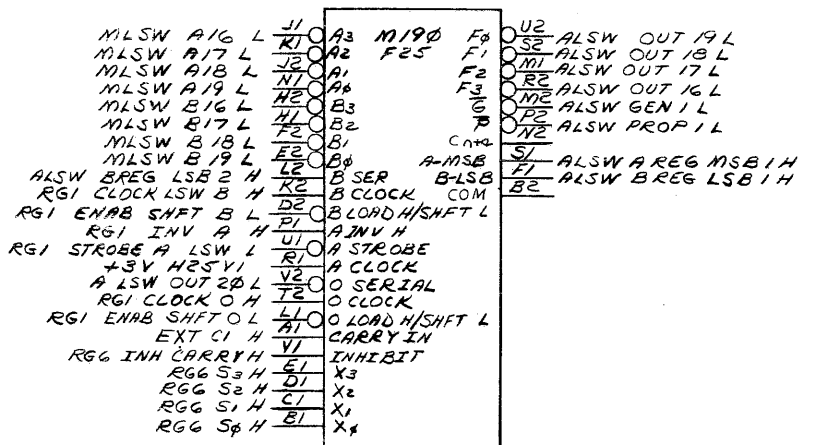
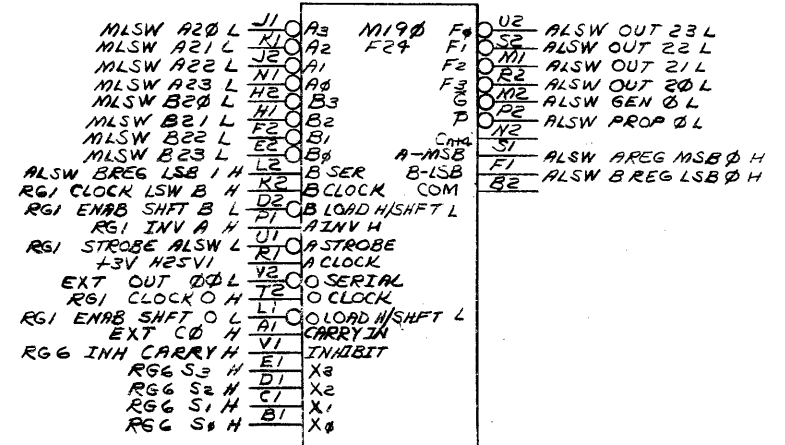


REV	
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MOD. PDP 12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D.	DATE	TITLE	
TOLERANCES	ENG.	DATE	FPP12 FLOW C AGRAM	
DECIMALS = .005	PROJ. ENG.	DATE	A-ML-FPP12-0	
FRACTIONS = 1/64	PROD.	DATE	SCALE	
ANGLES = 0°30'			D F D FPP12-	
FINAL SURFACE QUALITY			REV. - 03	
REMOVE BURRS AND BREAK SHARP CORNERS			E	
MATERIAL	NEXT HIGHER ASSY			
FINISH	SHEET 12 OF 12			

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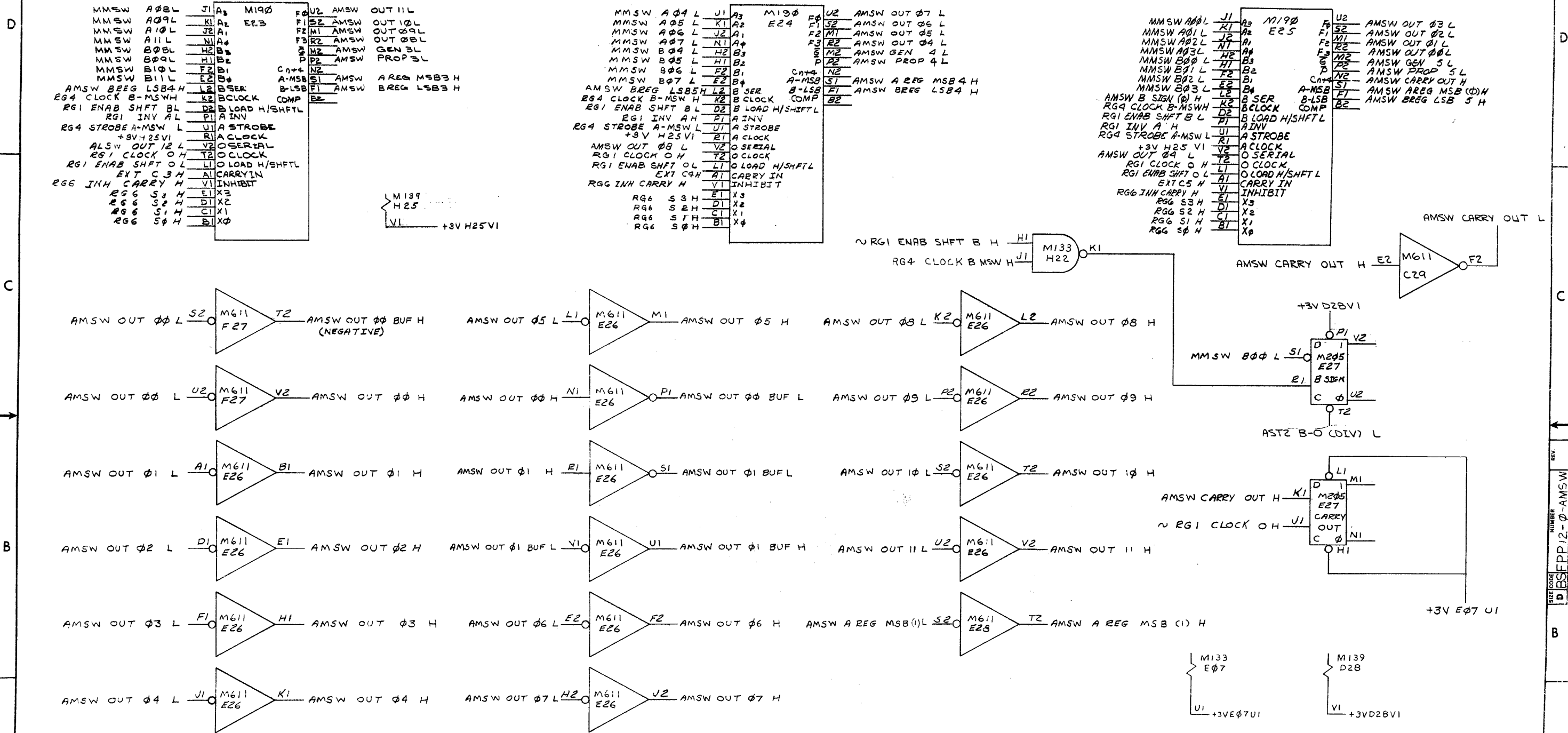
# Adder-LSW



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*Adder - MSW*

BSFPP12-0-AMSW



REV	CHANGE NO

FIRST USED ON OPTION / MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP 12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE		
TOLERANCES	ENG	DATE		
DECIMALS FRACTIONS ANGLES	PROJ. ENG.	DATE		
± .005 ± 1/64 ± 0°30'				
FINAL SURFACE QUALITY	PROD.	DATE	ADDER - MSW	
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	NEXT HIGHER ASSY			
FINISH	A-1-BSFPP12-0-AMSW			
	SCALE		SIZE CODE	NUMBER
	SHEET 1 OF 1		BSFPP12-0-AMSW	
			DIST.	

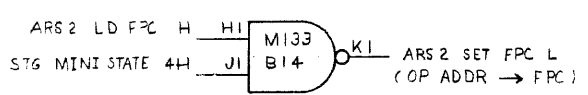
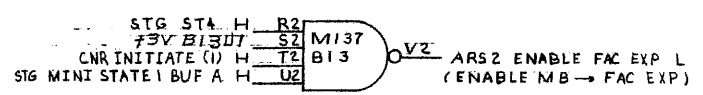
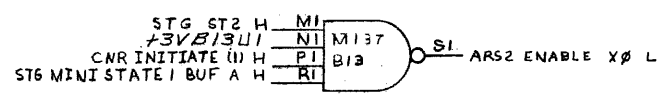
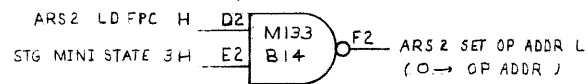
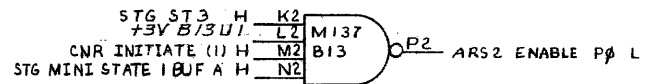
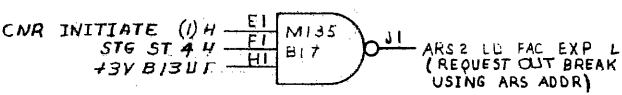
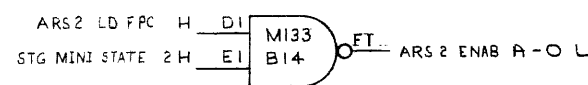
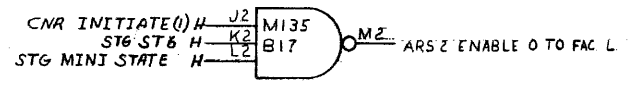
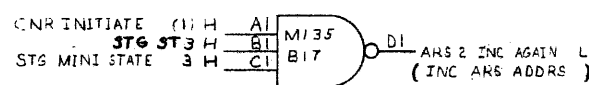
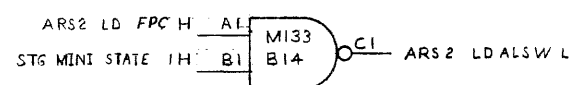
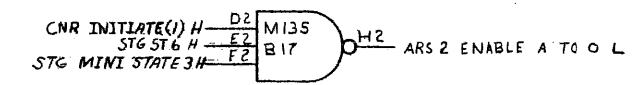
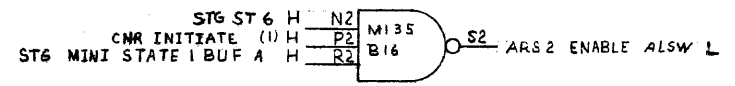
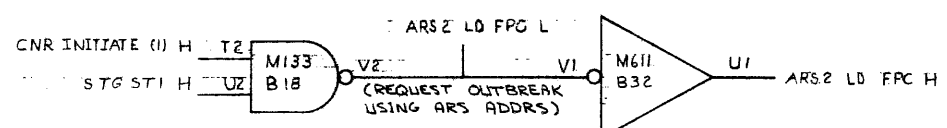
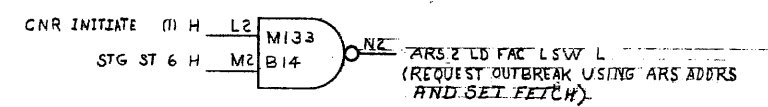
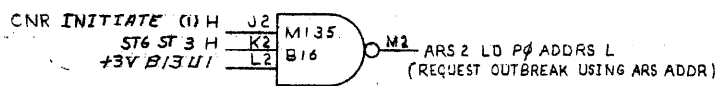
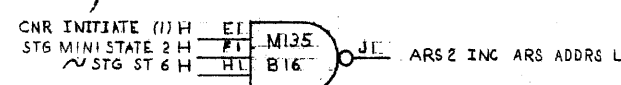
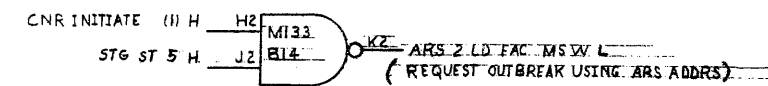
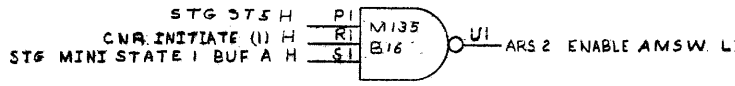
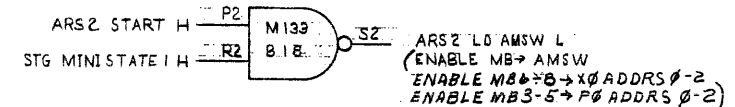
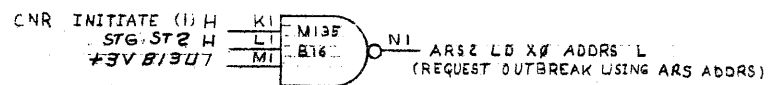
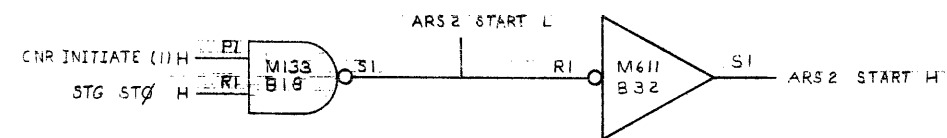


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REV. A  
 DBSFPPI2-0-ARS2  
 NUMBER 2

D  
 C  
 B  
 A

D  
 C  
 B  
 A



REV.	CHANGE NO.	DATE
A	FPP12-00005	5-2-71
TEICHER		
J. Seabury 5-20-71		

FIRST USED ON OPTION MODEL FPP 12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN. WFM P. LENNON	DATE 8-27-70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES	CHK'D. W. Main	DATE 12/1/70	TITLE INITIATE	
DECIMALS ± .005	ENG. J. Seabury	DATE 12/1/70		
FRACTIONS ± 1/64	PROJ. ENG. J. Seabury	DATE 12/1/70		
ANGLES ± 0°30'	PROD. R. Peterson	DATE 12/1/70		
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	NEXT HIGHER A SY			
FINISH	A-ML-FPP12-0			
SCALE		SHEET 1 OF 1		SIZE CODE NUMBER REV. DBSFPPI2-0-ARS2 A
DIST.				

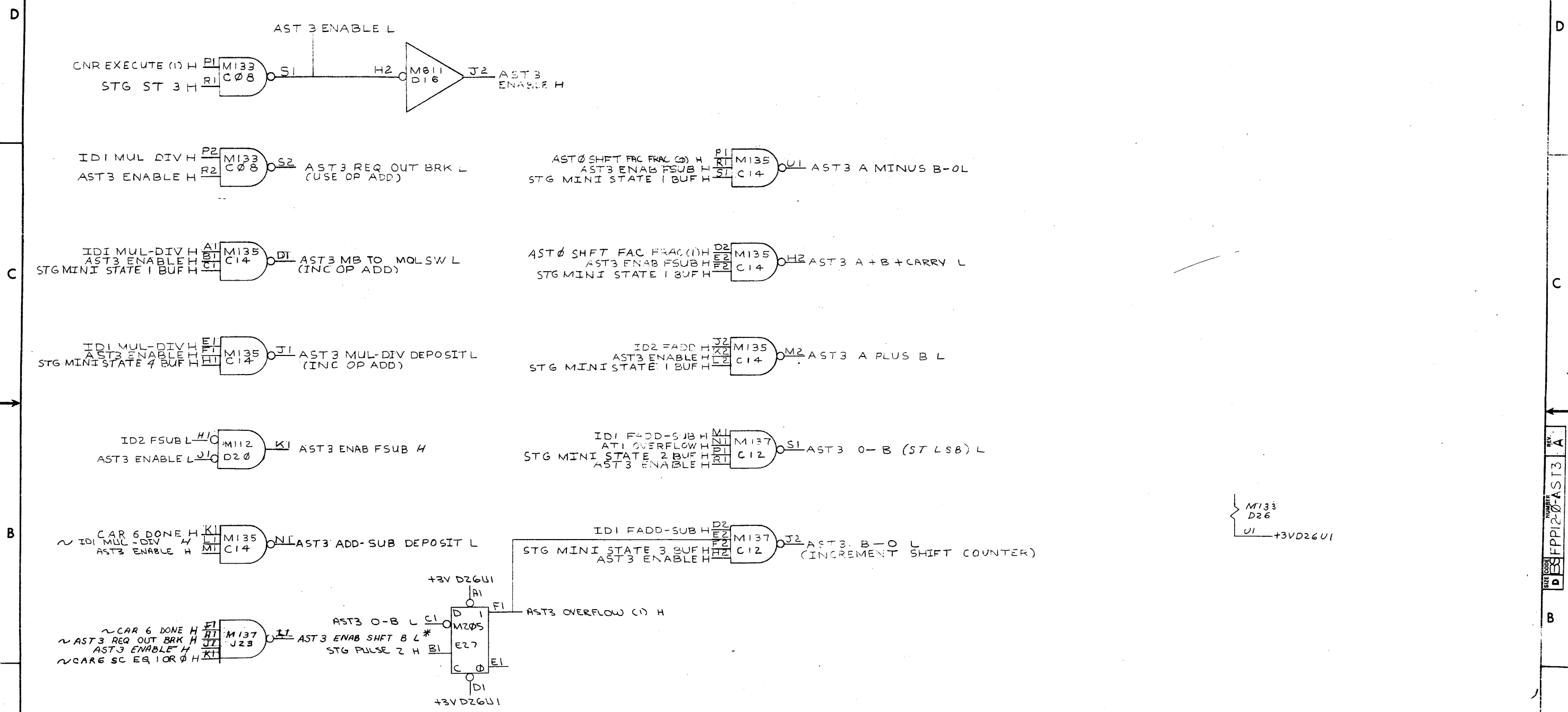








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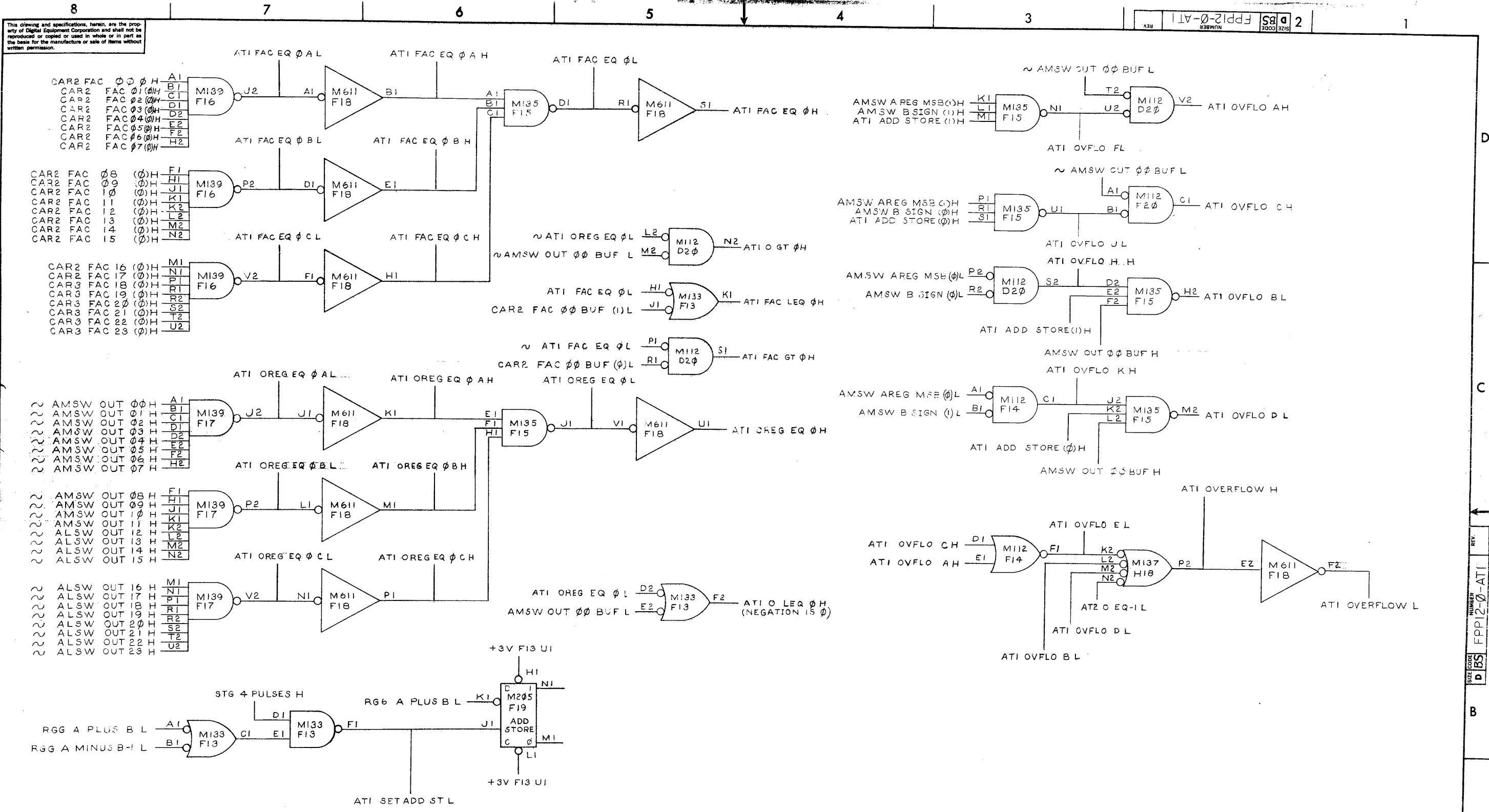
M133  
D26  
U1 +3VD26U1

\*(SIG. AST3 ENAB SHFT B L PERMITS SHIFTING OF B UNTIL SHIFT COUNTER=0 WHEN ALIGNING A NUMBER DURING A FLOATING ADD OR SUBTRACT. THE SHIFT COUNTER STARTS NEGATIVE AD INCREMENTS TO 0. SIG. ~ CAR6 SC EQ 1 OR 0 H HAS FEWER GATE DELAYS THAN ~ CAR6 DONE H.)

REV.	CHG. NO.	DATE
A	00002	2-3-71
B	00003	2-3-71
C	00004	2-3-71
D	00005	2-3-71

FIRST USED ON OPTION/MODEL FPP12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D.	DATE	TITLE ARITHMETIC STATE 3	
DIMENSION IN INCHES	ENG.	DATE	SIZE CODE NUMBER REV. DBS FPP12-0-AST3 A	
TOLERANCES	PROJ. ENG.	DATE	SCALE NONE	
DECIMALS FRACTIONS ANGLES	PROD.	DATE	SHEET 1 OF 1	
± .005 ± 1/64 ± 0°30'	NEXT HIGHER ASSY		DIST.	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
FINISH				

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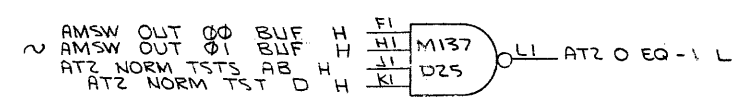
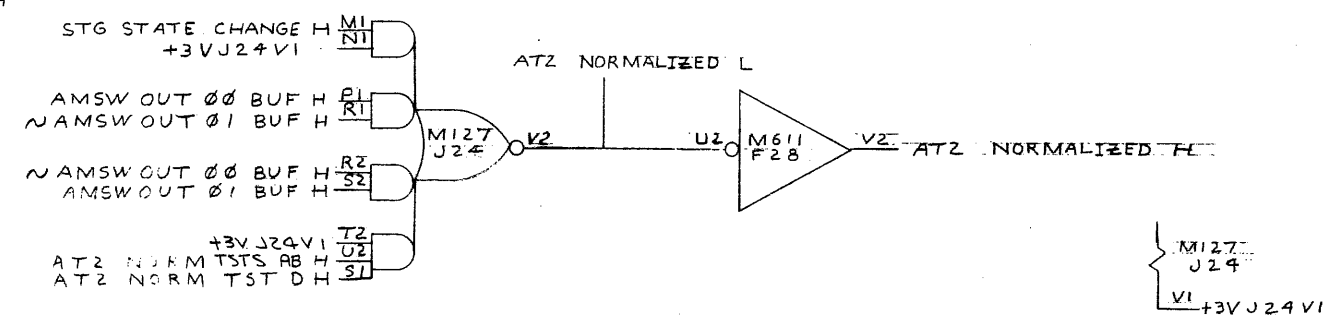
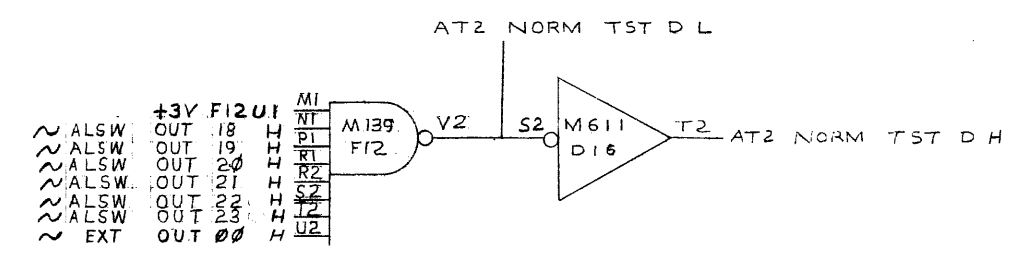
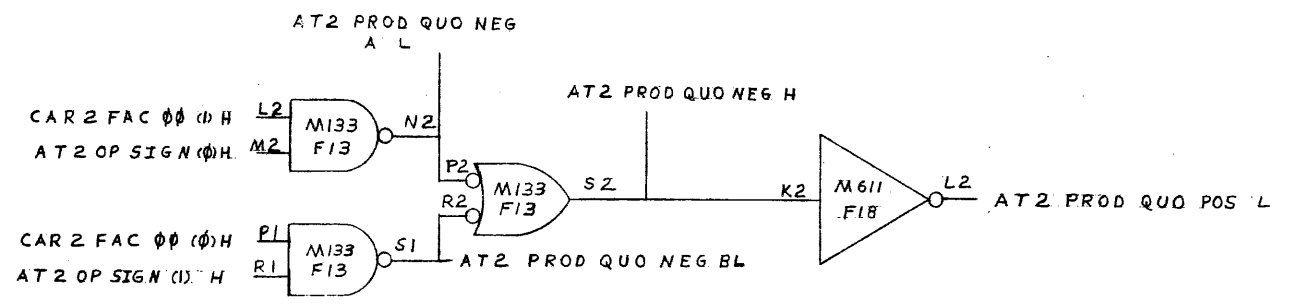
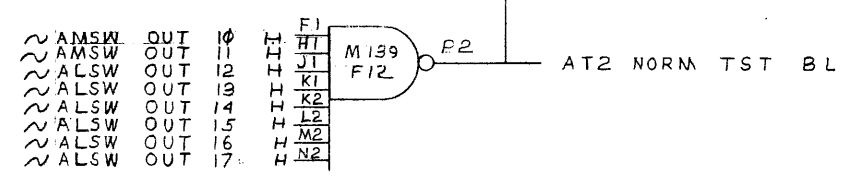
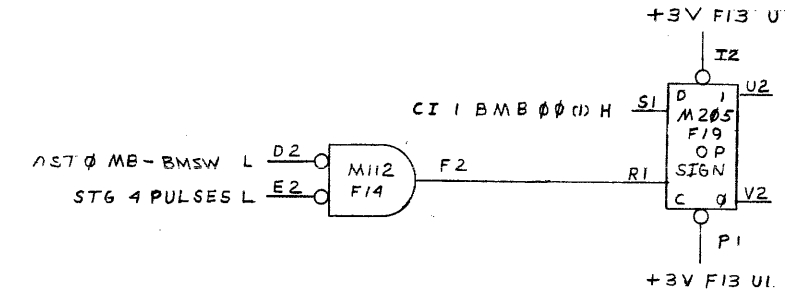
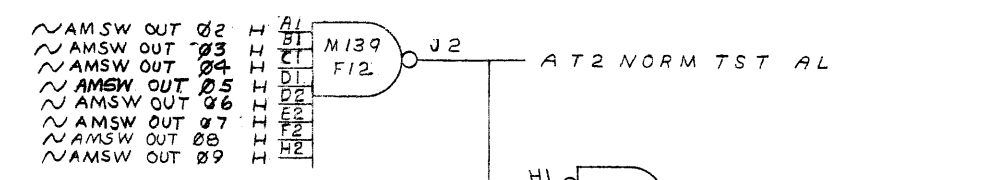
REV	CHANGE NO.

DEC FORM NO. DRD 102A

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FFP12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	TITLE	
DIMENSION IN INCHES	W. M. M. M.	01/30/70	ARITHMETIC TESTS I	
TOLERANCES	ENG	DATE		
DECIMALS FRACTIONS ANGLES	J. J. J.	10/30/70		
= .005 = 1/64 = 0°30'	PROJ. ENG.	DATE		
FINAL SURFACE QUALITY	A. J. J.	12/1/70		
REMOVE BURRS AND BREAK SHARP CORNERS	PROD.	DATE		
		12/1/70		
MATERIAL				
FINISH				

REV. NUMBER  
FFP12-0-ATI

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M139-  
F12  
U1 +3V F12 UI

M127-  
J24  
V1 +3V J24 V1

REV.	DATE	BY	CHKD.
A	9-19-77	R. IKNAIAN	
CHANGE NO. F12-00014			

FIRST USED ON OPTION MODEL FPP12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± 1/64 ± 0°30'	DRN. M-POIRIER	DATE 7-31-77	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D. W. MAJOR	DATE 10/30/77	TITLE ARITHMETIC TEST TWO	
MATERIAL //	ENG. D. SWAN	DATE 10/20/77	REV A	
FINISH //	PROJ. ENG. D. SWAN	DATE 10/11/77	SIZE CODE NUMBER DBS FPP12-0-AT2	
	PROD. ENG. P. BROWN	DATE 12/1/77	SCALE NONE	
	NEXT HIGHER ASSY A-MIL-FPP12-0		SHEET 1 OF 1	

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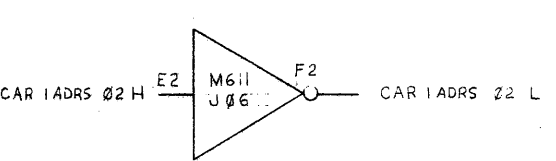
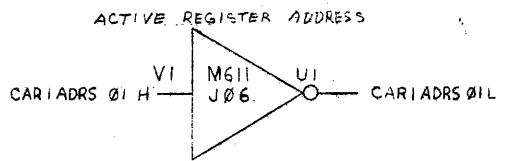
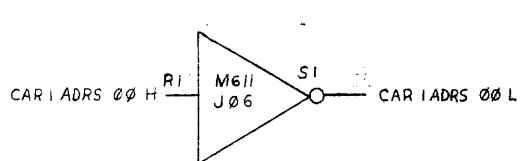
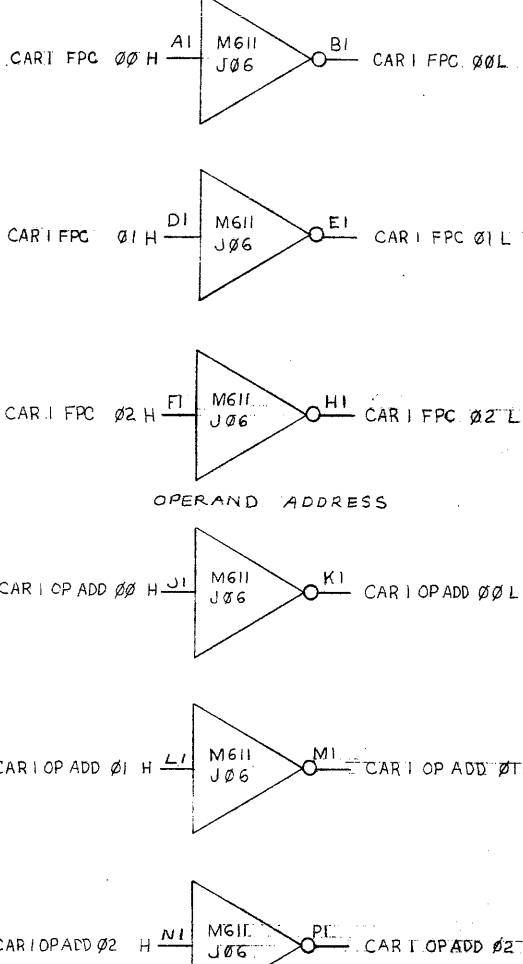
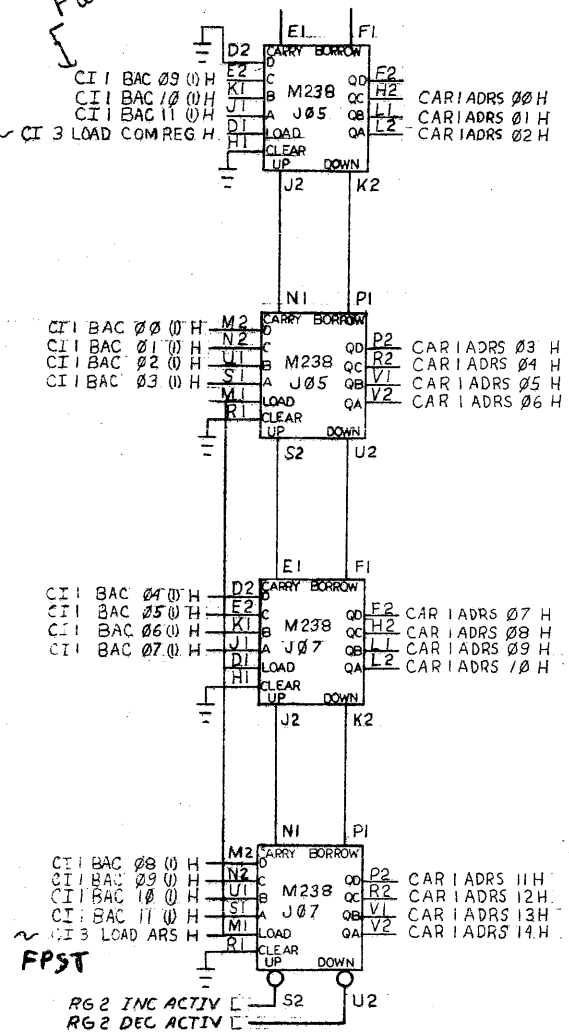
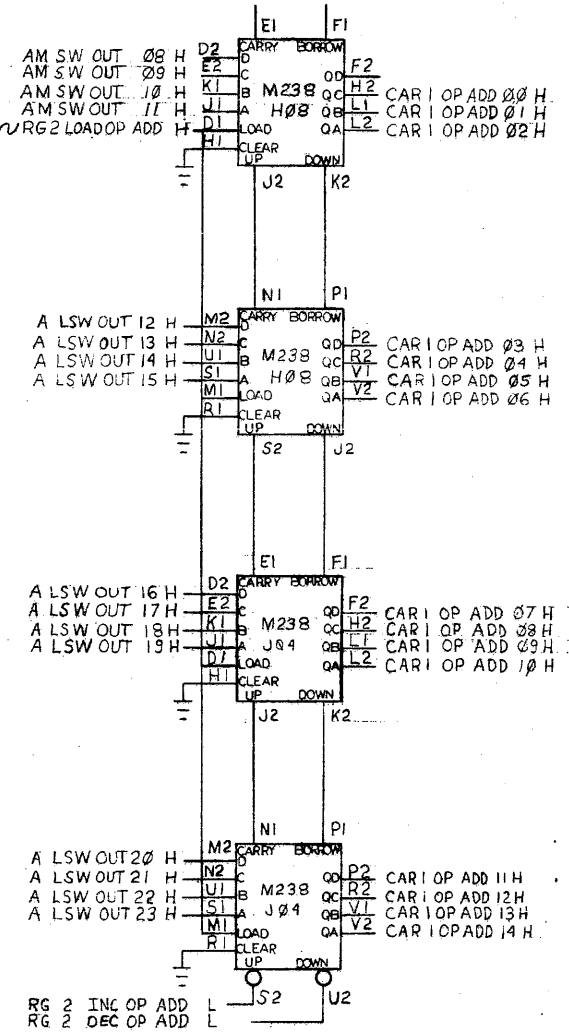
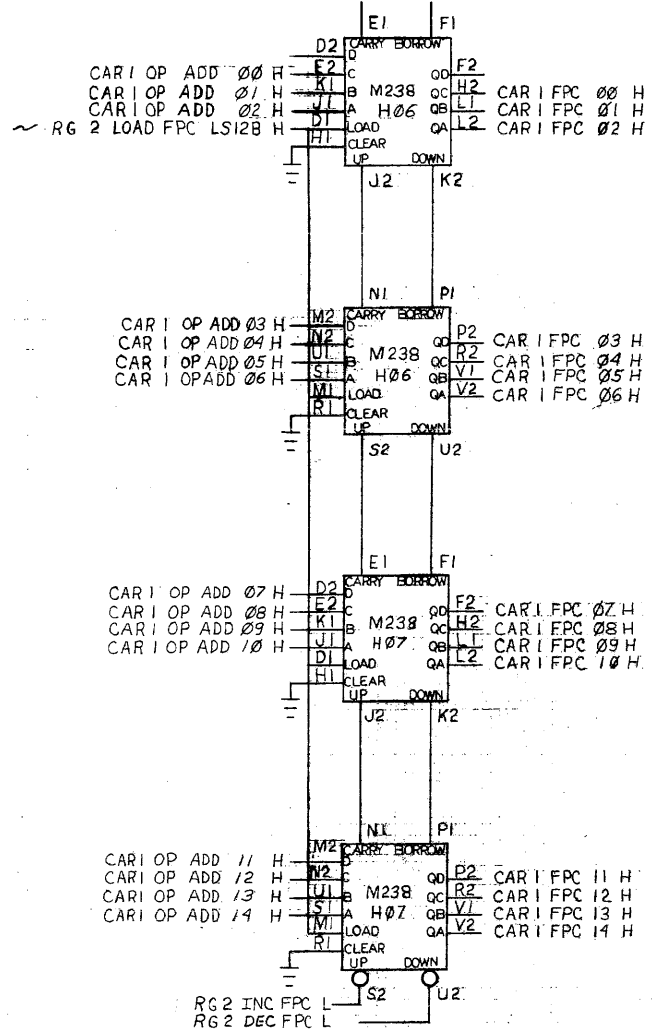
REV 2  
D BS FPP12-2-CAR1 P04

*FPC counters*

*Operand address*

*APT Pointers*

PROGRAM COUNTER

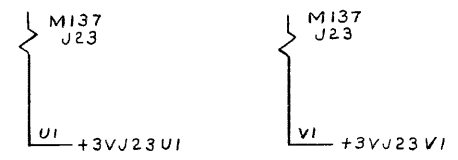
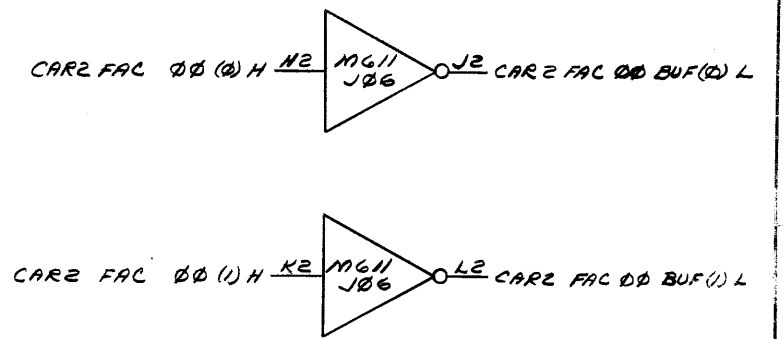
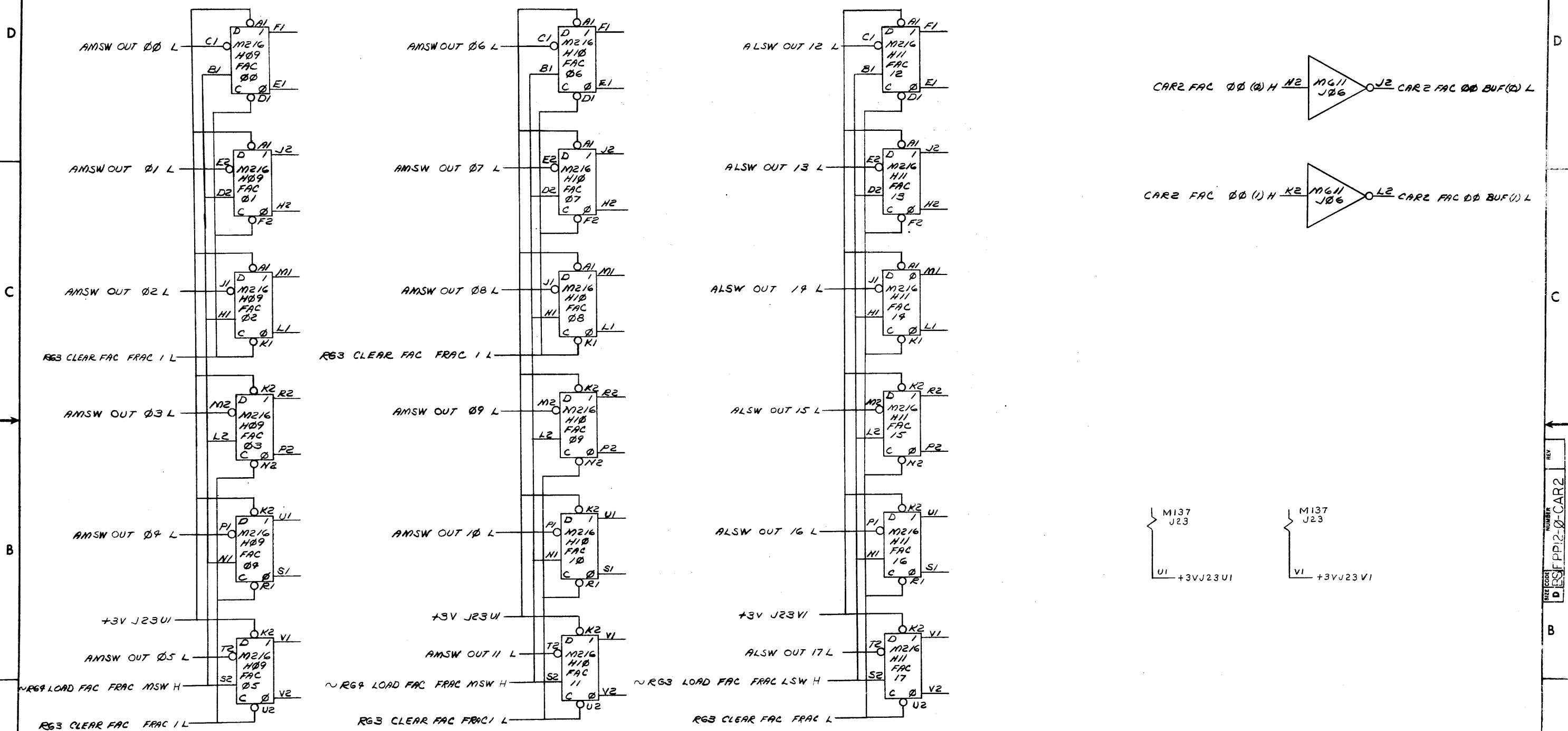


REV	DATE	BY	CHK'D	DATE	BY	CHK'D

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP-12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D.	DATE	TITLE	
TOLERANCES	ENG.	DATE	COUNTERS AND REGISTERS I	
DECIMALS ± .005	PROJ. ENG.	DATE		
FRACTIONS ± 1/64	PROD.	DATE		
ANGLES ± 0°30'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
FINISH				
			SCALE	NONE
			SHEET	1 OF 1
			DIST.	
			SIZE CODE	D BS
			NUMBER	FPP12-2-CAR1
			REV	

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# Floating Accumulator 14-17



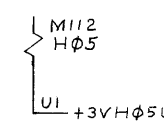
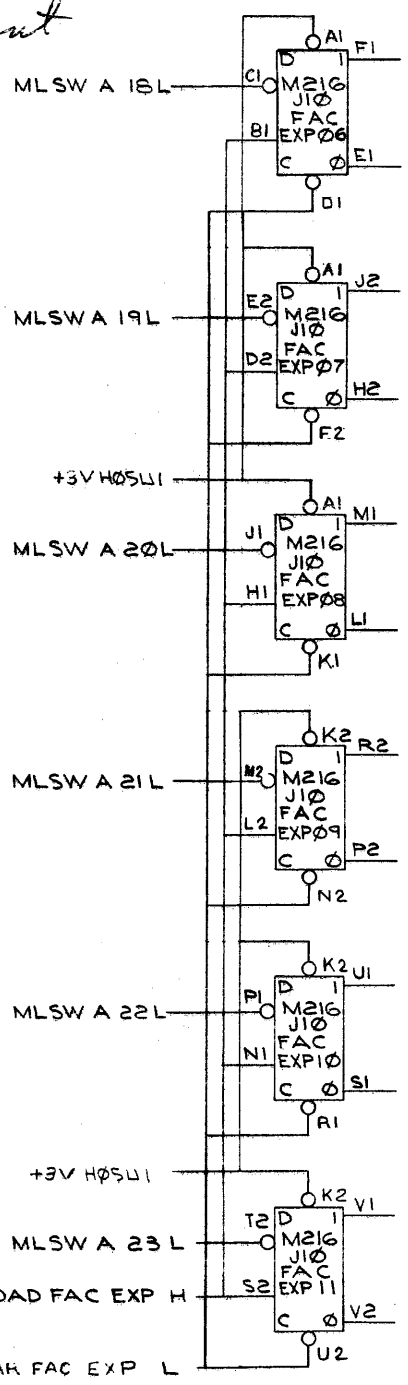
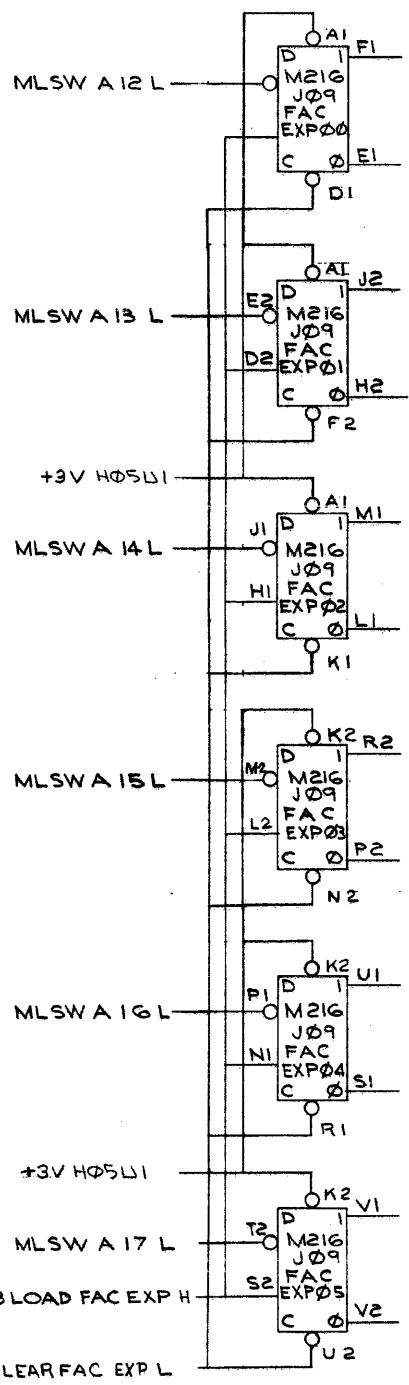
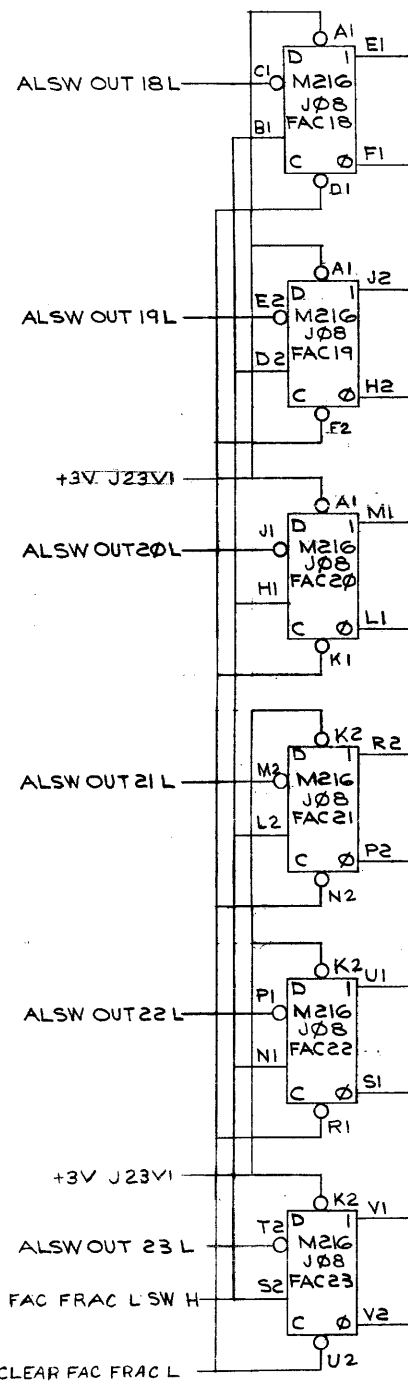
REV	
CHG	
NO	
DATE	

FIRST USED ON OPTION/MODEL FPP12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN. MEM. <i>W. Albert</i>	DATE <i>2-18-70</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± 1/64 ± 0°30'	CHK'D. <i>W. Major</i>	DATE <i>10/30/70</i>	TITLE COUNTERS AND REGISTERS 2	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	ENG. <i>W. Major</i>	DATE <i>10/30/70</i>	NEXT HIGHER ASSY A-ML-FPP12-0	
MATERIAL + / +	PROD. <i>R. Peterson</i>	DATE <i>12/1/70</i>	SIZE CODE DBS FPP12-0-CAR2	NUMBER 1
FINISH + / +	SCALE 1 OF 1	SHEET	DIST.	REV

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# Floating Accumulator 18-23

Exponent  
φ-11

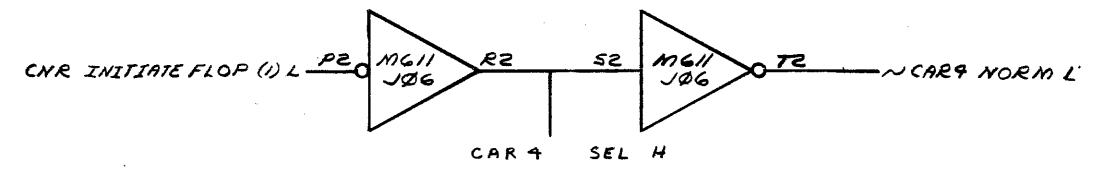
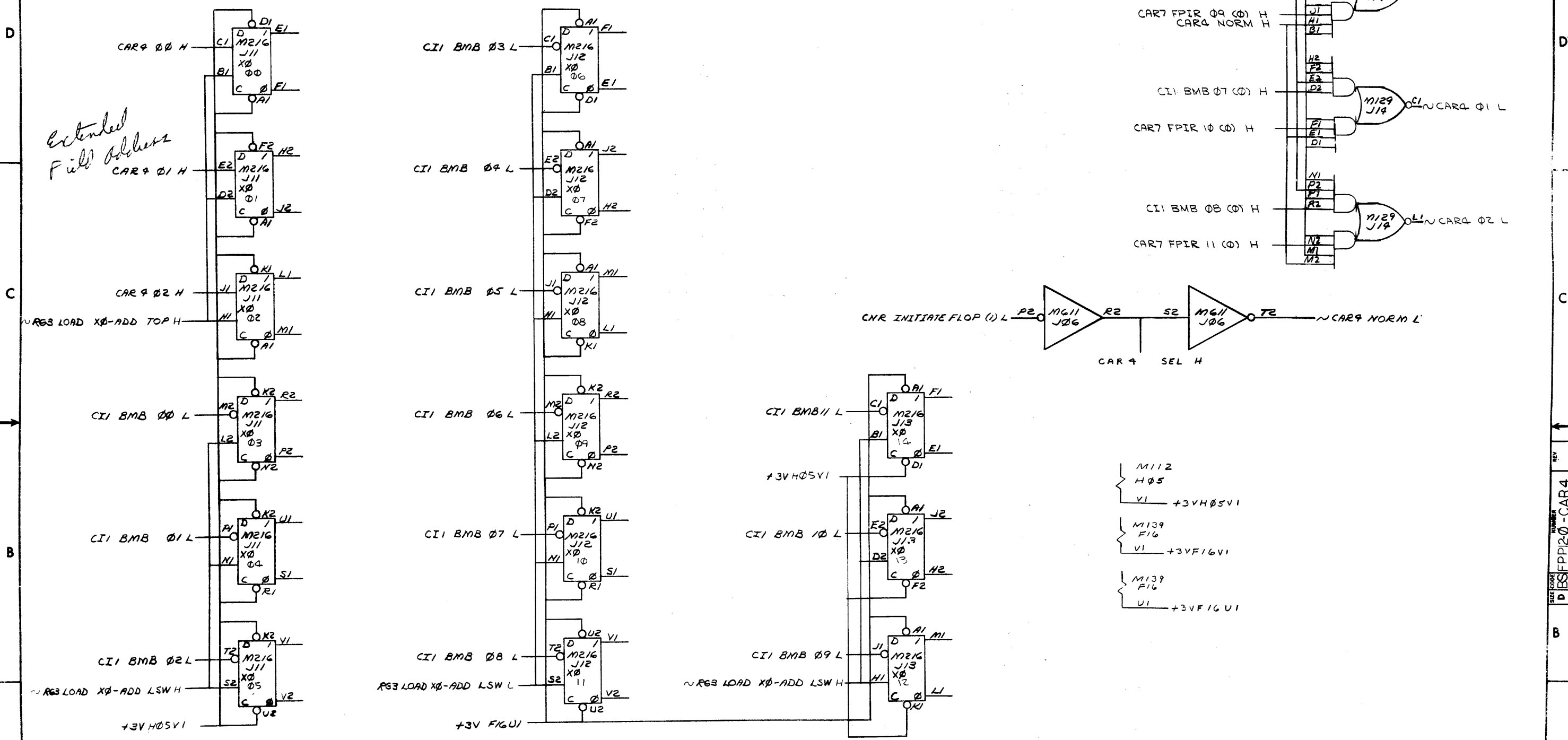


REV	CHANGE NO.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED		DRN	DATE	
DIMENSION IN INCHES		CHK'D	DATE	
TOLERANCES		ENG.	DATE	
DECIMALS FRACTIONS ANGLES		PROJ. ENG.	DATE	
± .005 ± 1/64 ± 0°30'		PRODR	DATE	
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL		NEXT HIGHER ASSY		
FINISH		SCALE		
		SHEET 1 OF 1		
		TITLE		
		COUNTERS AND REGISTERS 3		
		SIZE CODE NUMBER		
		DBS FPP12-0-CAR3		
		REV.		
		DIST.		

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# Xφ Register (X-Register Pointer)



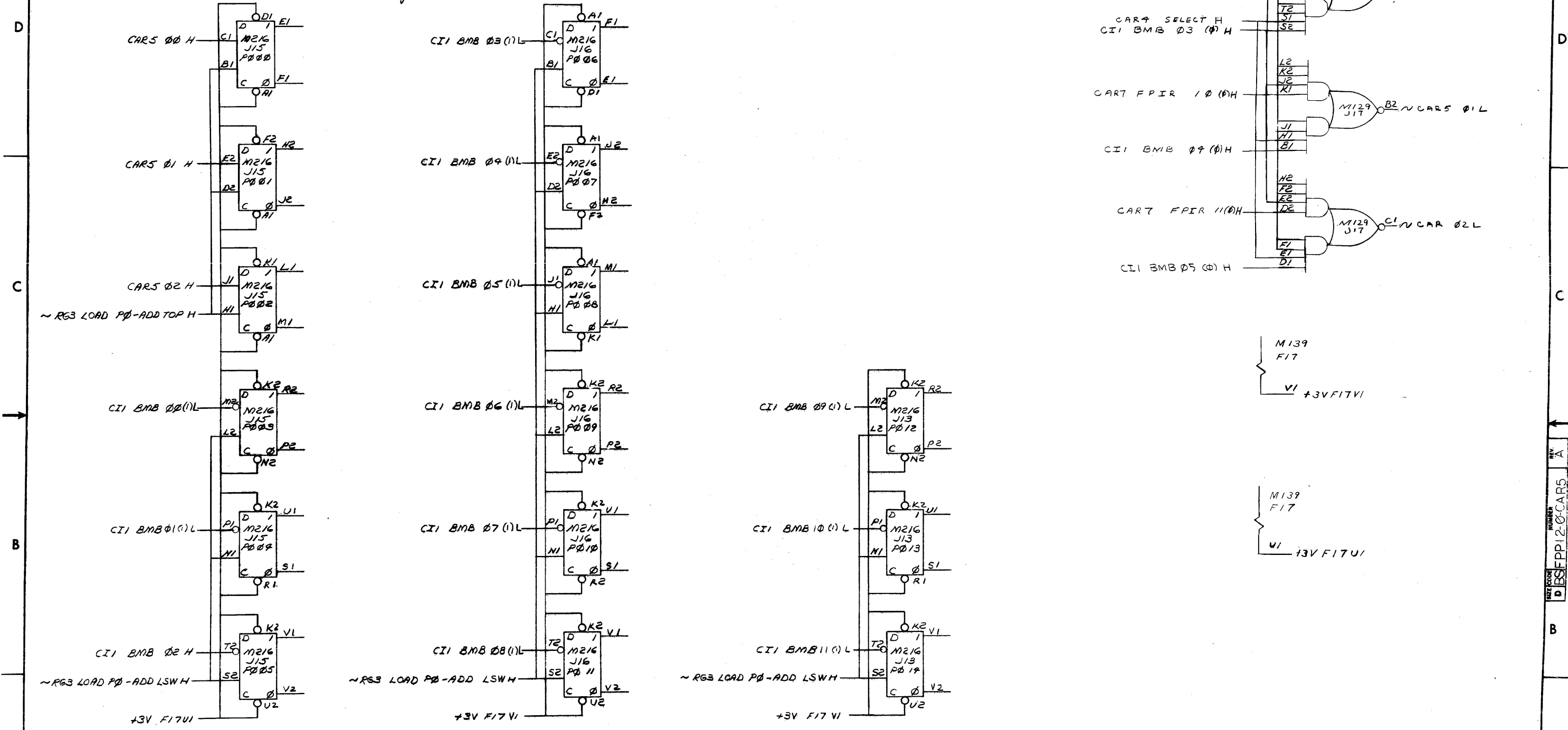
- M112  
H05  
V1 +3VH05V1
- M139  
F16  
V1 +3VF16V1
- M139  
F16  
U1 +3VF16U1

REV	CHG	NO	DATE

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP 12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. INCH	DATE	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D.	DATE		
UNLESS OTHERWISE SPECIFIED	DATE	DATE		
UNLESS OTHERWISE SPECIFIED	DATE	DATE		
DIMENSION IN INCHES		TITLE		
TOLERANCES		<b>COUNTERS AND REGISTERS 4</b>		
DECIMALS FRACTIONS ANGLES				
± .005 ± 1/64 ± 0°30'				
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL		NEXT HIGHER ASSY		
FINISH		A-M-L-FPP12-0		
SCALE		SIZE CODE NUMBER REV.		
SHEET 1 OF 1		DBS FPP12-0-CAR4		

# Base Register (PΦ)

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REV. A	CHG. NO. 0005	DATE 5-24-71
CHK. JY	TECHER	5-24-71

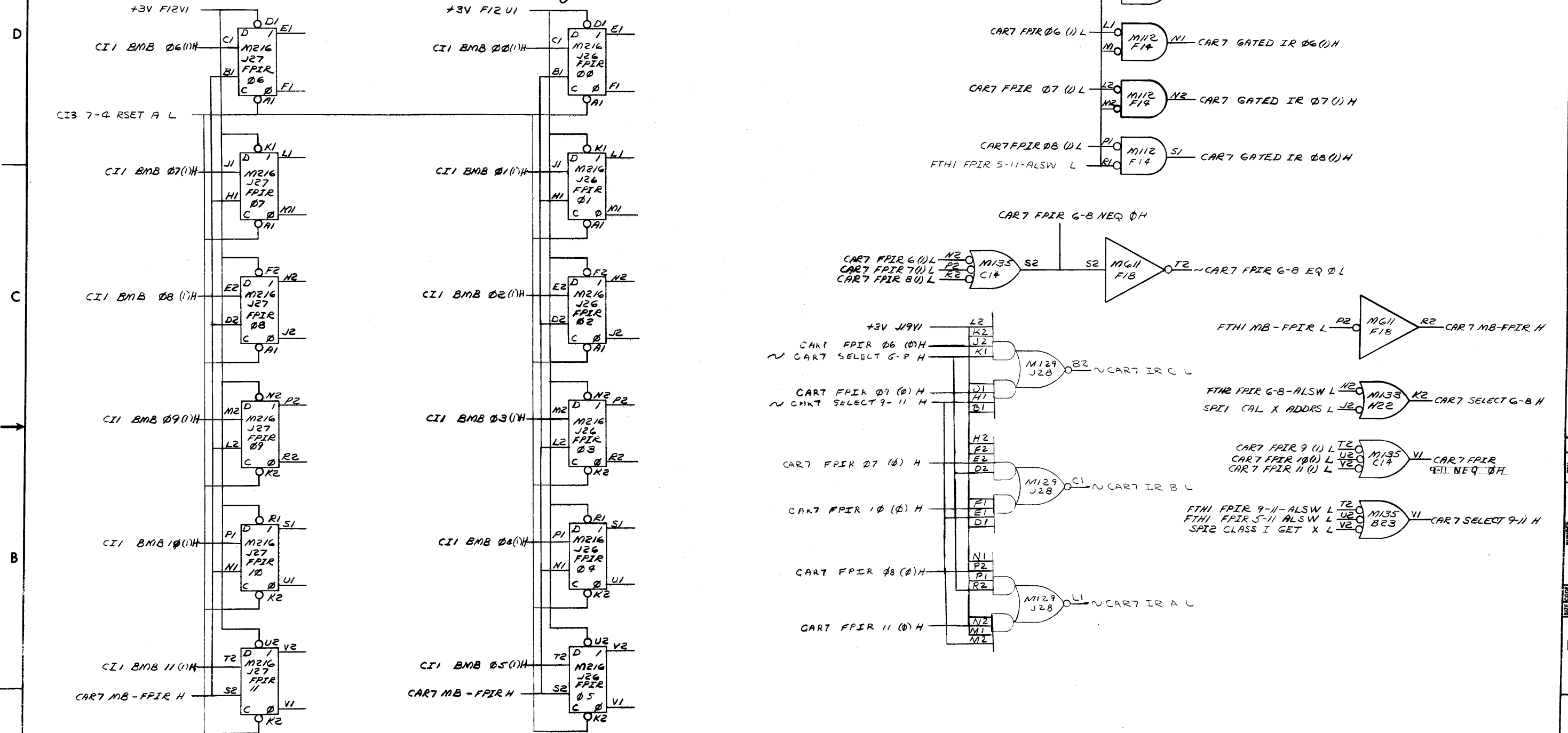
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPPI2				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. <i>W. main</i>	DATE 8-12-70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D. <i>W. main</i>	DATE 10/14/70	TITLE COUNTERS AND REGISTERS 5	
TOLERANCES	ENG. <i>J. Huber</i>	DATE 10/14/70	SIZE CODE DBSFPPI2-0-CAR5	
DECIMALS ± .005	PROJ. ENG. <i>J. Huber</i>	DATE 10/14/70	NUMBER REV. A	
FRACTIONS ± 1/64	PROD. <i>R. Peterson</i>	DATE 12/1/70	SCALE SHEET 1 OF 1	
ANGLES ± 0°30'	NEXT HIGHER ASSY A-ML-FPPI2-0		DST.	
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
FINISH				





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# FPIR - Init. Reg.



FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP 12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. <i>WMA</i>	DATE <i>8-18-70</i>	 <b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D. <i>WMA</i>	DATE <i>10-30-70</i>		
TOLERANCES	ENGR. <i>A. DeWitt</i>	DATE <i>10-31-70</i>		
DECIMALS FRACTIONS ANGLES	PROJ. ENG. <i>A. DeWitt</i>	DATE <i>11-17-70</i>		
± .005 ± 1/64 ± 0°30'	PROD. <i>M. DeWitt</i>	DATE <i>12-11-70</i>	<b>INSTRUCTION REGISTER</b>	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	NEXT HIGHER ASSY			
FINISH	SCALE			
		4M-FPIR-0-0	SIZE CODE	NUMBER
		SHEET 1 OF 1	DIST.	REV.

REV.	CHANGE NO.

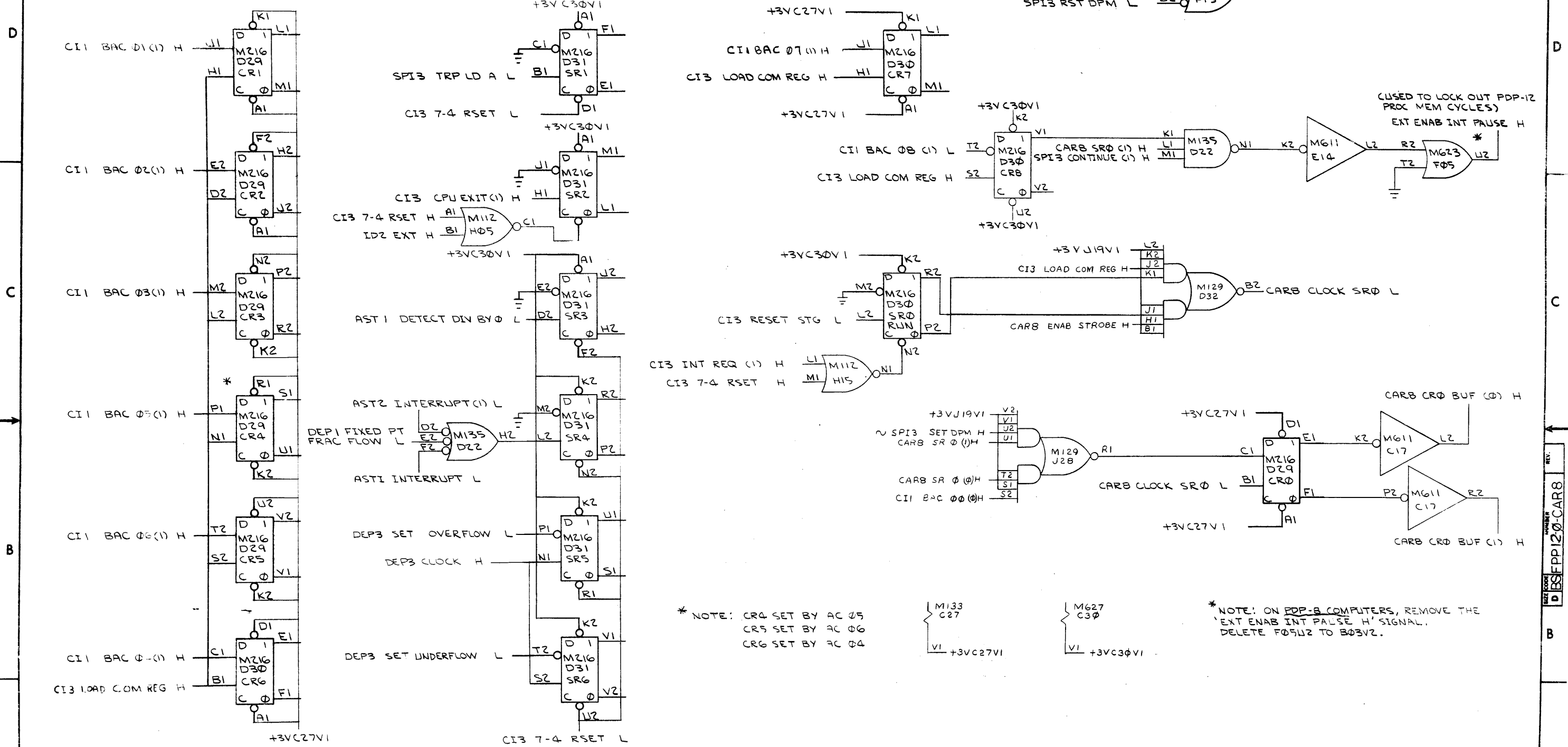
DEC FORM NO. DRD 102A

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REV. 2 DBSFPPI2-0-CAR8

*Command*

*Status*



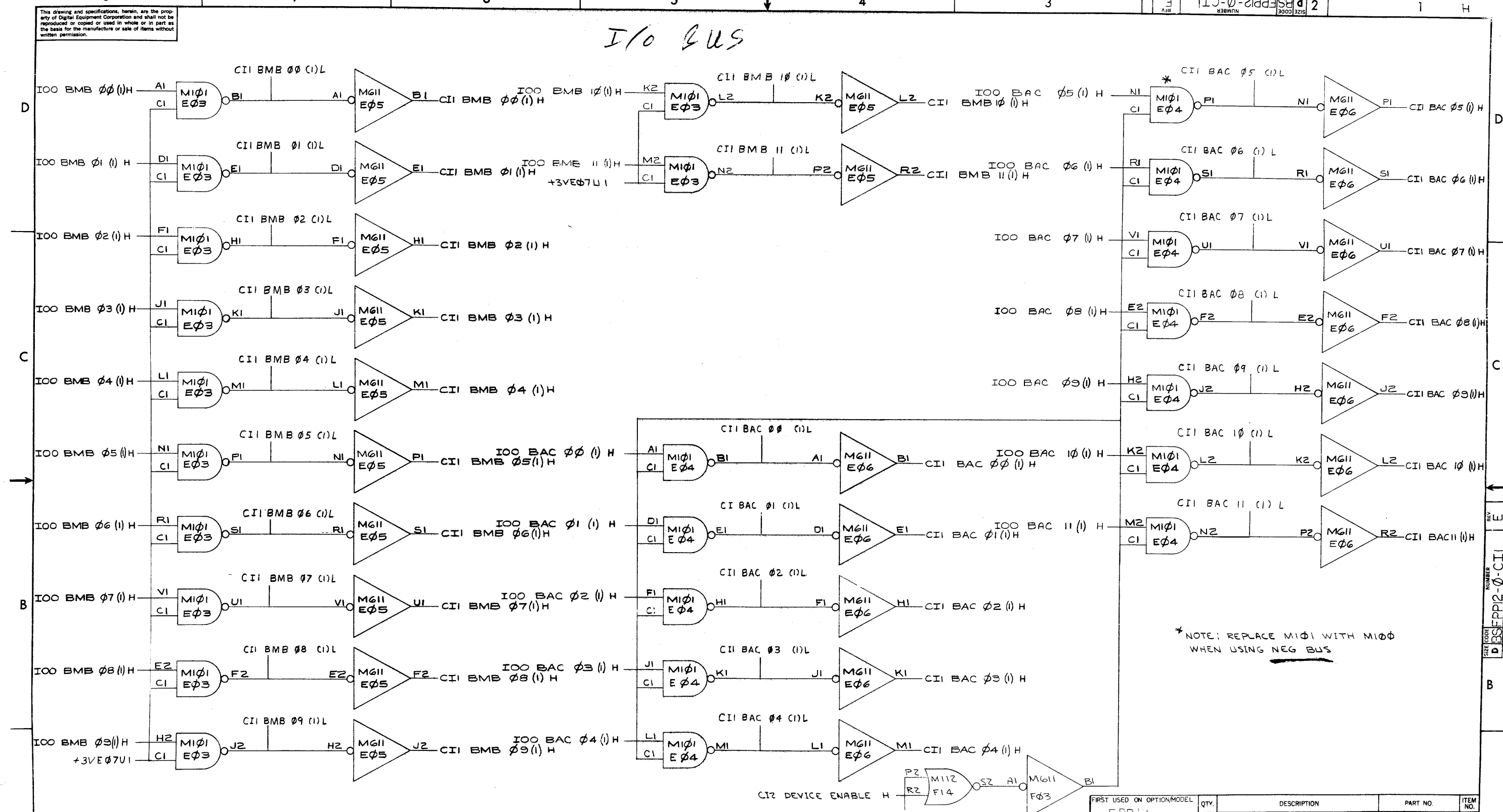
\* NOTE: CR4 SET BY AC 05  
CR5 SET BY AC 06  
CR6 SET BY AC 04

\* NOTE: ON PDP-8 COMPUTERS, REMOVE THE 'EXT ENAB INT PAUSE H' SIGNAL. DELETE F05U2 TO B03V2.

REV.	CHANGE NO.

FIRST USED ON OPTION MODEL FPP 12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. W. Major	DATE 8/2/70	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS <b>COMMAND AND STATUS REGISTERS</b>	
UNLESS OTHERWISE SPECIFIED	CHK'D. W. Major	DATE 12/1/70		
TOLERANCES	ENG. J. Seals	DATE 12/1/70		
DECIMALS FRACTIONS ANGLES	PROJ. ENG. J. Seals	DATE 12/1/70		
± .008 ± 1/64 ± 0°30'	PROD. K. Peterson	DATE 12/1/70		
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	NEXT HIGHER ASSY		A-ML-FPP12-0	
MATERIAL	SCALE		SIZE CODE	NUMBER
FINISH	SHEET 1 OF 1		DBSFPPI2-0-CAR8	REV.

# I/O BUS



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REV	CHANGE NO.	DATE	BY	CHK'D
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B	0005			
C	0007			
D	0008			
E	0011			
F	0012			
G	0013			
H	0014			

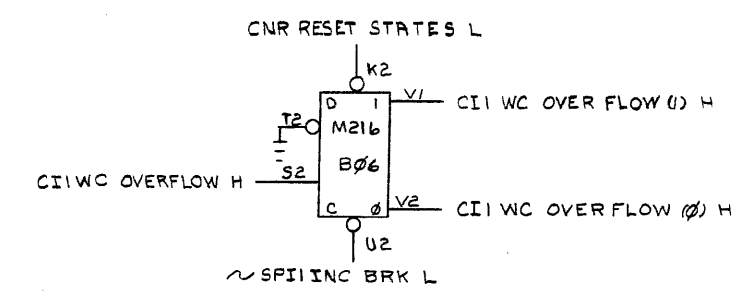
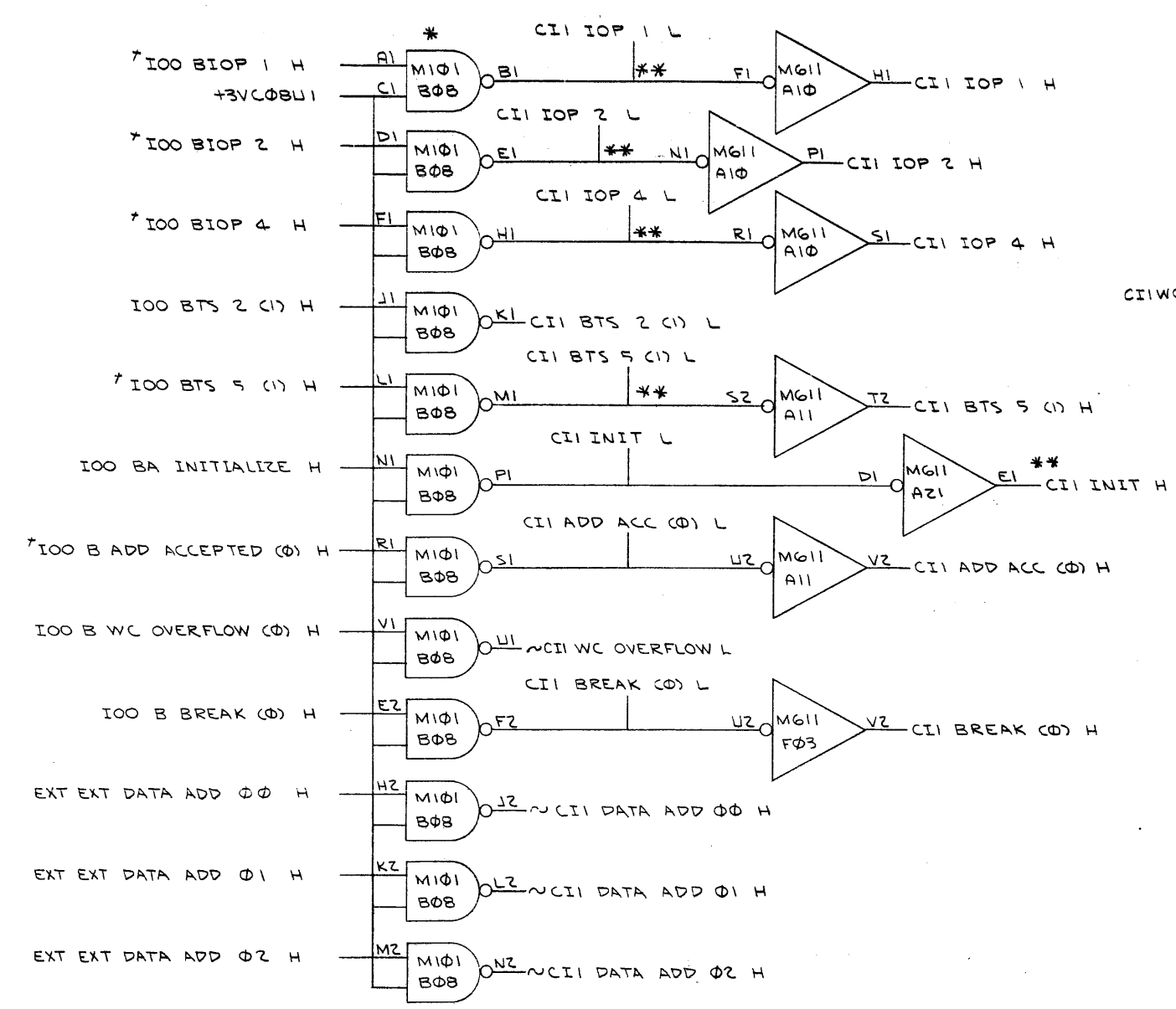
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
TOLERANCES				
DECIMALS	FRACTIONS	ANGLES		
= .005	= 1/64	= 0°30'		
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
NEXT HIGHER ASSY				
FINISH				
SCALE				
SHEET 1 OF 2				

**digital** EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

COMPUTER INTERFACE I

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# I/O BUS



\* REPLACE MI01 WITH MI00 WHEN USING NEG BUS.  
 \*\* ON THE NEG BUS, THE COMPLEMENT IS USED. MAKE THESE CHANGES: (FPP12-N)

CII IOP 1 H	C01M2 - E01M2	DEL
CII IOP 1 H	A10H1 - C01M2	DEL
CII IOP 1 H	C01M2 - E01M2	ADD
CII IOP 1 H	C01M2 - A10F1	ADD
CII IOP 2 H	C01N2 - E01N2	DEL
CII IOP 2 H	C01N2 - A10P1	DEL
CII IOP 2 H	C01N2 - E01N2	ADD
CII IOP 2 H	C01N2 - A10N1	ADD
CII IOP 4 H	C01P2 - E01P2	DEL
CII IOP 4 H	C01P2 - A10S1	DEL
CII IOP 4 H	C01P2 - E01P2	ADD
CII IOP 4 H	C01P2 - A10R1	ADD
CII INIT L	B31P2 - A21D1	DEL
CII INIT H	B31P2 - A21E1	ADD
CII ADD ACC (1) L	A11V2 - D04D1	DEL
CII ADD ACC (1) L	D04D1 - D30N1	DEL
CII BTS 05 (1) L	D30N1 - A11S2	ADD
CII BREAK (0) H	D04D1 - F03Y2	ADD

\* PLACE RESISTOR/CAPACITOR TYPE TERMINATORS AT THESE POINTS TO GROUND WHEN FPP12 IS ON A PDP8 OR UNC 8 BUS.

REV	
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL  
FPP12

DO NOT SCALE DRAWING	UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES	TOLERANCES
DECIMALS	FRACTIONS
ANGLES	ANGLES
FINAL SURFACE QUALITY	REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL	
FINISH	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN	W. MAJOR	DATE	12/11/70
CHK'D	W. MAJOR	DATE	2/11/70
ENG	J. JACOBS	DATE	12/11/70
PROJ. ENG.	J. JACOBS	DATE	12/11/70
PROD.		DATE	12/11/70
NEXT HIGHER ASSY		A-M-L-FPP12-0	
SCALE		SIZE CODE	D BS FPP12-0-CII
SHEET 2 OF 2		NUMBER	
		REV.	E

**digital** EQUIPMENT CORPORATION  
 TITLE: COMPUTER INTERFACE I




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# MAINT. JOT'S

W130/ W131  
A05

BI	+8V	
CI	DBC2 DATA ADD 00 L	(TRAPS)
HI	CNR EXECUTE FLOP (1) H	(BSR3)
NI	STG CT 1 H	(TST1)
SI	CAR7 FPIR 00 (1) H	(ISR0)
VI	STG CT 2 H	(TST2)
DZ	CNR EXIT FLOP (1) H	(BSR14)
EZ	CNR FETCH FLOP (1) H	(BSR1)
HZ	CT3 INT REQ (1) H	(BSR12)
JZ	DBC1 REQ BRK CYCLE (1) H	(BSRB)
KZ	STG CT 0 H	(R/W)
LZ	CNR PROCESS FLOP (1) H	(BSR7)
MZ	CAR7 FPIR 01 (1) H	(ISR1)
NZ	CNR DEPOSIT FLOP (1) H	(BSR15)
PZ	STG CT 3 H	(ISR2)
RZ	CNR INITIATE FLOP (1) H	(BSR0)
TZ	DBC2 DATA ADD 01 H	(MSYN)
UZ	DBC2 DATA ADD 02 H	(SSYN)
FZ	CAR7 FPIR 02 (1) H	(ISR3)
E1	CAR7 FPIR 03 (1) H	(ISR7)
R1	CAR7 FPIR 04 (1) H	(ISR15)
K1	CAR7 FPIR 05 (1) H	(ISR14)
S2	CAR7 FPIR 06 (1) H	(ISR12)
M1	CAR7 FPIR 07 (1) H	(ISR0)
P1	CAR7 FPIR 08 (1) H	(N)
L1	CAR7 FPIR 09 (1) H	(N)
F1	CAR7 FPIR 10 (1) H	(V)
D1	CAR7 FPIR 11 (1) H	(C)
L1	CAR8 SRO (1) H	(T)

FIRST USED ON OPTION / MODEL	QTY.	DESCRIPTION	PART NO	ITEM NO.	
FPP12					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED	DRN. W.MAJOR	DATE 11/19/70	 <b>digital</b> EQUIPMENT CORPORATION <small>WAYNARD MASSACHUSETTS</small>		
UNLESS OTHERWISE SPECIFIED	CHK'D. W.Major	DATE 12/1/70			
TOLERANCES					TITLE
DECIMALS FRACTIONS ANGLES	ENG. J. J. J.	DATE 12/1/70			MAINTENANCE IOT CONTROL
± .005 ± 1/64 ± 0°30'	PROJ. ENG. J. J. J.	DATE 12/1/70			
FINAL SURFACE QUALITY	PROD. H. Peterson	DATE 12/1/70	NEXT HIGHER ASSY		
REMOVE BURRS AND BREAK SHARP CORNERS	A-ML-FPP12-0				
MATERIAL	SIZE CODE NUMBER REV				
FINISH	D BS FPP12-0-C12 A				
SCALE	SHEET 2 OF 2				
DIST.					

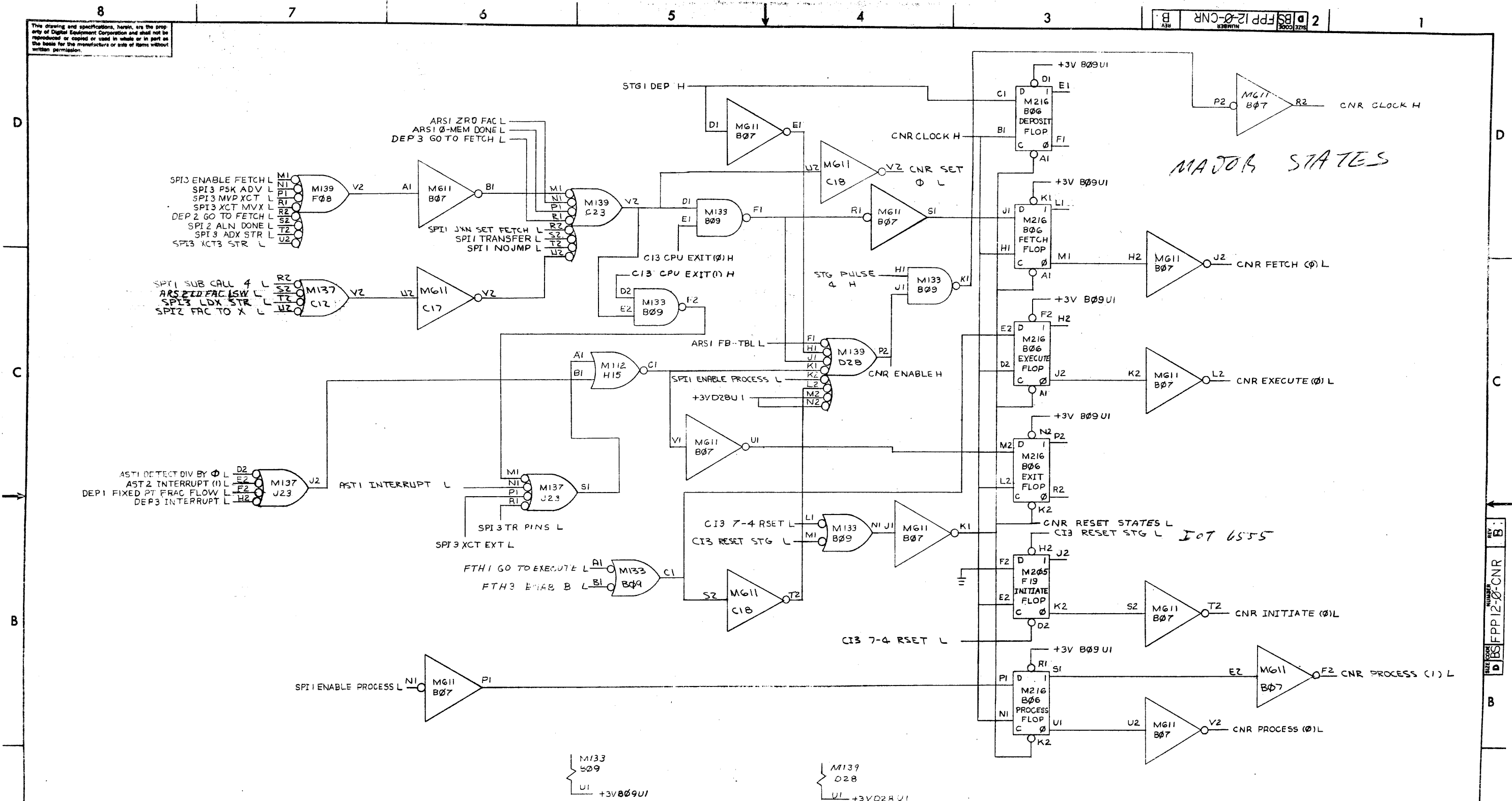
REV	CHANGE NO.

DEC FORM NO. DRD 102A





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MAJOR STATES

IOT 6555

M133 509 UI +3VB09UI  
M139 028 UI +3VD28UI

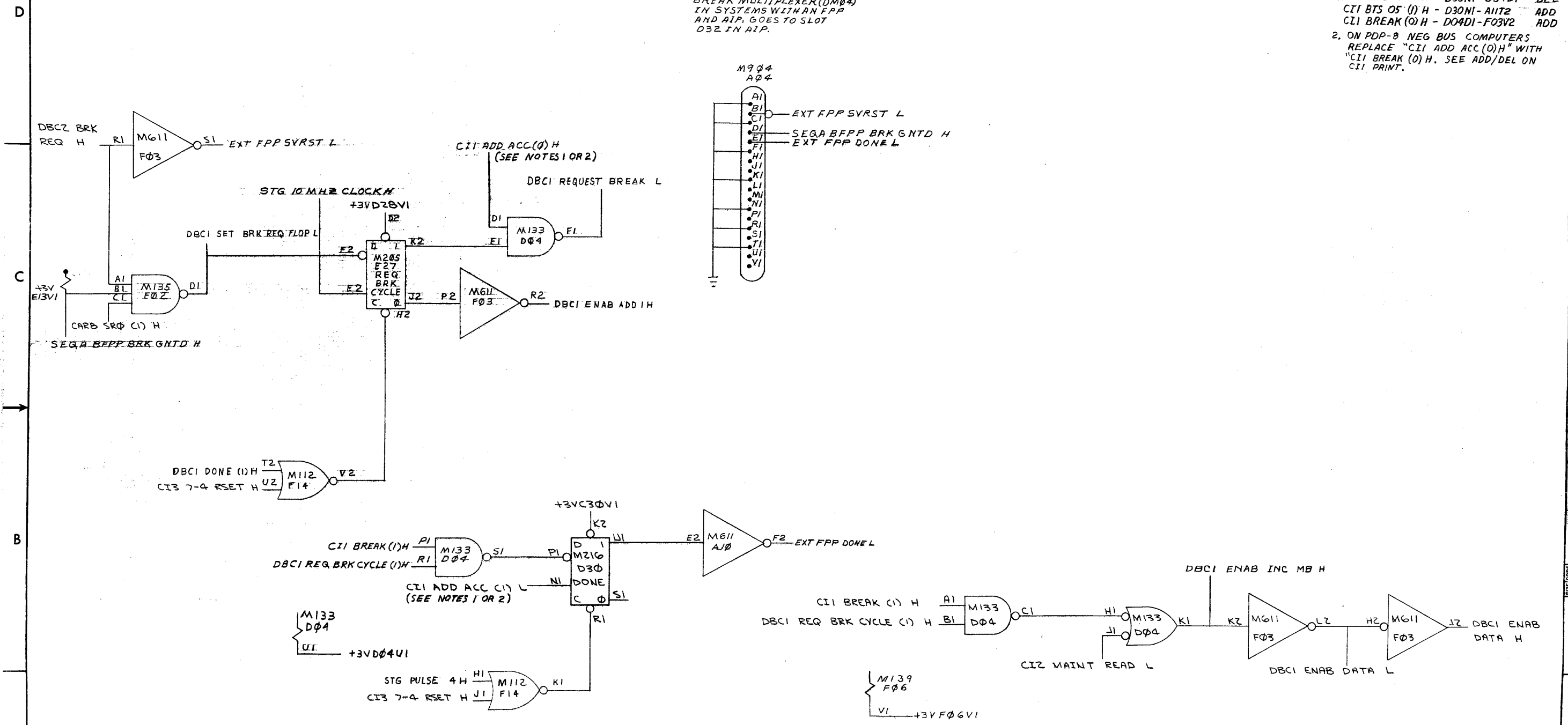
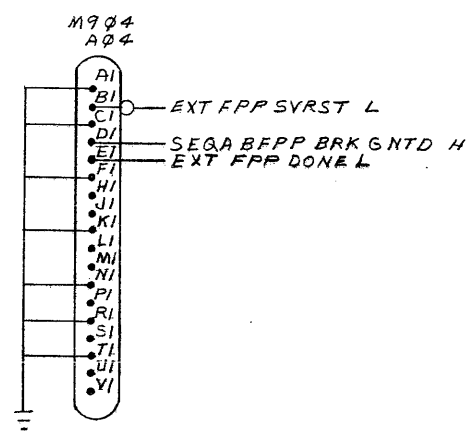
REV	CHANGE NO	DATE	BY
A	FPP12-0002	8-3-70	J. S. TEICHER
B	FPP12-0005	10-30-70	J. S. TEICHER

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED: DRN V. B. 00000000 DATE 8-3-70				
UNLESS OTHERWISE SPECIFIED: CHK'D DATE 10/30/70				
TOLERANCES: DIMENSION IN INCHES				
DECIMALS FRACTIONS ANGLES				
± .008 ± .125 ± 0°30'				
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL: NEXT HIGHER ASSY				
L-ML-FPP12-0				
FINISH: SCALE: NONE				
SHEET 1 OF DIST.				

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- NOTES:
- ON PDP-B POS. BUS COMPUTERS MAKE THE FOLLOWING CHANGES (FPP12-B)  
 C11 ADD ACC (1) L - A11V2 - D04D1 DEL  
 D30N1 - D04D1 DEL  
 C11 B7S 05 (1) H - D30N1 - A11T2 ADD  
 C11 BREAK (0) H - D04D1 - F03V2 ADD
  - ON PDP-B NEG BUS COMPUTERS REPLACE "C11 ADD ACC (0) H" WITH "C11 BREAK (0) H". SEE ADD/DEL ON C11 PRINT.

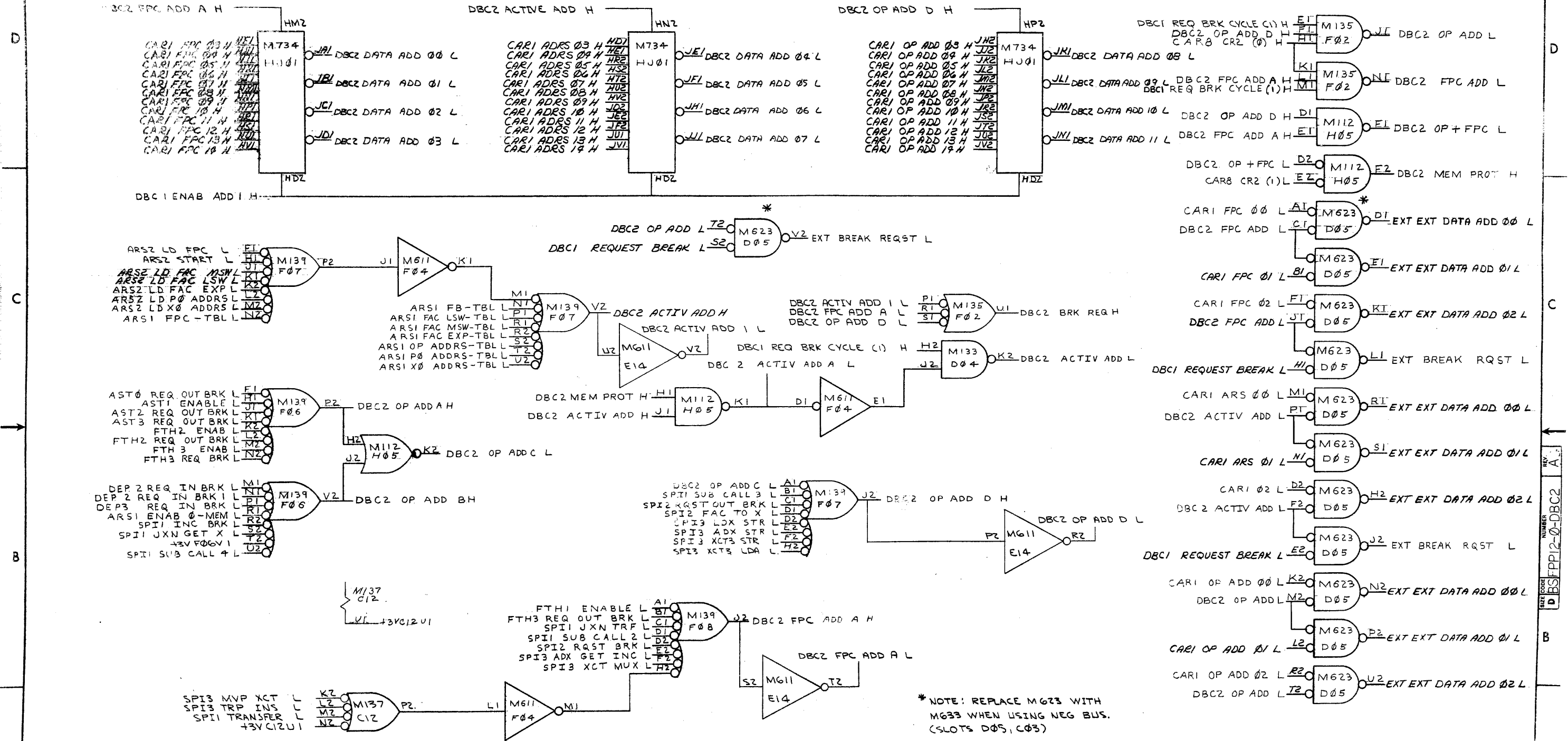
THE CABLE BELOW IS USED IN LIEU OF A DATA BREAK MULTIPLEXER (DM04) IN SYSTEMS WITH AN FPP AND AIP. GOES TO SLOT 032 IN AIP.



REV.	CHANGE NO.	REV.
A	00003	FPP12-00003
B	00005	FPP12-00005
C	00006	FPP12-00006
D	00011	FPP12-00011
E	00013	FPP12-00013
F	00014	FPP12-00014

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
FPP12			
UNLESS OTHERWISE SPECIFIED			
DIMENSION IN INCHES			
TOLERANCES			
DECIMALS FRACTIONS ANGLES			
± .005 ± 1/64 ± 0°30'			
FINAL SURFACE QUALITY			
REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL			
NEXT HIGHER ASSY			
FINISH			
SCALE NONE			
SHEET OF			
TITLE			
DATA BRK CONTROL I			
SIZE CODE			
DBS FPP12-0-DBC1			
NUMBER			
REV. F			

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REV.	CHANGE NO.	DATE	BY	CHK
A	FPP12-00014	9-18-73	R. TIKNAN	

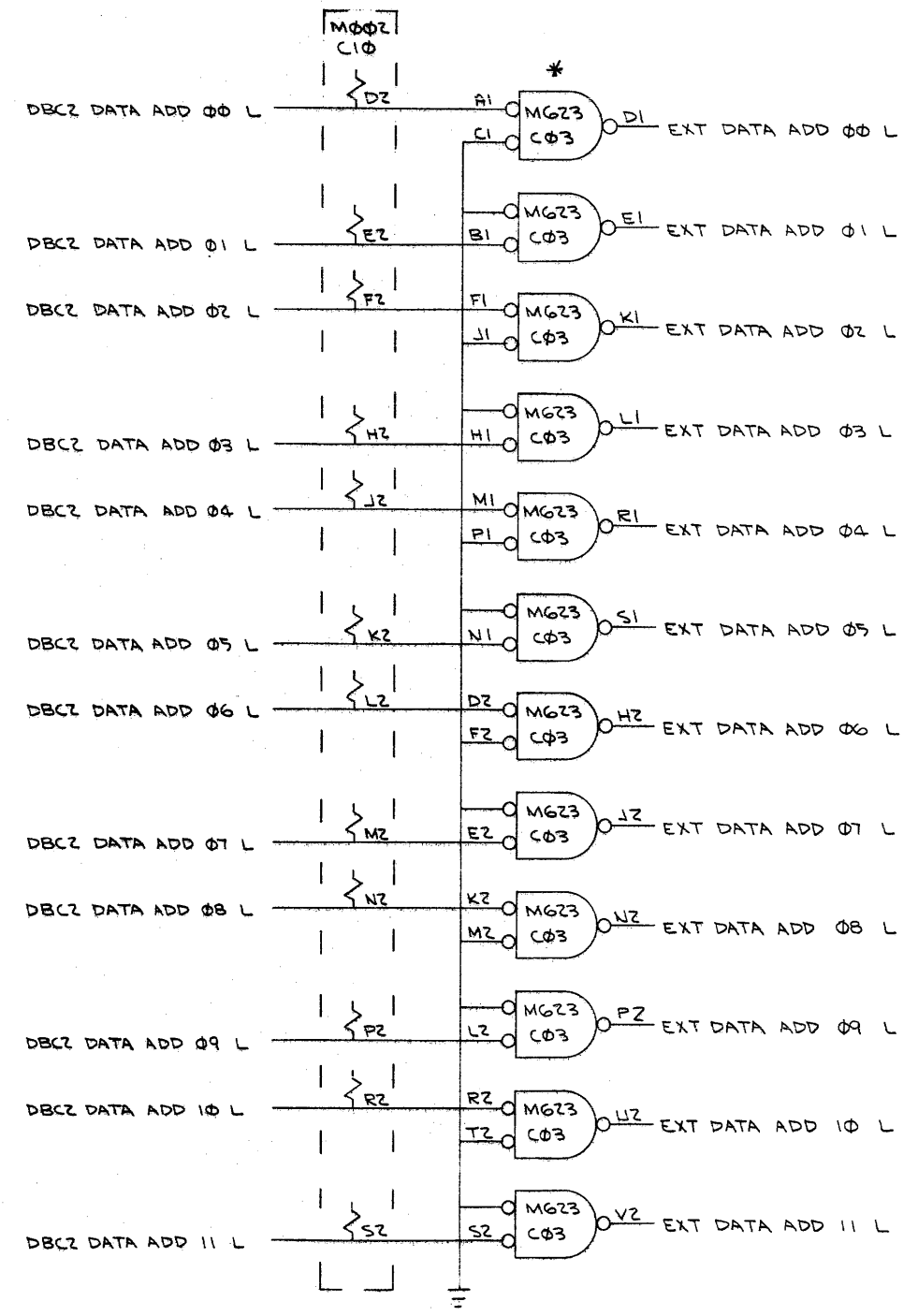
QTY.	DESCRIPTION	PART NO.	ITEM NO.
	PARTS LIST		
	UNLESS OTHERWISE SPECIFIED		
	DIMENSION IN INCHES		
	TOLERANCES		
	DECIMALS FRACTIONS ANGLES		
	± 0.05 ± 1/64 ± 0°30'		
	FINAL SURFACE QUALITY		
	REMOVE BURRS AND BREAK SHARP CORNERS		
	MATERIAL		
	NEXT HIGHER ASSY		
	SCALE NONE		
	SHEET 1 OF 2		

digital EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

TITLE  
DATA BREAK  
ADD MUX

SIZE CODE NUMBER  
DBS/FPP12-0-DBC2  
REV A

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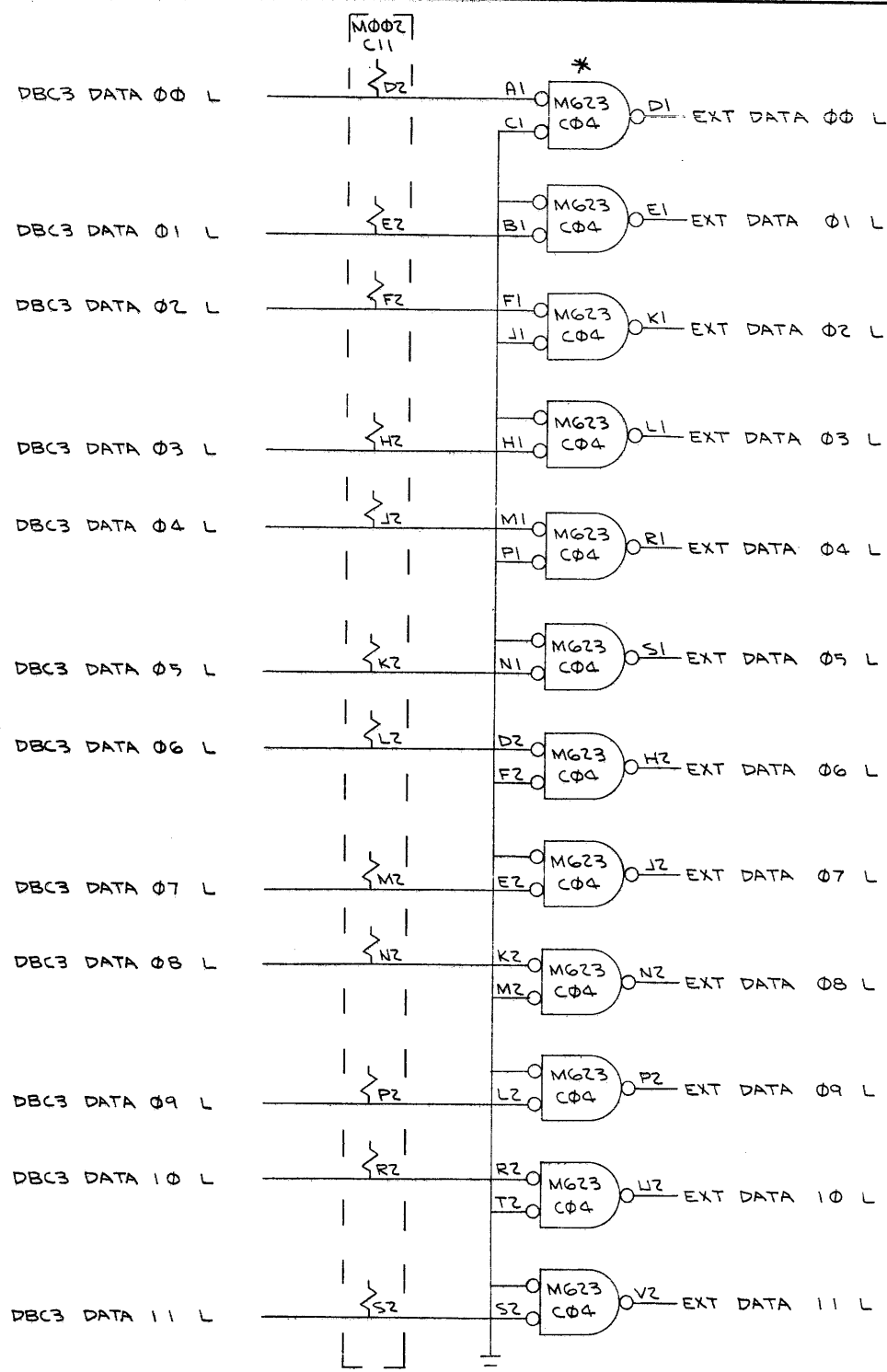


FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. W. MAJOR	DATE 10/29/70	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D. W. MAJOR	DATE 10/30/70		
TOLERANCES		DATE 10/28/70	TITLE DATA BREAK ADD MUX	
DECIMALS ± .005	FRACTIONS ± 1/64	ANGLES = 0°30'		
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	NEXT HIGHER ASSY		SIZE CODE NUMBER REV. DBS FPP12-0-DBC2 A	
FINISH	A-ML-FPP12-0			
SCALE		SHEET 2 OF 2		
DIST.		1		

REV.	CHANGE NO.



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D  
 C  
 B  
 A

D  
 C  
 B  
 A

REV.	
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL  
 FPP 12

DO NOT SCALE DRAWING  
 UNLESS OTHERWISE SPECIFIED  
 DIMENSION IN INCHES  
 TOLERANCES  
 DECIMALS FRACTIONS ANGLES  
 ± .005 ± 1/64 = 0°30'  
 FINAL SURFACE QUALITY /  
 REMOVE BURRS AND BREAK SHARP  
 CORNERS  
 MATERIAL  
 FINISH

DRN.	W. MAJOR	DATE	10/20/70
CHK'D.	W. MAJOR	DATE	10/30/70
ENG.	J. DEWIS	DATE	10/30/70
PROJ. ENG.	A. DEWIS	DATE	10/30/70
PROD.	R. PETERSON	DATE	12/1/70

PARTS LIST	
QTY.	DESCRIPTION
	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
TITLE DATA MUX	
SIZE CODE	NUMBER
D	BS FPP12-0-DBC3
SCALE	REV. C
SHEET 2 OF 2	DIST.

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DEP1 ARITH OVERFLOW (0)H  
 ~ ID2 RESULTS TO MEM H  
 STG ST 11 H

M135 B27 UI DEP1 GO TO ST14 L  
 (0 → FAC FRAC)

STG ST 11 H AI  
 CRIB CR0 C1) H BI

M133 B26 CI DEP1 ADVANCE L

DEP1 ENAB SHFT 0 L  
 (ENAB DEC SC)

STG ST 11 H I2  
 CRIB CR0 C1) H U2  
 ~ ATZ NORMALIZED H V2

M135 B31 VI

STG ST 11 H AI  
 CRIB CR0 C1) H BI  
 ATZ NORMALIZED H CI

M135 B27 DI DEP1 NORMALIZE DONE L  
 (ADVANCE)

DEP1 OP SIGN NEG L  
 (NO OVFL0 POSSIBLE)

STG ST 11 H EI  
 STG MINI STATE 1 BUF H HI  
 ANSW OUT 00 H HI

M135 B27 JI

M133 B26 KI DEP1 CHECK FOR FLOW (0) H

M133 B26 K2 DEP1 CHECK FOR FLOW (0) H

~ STG STATE 11 L J2

STG ST 12 H PI  
 ~ ID2 RESULTS TO MEM H RI

M133 B26 SI DEP1 GO TO ST14 AL  
 (QUALIFIES ADVANCE)

STG ST 12 H P2  
 STG MINI STATE 1 BUF H R2

M133 B26 S2 DEP1 0-B SHIFT TO LSB L  
 (0 → B0)

STG ST 12 H T2  
 STG MINI STATE 2 BUF H U2

M133 B26 V2 DEP1 B-0 L

STG ST 11 H DI  
 STG MINI STATE 1 BUF H EI

M133 B26 FI DEP1 0-A L

STG ST 11 H D2  
 STG MINI STATE 2 BUF H E2

M133 B26 F2 DEP1 ST 11 A+B TO 0 L  
 (0-(25) → CARRY INSERT)

STG ST 11 H KI  
 CRIB CR0 C1) H LI  
 DEP1 ARITH OVERFLOW (0)H MI

M135 B27 NI DEP1 FIXED PT FRAC FLOW L  
 (INTERRUPT)

DEP1 GO TO ST 14 L N2  
 ~ STG ST 11 L P2  
 DEP1 ARITH OVERFLOW (0) L R2

M135 A32 S2 DEP1 GO 13 H

STG ST 11 H AI  
 DEP1 CHECK FOR FLOW (0)H BI  
 ANSW OUT 00 H CI  
 STG STATE 3 H DI

M137 B28 EI

M133 B26 LI DEP1 ARITH OVERFLOW (0) H

M133 B26 MI

M133 B26 N2 DEP1 ARITH OVERFLOW (0) H

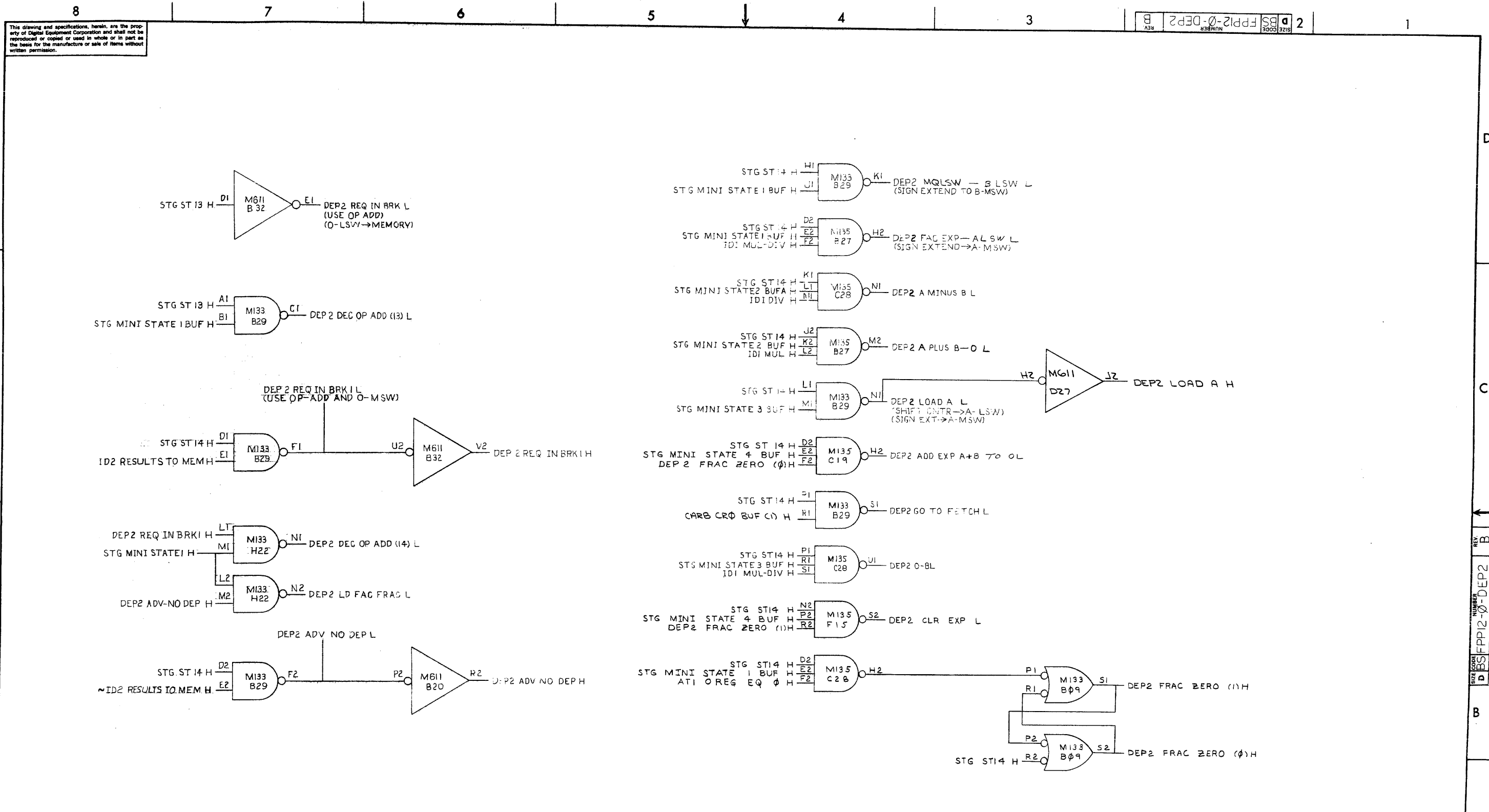
~ STG ST 11 L M2

REV.	
CHANGE NO.	
CHK	

FIRST USED ON OPTION MODEL FPP 12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHKD.	DATE	TITLE	
TOLERANCES	ENG.	DATE	DEPOSIT RESULTS I	
DECIMALS FRACTIONS ANGLES	PROJ. ENG.	DATE	SIZE CODE NUMBER REV.	
= .005 ± 1/64 ± 0°30'	PROD.	DATE	DBS FPP12-0-DEP1	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	NEXT HIGHER ASSY.			
MATERIAL	A-ML-FPP12-0			
FINISH	SCALE NONE			
SHEET 1 OF 1	DIST.			

REV. 2  
 NUMBER FPP12-0-DEP1  
 SIZE CODE DBS

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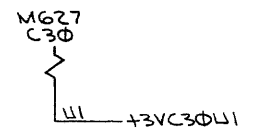
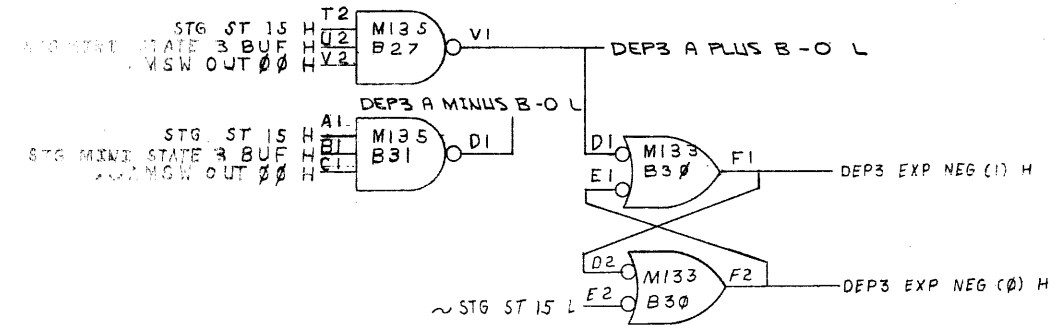
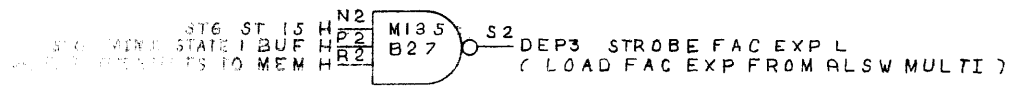
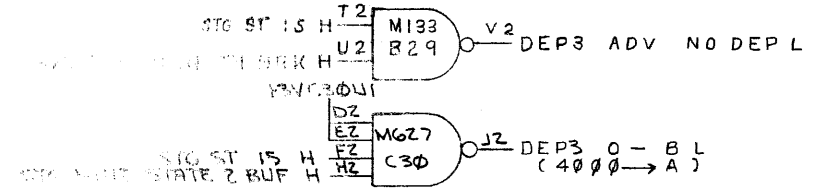
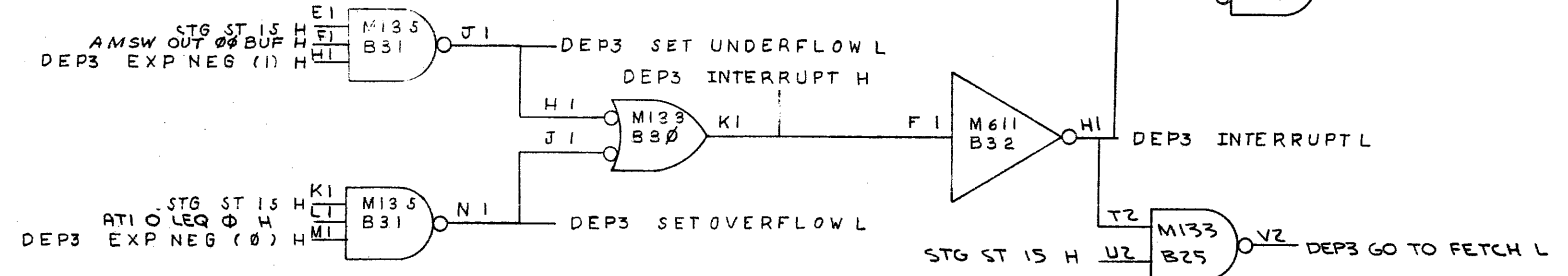
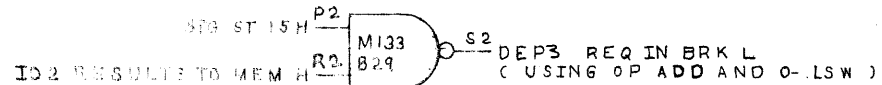
REV	CHG	NO	DATE
A	1	1	7/31/70
B	1	1	10/30/70
C	1	1	11/17/70
D	1	1	12/1/70

S. TEICHER  
 F. MOORE  
 3-9-71  
 3-18-72  
 3-30-72

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
UNLESS OTHERWISE SPECIFIED				
DRN	DKC	A. FRATICELLI	DATE	7/31/70
CHKD		W. MAISON	DATE	10/30/70
ENG		J. SACHS	DATE	10/30/70
PROJ. ENG.		A. DUBOIS	DATE	11/17/70
PROP.		R. PATTERSON	DATE	12/1/70
MATERIAL				
NEXT HIGHER ASSY				
A-ML-FPP12-0				
FINISH				
SCALE NCNE				
SHEET OF				
TITLE		DEPOSIT RESULTS 2		
SIZE CODE		NUMBER		
D BS		FPP12-0-DEP2		
REV		B		



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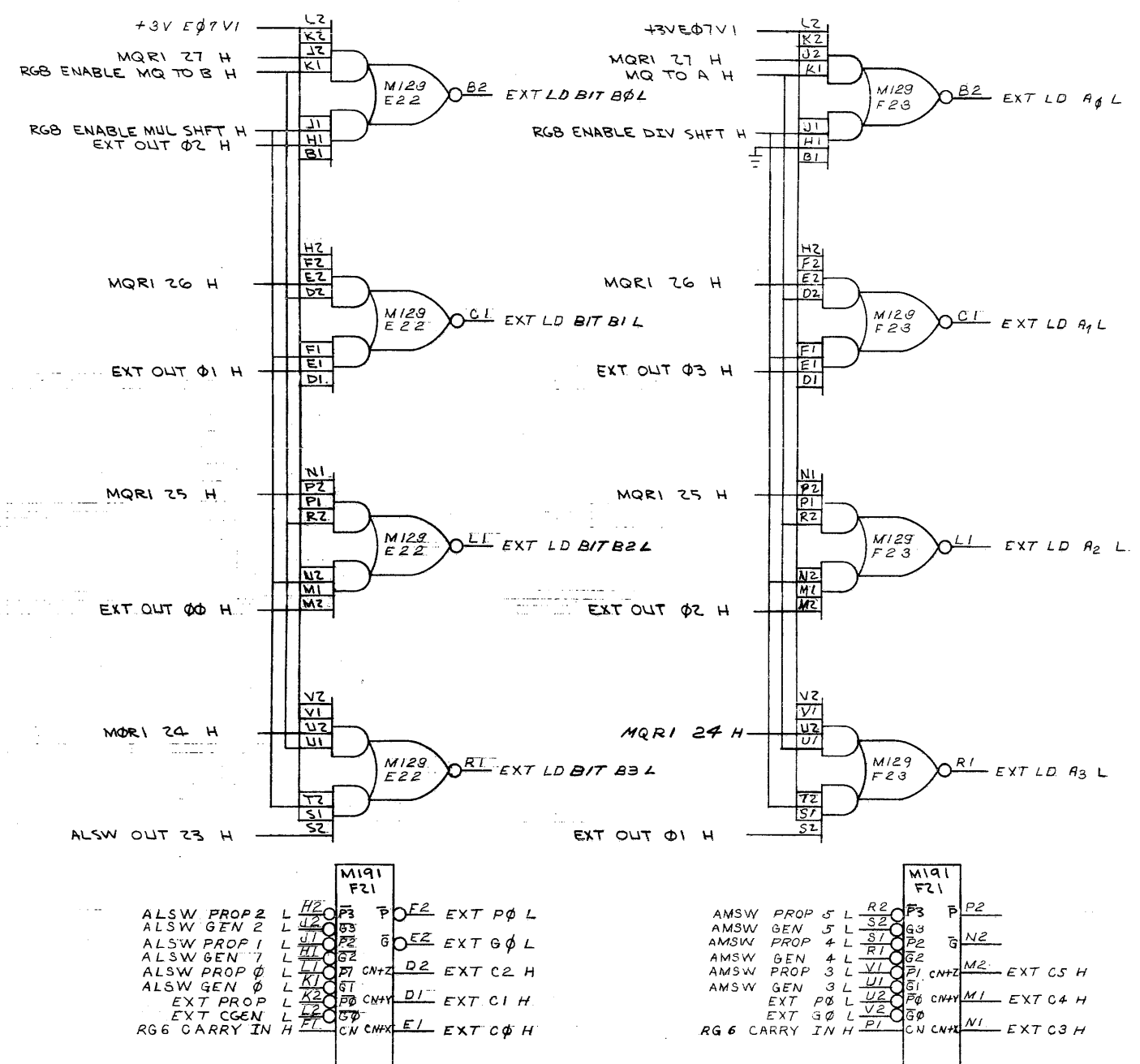


REV.	CHG	NO.	DATE
1			
2			
3			
4			
5			
6			
7			

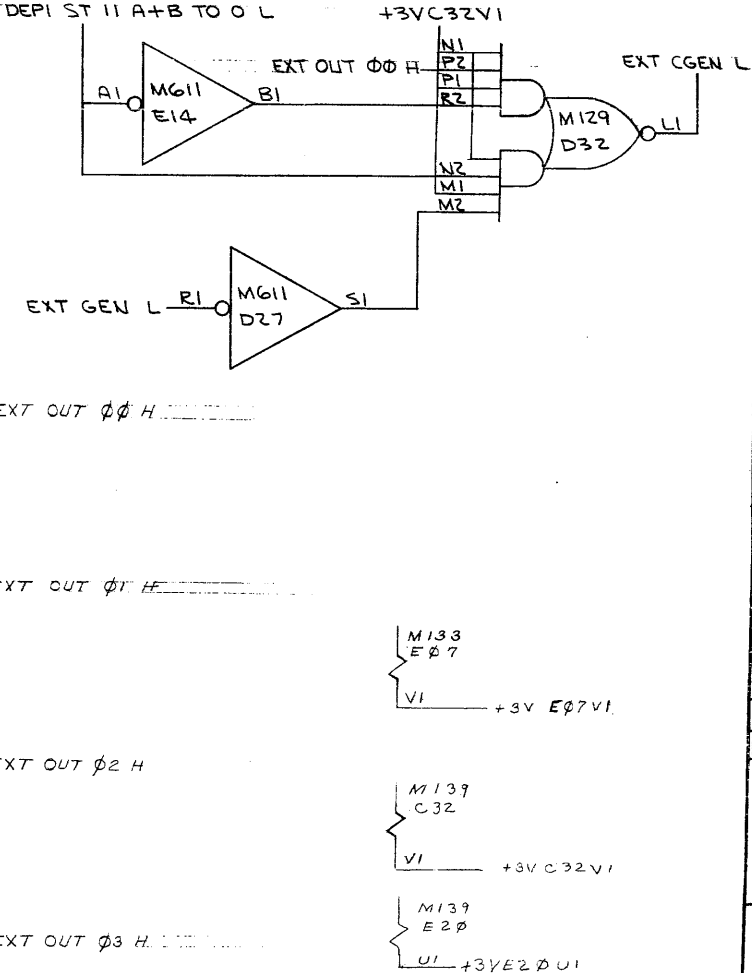
FIRST USED ON OPTION / MODEL FPP12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED	DRM: <i>DKC</i>	DATE: <i>1-31-70</i>	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHKD: <i>W. Major</i>	DATE: <i>11/10/70</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES	ENG: <i>J. Neils</i>	DATE: <i>10/20/70</i>	TITLE	
DECIMALS FRACTIONS ANGLES	PROJ. ENG: <i>J. Neils</i>	DATE: <i>10/20/70</i>	DEPOSIT RESULTS 3	
REMOVE BURRS AND BREAK SHARP CORNERS	PROP: <i>R. Peterson</i>	DATE: <i>12/1/70</i>	NEXT HIGHER ASSY	
MATERIAL	A-M-L-FPP12-0			
FINISH	SCALE: NONE			
SHEET OF	SIZE CODE: D			
	NUMBER: FPP12-0-DEP3			
	REV: A			

REV. A  
NUMBER  
D BS FPP12-0-DEP3

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EXT LD A3 L	A3	F0	U2	EXT OUT 03 L
EXT LD A2 L	A2	F1	S2	EXT OUT 02 L
EXT LD A1 L	A1	F2	M1	EXT OUT 01 L
EXT LD A0 L	A0	F3	R2	EXT OUT 00 L
EXT LD B3 L	B3	G	M2	EXT GEN L
EXT LD B2 L	B2	B	P2	EXT PROP L
EXT LD B1 L	B1	CNT+4	N2	
EXT LD B0 L	B0	A-MSB	S1	EXT A MSB H
ALSW B REG IS B0 H	L2	B SERIAL	F1	EXT BLSB H
R01 CLOCK LSWB H	K2	B CLOCK COMPARE	B2	
R01 ENAB SHFT B L	D2	B LOAD H/SHFT L		
R01 INV I4 L	E1	A INV		
R01 STROBE A LSW L	U1	A STROBE		
+3V H2SV1	R1	A CLOCK		
+3VE20U1	V2	O SERIAL		
R01 CLOCK O H	T2	O CLOCK		
R01 ENAB SHFT O L	E1	O LOADH/SHFT L		
R06 CARRY IN H	R1	CARRY IN		
R06 INH CARRY H	V1	INHIBIT		
R06 S3 H	E1	X3		
R06 S2 H	D1	X2		
R06 S1 H	C1	X1		
R06 S0 H	B1	X0		



ALSW PROP 2 L	H2	P3	P	F2	EXT P0 L
ALSW GEN 2 L	U2	B3	G3	S2	EXT G0 L
ALSW PROP 1 L	J1	P2	G	E2	EXT G0 L
ALSW GEN 1 L	H1	G2	G	N2	EXT CS H
ALSW PROP 0 L	L1	P1	CNT+	D2	EXT C2 H
ALSW GEN 0 L	K1	G1	CNT+	S1	EXT C4 H
EXT PROP L	K2	P0	CNT+	D1	EXT C1 H
EXT CGEN L	L2	B0	CNT+	S0	EXT C0 H
R06 CARRY IN H	E1	CNT	CNT+	E1	EXT C0 H

REV	CHANGE NO	DATE
1	00007	A
CM - Moore 9-3-71		
R - Moore 9-8-71		

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP 12				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
= .005 ± 1/64 = 0°00'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
NEXT HIGHER ASSY				
A-ML-FPP12-0				
SCALE NONE				
SHEET 1 OF 2				

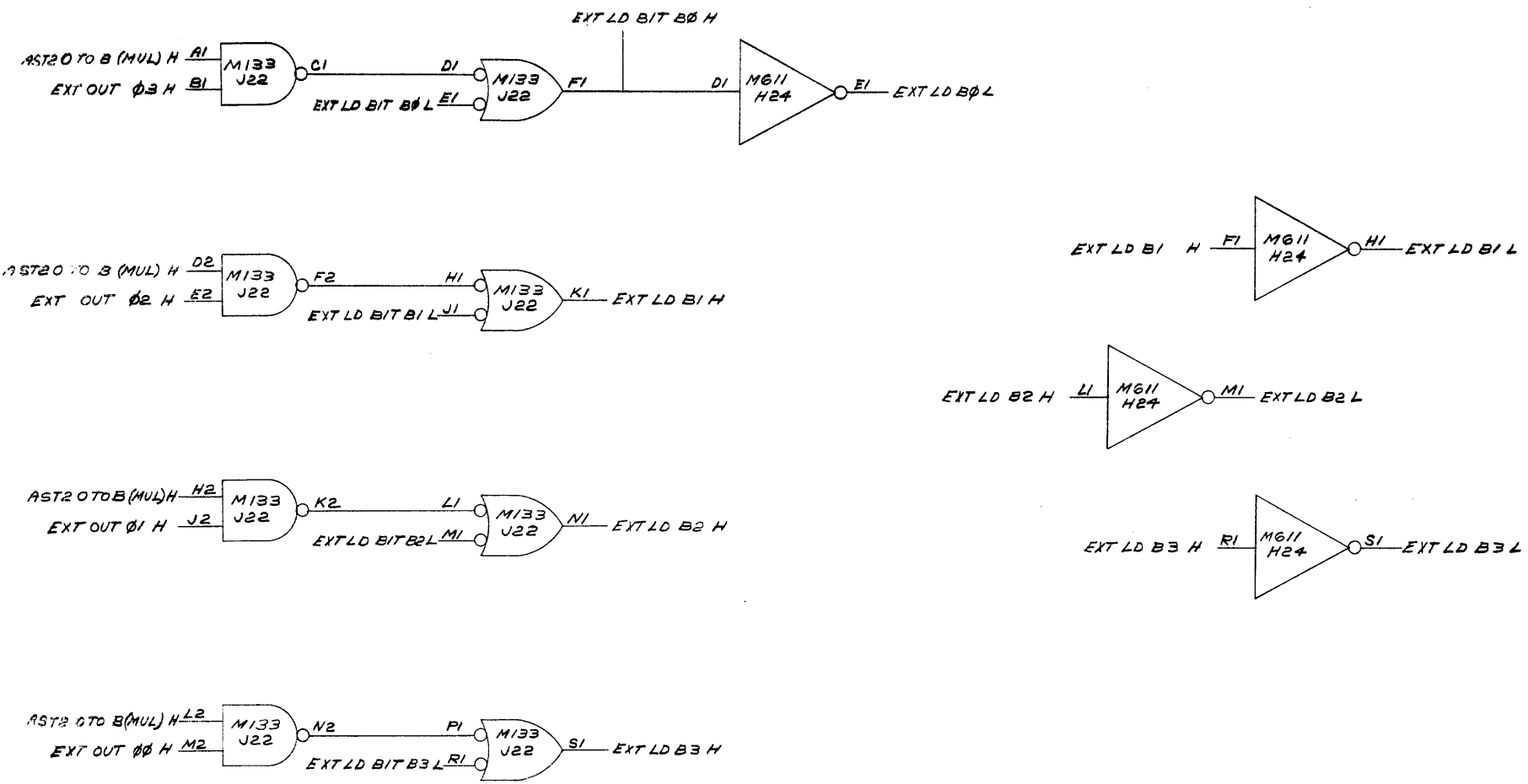
DATE	8/18/70
DATE	11/10/70
DATE	10/20/70
DATE	11/30/70
DATE	12/1/70

digital EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

TITLE  
ADDER EXT \$  
LOOK AHEAD LOGIC

SIZE CODE NUMBER REV.  
D B S F P P 1 2 - 0 - E X T A

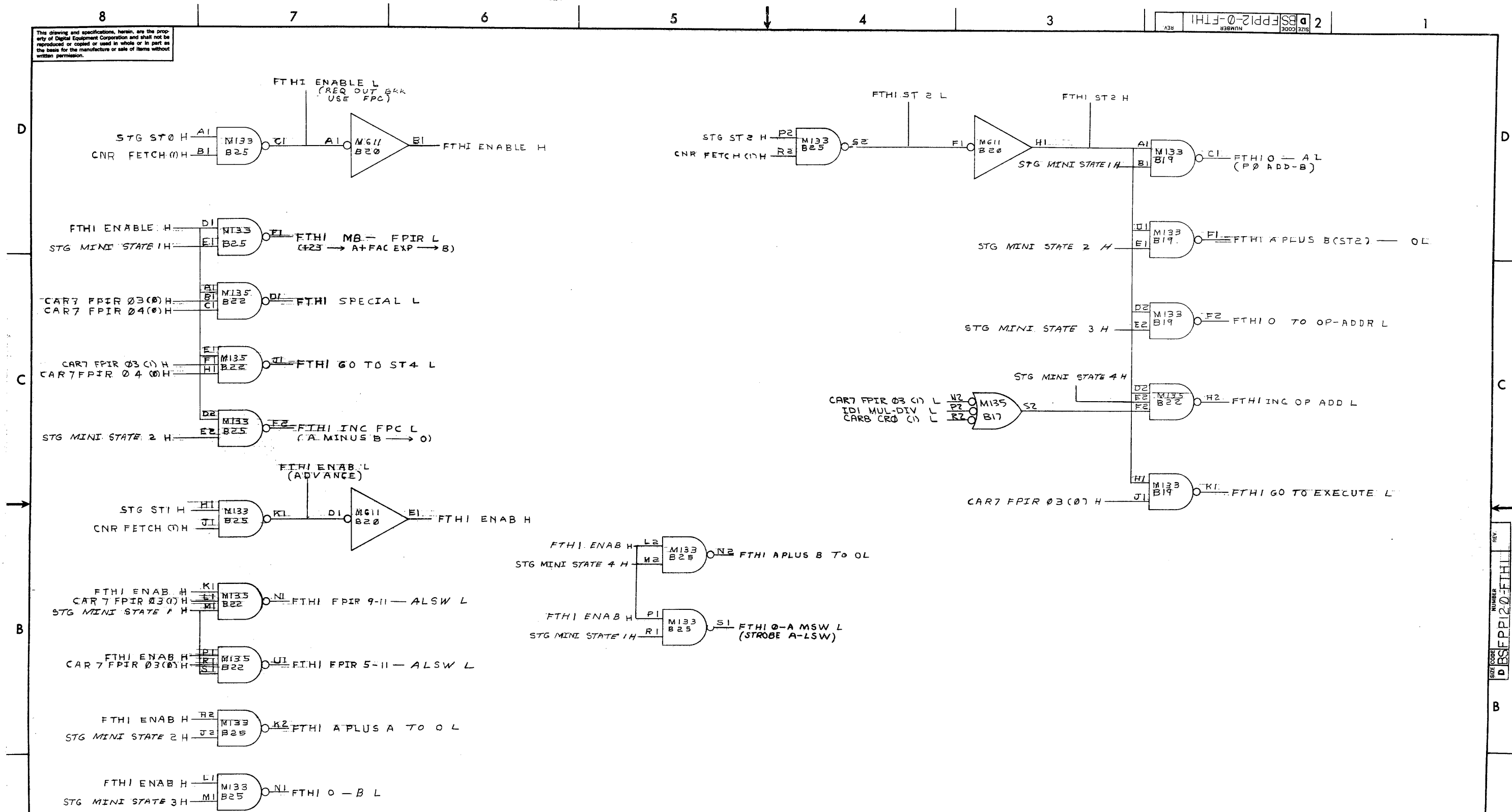
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REVISIONS	NO.	REV.
CHK	CHANGE NO.	

FIRST USED ON OPTAIN MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP2		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN. W. MAJORET DAUPHINAIS	DATE 8-10-70	 digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS .XXX = .005 .XX = .02 .X = .1	CHK'D. W. MAJOR	DATE 11-10-70		
ANGLES ±0° 30'	ENG. S-TEICHER	DATE 10-20-70	TITLE ADDER EXT & LOCK AHEAD LOGIC	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	PROJ. ENG. S-TEICHER	DATE 10-30-70		
MATERIAL	PROD. R-PETERSON	DATE 12-1-70	NEXT HIGHER ASSY.	
FINISH			SIZE CODE A-ML-FPPI2-0	NUMBER D BSFPPI2-0-EXT
			SCALE	REV. A
			SHEET 2 OF 2	DIST.

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REV.	
CHG	
REVISIONS	
CHANGE NO.	

FIRST USED ON OPTION/MODEL FPP12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. MARGARET	DATE 7/31/74	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D. W. MAJOR	DATE 11/10/70	TITLE FETCH 1	
TOLERANCES	ENG. J. J. J.	DATE 10/30/70	NEXT HIGHER ASSY A-ML-FPP12-0	
DECIMALS FRACTIONS ANGLES	PRQJ. ENG. J. J. J.	DATE 10/30/70	SIZE CODE	NUMBER
= .005 ± 1/64 ± 0°30'	PROD. R. PETERSON	DATE 12/1/70	DBSFPP12-0-FTHI	REV.
FINAL SURFACE QUALITY			DIST.	
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
FINISH				
SCALE				
SHEET 1 OF 1				

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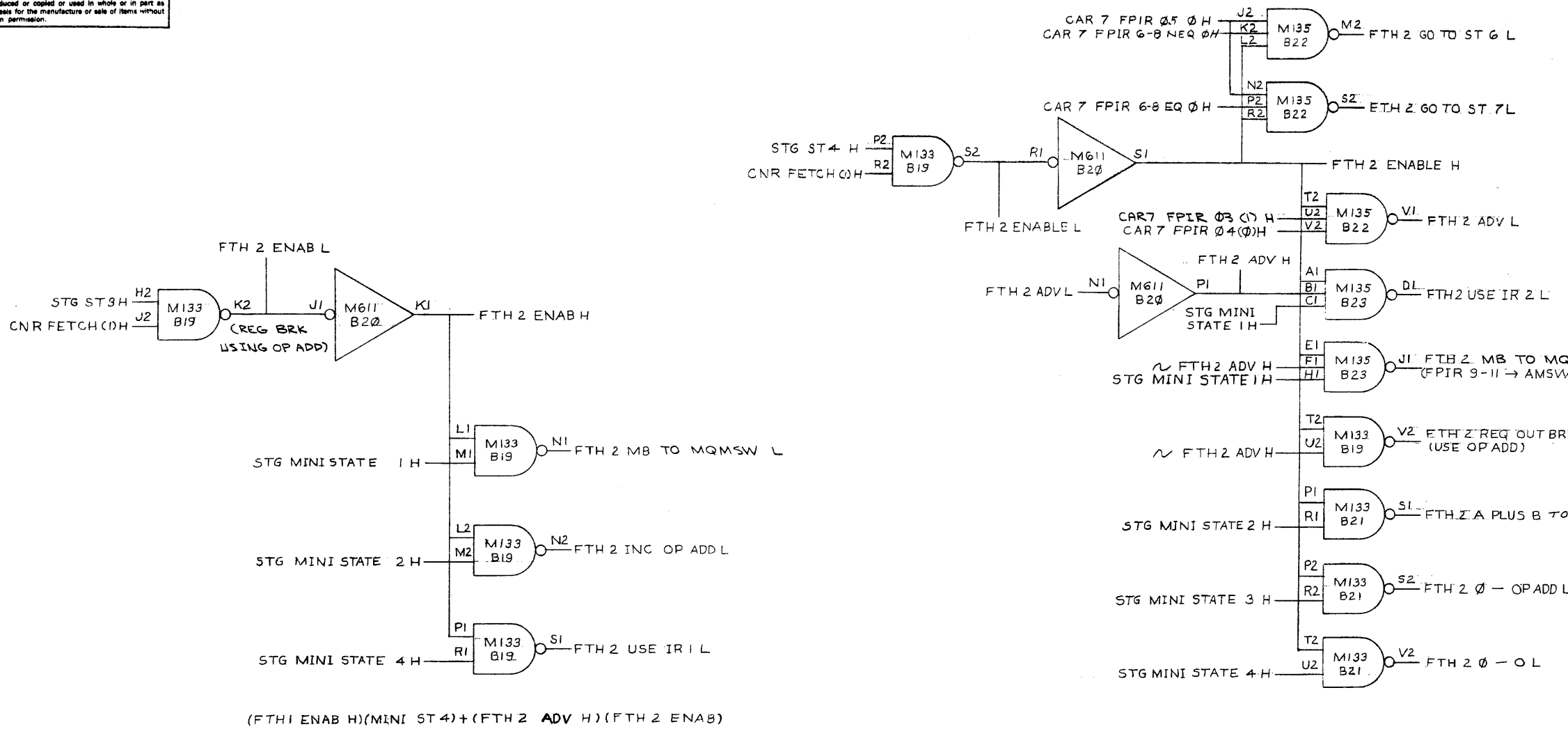
REV CODE 2  
 NUMBER  
 BS FPP 12-0-FTH 2 P03

D  
 C  
 B  
 A

D  
 C  
 B  
 A

REV.	
CHANGE NO.	
CHK.	

DEC FORM NO  
 DRD 102A



REV CODE 2  
 NUMBER  
 BS FPP 12-0-FTH 2 P03

FIRST USED ON OPTION / MODEL FPP 12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. V. BISS JUN 27 70	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D. W. MAJOR	DATE	TITLE	
DIMENSION IN INCHES	ENG. J. H. H.	DATE	FTH 2	
TOLERANCES	PROJ. ENG. J. H. H.	DATE	MATERIAL	
DECIMALS FRACTIONS ANGLES	PROD. PETERSON	DATE	NEXT HIGHER ASSY	
≥ .005 ≥ 1/64 ≥ 0°30'			A-ML-FPP12-0	
FINAL SURFACE QUALITY			FINISH	
REMOVE BURRS AND BREAK SHARP CORNERS			SCALE NONE	
			SHEET 1 OF 1	
			DIST.	
			SIZE CODE NUMBER REV.	
			D BS FPP 12-0-FTH 2	

8

7

6

5

4

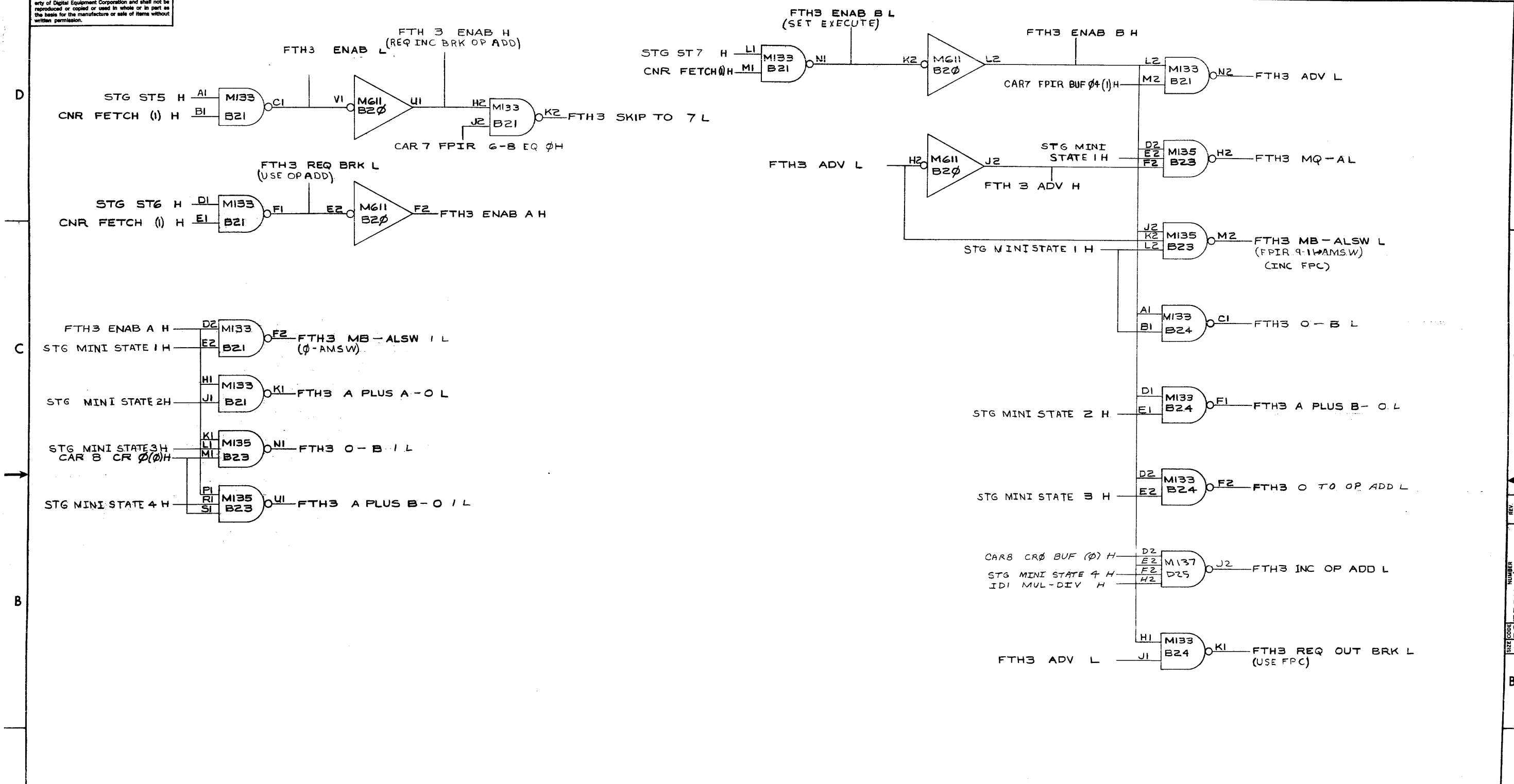
3

2

1

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REV. 2  
 SIZE CODE DBSFPPI2-0-FTH3  
 NUMBER



REV.	CHANGE NO.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED		DRN	DATE	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE SPECIFIED		CHK'D	DATE	
DIMENSION IN INCHES		ENG	DATE	
TOLERANCES		PROJ. ENG.	DATE	
DECIMALS ± .005		PROJ. ENG.	DATE	<b>FETCH 3</b>
FRACTIONS ± 1/64		PRD.	DATE	
ANGLES ± 0°30'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL		NEXT HIGHER ASSY		
		A-M-L-FPP12-0		
FINISH		SCALE		
		SHEET 1 OF 1		
		DIST.		

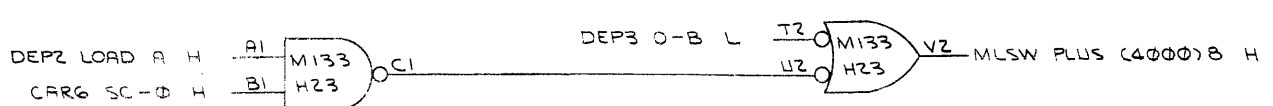
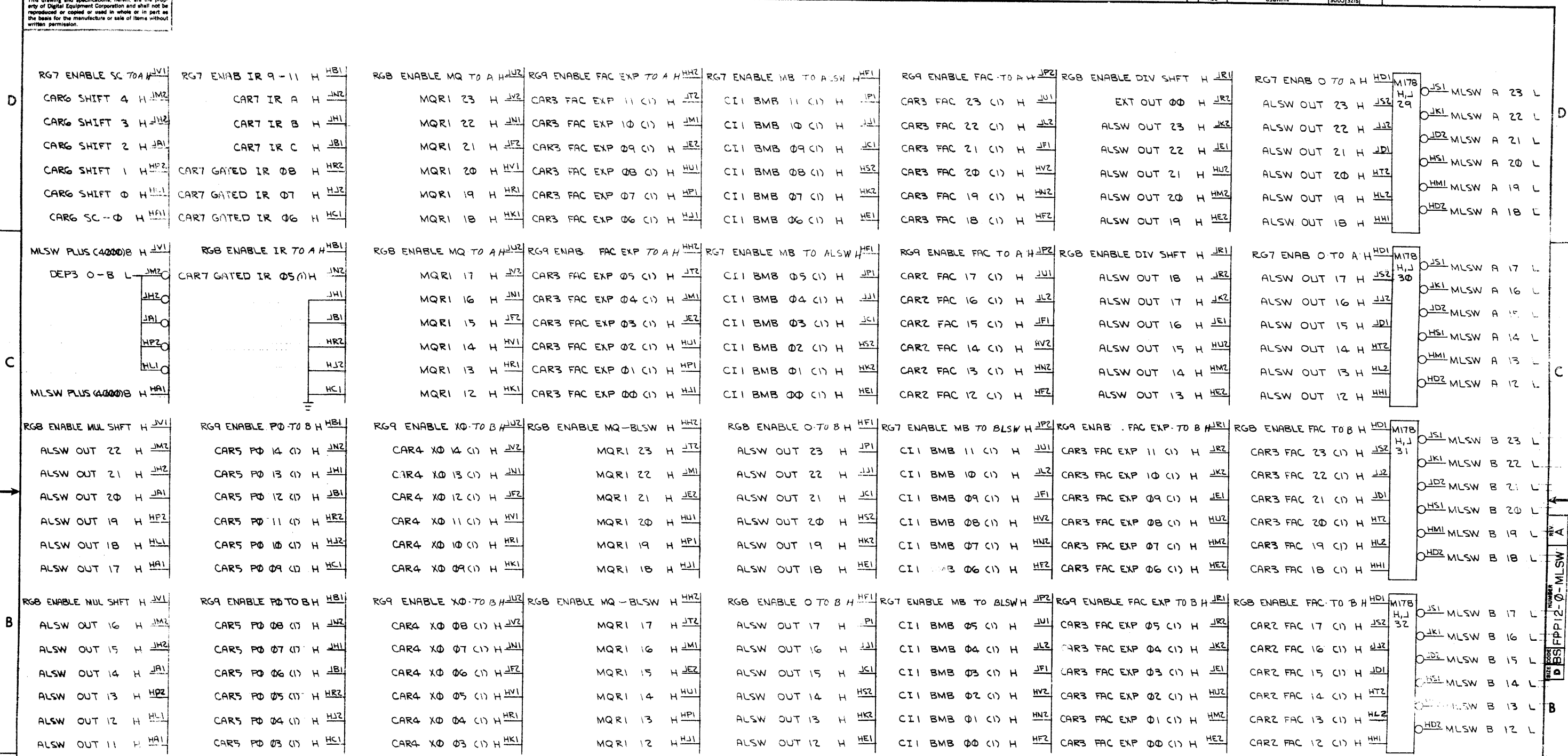






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DBS FPP12-0-MLSW  
NUMBER 300322



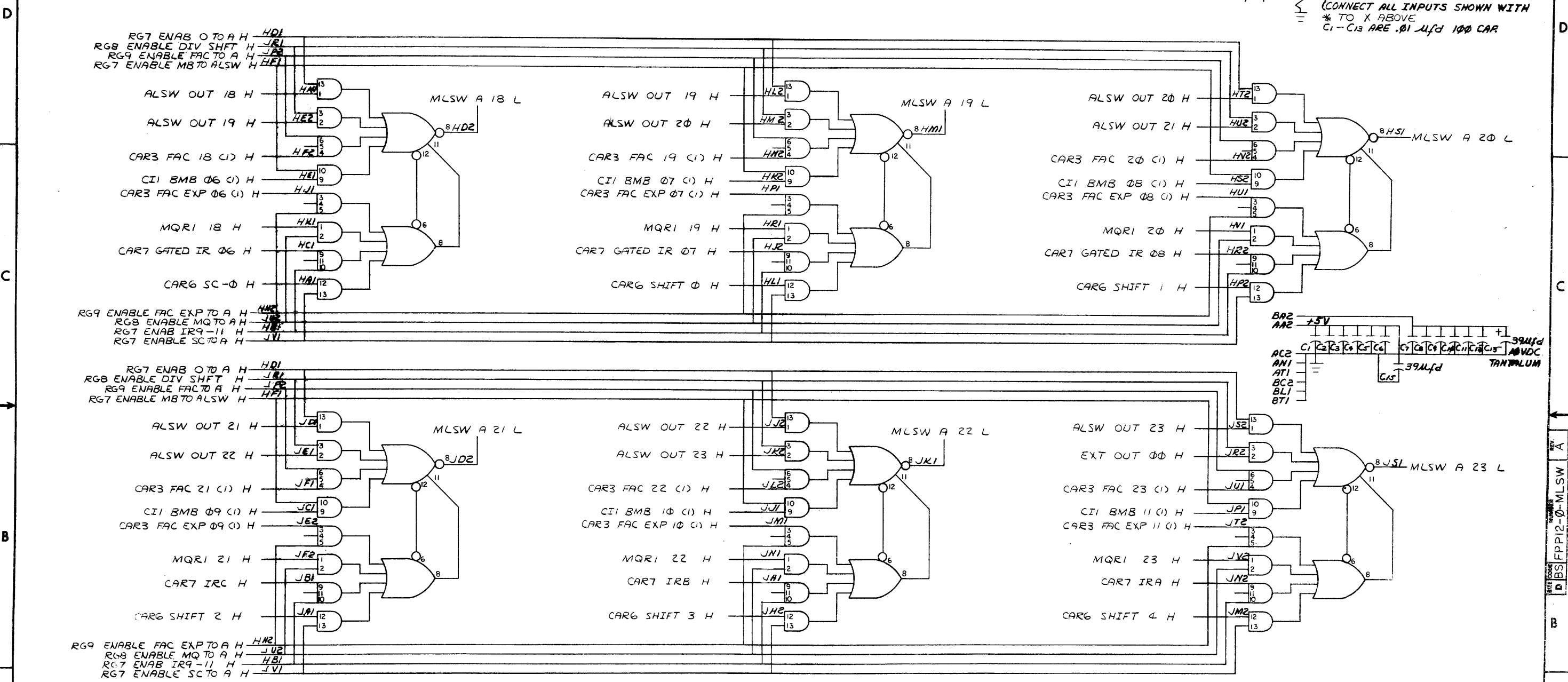
REV	CHANGE NO.	DATE	BY
1	0005	5-17-70	LEICHER
2	0006	5-20-71	LEICHER

DEC FORM NO. DRP 102A

FIRST USED ON OPTION / MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
UNLESS OTHERWISE SPECIFIED				
DRN: W. MAJOR DATE: 9/15/70				
UNLESS OTHERWISE SPECIFIED				
CHK'D: W. MAJOR DATE: 11/10/70				
DIMENSION IN INCHES				
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
± .005 ± 1/64 ± 0°30'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
NEXT HIGHER ASSY				
A-ML-FPP12-0				
FINISH				
SCALE: 1:1				
SHEET 1 OF 6				
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			TITLE	
			MULTIPLEXER LEAST SIG WORD	
SIZE CODE		NUMBER		REV
DBS FPP12-0-MLSW				A

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M178  
HJ29



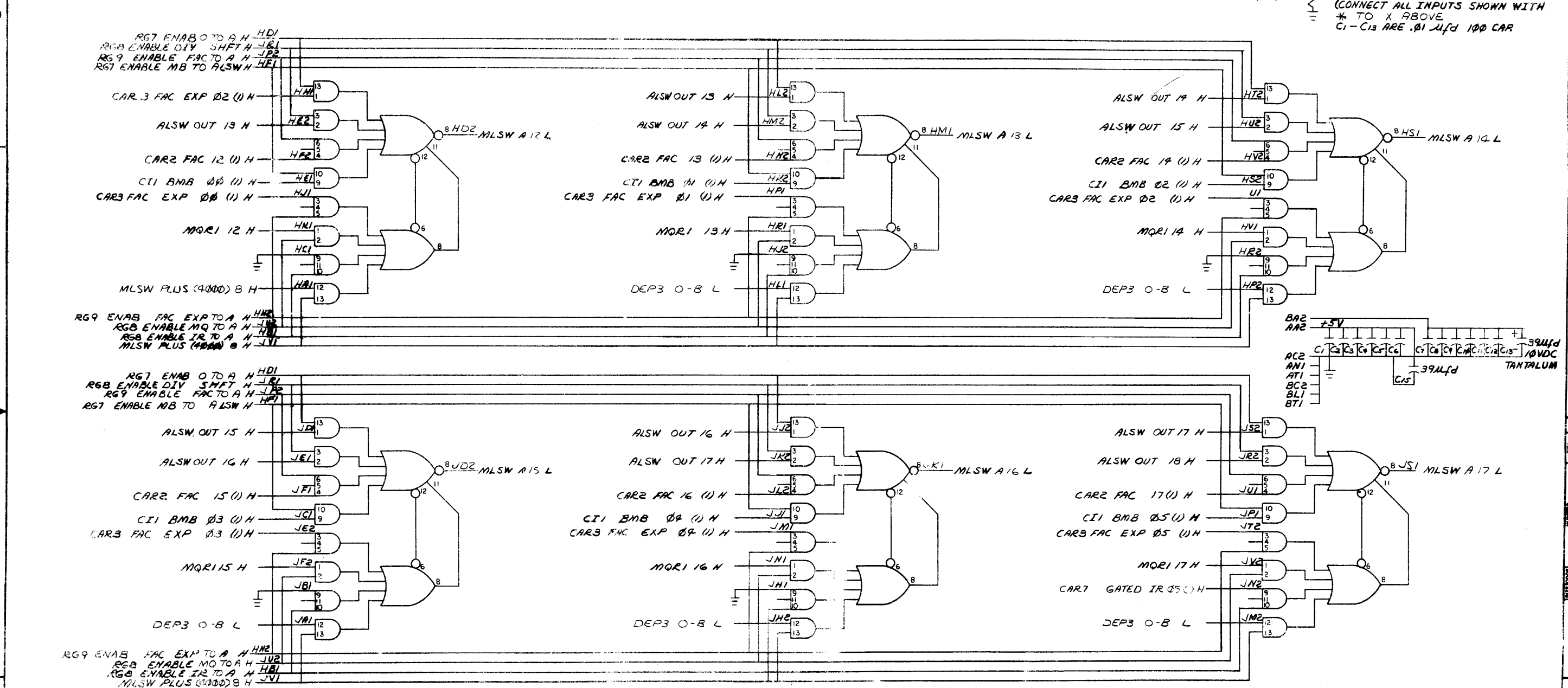
REVISIONS	REV.
CHANGE NO.	
CHK	

DES FORM NO. DRD 102A

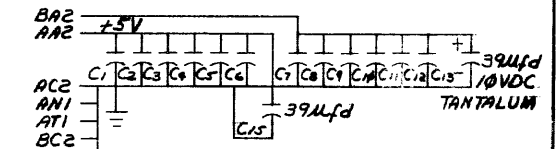
FIRST USED ON OPTION/MODEL FPPI2	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. <i>AK/ant</i>	DATE <i>8/21/70</i>	DIGITAL EQUIPMENT CORPORATION WATUARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D. <i>W. Major</i>	DATE <i>11/10/70</i>	TITLE MULTIPLEXER LEAST SIG WORD	
DIMENSIONS IN INCHES	ENG. <i>A. H.</i>	DATE <i>10/30/70</i>	MATERIAL ++	
DECIMALS FRACTIONS ANGLES	PROJ. ENG. <i>A. H.</i>	DATE <i>11/20/70</i>	FINISH ++	
TOLERANCES ± .005 ± 1/64 ± 0°30'	PROD. <i>R. Peterson</i>	DATE <i>12/11/70</i>	SCALE NONE	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	NEXT HIGHER ASSY A-ML-FPPI2-0	SIZE CODE	NUMBER DBSFPPI2-0-MLSW	REV A
	SHEET ? OF 6	DIST.		

REV. A  
PART NO. DBSFPPI2-0-MLSW

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+5V  
 R1 100 Ω 1/4 W 5%  
 R2 150 Ω 1/4 W 5%  
 C13 .01 μf  
 C15 .01 μf  
 (CONNECT ALL INPUTS SHOWN WITH \* TO X ABOVE  
 C1-C13 ARE .01 μf 100 CAP)



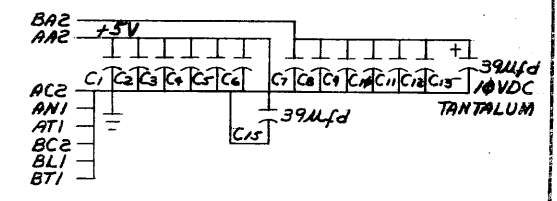
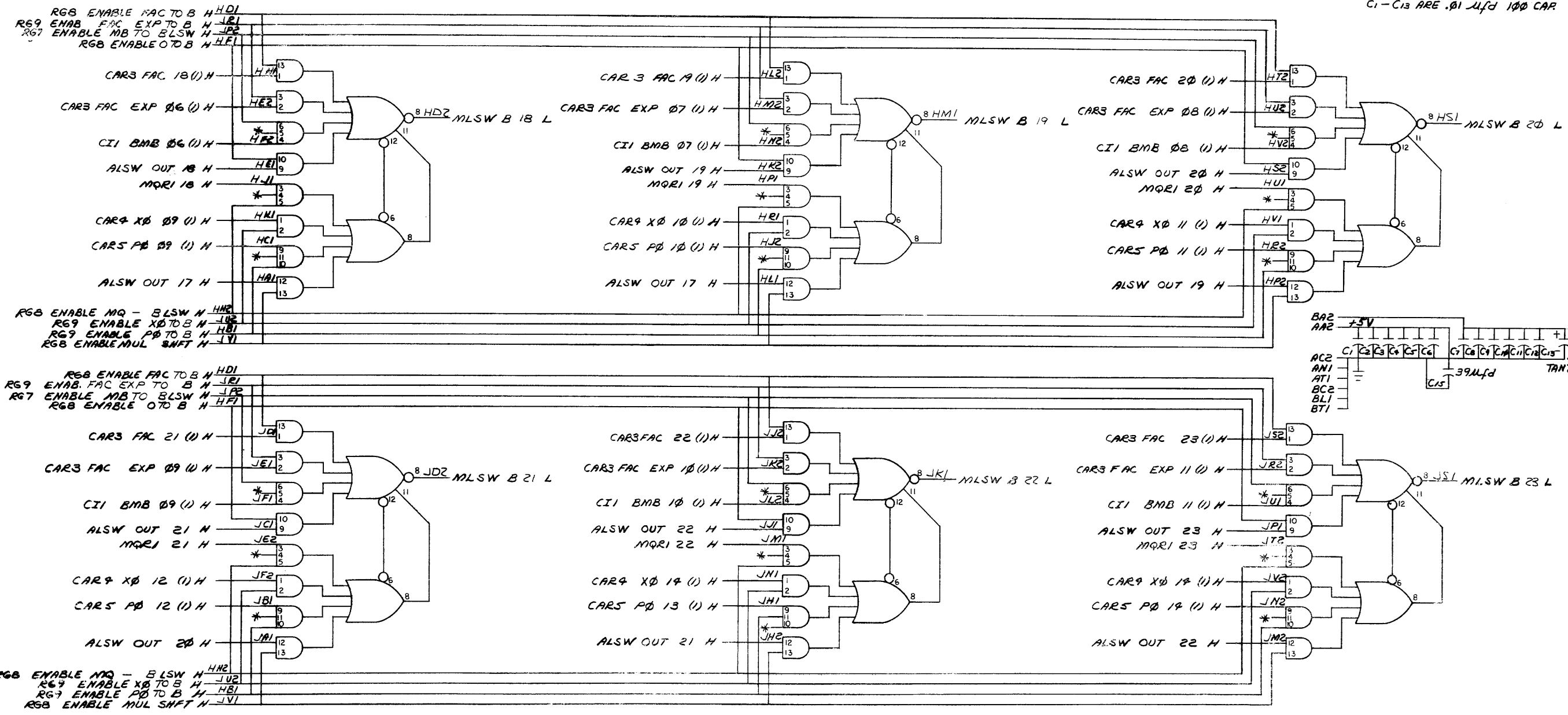
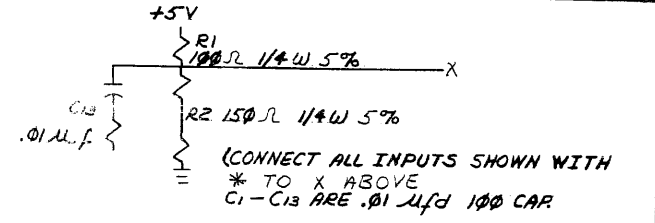
REV	CHANGE NO.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
UNLESS OTHERWISE SPECIFIED DRN <i>AK</i> DATE <i>8/21/70</i>				
UNLESS OTHERWISE SPECIFIED CHK'D <i>W. Maier</i> DATE <i>11/10/70</i>				
DIMENSION IN INCHES TOLERANCES				
DECIMALS FRACTIONS ANGLES				
± .005 ± 1/64 ± 0°30'				
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
NEXT HIGHER A.S.Y.				
FINISH				
TITLE				
MULTIPLEXER				
LEAST SIG WORD				
SIZE/CODE			NUMBER	REV
A-ML-FPP12-0			D/BS FPP12-0-MLSW	A
SCALE NONE		SHEET 3 OF 6		
DIST.				

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1 2 3 4 5 6 7 8  
 DBS FPP12-0-MLSW A

M178  
 HJ31



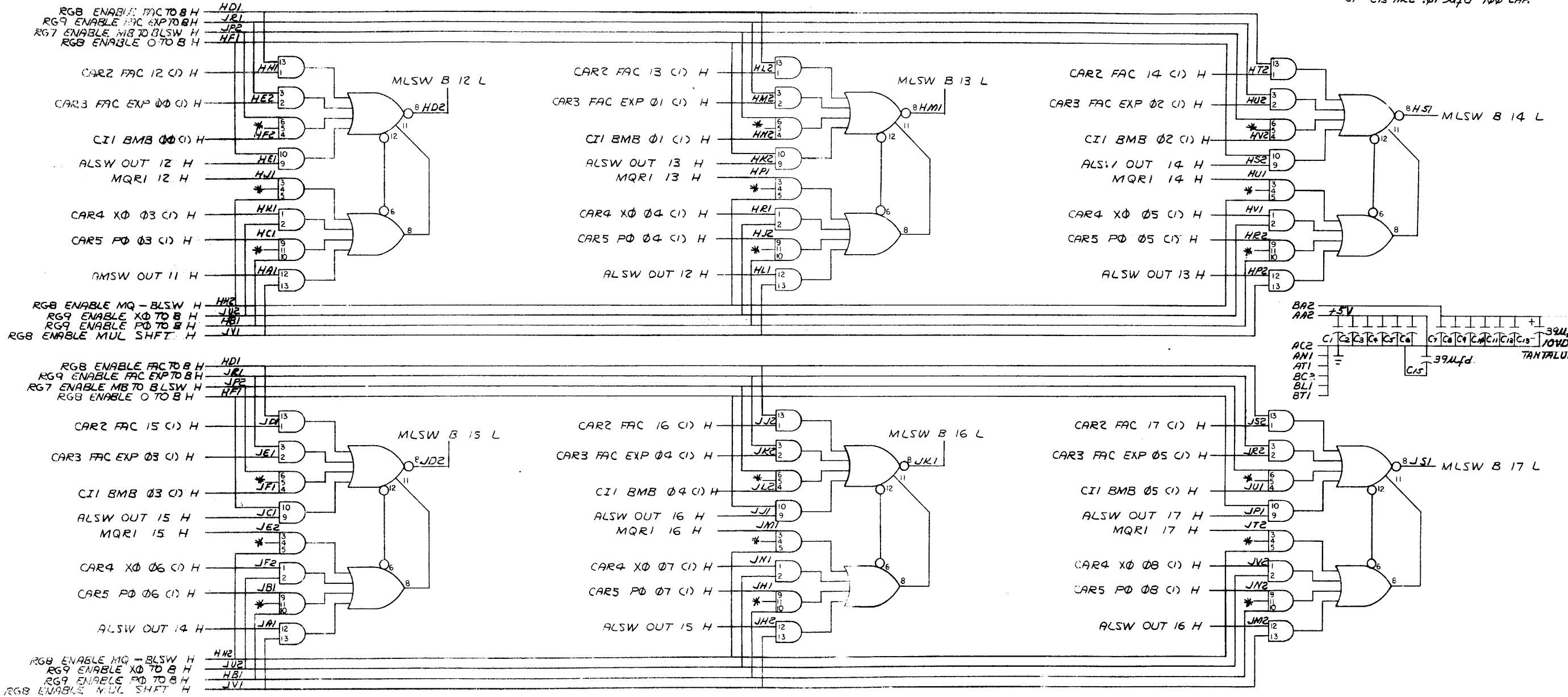
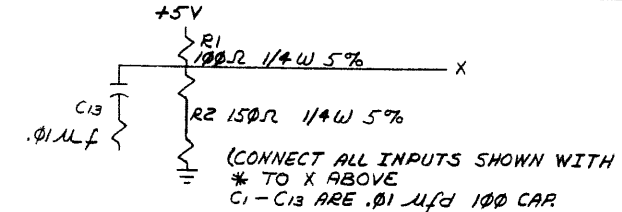
REV	
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. <i>albert</i>	DATE <i>12/2/70</i>	DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D. <i>W. Major</i>	DATE <i>11/10/70</i>	TITLE MULTIPLEXER LEAST SIG WORD	
TOLERANCES	ENG. <i>J. Smith</i>	DATE <i>10/2/70</i>	PROJ. ENG. <i>J. Smith</i>	
DECIMALS FRACTIONS ANGLES	PRD. <i>R. Peterson</i>	DATE <i>12/1/70</i>	SCALE NONE	
± .005 ± 1/64 ± 0°30'	SHEET 4 OF 6			
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	D.B.S. FPP12-0-MLSW A			
MATERIAL	FINISH			

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M178  
HL 32

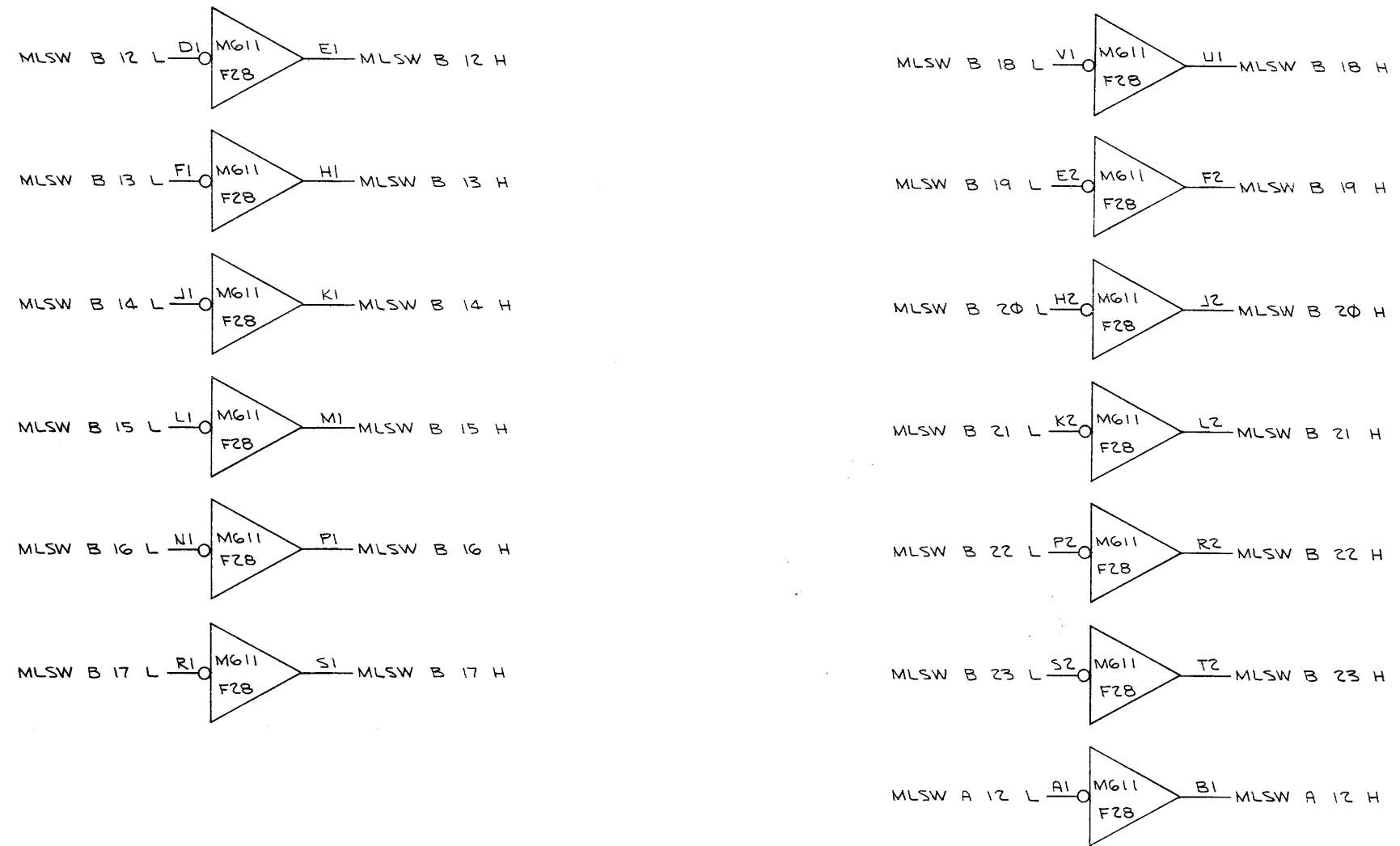
MSLW-0-212-0-2  
REV. 2



REV.	NO.

FIRST USED ON OPTION/MODEL FPP12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN. <i>Arlett</i>	DATE <i>8/21/70</i>	<b>digital</b> EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
TOLERANCES	CHK'D. <i>W. Mair</i>	DATE		
DECIMALS = .005	ENG. <i>J. G. ...</i>	DATE <i>10/20/70</i>	MULTIPLEXER LEAST SIG WORD	
FRACTIONS = 1/64	PROJ. ENG. <i>J. G. ...</i>	DATE <i>1/24/71</i>		
ANGLES = 0°30'	PROD. <i>P. Peterson</i>	DATE <i>12/1/72</i>		
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	NEXT HIGHER ASSY A-ML-FPP12-Ø			
MATERIAL ++	SCALE NONE	SIZE CODE D	NUMBER BS/FPP12-Ø-MLSW	REV. A
FINISH ++	SHEET 5 OF 6	DIST.		

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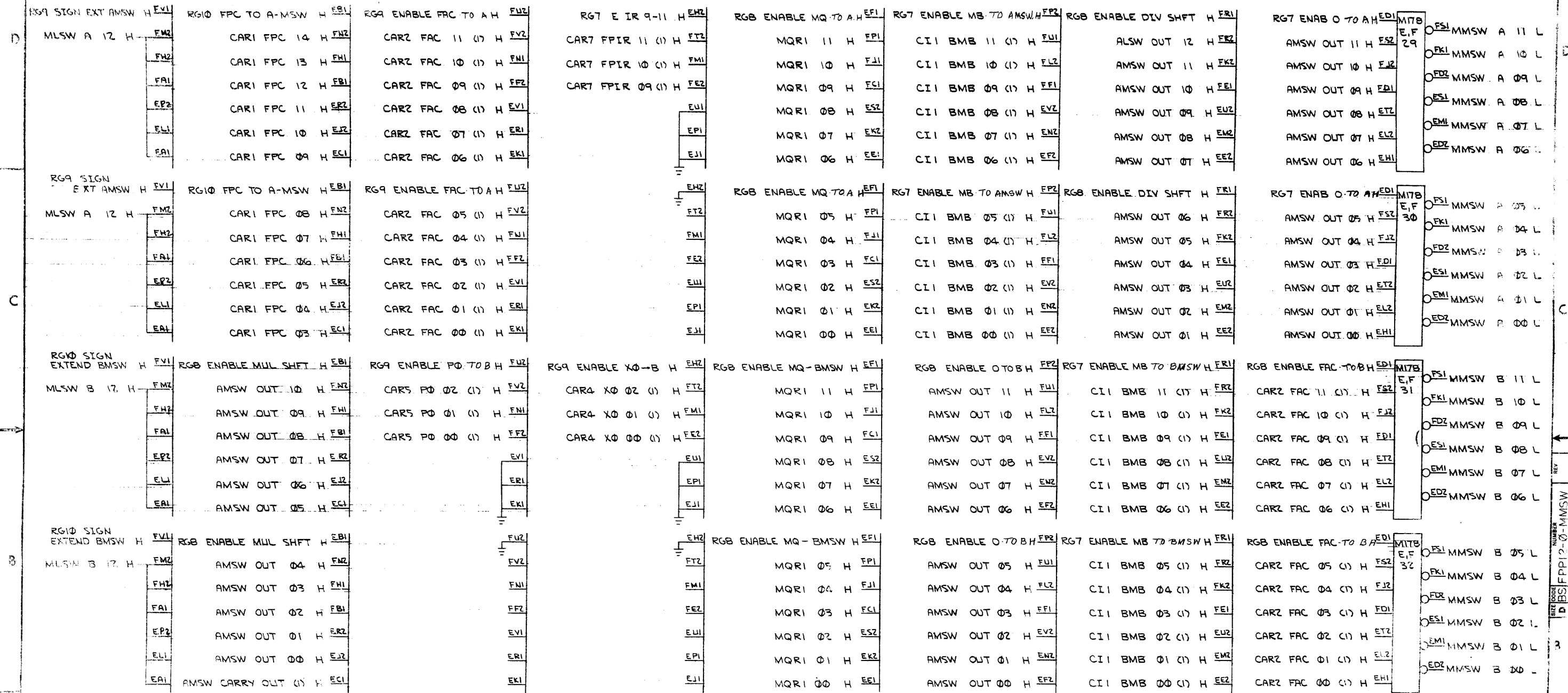
D  
 C  
 B  
 A

D  
 C  
 B  
 A

REV.	
CHANGE NO.	
CHK	

FIRST USED ON OPTION / MODEL FPP 12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. W. Major	DATE 9/10/70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D. W. Major	DATE 11/10/70	TITLE MULTIPLEXER LEAST SIG WORD	
TOLERANCES	ENG. J. Sidw	DATE 12/30/70	SIZE CODE D	
DECIMALS ± .005	PROJ. ENG. J. Sidw	DATE 12/30/70	NUMBER BS FPP12-0-MLSW	
FRACTIONS ± 1/64	PROD. R. Peterson	DATE 12/1/70	REV. A	
ANGLES ± 0°30'			SCALE	
FINAL SURFACE QUALITY			SHEET E OF 6	
REMOVE BURRS AND BREAK SHARP CORNERS			DIST.	
MATERIAL				
FINISH				

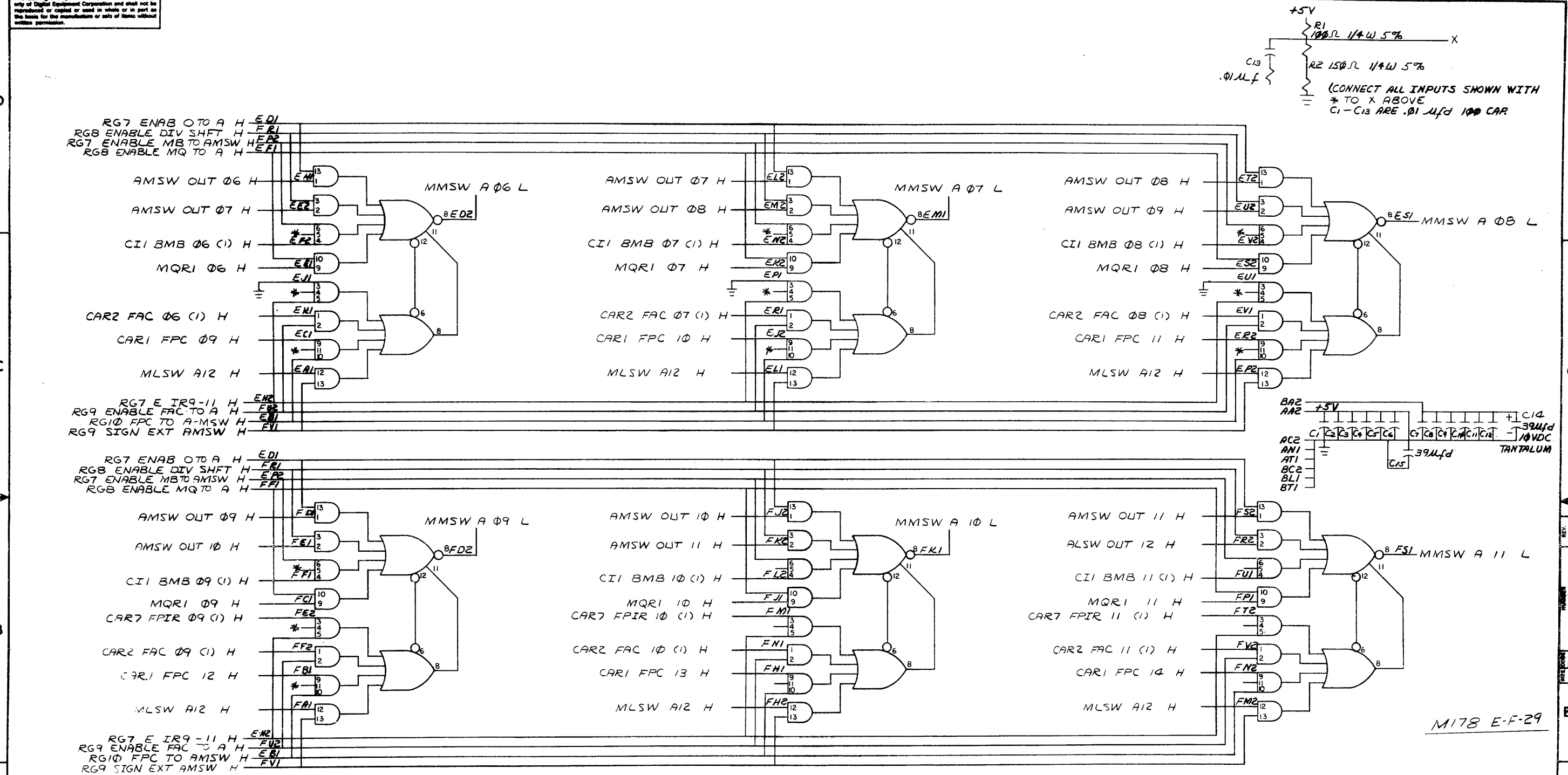
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REV	
CHG	
NO	

FIRST USED ON OPTION / MODEL FPP12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
= .005 = 1/64 = 0°30'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	NEXT HIGHER ASSY	TITLE		
FINISH	SCALE	MULTIPLXER MOST SIG WORD		
A-ML-FPP12-0		SIZE CODE	NUMBER	REV
SHEET 1 OF 6		D BS FPP12-0-MMSW		

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REVISIONS	REV.
CHANGE NO.	
CHK	

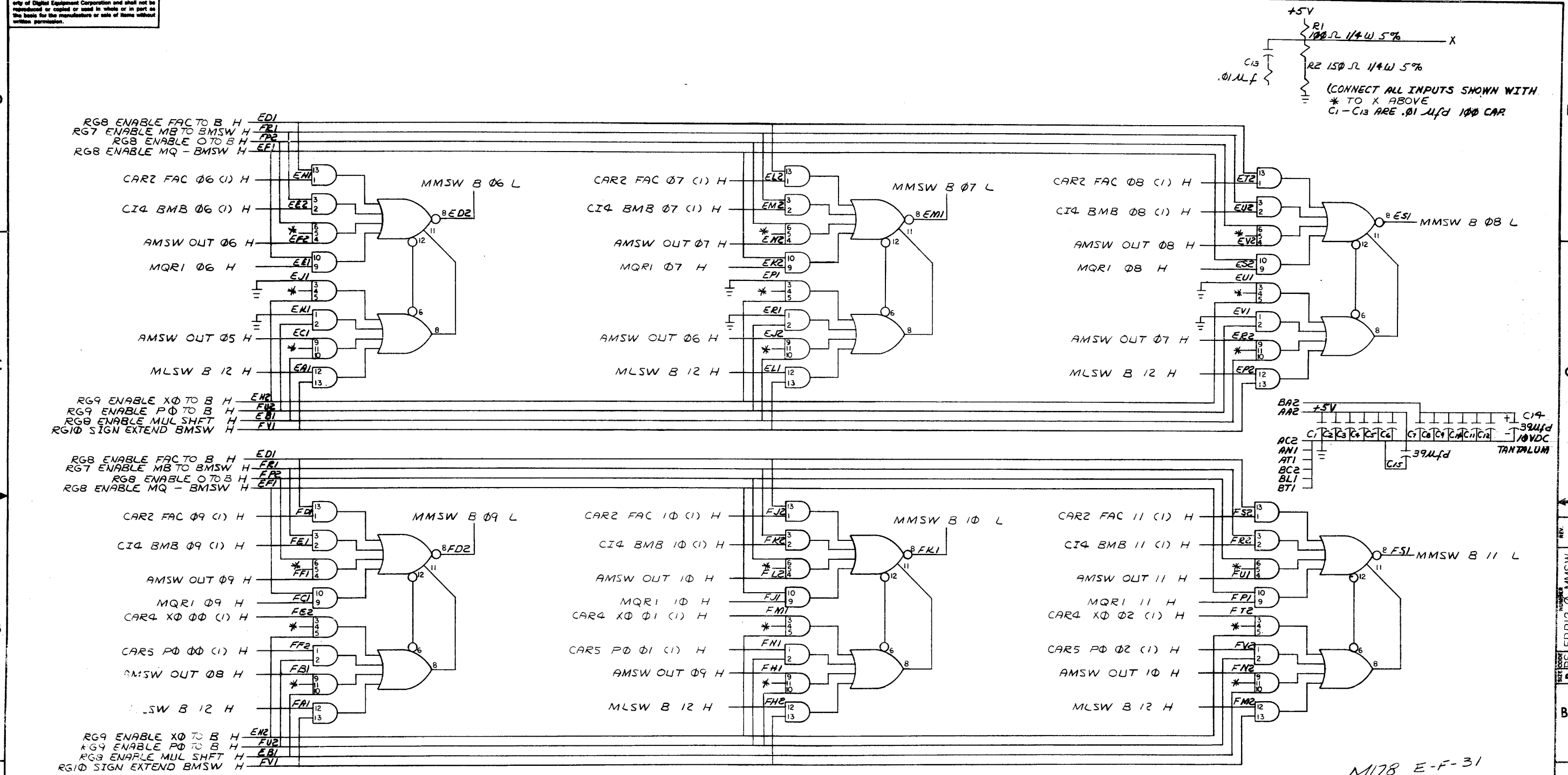
FIRST USED ON OPTION/MODEL FPPI2	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	TITLE	
DIMENSION IN INCHES	ENG.	DATE	MULTIPLEXER	
TOLERANCES	PROJ. ENG.	DATE	MOST SIG WORD	
DECIMALS FRACTIONS ANGLES	PROD.	DATE	SIZE CODE NUMBER REV.	
± .005 ± 1/64 ± 0°30'			D B S F P P I 2 - 0 - M M S W	
FINAL SURFACE QUALITY			SCALE NONE	
REMOVE BURRS AND BREAK SHARP CORNERS			SHEET 2 OF 6	
MATERIAL			DIST.	
FINISH				

M178 E-F-29





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REV	
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL FPPI2	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	TITLE	
DIMENSION IN INCHES	ENG	DATE	MULTIPLEXER	
TOLERANCES	PROJ-ENG	DATE	MOST SIG WORD	
DECIMALS FRACTIONS ANGLES	PROD	DATE	SIZE CODE NUMBER	
± .005 ± 1/64 ± 0°30'	PROB	DATE	DES FPPI2-0-MMSW	
FINAL SURFACE QUALITY	NEXT HIGHER A.S.Y		SCALE NONE	
REMOVE BURRS AND BREAK SHARP CORNERS			SHEET 4 OF 6	
MATERIAL			DIST.	
FINISH				



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MSW-Ø-MMSW  
 SIZE CODE  
 BS  
 NUMBER  
 2



REV	
CHANGE NO.	
CHK	

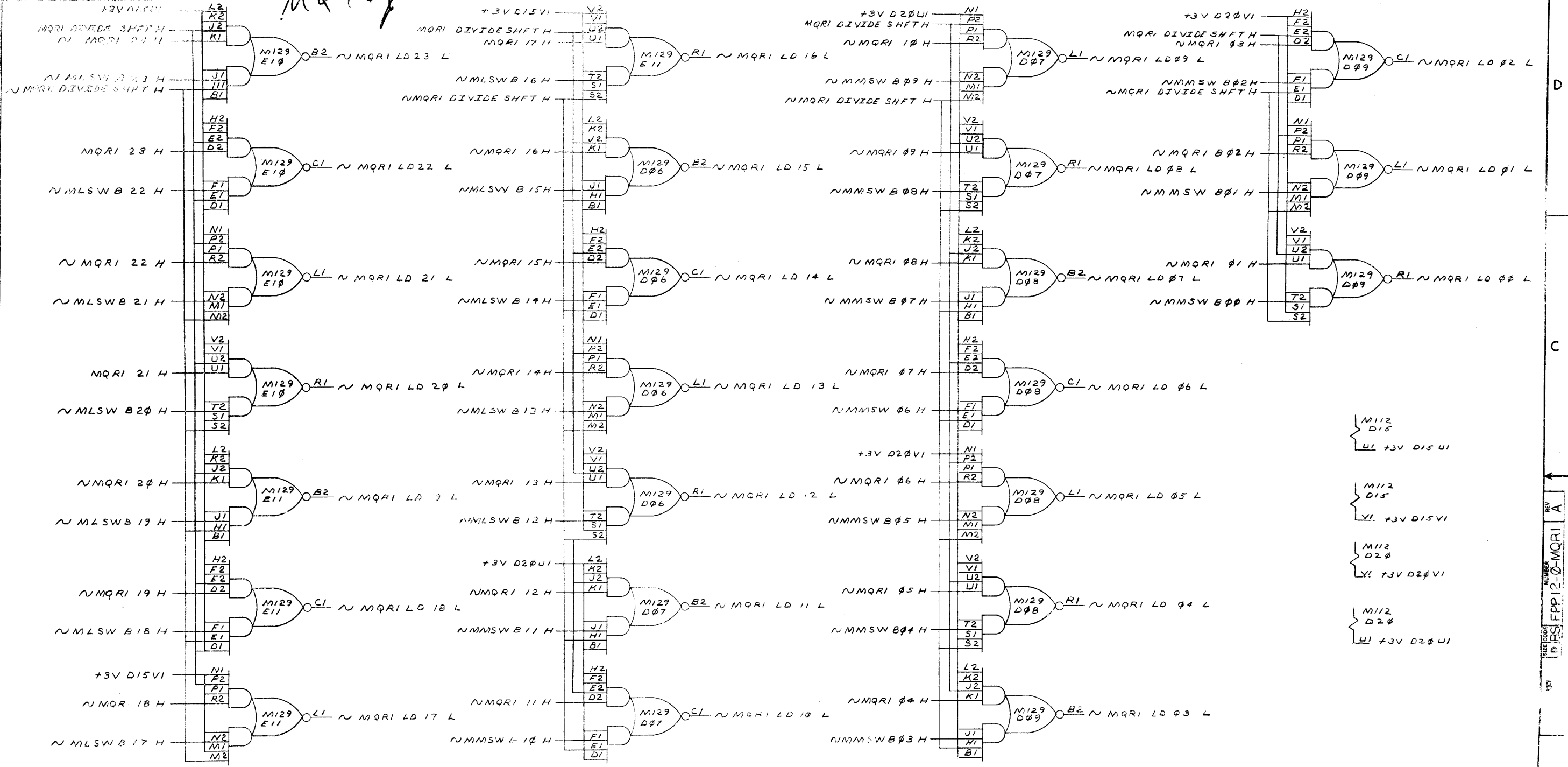
FIRST USED ON OPTION/MODEL FPPI2	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE		
UNLESS OTHERWISE SPECIFIED	ENG.	DATE		
UNLESS OTHERWISE SPECIFIED	PROD. ENG.	DATE		
UNLESS OTHERWISE SPECIFIED	PROD.	DATE	TITLE <b>MULTIPLEXER          MOST SIG WORD</b>	
MATERIAL	NEXT HIGHER ASSY	DATE		
FINISH	SCALE	NONE	SIZE CODE	NUMBER
	SHEET	6	OF	2

REV. NUMBER  
 BS  
 FPP12-Ø-MMSW

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BS FPP12-0-MQRI 2

*MQ Reg*



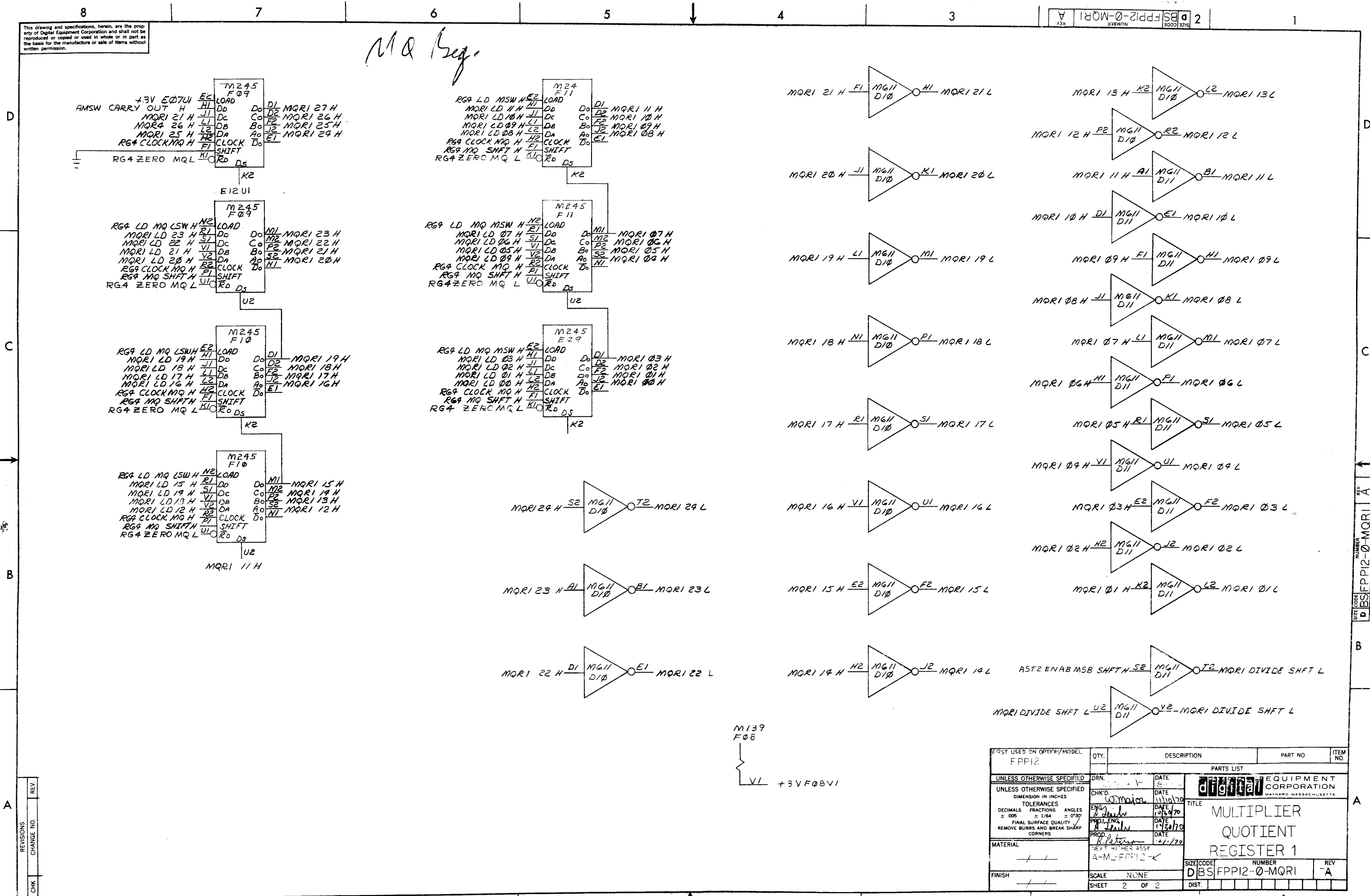
- M112 D15  
U1 +3V D15 U1
- M112 D15  
V1 +3V D15 V1
- M112 D20  
V1 +3V D20 V1
- M112 D20  
U1 +3V D20 U1

REV	CHANGE NO	DATE
A	9-7-71	
B	9-8-71	

FIRST USED ON OPTION MOD FPP12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN. / 100	DATE	DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D.	DATE	TITLE	
TOLERANCES	W. Major	11/10/70	MULTIPLIER QUOTIENT REGISTER I	
DECIMALS FRACTIONS ANGLES	N. Hub	1/7/70	SIZE CODE NUMBER REV.	
= .005 = 1/64 = 0°30'	PRD. ENG.	10/20/70	D BS FPP12-0-MQRI A	
FINAL SURFACE QUALITY	PRD.	DATE	SCALE	
REMOVE BURRS AND BREAK SHARP CORNERS	N. Peters	12/1/70	SHEET OF 2	
MATERIAL	NEXT HIGHER ASSY			
FINISH	A-ML-FPP12-0			

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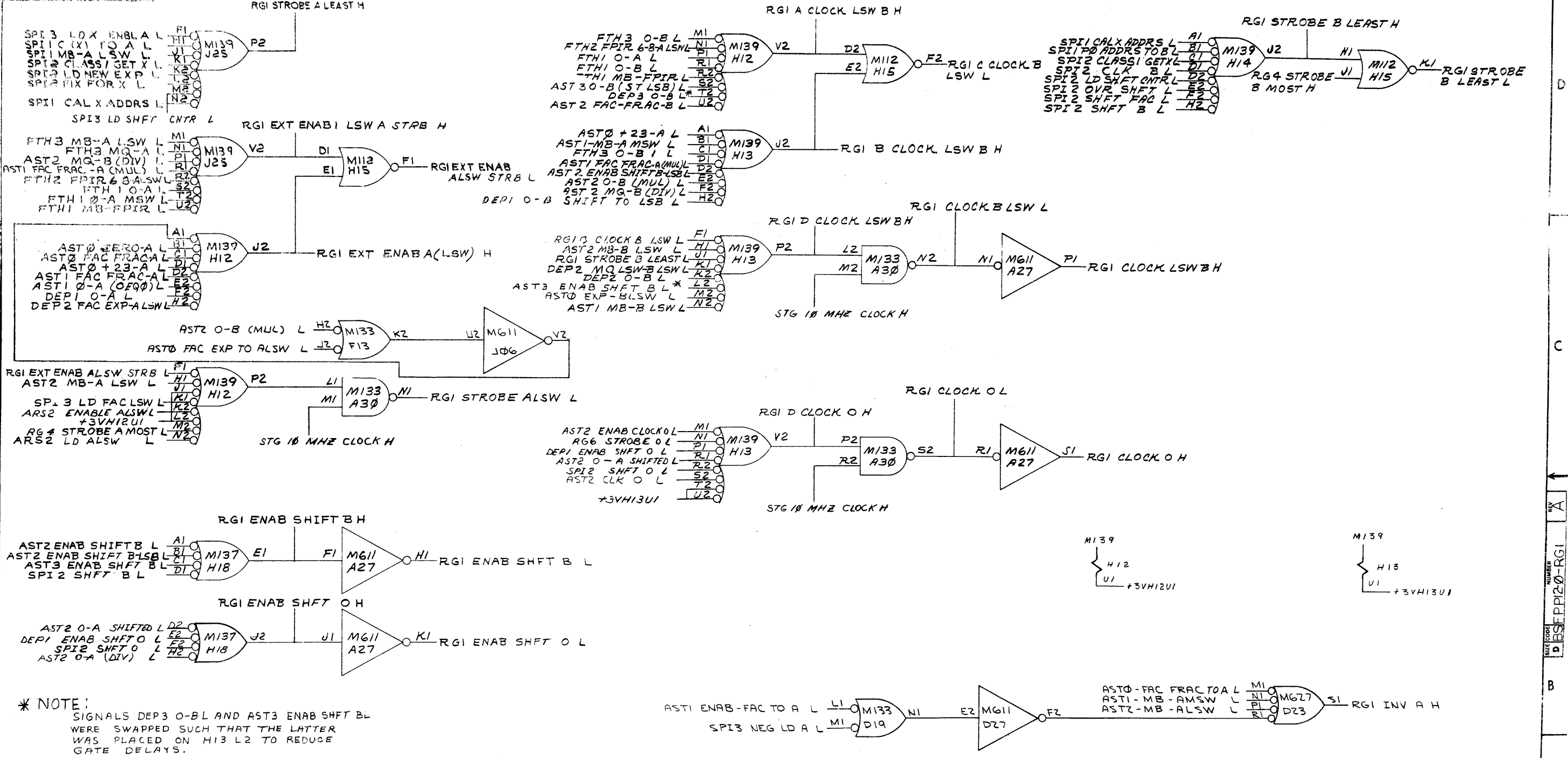
*MQ Reg.*



REV	
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL FPP12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	ORIN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D.	DATE	TITLE	
DIMENSION IN INCHES	W. Major	11/10/70	MULTIPLIER QUOTIENT REGISTER 1	
DECIMALS ± .005	ENG.	10/24/70	SIZE CODE NUMBER REV	
FRACTIONS ± 1/64	PROJ. ENG.	11/24/70	DBS FPP12-0-MQRI -A	
ANGLES ± 0°30'	PRD.	12/1/70	SHEET 2 OF 2	
FINAL SURFACE QUALITY			DIST.	
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	NEXT HIGHER ASSY	A-M-FPP12-K		
FINISH	SCALE	NONE		

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REVISIONS

REV	CHANGE NO.	DATE	BY
1	FPP12-00002	7-31-70	W. J. ...
2	...	...	...
3	...	...	...
4	...	...	...
5	...	...	...

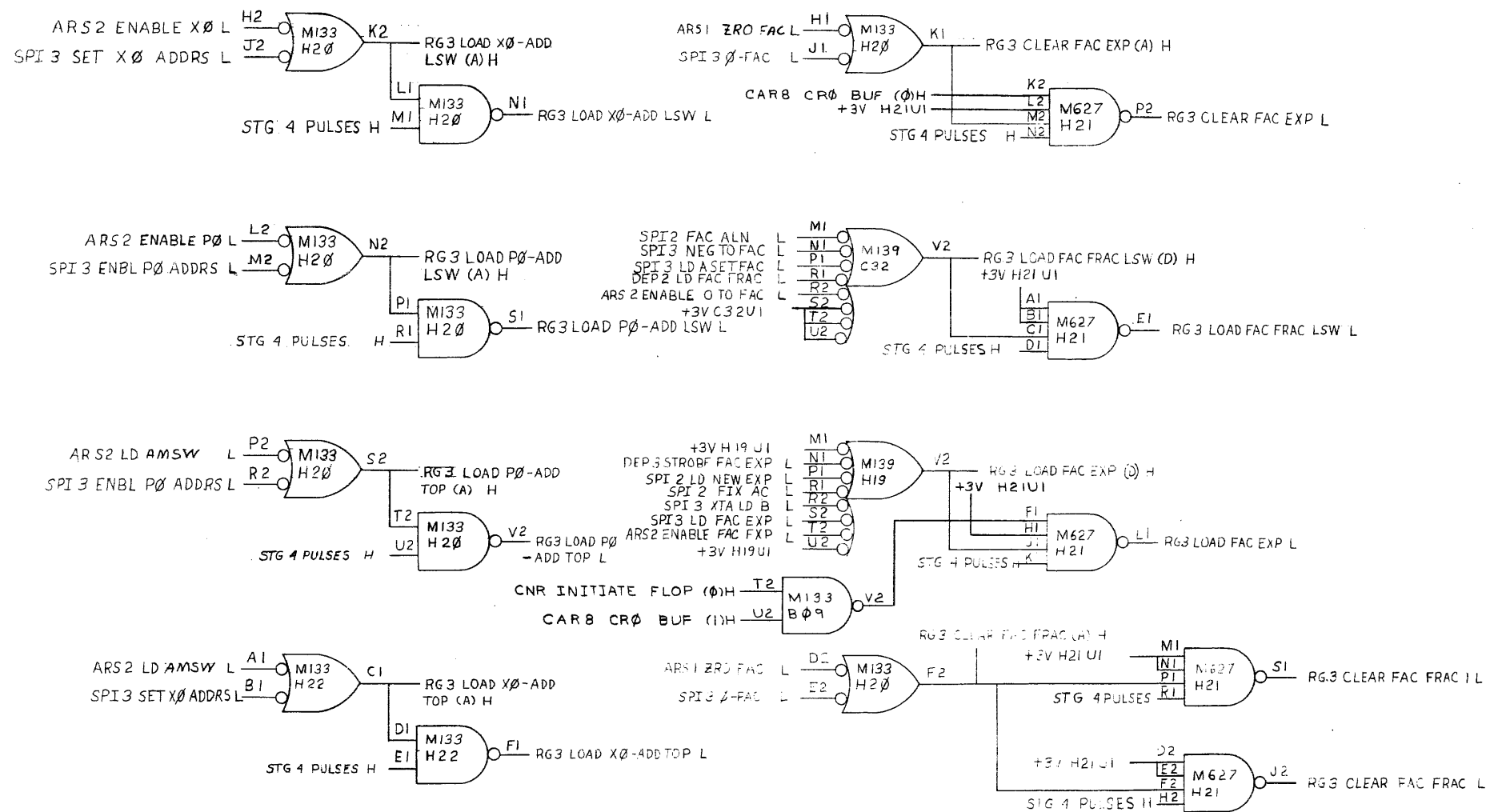
REV A  
 NUMBER  
 DBSFP12-0-RG1





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REV. B  
 NUMBER FPP12-0-RG3  
 SIZE CODE D  
 BS 3000 2



M627 H21  
 UI +3V H21U1

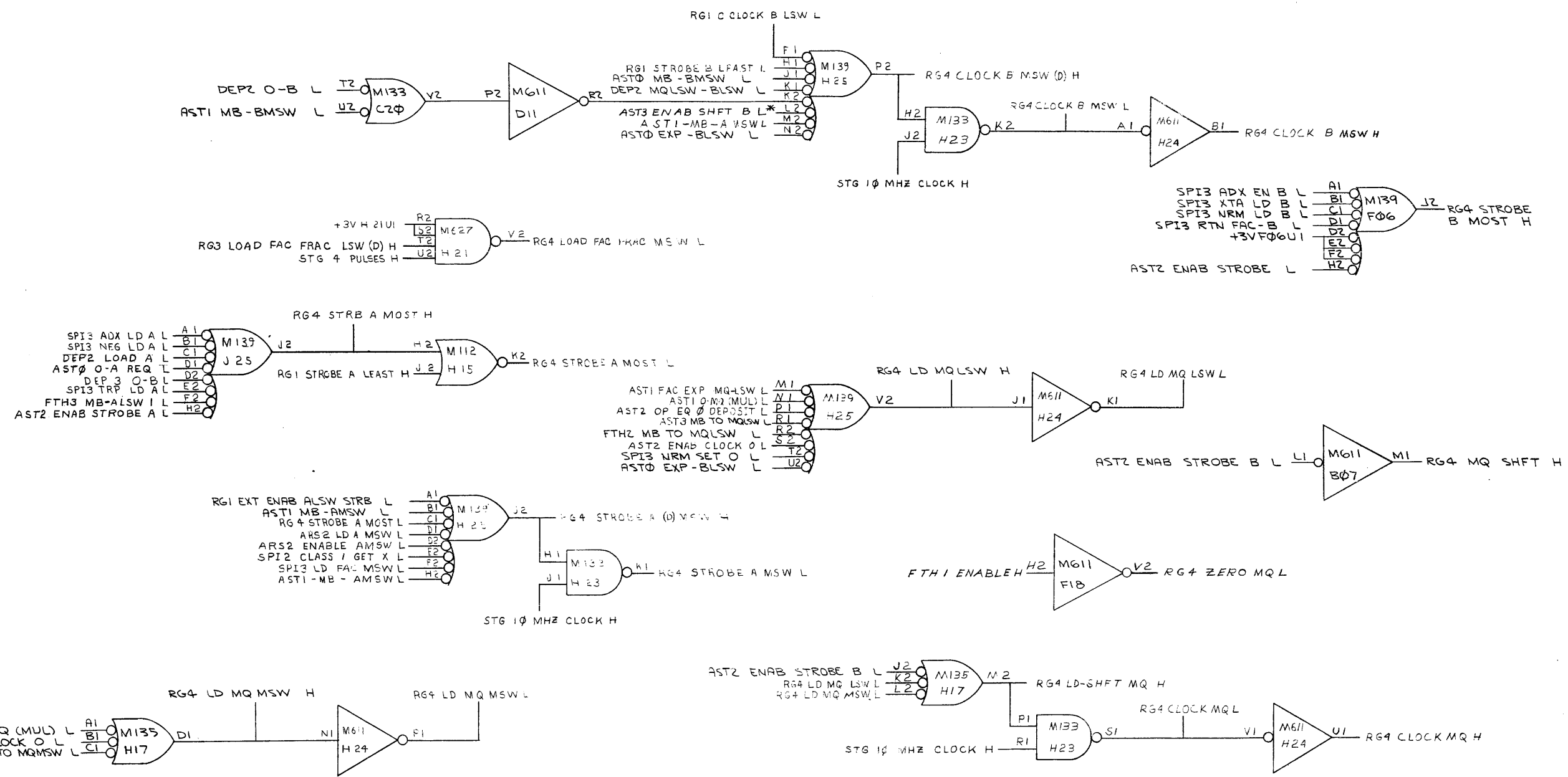
M139 H19  
 UI +3V H19U1

REV.	CHG.	NO.	DATE
A	1	0003	3-9-71
B	1	0005	3-9-71
C	1	0007	5-6-71
D	1	0008	5-20-71

DEC FORM NO. DRD 102A

QTY.	DESCRIPTION	PART NO.	ITEM NO.
	FPP12		
UNLESS OTHERWISE SPECIFIED			
DRN. DC A WALLACE	DATE 3-2-73	PARTS LIST	
CHK'D. W. MAJOR	DATE 11-13-72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
ENG. J. J. J.	DATE 10-30-72	TITLE REGISTER GATING 3	
PROJ. ENG. J. J. J.	DATE 10-30-72	NEXT HIGHER ASSY	
PROD. J. J. J.	DATE 12-1-72	SCALE NONE	
		SIZE CODE D	NUMBER FPP12-0-RG3
		SCALE NONE	REV. B
		SHEET OF	DIST.

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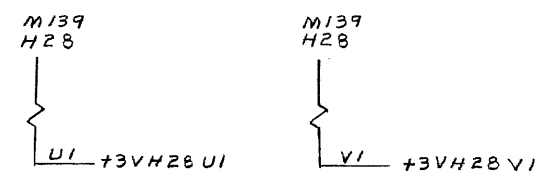
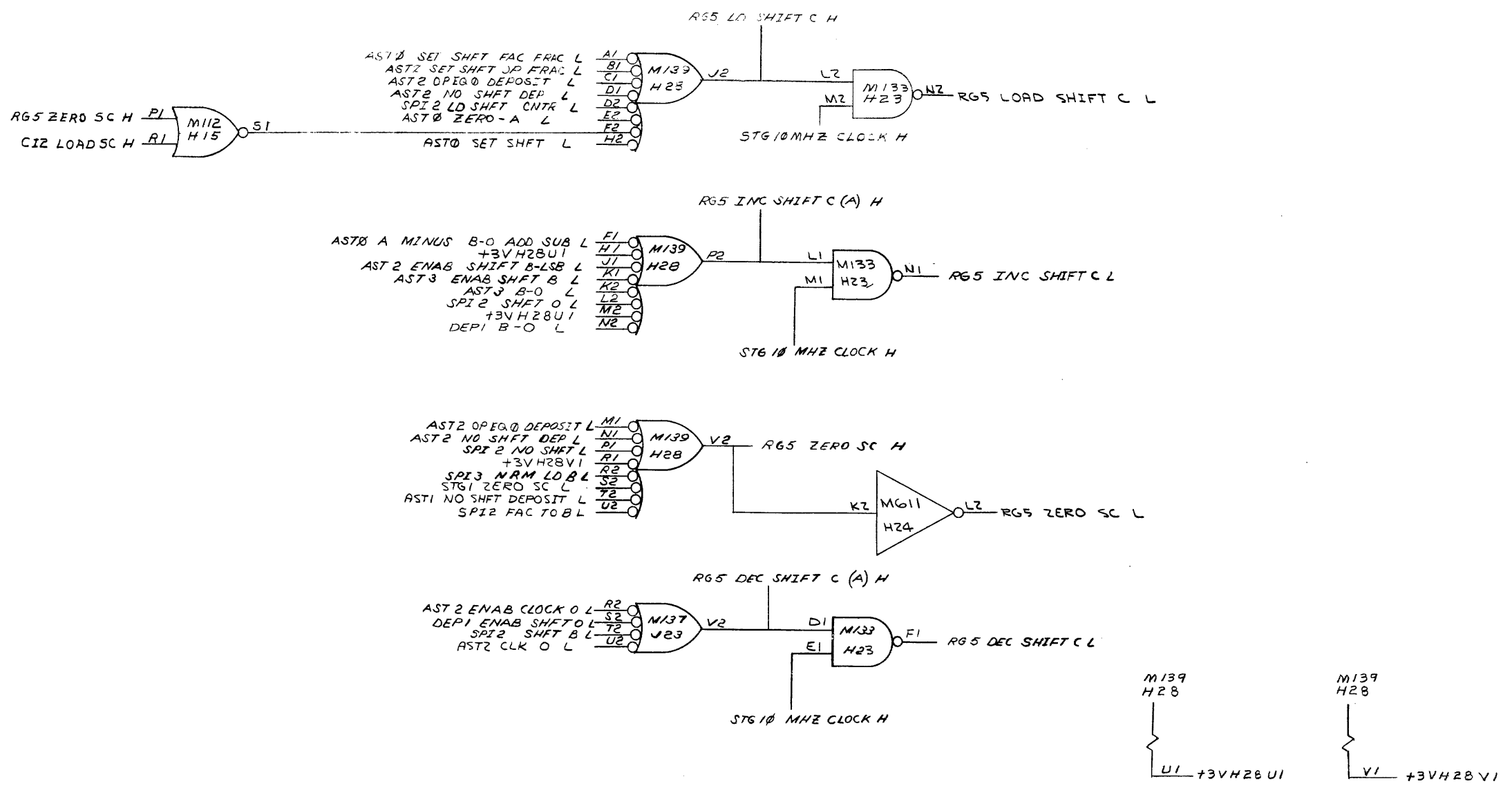
\* NOTE:  
AST3 ENAB SHF2 BL WAS MOVED TO THIS POSITION TO REDUCE GATE DELAYS.

REV	DATE	BY	CHKD	DESCRIPTION
A	11/20/70	S. TEICHER		REVISED FOR REGISTER GATING 4
B	12/1/70	R. MOORE		REVISED FOR REGISTER GATING 4

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
PARTS LIST				
<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				
TITLE: REGISTER GATING 4				
SCALE: NONE				
SHEET: 1 OF 1				
SIZE CODE: DBS FPP12-0-RG 4				
NUMBER: B				

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REV. 2  
 NUMBER FPP12-0-RG5  
 SIZE CODE D

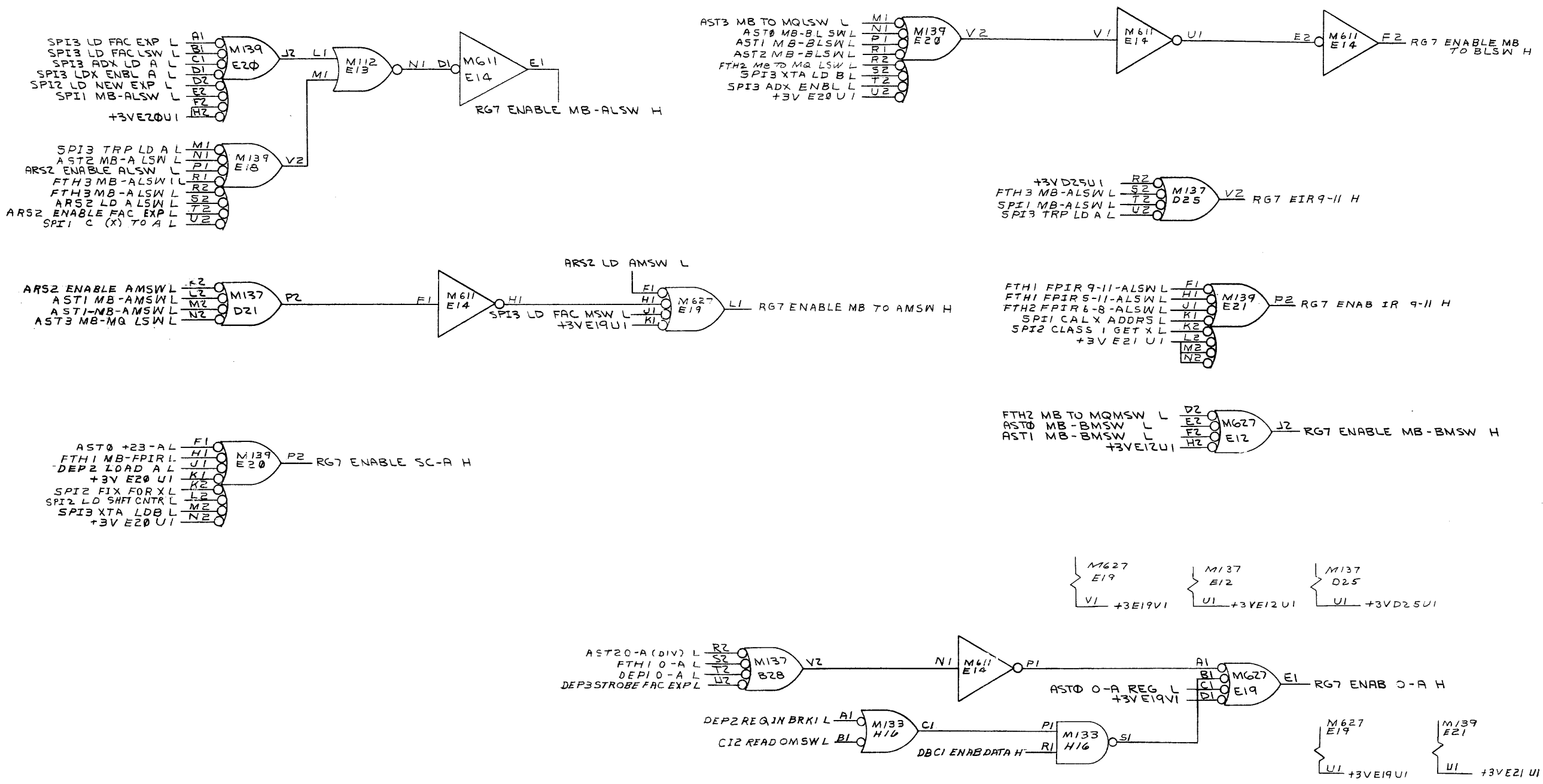


REV.	CHANGE NO.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
UNLESS OTHERWISE SPECIFIED				
DWN		DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHKD.		DATE	TITLE	
ENG.		DATE	REGISTER GATING 5	
PROJ. ENG.		DATE	SIZE CODE NUMBER REV.	
PROD.		DATE	D E S F P P 1 2 - 0 - R G 5	
MATERIAL		NEXT HIGHER ASSY		
FINISH		SCALE NONE		
SHEET 1 OF 1		DIST		



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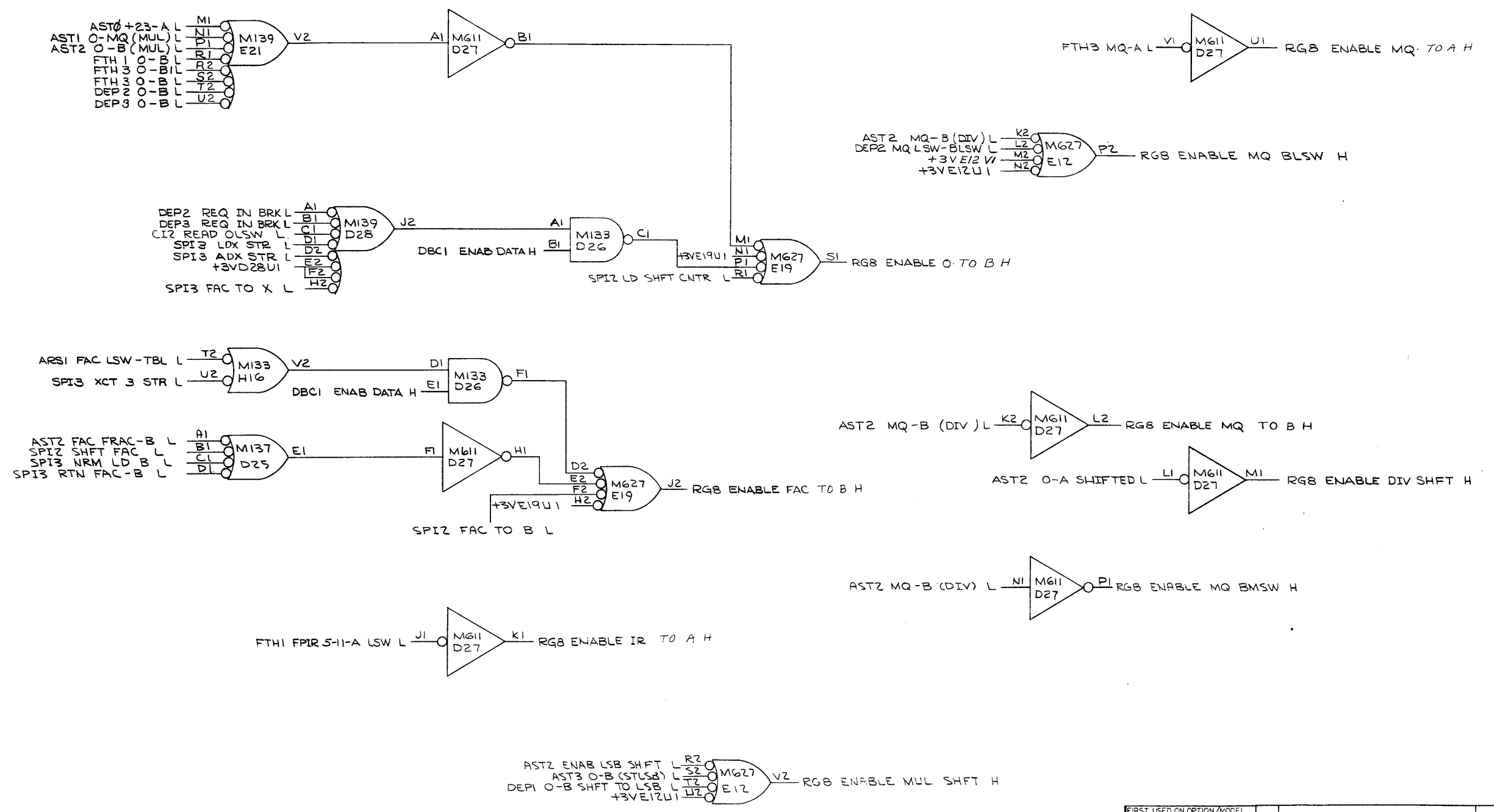


REV.	CHG. NO.	DATE	BY
1	0005	5-17-71	TEICHER
2			

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
UNLESS OTHERWISE SPECIFIED				
DRN	DATE	DATE	PARTS LIST	
CHK'D	DATE	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
ENG.	DATE	DATE	TITLE	
PROJ. ENG.	DATE	DATE	MULTIPLEXER ENABLES I	
PROD.	DATE	DATE	NEXT HIGHER ASSY	
			A-ML-FPP12-0	
MATERIAL		SCALE	NUMBER	REV.
FINISH		NONE	DBS FPP12-0-RG7	A
SHEET		OF	DIST.	

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REV. A  
 NUMBER  
 BS FPP12-0-RG8  
 SIZE CODE  
 2

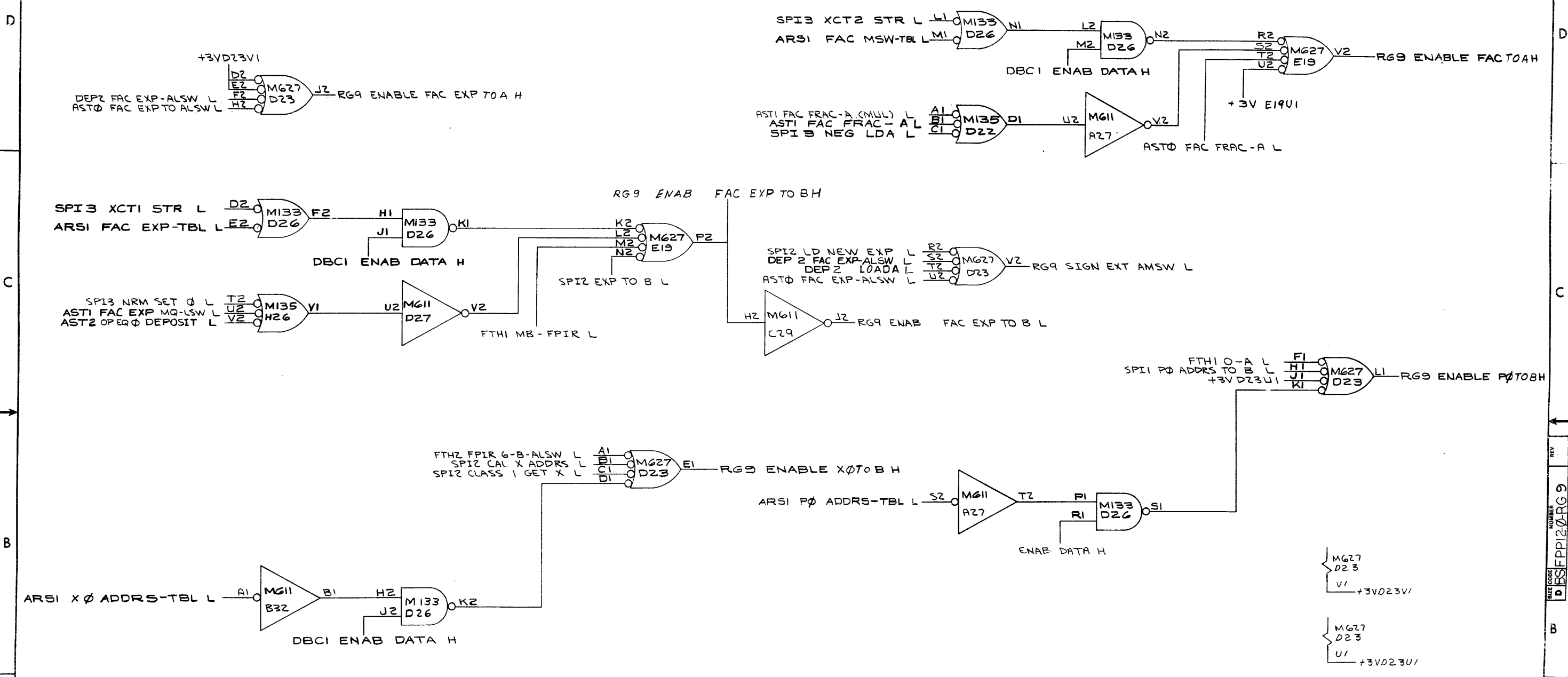


REVISIONS	CHANGE NO.	REV.
1	FPP12-0007	A
M. G. ... 9-7-71		
R. MOORE 9-8-71		

FIRST USED ON OPTION/MODEL FPP12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D.	DATE	TITLE	
TOLERANCES	ENG.	DATE	MULTIPLEXER ENABLES 2	
DECIMALS FRACTIONS ANGLES	PROJ. ENG.	DATE	SIZE CODE NUMBER REV.	
± .005 ± 1/64 ± 0°30'	PROD.	DATE	D BS FPP12-0-RG8 A	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	NEXT HIGHER ASSY			
MATERIAL	A-ML-FPP12-0			
FINISH	SCALE NONE			
SHEET 1 OF 1		DIST.		

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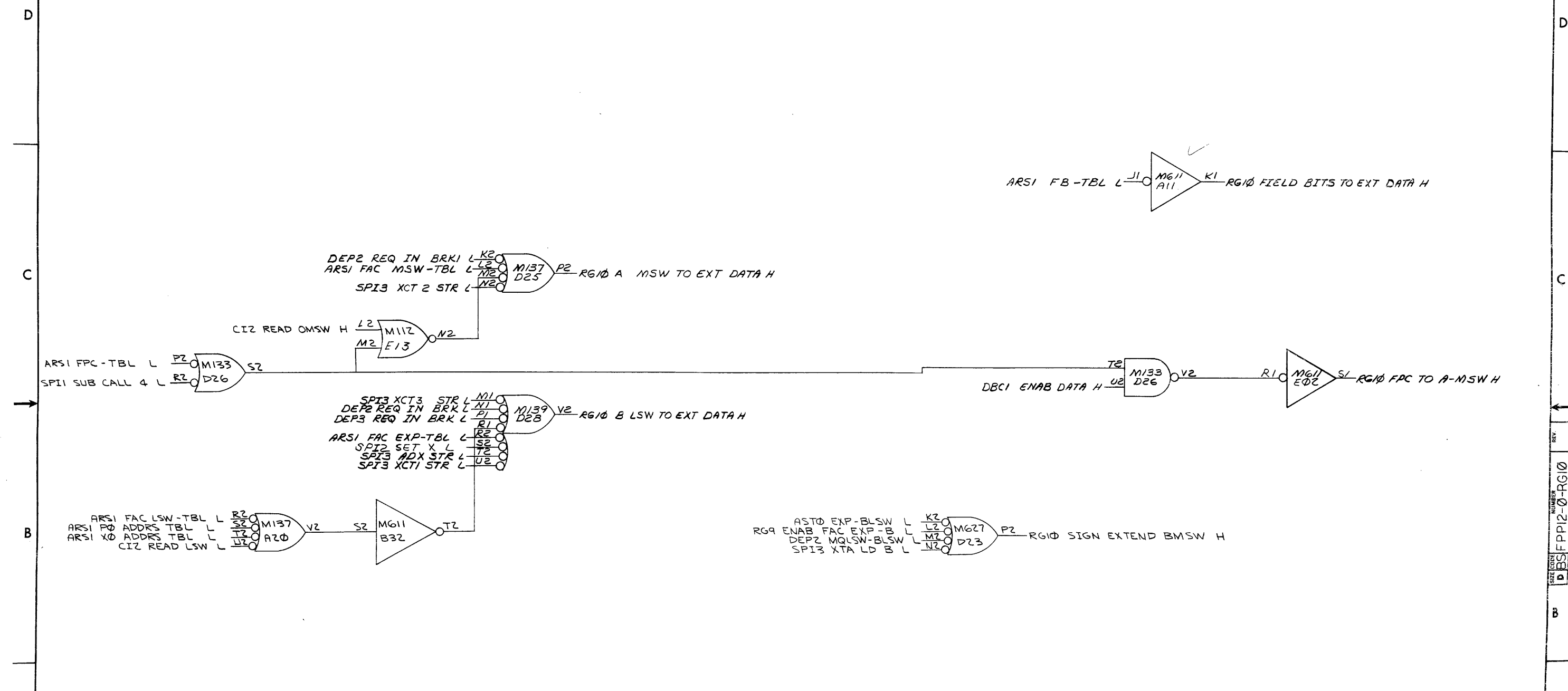
REV. 2  
 SIZE CODE DBSFPPI2-0-RG9  
 NUMBER 3000 3210



REV.	CHANGE NO.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	<b>digital</b> EQUIPMENT CORPORATION MATNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE		
TOLERANCES	ENG	DATE		
DECIMALS FRACTIONS ANGLES	PROJ. ENG.	DATE		
± .005 ± 1/64 ± 0°30'	PROD.	DATE	<b>MULTIPLEXER ENABLES 3</b>	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
FINISH			NEXT HIGHER ASSY A-ML-FPP12-Z	
	SCALE		SIZE CODE NUMBER DBSFPPI2-0-RG9	
	SHEET	1 OF 1	DIST.	

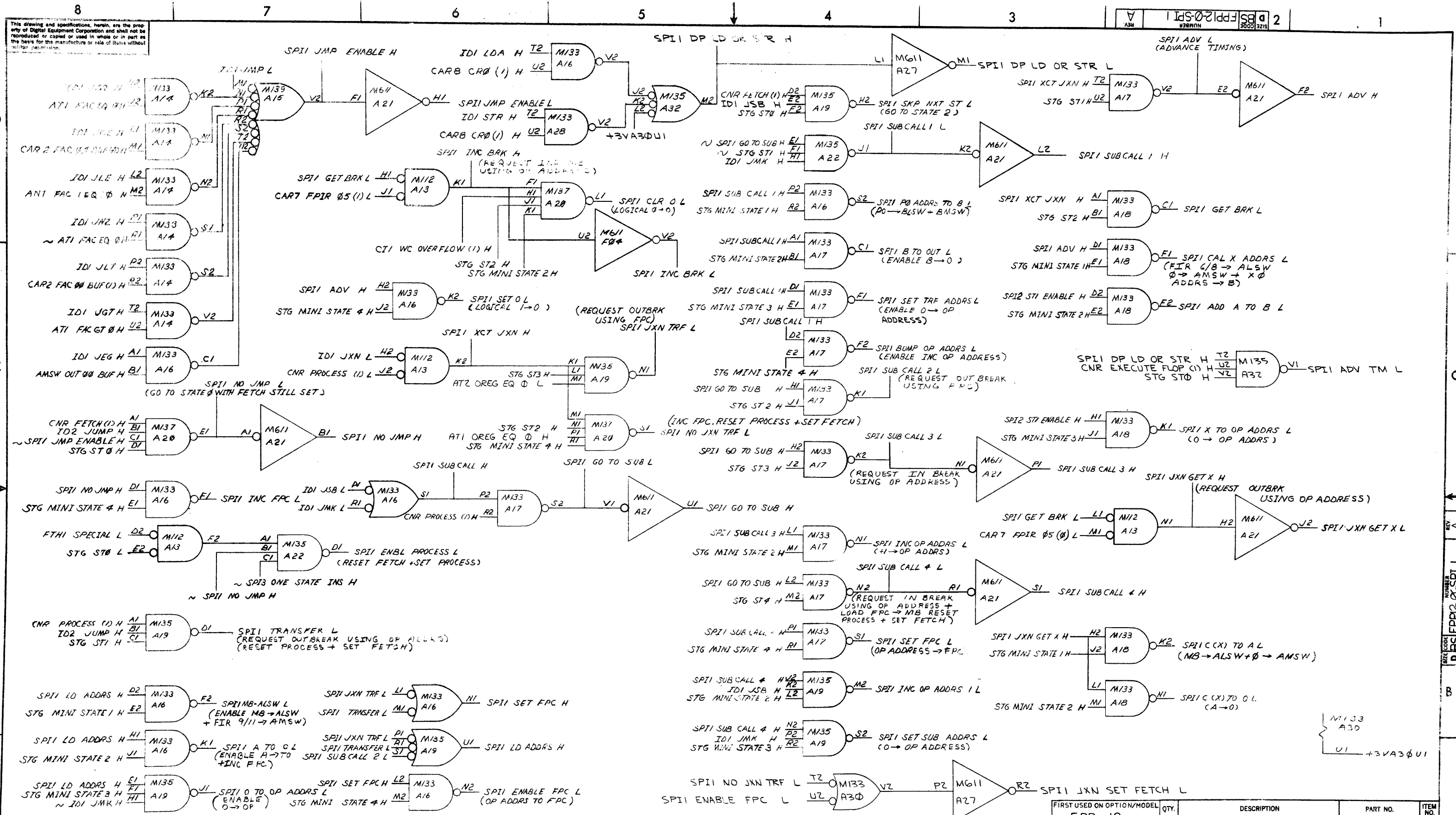
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REV	DATE	DESCRIPTION

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION WAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	TITLE	
DIMENSION IN INCHES	W. Major	11/10/70	MULTIPLEXER	
TOLERANCES	ENG	DATE	ENABLES 4	
DECIMALS = .005	PROJ. ENG.	DATE		
FRACTIONS = 1/64	A. S. S.	10/30/70		
ANGLES = 0°30'	PROJ. DATE	10/30/70		
FINAL SURFACE QUALITY	PROD. DATE	12/1/70		
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL			SCALE	NONE
			SHEET	OF
FINISH			SIZE CODE	NUMBER
			D E S F P P 1 2 - 0 - R G 1 0	REV
			DIST.	

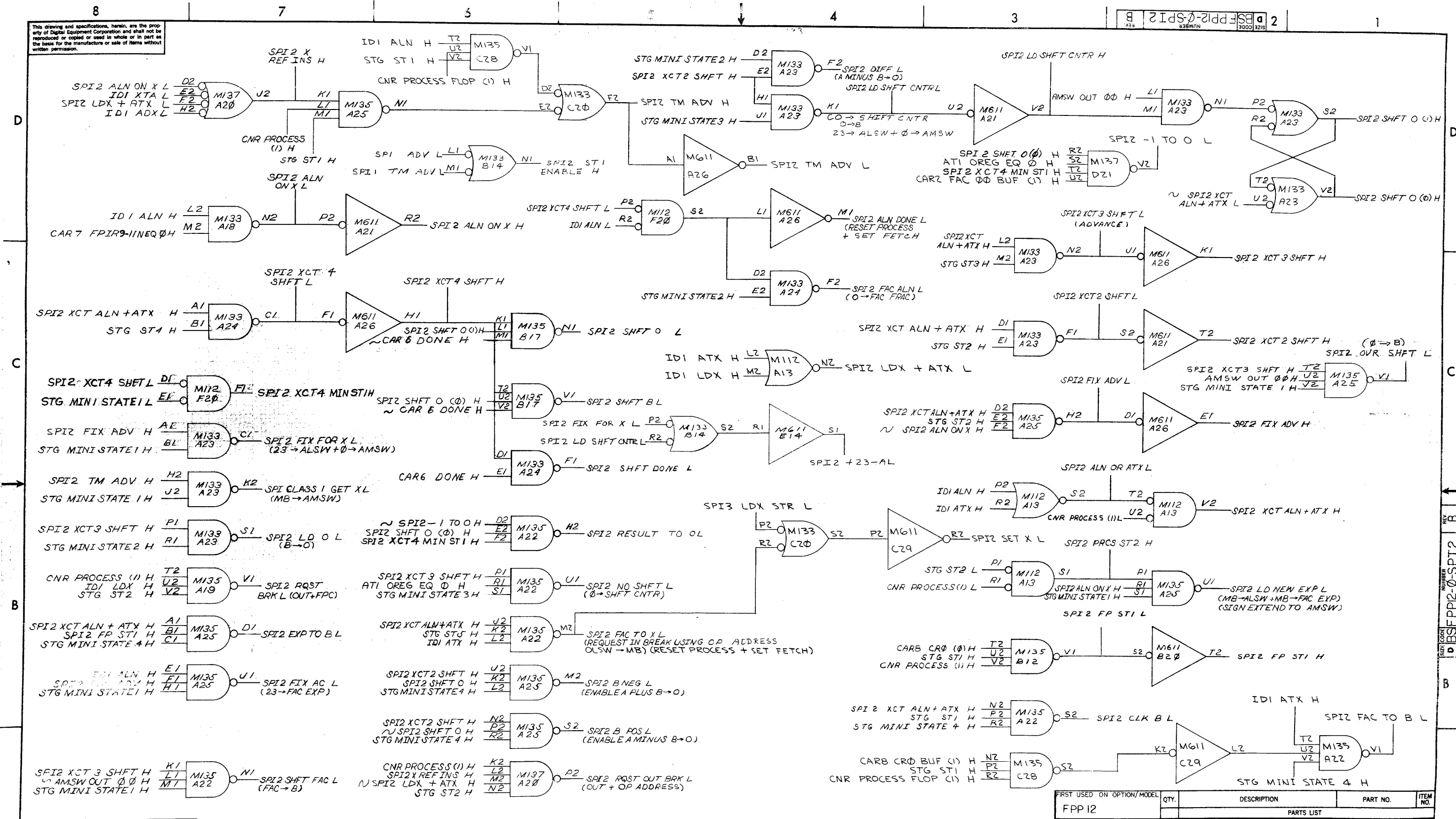




REV	CHG	NO	DATE	BY
1				
2				
3				
4				
5				
6				
7				
8				

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP 12				
UNLESS OTHERWISE SPECIFIED				
DRN. DATE 8-11-70				
CHK'D. DATE 11/10/70				
TOLERANCES				
DIMENSION IN INCHES				
DECIMALS FRACTIONS ANGLES				
= .005 ± 1/64 ± 0°30'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
FINISH				
NEXT HIGHER ASSY				
SCALE NONE				
SHEET OF				
PARTS LIST		digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
TITLE				
SPECIAL INSTRUCTIONS 1				
SIZE CODE		NUMBER		REV
D E S F P P 1 2 - 0 - S P I 1				A
DIST.				

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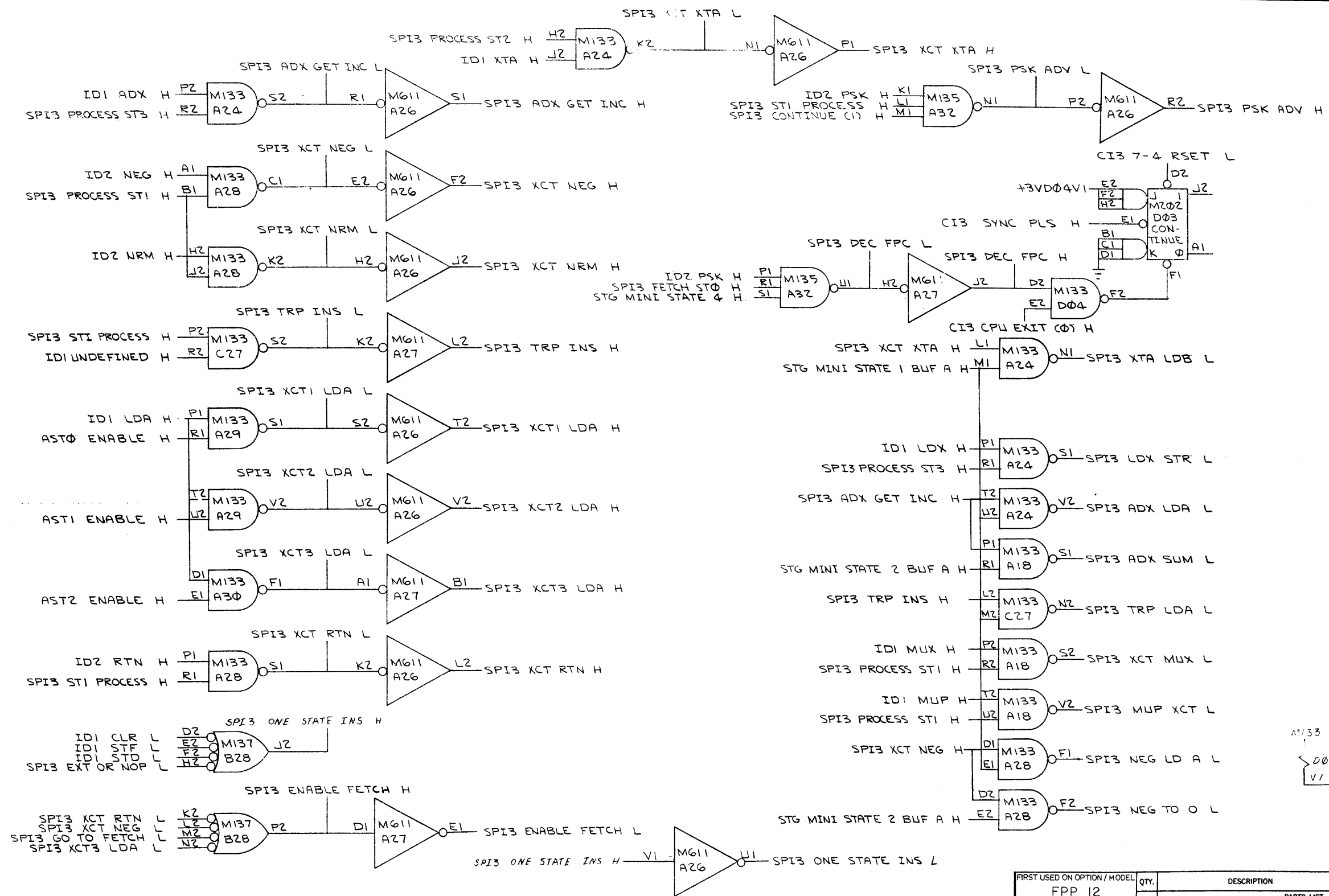
REV.	CHG. NO.	DATE	BY	CHK.
A	0003	3-7-71	R-MOORE	R-MOORE
B	0007	9-7-71	R-MOORE	R-MOORE
C	0008	9-8-71	R-MOORE	R-MOORE

DEC FORM NO. DRG 107A

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED: ORN. M. LAMBERT DATE 8-3-71				
UNLESS OTHERWISE SPECIFIED: CHK'D. DATE				
DIMENSION IN INCHES				
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
± .005 ± 1/64 ± 0°30'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
NEXT HIGHER ASSY				
FINISH				
SCALE				
SHEET OF				
TITLE				
SPECIAL INSTRUCTIONS 2				
SIZE: CODE NUMBER REV.				
A-ML-FPP12-0 DBSFPPI2-0-SPI2 B				

1

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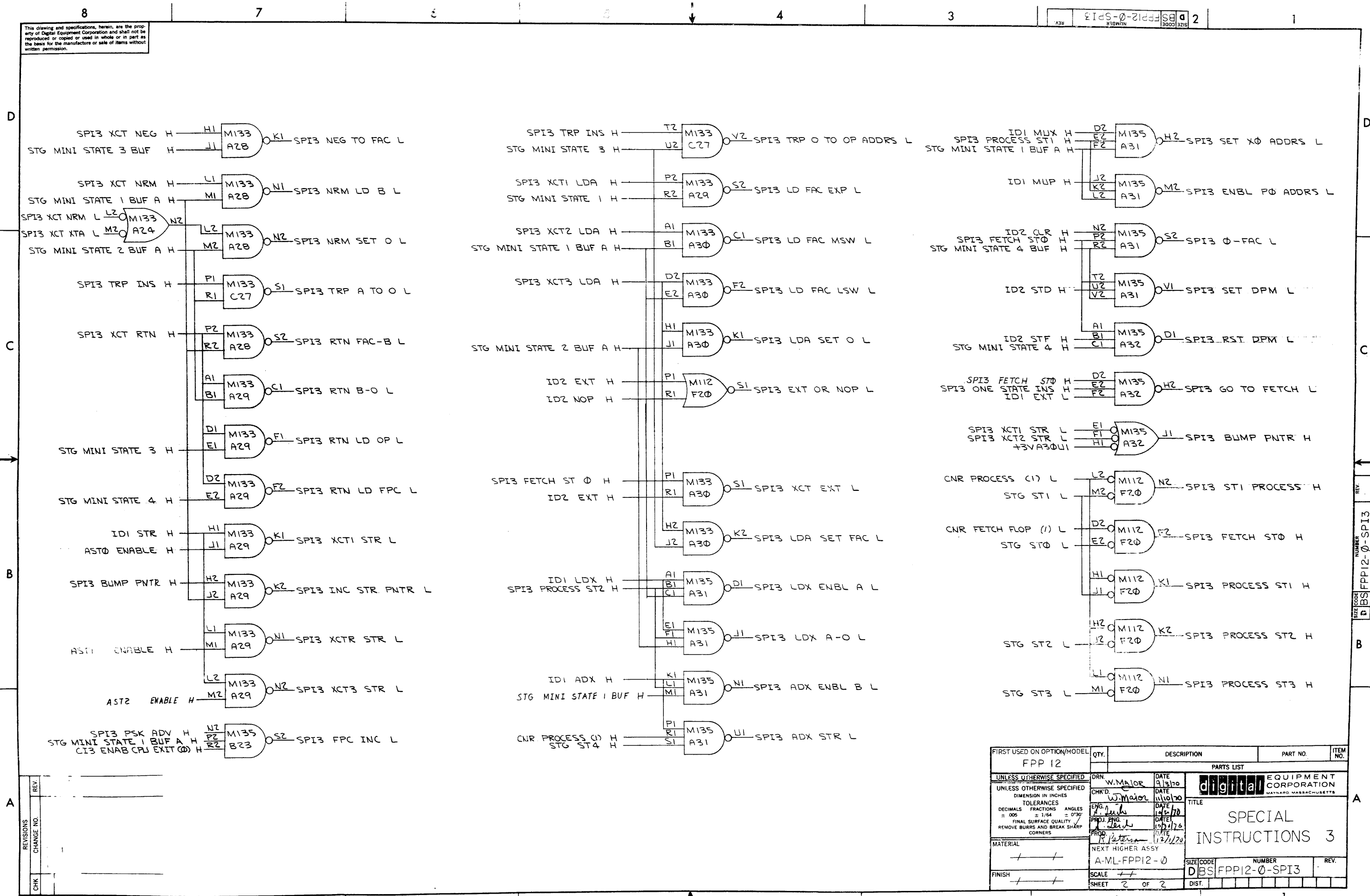
REV	CHANGE NO.

FIRST USED ON OPTION / MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP 12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	W. MAJOR	DATE	9/3/70
UNLESS OTHERWISE SPECIFIED	CHK'D	W. MAJOR	DATE	11/10/70
UNLESS OTHERWISE SPECIFIED	ENG.	A. DEW	DATE	10/30/70
UNLESS OTHERWISE SPECIFIED	PROJ. ENG.	A. DEW	DATE	10/24/70
UNLESS OTHERWISE SPECIFIED	PROD.	P. PETERS	DATE	12/1/70
MATERIAL				
NEXT HIGHER ASSY				
A-ML-FPP12-0				
FINISH				
SCALE				
SHEET 1 OF 2				
TITLE		SPECIAL INSTRUCTIONS 3		
SIZE CODE		NUMBER		
BS FPP12-0-SPI3		REV.		

REV. 2  
 SIZE CODE  
 BS FPP12-0-SPI3  
 NUMBER

A

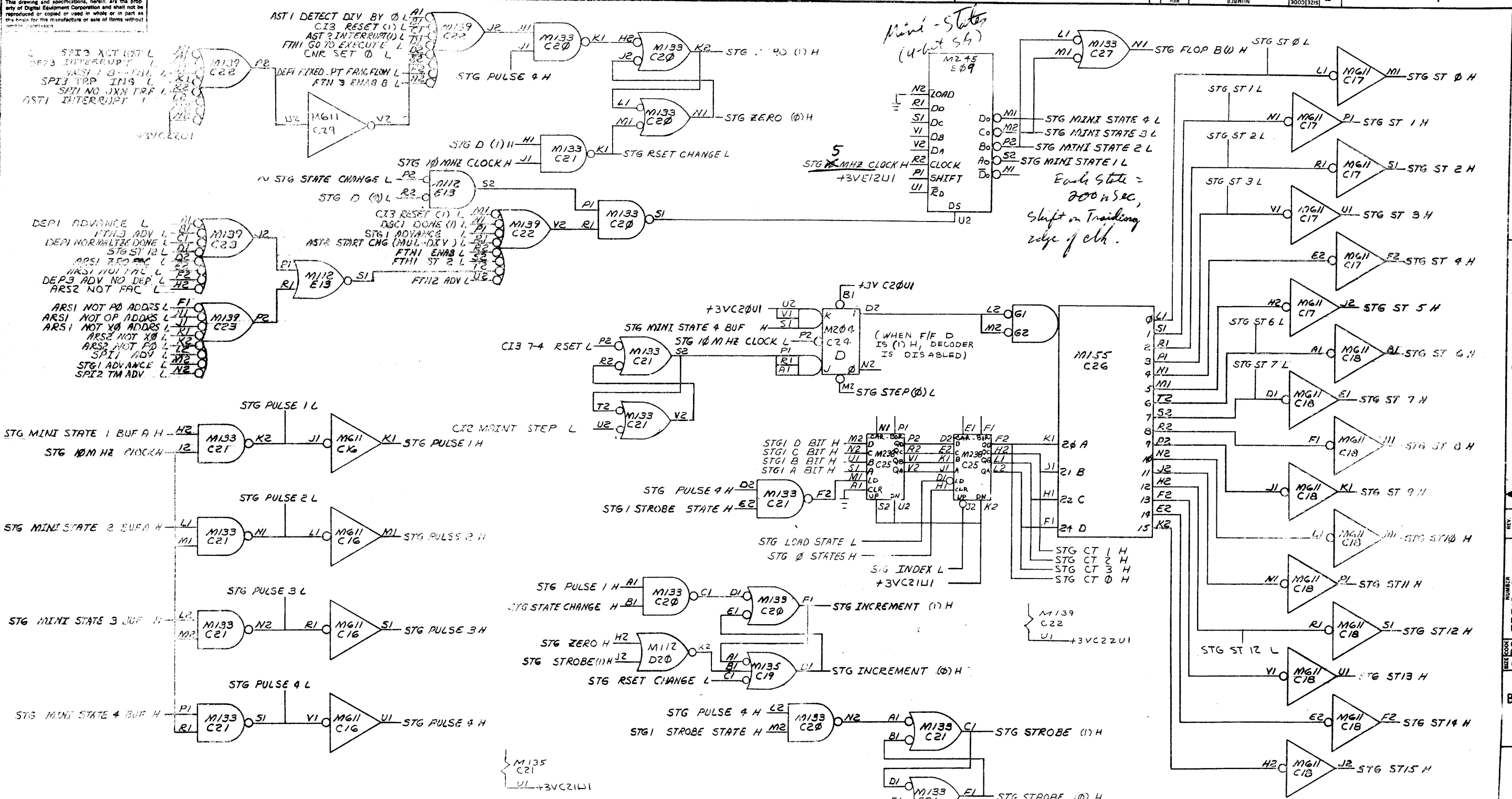
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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP 12				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN.	W. MAJOR	DATE	9/3/70
UNLESS OTHERWISE SPECIFIED	CHK'D.	W. MAJOR	DATE	11/10/70
DIMENSION IN INCHES	ENG.	W. MAJOR	DATE	11/10/70
TOLERANCES	PROJ. ENG.	W. MAJOR	DATE	10/21/70
DECIMALS FRACTIONS ANGLES	PROD.	R. PATTON	DATE	12/1/70
± .005 ± 1/64 ± 0°30'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	NEXT HIGHER ASSY			
FINISH	A-ML-FPP12-0			
SCALE	SCALE	++		
SHEET	2	OF	2	
TITLE		SPECIAL INSTRUCTIONS 3		
SIZE CODE	NUMBER	D BS FPP12-0-SPI3		
DIST.	REV.	1		

REV.	CHANGE NO.
1	

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REV.	CHANGE NO.	DATE	BY
A	0005	5-27-71	FEICHER
B	0007	5-28-71	A. S. Smith
C	0008	9-17-71	D. J. COBB
D	0009	7-1-71	W. J. HARRIS

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP12				

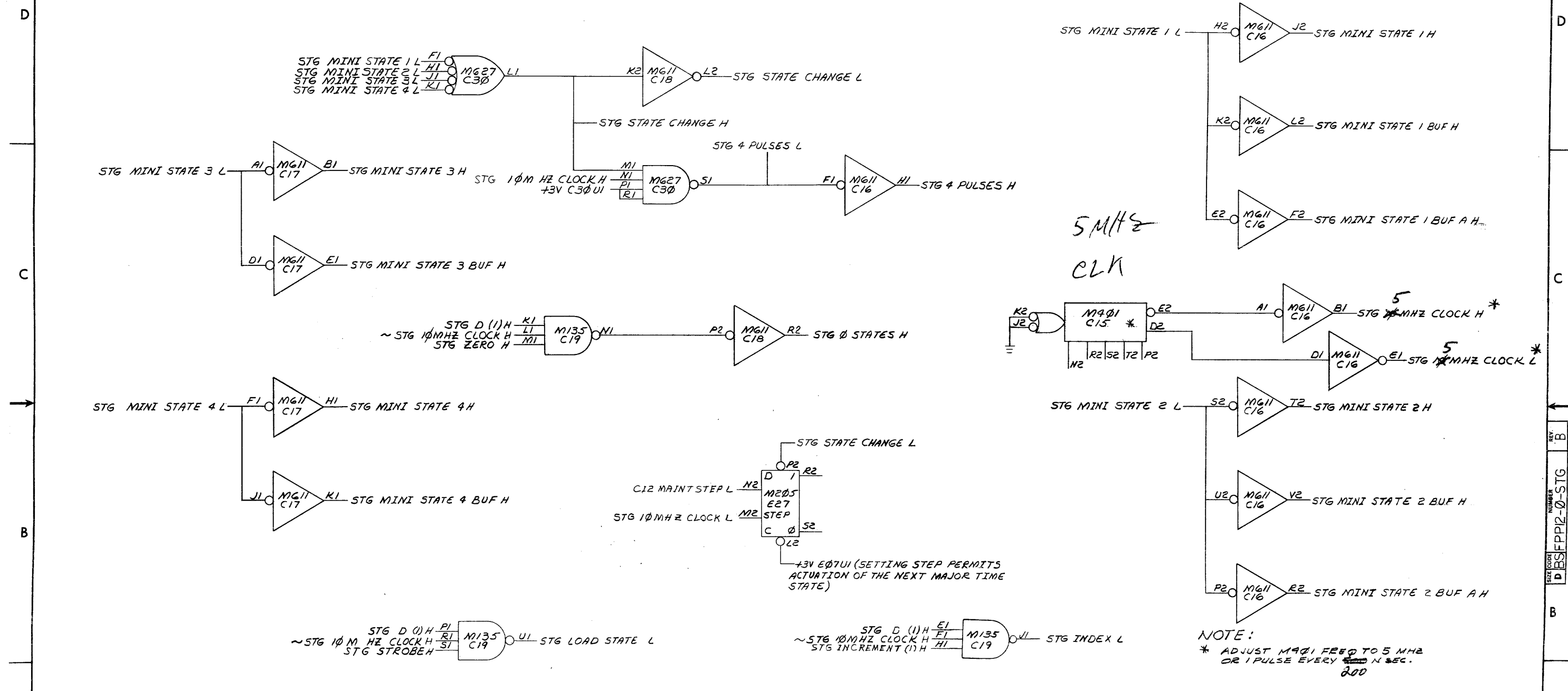
  

UNLESS OTHERWISE SPECIFIED	DRN	DATE	TITLE
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES = .005 = 1/64 = 0°30' FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	W. Major	11/20/70	STATE GEN
MATERIAL	R. Peterson	12/1/70	
FINISH			

SIZE CODE	NUMBER	REV.
DBS	FPP12-0-STG	B

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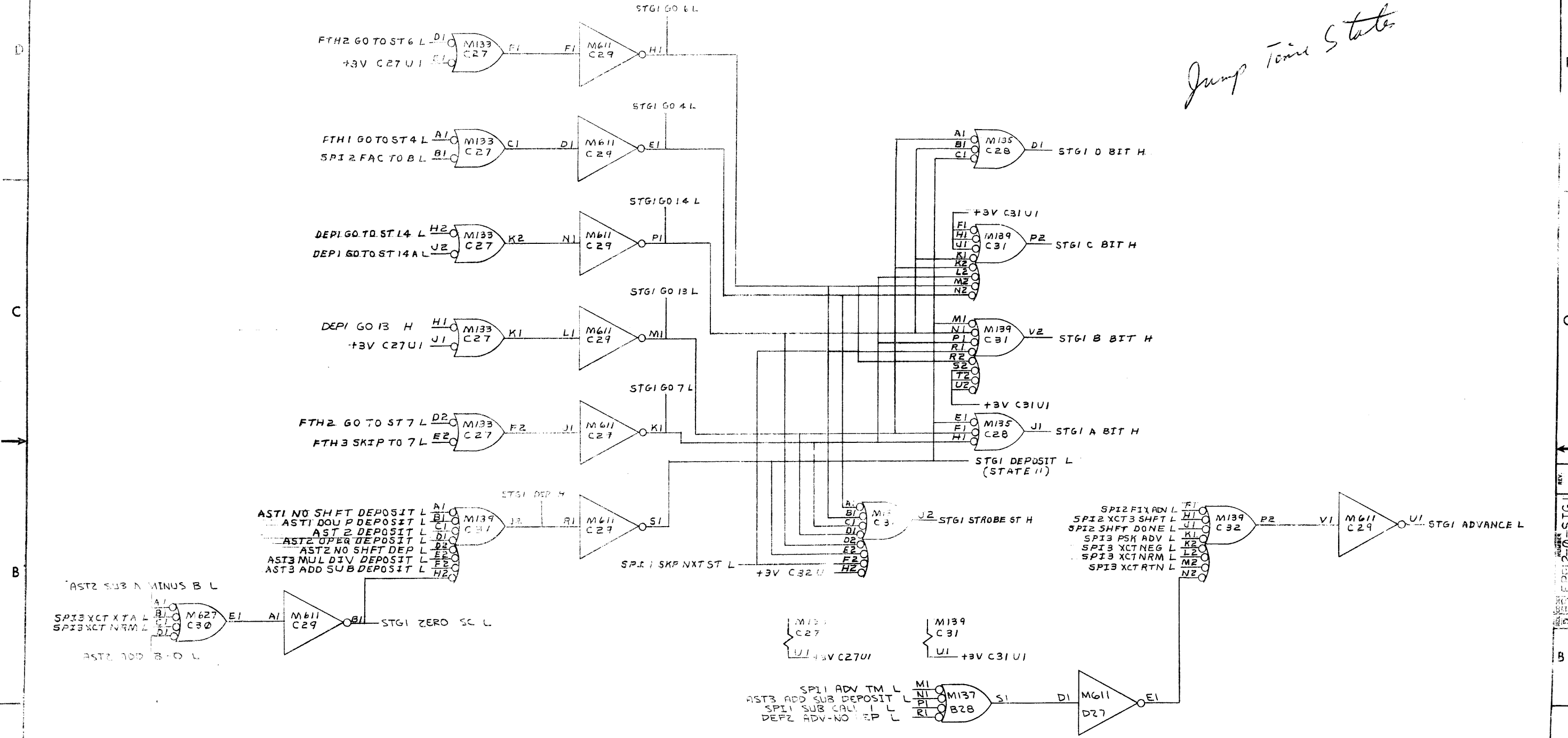
NOTE:  
\* ADJUST M401 FREQ TO 5 MHz  
OR 1 PULSE EVERY 200 N SEC.

REV	
CHANGE NO.	
CHK	

FIRST USED ON OPTION MODEL FPPI2	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRN	DATE	digital EQUIPMENT CORPORATION WATNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	CHK'D	DATE	TITLE	
TOLERANCES	ENG.	DATE	STATE GEN	
DECIMALS FRACTIONS ANGLES	PROJ. ENG.	DATE	SIZE CODE NUMBER	
± .005 ± 1/64 ± 0°30'	PRD.	DATE	DBSFPPI2-0-STG	
FINAL SURFACE QUALITY			REV.	
REMOVE BURRS AND BREAK SHARP CORNERS			B	
MATERIAL	NEXT HIGHER ASSY		SCALE NONE	
FINISH	A-ML-FPPI2-0		SHEET 2 OF 2	
			DIST.	

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*Jump Time State*



REV.	CHANGE NO.

DEC FORM 10  
OCT 1974

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FFP12				
UNLESS OTHERWISE SPECIFIED				
DRN	DKC/GT	DATE	8/7/70	
CHK'D	W. Major	DATE	11/10/70	
ENG	J. J. J.	DATE	1/17/70	
PROJ. ENG.	J. J. J.	DATE	11/24/70	
PROD.	R. P. P.	DATE	12/1/70	
NEXT HIGHER ASSY				
A-M-FFP12-0				
SCALE NONE				
SHEET OF				
TITLE		PARTS LIST		
STATE GENERATOR JUMPS		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
SIZE CODE	NUMBER	REV.		
DBS	FFP12-0-STG1			

REV. 2 DBS FFP12-0-STG1







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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
USAGE	M197	M611	M101	M101	M611	M611	M133	M623	M245	M129	M129	M627	M112	M611	M139	M139	M139	M139	M627	M139	M139	M129
D	C13 IOT 1-2-2, 3-1, 4-2, 5-1, 6-2, 7-2, 7-4	C13 IOT 7-4 LD AC ID2 DOU P SUB ID2 F SUB ID2 FADD THRU ID2 NOP ID2 RESULTS TO MEM	ENABLE CLR LD AC ID2 DOU P SUB ID2 F SUB ID2 FADD THRU ID2 NOP ID2 RESULTS TO MEM	C11 BMB 00 (1)	C11 BMB 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)
E	C13 IOT 1-2-2, 3-1, 4-2, 5-1, 6-2, 7-2, 7-4	C13 IOT 7-4 LD AC ID2 DOU P SUB ID2 F SUB ID2 FADD THRU ID2 NOP ID2 RESULTS TO MEM	ENABLE CLR LD AC ID2 DOU P SUB ID2 F SUB ID2 FADD THRU ID2 NOP ID2 RESULTS TO MEM	C11 BMB 00 (1)	C11 BMB 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)	C11 BAC 00 (1)
C	M135	M611	M611	M611	M623	M139	M139	M139	M245	M245	M245	M139	M133	M112	M135	M139	M139	M611	M205	M112	M139	M139
F	SET BRK REQ FLOP	C11 BAC 00 (1)	C12 LOAD SC	C12 READ APT	EXT DATA 02	EXT DATA 07	EXT DATA IN	EXT DATA IN	EXT DATA IN	EXT DATA IN	EXT DATA IN	EXT DATA IN	EXT DATA IN	EXT DATA IN	EXT DATA IN	EXT DATA IN	EXT DATA IN	EXT DATA IN	EXT DATA IN	EXT DATA IN	EXT DATA IN	EXT DATA IN
B	AMSW B REG LSB 3	AMSW B REG LSB 4	AMSW B REG LSB 5	AMSW B REG LSB 6	AMSW B REG LSB 7	AMSW B REG LSB 8	AMSW B REG LSB 9	AMSW B REG LSB 10	AMSW B REG LSB 11	AMSW B REG LSB 12	AMSW B REG LSB 13	AMSW B REG LSB 14	AMSW B REG LSB 15	AMSW B REG LSB 16	AMSW B REG LSB 17	AMSW B REG LSB 18	AMSW B REG LSB 19	AMSW B REG LSB 20	AMSW B REG LSB 21	AMSW B REG LSB 22	AMSW B REG LSB 23	AMSW B REG LSB 24
A	EXT LD A1	EXT LD A2	EXT LD A3	EXT LD A4	EXT LD A5	EXT LD A6	EXT LD A7	EXT LD A8	EXT LD A9	EXT LD A10	EXT LD A11	EXT LD A12	EXT LD A13	EXT LD A14	EXT LD A15	EXT LD A16	EXT LD A17	EXT LD A18	EXT LD A19	EXT LD A20	EXT LD A21	EXT LD A22

NOTES:  
 \* FOR NEG BUS (FPP12-N)  
 REPLACE M101 AND M623 WITH  
 M100 AND M633 RESPECTIVELY  
 IF A FPP12-N MAKE ADD/DELETES  
 INDICATED ON PRINTS CAR8 AND C11.  
 IF A FPP12-B MAKE ADD/DELETES  
 INDICATED ON PRINTS CAR8 AND DBC1.

FIRST USED ON OPTION/MODEL  
FPP 12

DO NOT SCALE DRAWING  
UNLESS OTHERWISE SPECIFIED  
DIMENSION IN INCHES

TOLERANCES  
DECIMALS FRACTIONS ANGLES  
= .005 = 1/64 = 0°30'

FINAL SURFACE QUALITY  
REMOVE BURRS AND BREAK SHARP  
CORNERS.

MATERIAL  
FINISH

DRN: W.M.A. 102  
CHK'D: W.M.A. 102  
DATE: 12/1/70  
PROJ. ENG: J. DeLuca  
DATE: 12/1/70  
PROD. DATE: 12/1/70

digital EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

TITLE  
MODULE UTILIZATION

SIZE CODE: A-ML-FPP12-0  
NUMBER: DIMU FPP12-0-02  
REV: F

SCALE: SHEET 3 OF 4  
DIST.



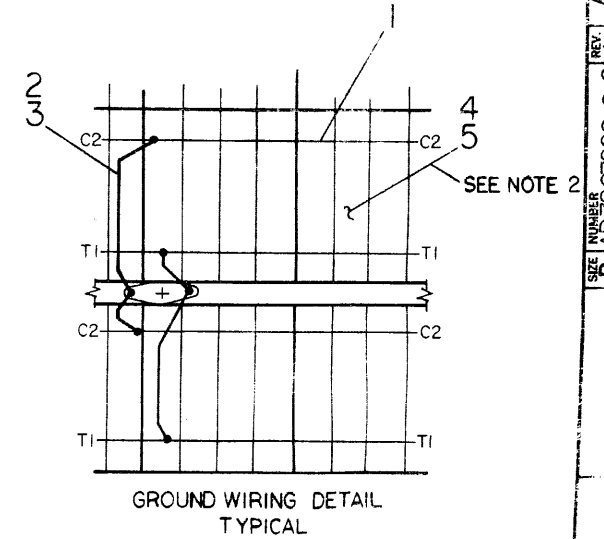
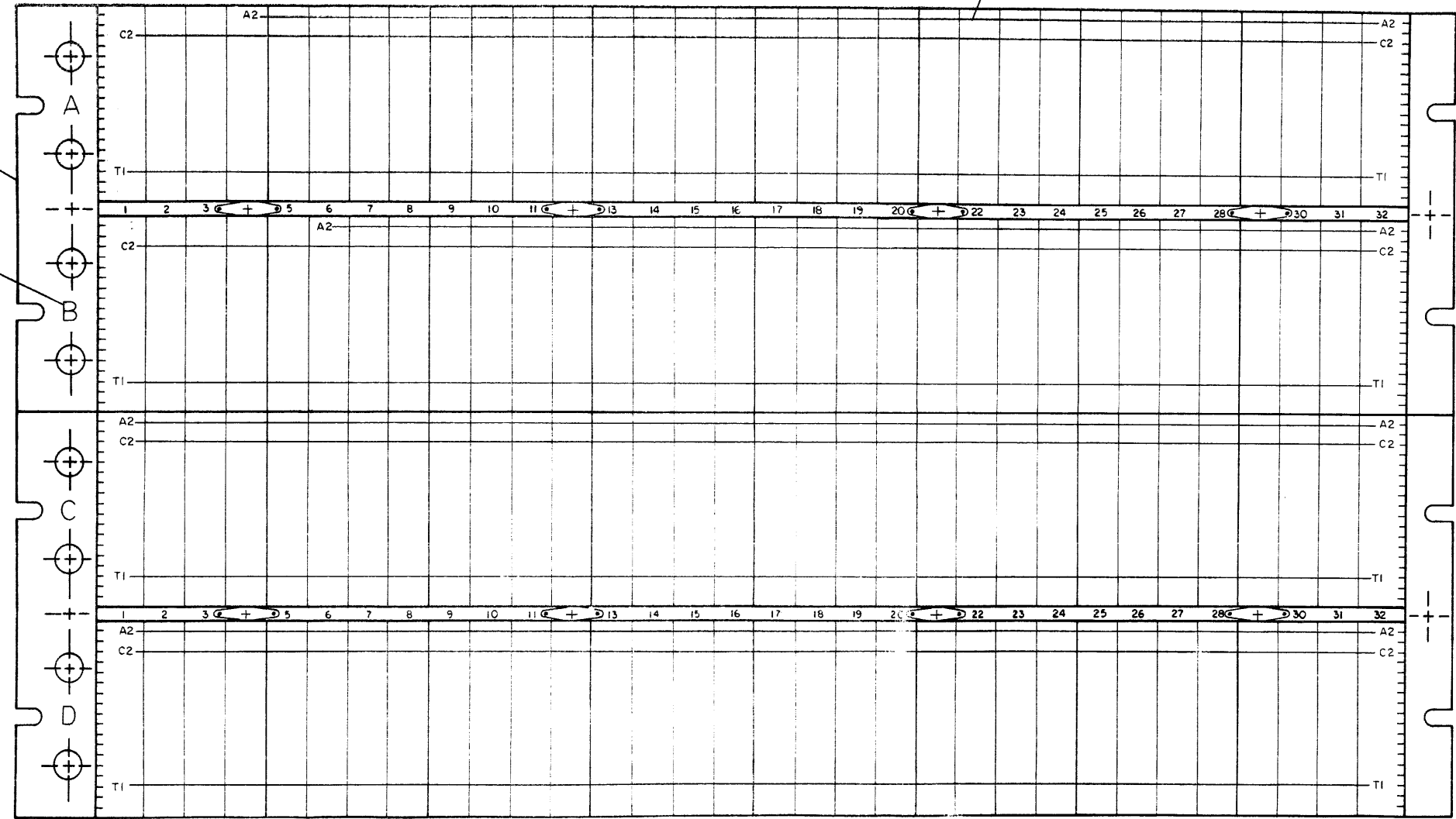


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WIRE TABLE

ITEM NO	DESCRIPTION	SIGNAL NAME	FROM PIN	TO PIN	REMARKS
5	30 BLU	DBCI SET BRK REQ FLOP L	E2 F2	F0?D1	SEE NOTE 5

- NOTES:
1. CONNECTIONS ON ITEM NO 1#2 TO BE LOCATED AND SOLDERED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS
  2. ALL CONNECTOR BLOCKS TO BE GROUNDED TO GROUND LUGS AS SHOWN, 4 PLACES
  3. JUMPER GROUND BUSSING AS SHOWN 8 PLACES.
  4. USE YELLOW WIRE (ITEM#4) FOR MACHINE WRAPPED AND BLUE WIRE (ITEM#5) FOR HAND WRAPPED WIRING.
  5. THIS SIGNAL IS NOW HAND-WRAPPED TO ELIMINATE NOISE PICK-UP.



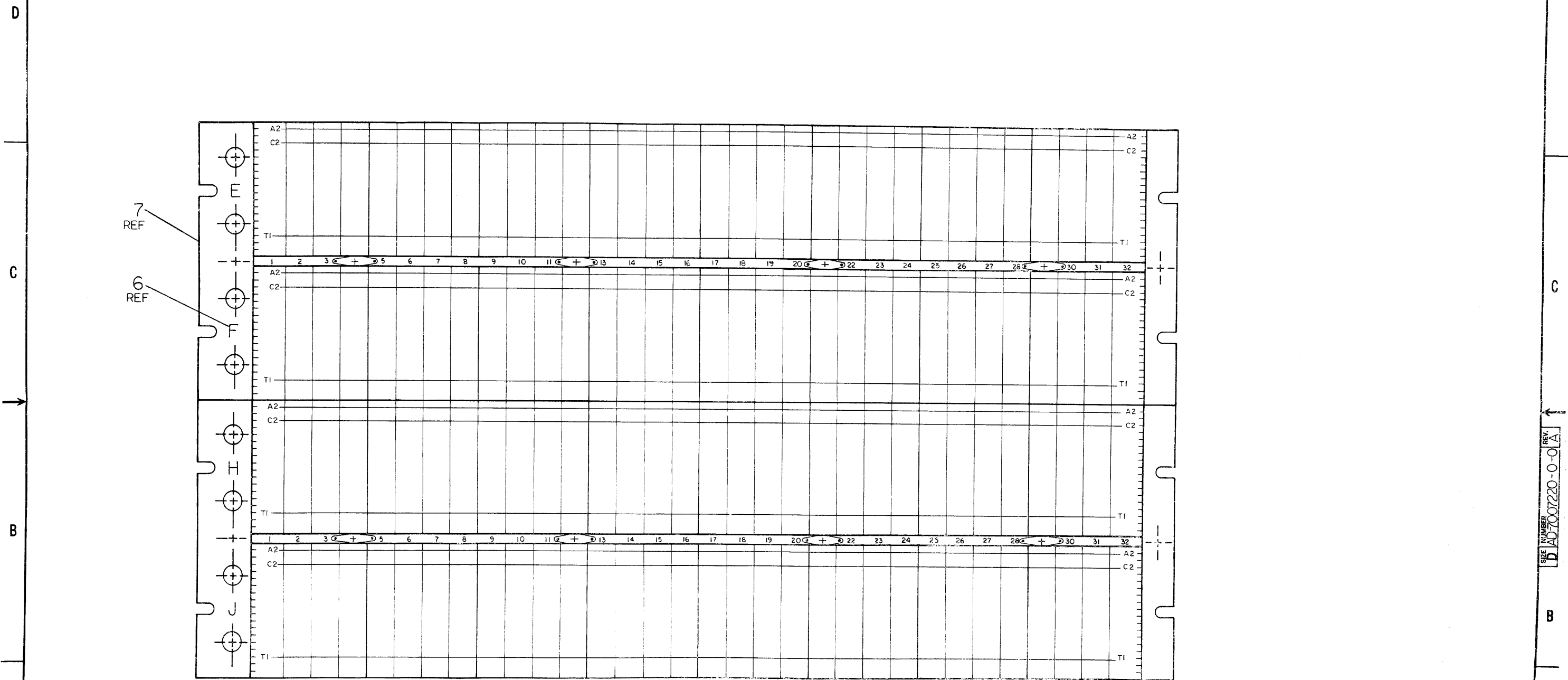
REVISIONS

CHK	CHANGE NO.	REV.	DATE
	FPP12-00014	A	

BY: R. IKNAIAN  
DATE: 9-21-73

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
FPP 12				
PARTS LIST				
DO NOT SCALE DRAWING	DRN. W. MAJOR	DATE 8/19/70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	CHK'D. W. MAJOR	DATE 10/20/70	TITLE	
TOLERANCES	ENG. J. S. [Signature]	DATE 10/27/70	WIRED ASS'Y (FPP12)	
DECIMALS = .005	PROJ. ENG. J. S. [Signature]	DATE 10/31/70	NEXT HIGHER ASSY	
FRACTIONS = 1/64	PROD. J. S. [Signature]	DATE 11/1/70	D-UA-FPP12-0-0	
ANGLES = 0°30'			SCALE NONE	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS			SHEET 1 OF 2	
MATERIAL			DIST.	
FINISH			SIZE CODE: D AD 7007220-0-0	
			REV. A	

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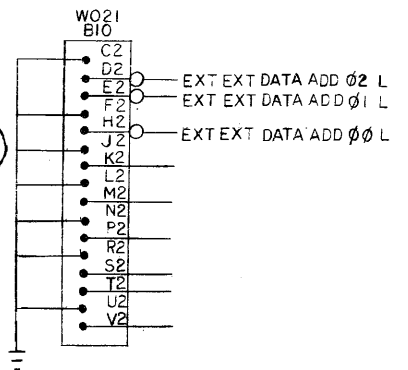
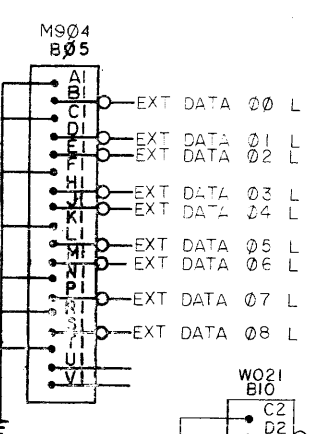
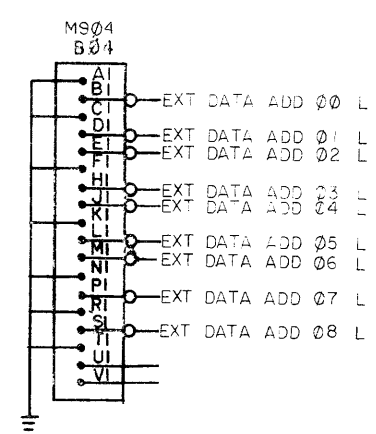
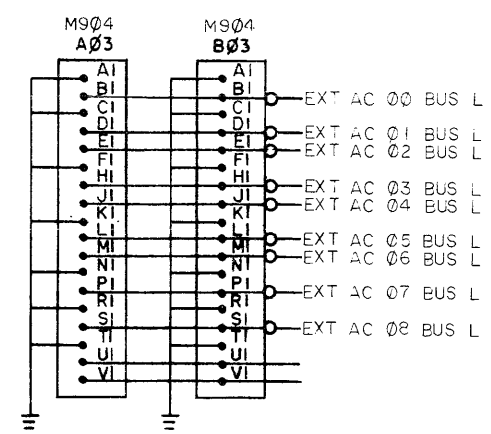
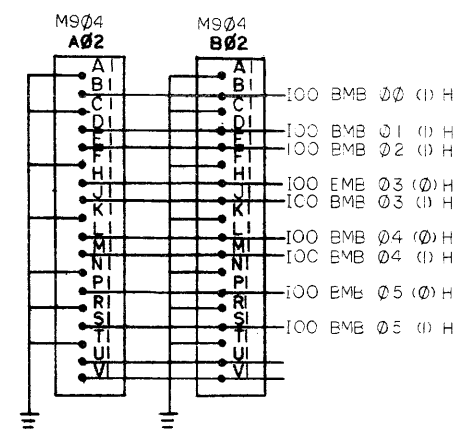
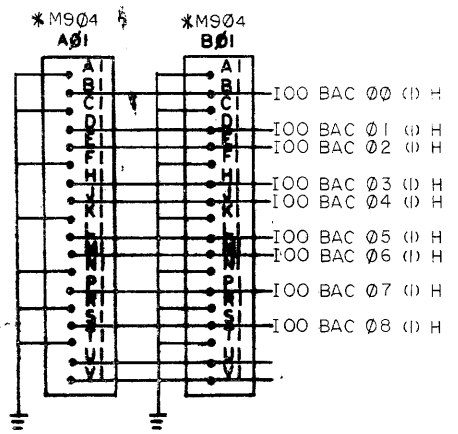


REV.	CHANGE NO.	CHK

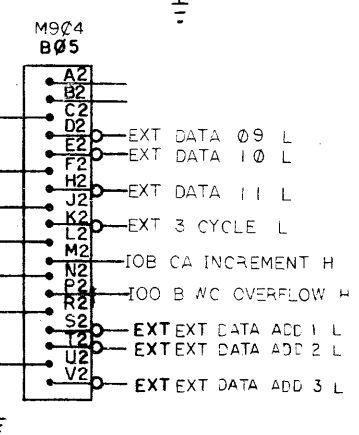
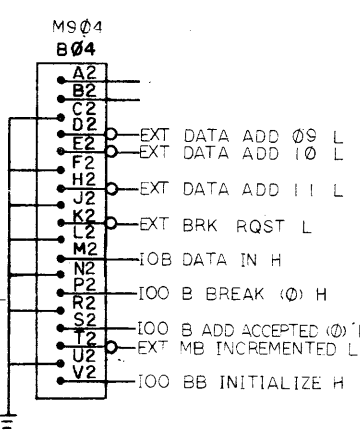
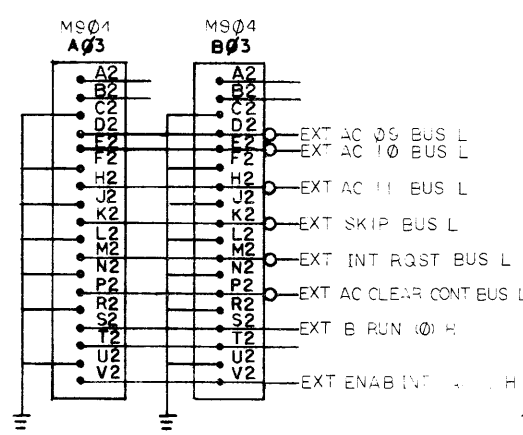
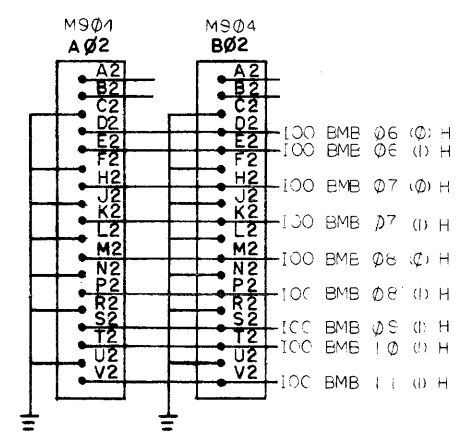
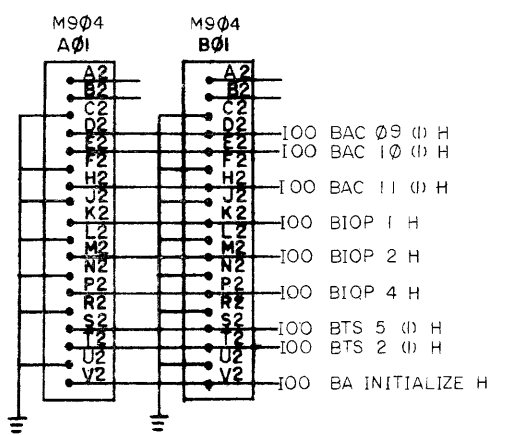
QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES = .005 = 1/64 = 0°30' FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS FINISH		DRN. W. MAJOR DATE 3/18/70 CHKD. W. MAJOR DATE 10/20/70 ENG. J. Seib DATE 1/23/70 PROJ. ENG. J. Seib DATE 10/21/70 PROD. J. Peterson DATE 12/10/70 NEXT HIGHER ASSY	
TITLE WIRED ASS'Y (FPP12)		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
SCALE NONE SHEET 2 OF 2		SIZE CODE: D AD-7007220-0-0 NUMBER: 7007220-0-0 REV. A	



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(THIS CABLE IS USED WITH PDP8 OR LINC 8 COMPUTERS WITH NO DMOI)



NOTES:  
 PLACE 6717 (ETCH REV B) MODULE IN LAST DEVICE ON FOS BUS.


REV.	CHANGE NO.	REVISIONS
A	0005	FPP12-0-IOC
	5-7-71	TEICHER
	5-24-71	A. D. B. 5-24-71

FPP 12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
DRN. W. MAJOR DATE 9/14/70				
CHK'D. W. MAJOR DATE 11/10/70				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES				
TOLERANCES				
DECIMALS FRACTIONS ANGLES				
± .005 ± 1/64 ± 0°30'				
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL				
NEXT HIGHER ASSY				
A-ML-FPP12-0				
FINISH				
SCALE				
SHEET 1 OF 1				
TITLE			NUMBER	REV.
I/O CONNECTORS			DIC FPP12-0-IOC	A
DST.				



DRWG NO	REV LTR
K-WL-FPPI2-0-04	L

REVISIONS			
REV LTR	ECO NO	DATE	ENG
A	FPP10-00001	1-4-71	SJT
B	FPP12-00002	2-3-71	SJT
C	FPP12-00003	3-5-71	SJT
D	FPP12-00005	5-11-71	SJT
E	FPP12-00006	5-17-71	RMM
F	FPP12-00007	9-2-71	RMM
H	FPP12-00008	1-13-72	RMM
J	FPP12-00009	3-9-72	RMM
K	FPP12-00011	5/24/72	RMM
L	FPP12-00014	9-21-73	R&T

DRAWN W. MAJOR	DATE 10/27/70	 <p><b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS</p>	TITLE WIRE LIST		
CHECKED w. major	DATE 10/30/70		FOR TAPE* FILE*		
ENG J. Feidin	DATE 10/30/70		ASSY NO D-AD-7007220-0-0	SIZE K	CODE WL
PROJ ENG J. Feidin	DATE 10/30/70		DWG. NO. FPPI2-0-04	REV LTR L	
PROD P. Peterson	DATE 12/2/70		SCALE ++	SHEET 1	OF 1

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS <b>PARTS LIST</b>				QUANTITY / VARIATION																
MADE BY G. MARINI		CHECKED D. HEALY		SECTION																
DATE 1-26-71		DATE 2-24-71		1																
ENG <i>R. Peterson</i>		PROD <i>R.M. Antunovic</i>		ISSUED SECT.																
DATE 3/3/71		DATE 3/3/71		1																
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																		
1	D-IA-5309024-0-0	FRONT PANEL				1														
2	9006073-3	SCR PHL H TRUSS 10-32 X 1/2 SST				6														
3	9006635	WASHER INT TOOTH #10				10														
4	9006022-1	SCR PHL H PAN 6-32 X 3/8 SST				10														
5	9006633	WASHER INT TOOTH #6				22														
6	1211348	FUSE HOLDER HKP LITTLE FUSE				1														
7	900721	FUSE 5 AMP FAST BLOW				1														
8	9007591	FUSE 25 AMP FAST BLOW				1														
9	9007217	FUSE 3 AMP FAST BLOW				1														
10	9008290-0	FUSE 12 AMP SLOW BLOW				1														
11	9007036	GROMMET CAT #122-37-2500 (3 7/8 LG)				A/R														
12	D-IA-5309023-0-0	COVER TOP				1														
13	E-IA-5309038-0-0	CHASSIS ASSY PWR SUP				1														
14	9008401	HEX H BOLT 1/4-20 X 5.00 LG				1														
15	9007242	FUSE HOLDER HKP, BUSSMAN				3														
16	1210263	FINGER GUARD				1														
17	E-IA-5408990-0-0	MODULE BOARD				1														
18	E-IA-7007041-0-0	HARNESS NO 1 H721 P.S.				1														
19	9006024-1	SCR PHL H PAN 6-32 X 1/2				6														
20	9006560	NUT KEPS 6-32				9														
21	C-IA-7007117-0-0	HARNESS NO 2 H721 P.S.				1														
22	9006026-1	SCR PHL H PAN 6-32 X 3/4 LG				10														
TITLE H721 POWER SUPPLY				ASSY NO. D-UA-H721-0-0		SIZE CODE A PL		NUMBER H721-0-0				REV. F		ECO NO. H721 00009						
				SHEET 1 OF 4		DIST.														

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS <b>PARTS LIST</b>				QUANTITY / VARIATION																
MADE BY G. A. MARINI		CHECKED D. HEALY		SECTION																
DATE 1-26-71		DATE 2-24-71		1																
ENG <i>R. Peterson</i>		PROD <i>R.M. Antunovic</i>		ISSUED SECT.																
DATE 3/3/71		DATE 3/3/71		1																
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																		
23	1009967	CAPACITOR 50,000 MFD 25VDC				1														
24	1302888	RESISTOR 100 OMS 25W 5%				2														
25	9008426	WASHER SHOULDER 9/32ID 5/8OD, 9/32DP				1														
26	<del>9005876</del>	<del>WASHER FLAT 9/32 ID, 5/8 OD, SS</del>				<del>1</del>														
27	9107244	HEAT SHRINK TUBING #2 (WHT)				A/R														
28	9008203	NUT KEP 1/4-20				1														
29	B-MD-5309033-0-0	PLATE BUS				1														
30	1009966	CAPACITOR 19,000 MFD 40 VDC				1														
31	C-IA-5309031-0-0	BRKT, CAPACITOR				1														
32	1300306	RESISTOR 350 25W 5%				1														
33	1205033-01	BOXER FAN #WS2107FL INC				1														
34	D-AD-5409062-0-0	REGULATOR ASSY				1														
35	9008213	SPACER PHENOLIC 6-32 X 3/8 LG				2														
36	C-MD-5309032-0-0	PLATE TERMINAL				1														
37	B-IA-5309034-0-0	PLATE INSULATOR				2														
38	9006043-1	SCR PHL H PAN 8-32 X 1" LG SST				4														
39	9006563	NUT KEP'S 8-32 3/8 AF X 1/8THK				16														
40	1002781	CAPACITOR 100 MFD 25 VDC				2														
41	1001886	CAPACITOR 270 MFD 15 VDC				1														
42	9007516	"O" RING 9/32 OD, 5/32 ID, 1/16 THK				4														
43	9008250	CONNECTOR JONES STRIP #541-9				1														
44	9007112	STUD AMP #60145-1				9														
TITLE H721 POWER SUPPLY				ASSY NO. D-UA-H721-0-0		SIZE CODE A PL		NUMBER H721-0-0				REV. F		ECO NO.						
				SHEET 2 OF 4		DIST.														

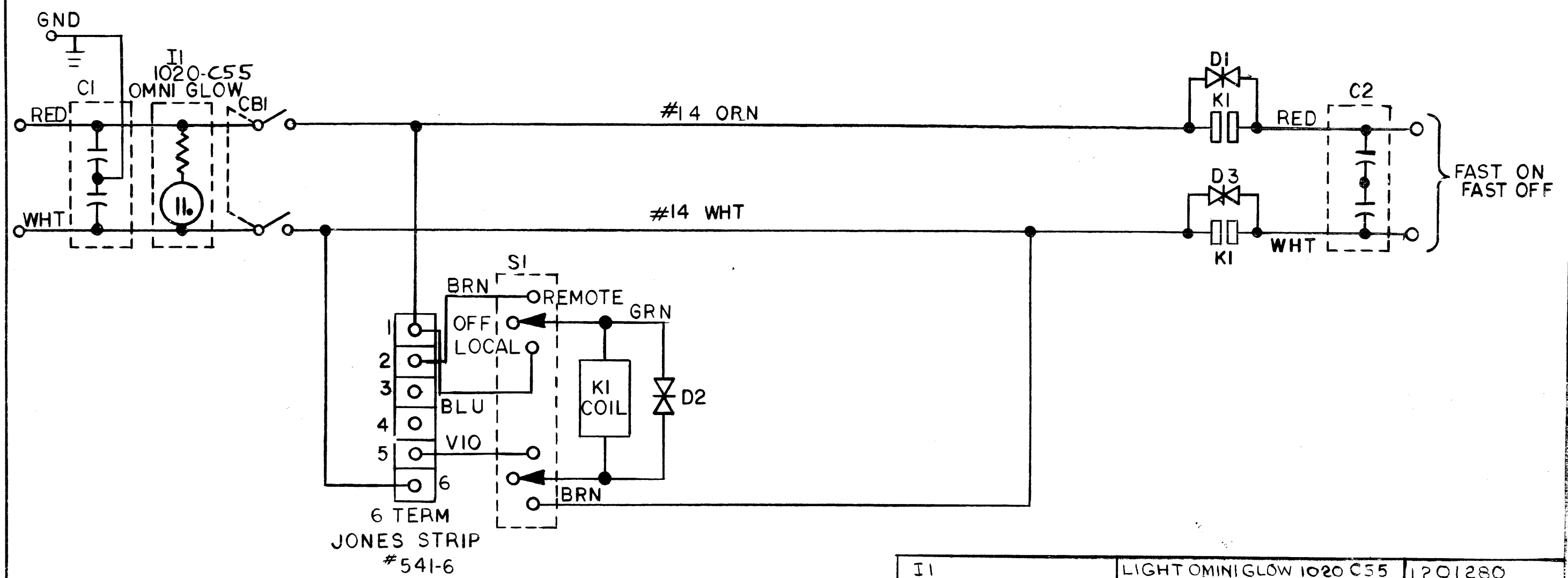




DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS <b>PARTS LIST</b>					QUANTITY/VARIATION										
MADE BY STAN POITRAS		CHECKED J. MADDEN		SECTION											
DATE 11/7/68		DATE 11/7/68		1											
ENG J. [Signature]		PROD L. PRENTICE		ISSUED SECT.											
DATE 11-12-68		DATE 11-17-68		1											
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION													
	B-CS-854-0-1	POWER CONTROL 854 (CS)													
1	D-MD-5308148-0-0	CHASSIS (854-854-B)				1									
2	C-MD-5308149-0-0	PLEXI-GLASS SHIELD				1									
3	1202356	SCR SHLD #10-32x9/32 LG				4									
4	9006881	SPACER 3/8 AF 3 #10-32 AL				4									
5	9006073-1	SCR PHIL H PAN #10-32x1/2 SST				4									
6	9107370-4	WIRE #14 AWG STRD TEF ORN				A/R									
7	9107370-10	WIRE #14 AWG STRD TEF WHT				A/R									
8	1201218-00	CIR BREAKER 190-220-104				1									
9	9006022-1	SCR PHIL H PAN #6-32x1/4 LG SST				4									
10	1100106	DIODE G.E. THYRECTOR 6RS20SP4B4 115V				3									
11	1205768	RELAY EBERT EM-4				1									
12	9006904	TERM STRIP #6-541				1									
13	9006026-1	SCR PHIL H PAN #6-32x3/4 LG SST				4									
14	9006560	KEPS HEX NUT #6-32 SST				8									
15	1209011	SWITCH C.H. 7563K6				1									
16	9008110	FASTON TAB 41287 AMP				1									
17	9007596	CONN #3000-M446 ARKLES				4									
18	1000034	CAP BATH TUB 2x.1 MFD 1 KUDC				2									
19	9107370-3	WIRE #14 AWG STRD TEF RED				A/R									
20	9007919	CONN #50906 ARKLES				22									
21	9007112	LUG AMP #60145-1				2									
TITLE		ASSY NO.		SIZE CODE		NUMBER		REV.		ECO NO.					
POWER CONTROL 854		D-UA-854-0-0		A PL		854-0-0		C		394-00065					
		SHEET 1 OF 2		DIST. G		324 434 435 436 438 359									

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS <b>PARTS LIST</b>					QUANTITY/VARIATION										
MADE BY STAN POITRAS		CHECKED J. MADDEN		SECTION											
DATE 11/7/68		DATE 11/7/68		1											
ENG J. [Signature]		PROD		ISSUED SECT.											
DATE 11-12-68		DATE		1											
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION													
22	9006563	KEPS HEX NUT #8-32 SST				2									
23	9006039-1	SCR PHIL H PAN #8-32 x 1/2 LG SST				2									
24	9007634	SOLDERLESS CONN #36242 AMP				2									
25	1201280	OMNIGLOW (RED LENS) 1020 C55 120V				1									
26	B-DC-5308425-0-0	DECALS 854 PWR CONT				1									
27	9006635	WASH INT TOOTH LOCK #10				4									
28	9006633	WASH INT TOOTH LOCK #6				4									
29	9007253	LUG, AMP 45 #60465-2				4									
30	9006781	TERM, AMP #34142				6									
31	9107278-3	TUBING #18 RED				A/R									
32	9107370-2	WIRE #14 AWG STRD TEF BRN				A/R									
33	9107370-6	WIRE #14 AWG STRD TEF GRN				A/R									
34	9107370-8	WIRE #14 AWG STRD TEF VIO				A/R									
35	9107370-7	WIRE #14 AWG STRD TEF BLU				A/R									
36	9006022-1	SCR PH HD PAN #6-32x3/8 LG SST				4									
37	A-PI-3700128-0-0	PACKAGING INSTRUCTIONS				1									
TITLE		ASSY NO.		SIZE CODE		NUMBER		REV.		ECO NO.					
POWER CONTROL 854		D-UA-854-0-0		A PL		854-0-0		C		394-00065					
		SHEET 2 OF 2		DIST. G		324 434 435 436 438 359									

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I1	LIGHT OMNI GLOW 1020 C55	1201280
D1, D2, D3	DIODE THY 6RS20SP4B4	1100106
CBI	CIR BREAKER*190-220-104	1201218
KI	RELAY EM-4, 115V	1205768
SI	TOGGLE SW CH 7563K6	1205964
C1 & C2	CAP. 2X .1MFD 1KVDC	1000034
	PARTS LIST	A-PL-854-0-0
REF DESIGNATION	DESCRIPTION	PART NO

REVISIONS	CHK	CHG NO.	REV.
		00002	A
		1438	

DRN. P. LeBlanc	DATE 10-21-68
CHKD. J. Madden	DATE 11/7/68
ENG. GW GERELDS	DATE 11/15/68
PROD. GW GERELDS	DATE 11/15/68

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

**digital**  
EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

TITLE		POWER CONTROL	
		854	
SIZE	CODE	NUMBER	REV.
B	CS	854-0-1	A
PRINTED CIRCUIT REV.			

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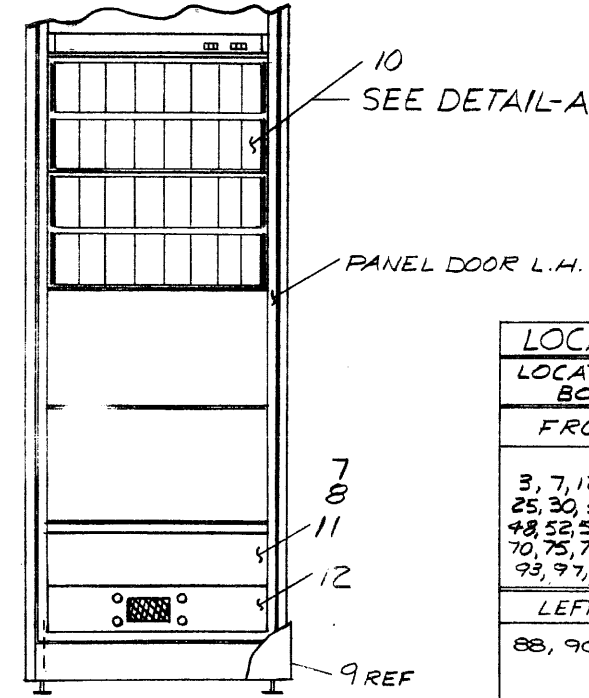
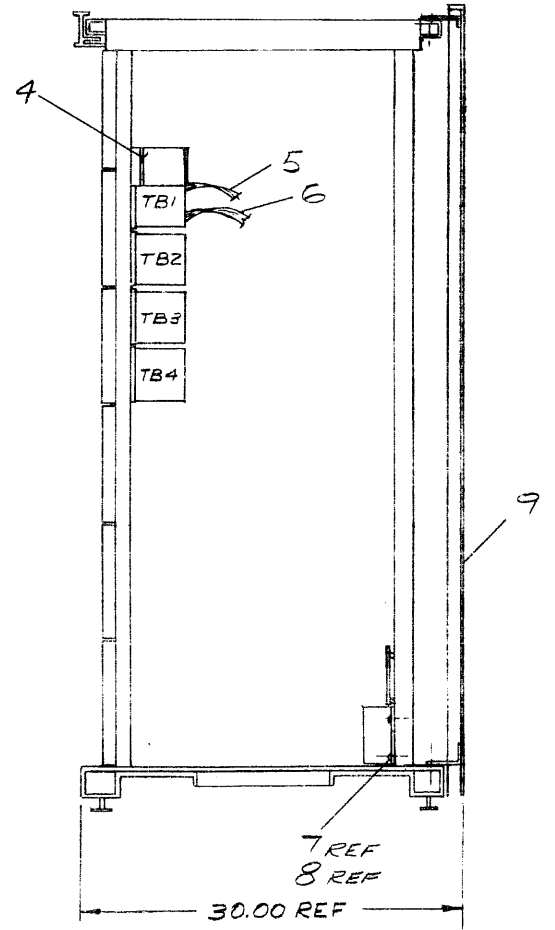
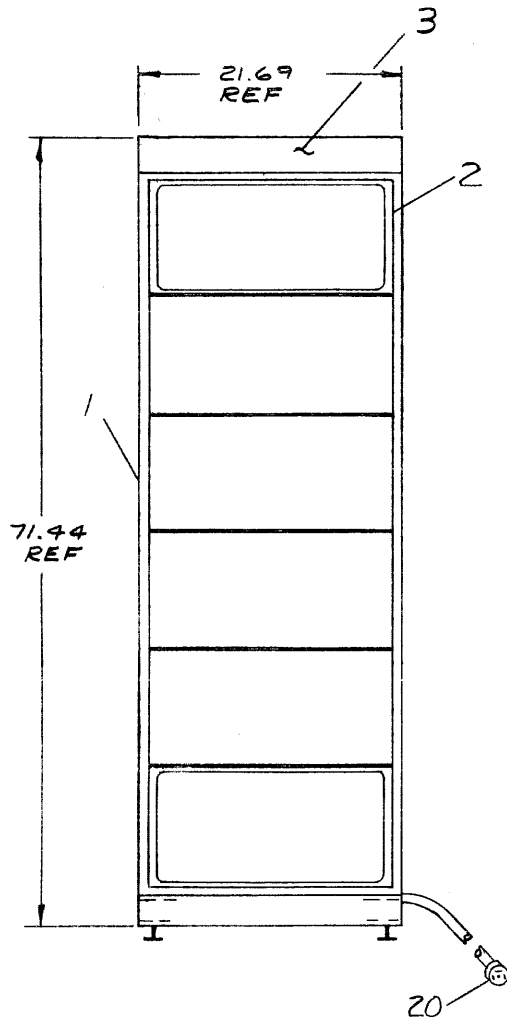
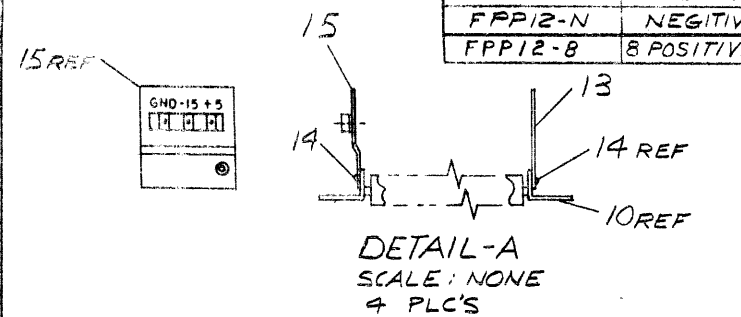
LEGEND	
NUMBER	VARIATION
FPP12-P	12 POSITIVE
FPP12-N	NEGATIVE
FPP12-B	8 POSITIVE

WIRE TABLE							
ITEM NO	DESCRIPTION	FROM		TO			
		CONNECTION	WITH	CONNECTION	WITH		
17	24 RED	+5	SOLD	A11-A2			
17	RED	+5		A21-A2			
16	BLK	GND		A11-C2			
16	BLK	GND		A21-C2			
17	RED	+5		B11-A2			
17	RED	+5		B21-A2			
16	BLK	GND		B11-C2			
16	BLK	GND		B21-C2			
17	RED	+5		C11-A2			
17	RED	+5		C21-A2			
16	BLK	GND		C11-C2			
16	BLK	GND		C21-C2			
17	RED	+5		D11-A2			
17	24 RED	+5	SOLD	D21-A2			

WIRE TABLE							
ITEM NO	DESCRIPTION	FROM		TO			
		CONNECTION	WITH	CONNECTION	WITH		
16	24 BLK	GND	SOLD	D11-C2			
16	BLK	GND		D21-C2			
17	RED	+5		E11-A2			
17	RED	+5		E21-A2			
16	BLK	GND		E11-C2			
16	BLK	GND		E21-C2			
18	BLU	-15		E03-B2			
17	RED	+5		F11-A2			
17	RED	+5		F21-A2			
16	BLK	GND		F11-C2			
16	BLK	GND		F21-C2			
17	RED	+5		H11-A2			
17	RED	+5		H21-A2			
16	BLK	GND		H11-C2			
16	BLK	GND		H21-C2			
17	RED	+5		J11-A2			
17	RED	+5		J21-A2			
16	BLK	GND		J11-C2			
16	24 BLK	GND	SOLD	J21-C2			

NOTES:

- FOR DRAWING INDEX LIST REFER TO D-DI-FPP12-0-01
- FOR ASSEMBLY INSTRUCTIONS REFER TO D-OC-H950-0-0
- INSTALL GROUND STRAP (ITEM #23 NOT SHOWN) AS CLOSE TO BOTTOM OF CAB AS POSSIBLE. BEFORE INSTALLING GROUND STRAP REMOVE PAINT AND CLEAN AREA TO INSURE GOOD GROUND. INSTALL WITH EXISTING HARDWARE.
- ~~FOR NEG BUS ONLY~~



FRONT HOLE NUMBERS		REAR HOLE NUMBERS	
3, 7, 12, 16, 21, 25, 30, 34, 39, 43, 48, 52, 57, 61, 66, 70, 75, 79, 84, 88, 93, 97, 102, 106	BOTH SIDES	3, 10	BOTH SIDES
LEFT SIDE HOLE NUMBERS		RIGHT SIDE HOLE NUMBERS	
88, 90 FRONT ONLY		88, 90 FRONT ONLY	

MOUNTING PANEL DOOR HOLE LOCATIONS			
LEFT SIDE		RIGHT SIDE	
15, 22		15, 22	
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
PDPI2			
UNLESS OTHERWISE SPECIFIED			
DIMENSION IN INCHES			
TOLERANCES			
ANGLES = 0°/90°			
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL	FINISH	NEXT HIGHER ASSY	
---	---	A-ML-FPP12-0	
SCALE NONE		SIZE CODE	NUMBER
SHEET 1 OF 2		DJA	FPP12-0-0
		DIST	

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	5-9-71	...	...
2	...	...	...
3	...	...	...

digital EQUIPMENT CORPORATION  
 WATFORD, MASSACHUSETTS  
 TITLE: FLOATING POINT PROCESSOR

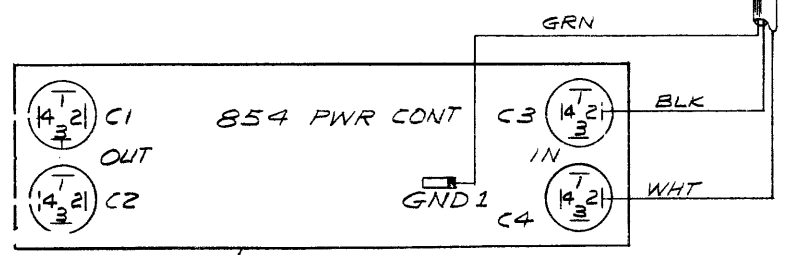
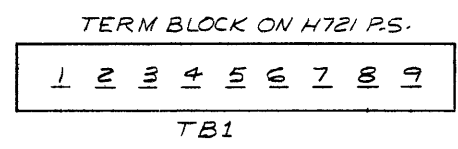
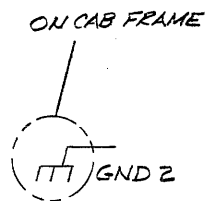
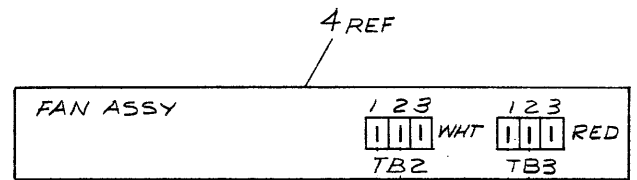
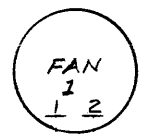
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ITEM NO	DESCRIPTION	FROM		TO	
		CONNECTION	WITH	CONNECTION	WITH
24	14 RED	FAN1-1	SPLC	TB3-1	19
	TWP WHT	FAN1-2	SPLC	TB2-1	19
24	14 RED	TB3-2	19	C1-3	19
	TWP WHT	TB2-2	19	C2-3	19
24	14 RED	TB1-8	19	C1-4	19
	TWP WHT	TB1-9	19	C2-4	19
25	14 BLK	TB1-1	19	GND2	32
20	PWR GRN	PI-1		GND1	29
	CORD WHT	PI-2		C4-2	29
	3 COND BLK	PI-3		C3-2	29

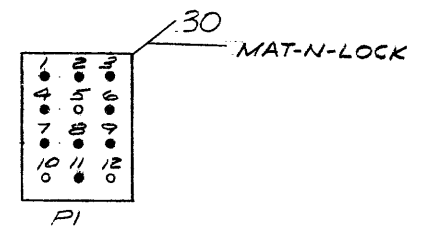
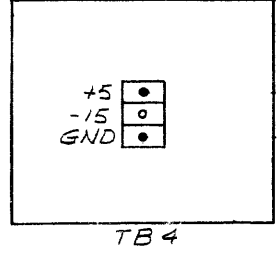
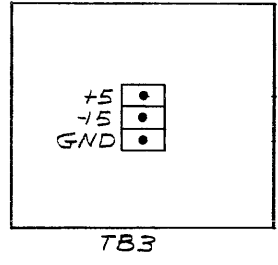
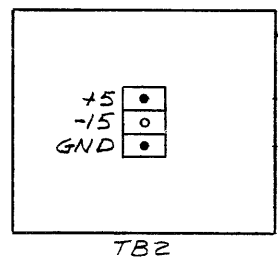
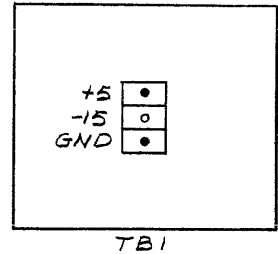
ITEM NO	DESCRIPTION	FROM		TO	
		CONNECTION	WITH	CONNECTION	WITH
25	14 BLK	PI-1	31	TB2-GND	28
25	14 BLK	PI-2	31	TB3-GND	28
25	14 BLK	PI-3	31	TB4-GND	28
25	14 BLK	PI-4	31	TB1-GND	28
26	14 RED	PI-6	31	TB4-+5	28
26	14 RED	PI-7	31	TB3-+5	28
26	14 RED	PI-8	31	TB2-+5	28
26	14 RED	PI-9	31	TB1-+5	28
27	14 BLU	PI-11	31	TB3--15	28

ITEM NO	DESCRIPTION	FROM		TO	
		CONNECTION	WITH	CONNECTION	WITH
25	14 BLK	TB1-GND	28	TB2-GND	33
25	14 BLK	TB2-GND	28	TB3-GND	33
25	14 BLK	TB3-GND	28	TB4-GND	28
26	14 RED	TB1-+5	28	TB2-+5	33
26	14 RED	TB2-+5	28	TB3-+5	33
26	14 RED	TB3-+5	28	TB4-+5	28

AC POWER WIRING  
SEE TABLE #1.



DC POWER WIRING  
SEE TABLE #2



REV	
CHANGE NO	
CHK	

FIRST USED ON OPTION/MODEL FPP12	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED	DRN <i>M. Marin</i>	DATE <i>12/19/70</i>	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHK'D <i>R. Cook</i>	DATE <i>12-17-70</i>	digital EQUIPMENT CORPORATION MAYFIELD MASSACHUSETTS	
TOLERANCES	ENG <i>R. Cook</i>	DATE <i>12-18-70</i>	TITLE	
DECIMALS ± .005	PROJ. ENG. <i>R. Cook</i>	DATE <i>12-18-70</i>	FLOATING POINT PROCESSOR	
FRACTIONS = 1/64	PROD. <i>R. Cook</i>	DATE <i>12/18/70</i>	SIZE CODE NUMBER REV.	
ANGLES = 0°30'			A-ML-FPP12-0 B	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS			SCALE NONE	
MATERIAL	NEXT HIGHER ASSY		SHEET 2 OF 2	
FINISH	A-ML-FPP12-0		DIST	

REV. B  
NUMBER  
DUA FPP12-0-0  
SIZE CODE



DIGITAL EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

PARTS LIST

QUANTITY/VARIATION

MADE BY G. Marini  
DATE 12-8-70  
ENG S. Seiler  
DATE 12/18/70

CHECKED R. Cook  
DATE 12-17-70  
PROD R. Peterson  
DATE 12/18/70

SECTION  
ISSUED SECT.

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY/VARIATION		
			FPP12-P	FPP12-N	FPP12-B
1	C-PI-7006501-2-0	BASIC CABINET ASSY "19"	1	1	1
2	D-UA-H950-CA-0	H950-C COVER PANEL	6	6	6
3	D-IA 7403149-4-0	PANEL LOGO	1	1	1
4	D-AD-7005993-0-0	PANEL HOUSING ASSY	1	1	1
5	D-UA-BC08B-0-0	CABLE FLAT CO-AX M904-M904	5	-	5
6	D-UA-BC08D-0-0	CABLE FLAT CO-AX M904-(2)W011	-	5	-
7	9007786	SPEED NUT TINERMAN 10-32	12	12	12
8	9006074-1	SCR PHL HD PAN #10-32 x 5/8SST	18	12	18
9	D-UA-H950-CA-0	H950-C FULL LENGTH DOOR	1	1	1
10	D-AD-7007220-0-0	WIRED ASSY (FPP12)	1	1	1
11	D-UA-854-0-0	POWER CONTROL 854	1	1	1
12	A-PS-H721-0-0	H721 POWER SUPPLY (1209603)	1	1	1
13	C-ME-5302486-0-0	PANEL, RIGHT END	4	4	4
14	9006509	POP RIVETS #AD43ABS USMC	32	32	32
15	C-TR-5404490-0-0	LEFT END PANEL ASSY H911	4	4	4
16	9107470-00	WIRE #24 AWG SOLID BLK	A/R	A/R	A/R
17	9107470-22	WIRE #24 AWG SOLID RED	A/R	A/R	A/R
18	9107470-66	WIRE #24 AWG SOLID BLU	A/R	A/R	A/R
19	9007919	CONN, CRIMP ARKLES #5906	11	11	11
20	7005128-25	POWER CORD 25 FT.	1	1	1
21	9007867	CABLE TIE MOUNT	A/R	A/R	A/R
22	9007032	TIE WRAP PAN DYE	A/R	A/R	A/R

TITLE: FLOATING POINT PROCESSOR  
ASSY NO.: D-UA-FPP12-0-0  
SIZE CODE: A PL  
NUMBER: FPP12-0-0  
SHEET 1 OF 2  
DIST. G  
REV. ECO NO. B 55008

DIGITAL EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

PARTS LIST

QUANTITY/VARIATION

MADE BY Marini  
DATE 12-8-70  
ENG S. Seiler  
DATE 12/18/70

CHECKED R. Cook  
DATE 12-17-70  
PROD R. Peterson  
DATE 12/18/70

SECTION  
ISSUED SECT.

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY/VARIATION		
			FPP12-P	FPP12-N	FPP12-B
23	9008887	GROUND STRAP	1	1	1
24	9107440-29	WIRE #14 AWG TEF INS TWP RED/WHT	A/R	A/R	A/R
25	9107440-00	WIRE #14 AWG TEF INS BLK	A/R	A/R	A/R
26	9107370-22	WIRE #14 AWG TEF INS RED	A/R	A/R	A/R
27	9107370-66	WIRE #14 AWG TEF INS BLU	A/R	A/R	A/R
28	9007917	CONN CRIMP ARKLESS #50902	17	17	17
29	9007920	CONN CRIMP ARKLESS #50900-7	3	3	3
30	1209351-12	MAT-N-LOCK 12 CONDUCTOR	1	1	1
31	1209378	TERM PIN CONTACT MALE	9	9	9
32	9007928	CONN ARKLESS 503634	1	1	1
33	9007925	PIGGY BACK FASTONS #300H21A ARKLESS	4	4	4

TITLE: FLOATING POINT PROCESSOR  
ASSY NO.: D-UA-FPP12-0-0  
SIZE CODE: A PL  
NUMBER: FPP12-0-0  
SHEET 2 OF 2  
DIST. G  
REV. ECO NO. B

