

DEC-11-HR3B-D

MM11-E
core memory
engineering drawings

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS

MM11-E Core Memory

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D-BS-MM11-E-03	2	Core Memory Stack (X drive)
D-BS-MM11-E-04	4	Core Memory Sense & Inhibit
D-BS-MM11-E-05	2	Control & Timing
D-MU-MM11-E-06	1	Module Utilization
K-WL-MM11-E-07 (complete)	—	Wire List
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D-IC-MM11-E-09	1	I/O Connectors
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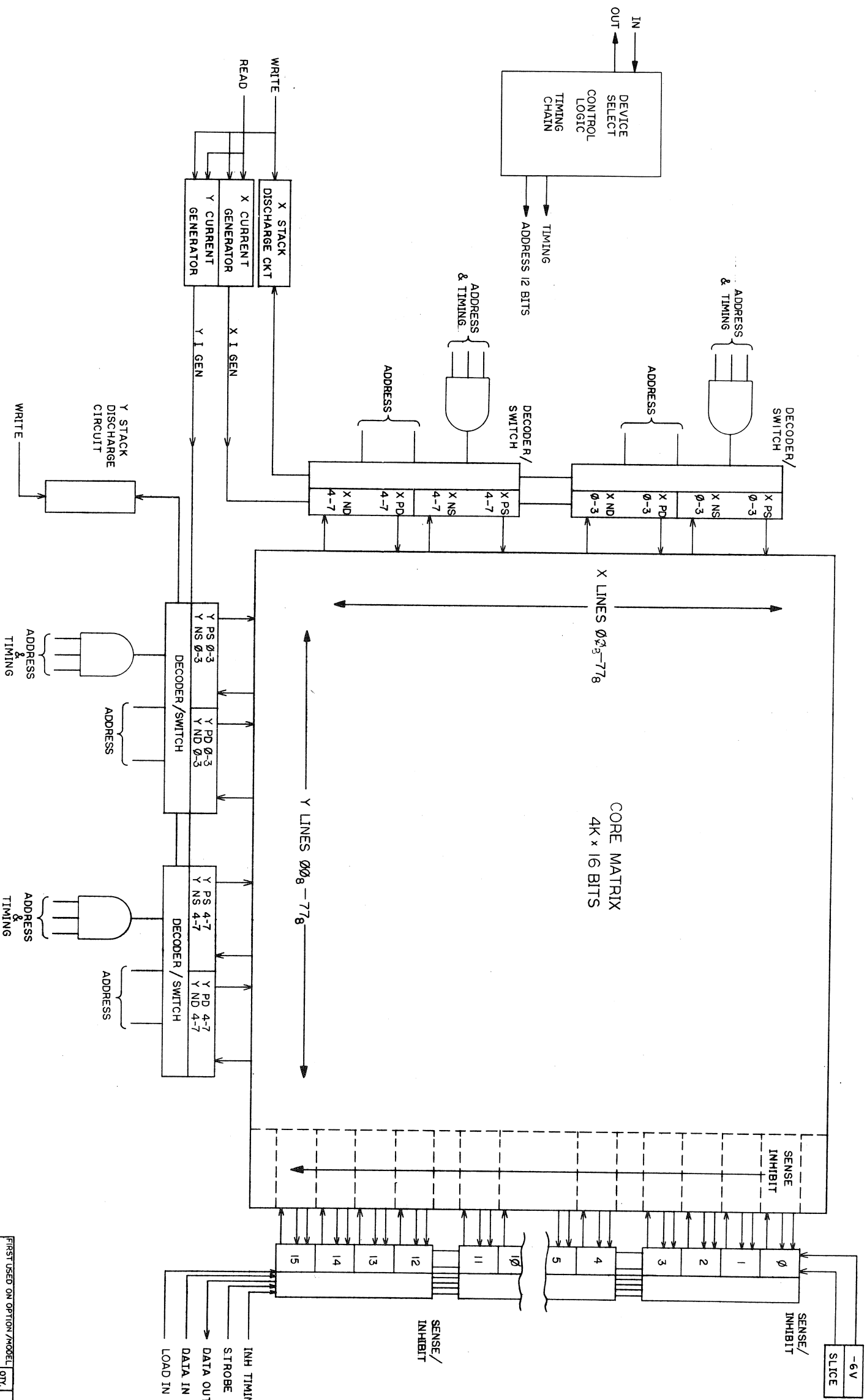
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REVISIONS		
REV.	CHANGE NO.	
CHK		

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION		PART NO.	ITEM NO.		
PDP11								
UNLESS OTHERWISE SPECIFIED								
DIMENSION IN INCHES								
TOLERANCES								
DECIMALS FRACTIONS ANGLES								
± .010 ± .005 ± .002								
REMOVE BURRS AND BREAK SHARP CORNERS								
MATERIAL								
A-MIL-MMI-E								
NEXT HIGHER ASSY								
FINISH								
SCALE 1 OF 1								
SHEET								
SIZE CODE								
DIBS MM11-E-02								
NUMBER								
MM11-E-02								
REV.								

PARTS LIST		TITLE	
MAGNETICS		LOGIC DIAGRAM	
DIGITAL EQUIPMENT CORPORATION			
MASSACHUSETTS			

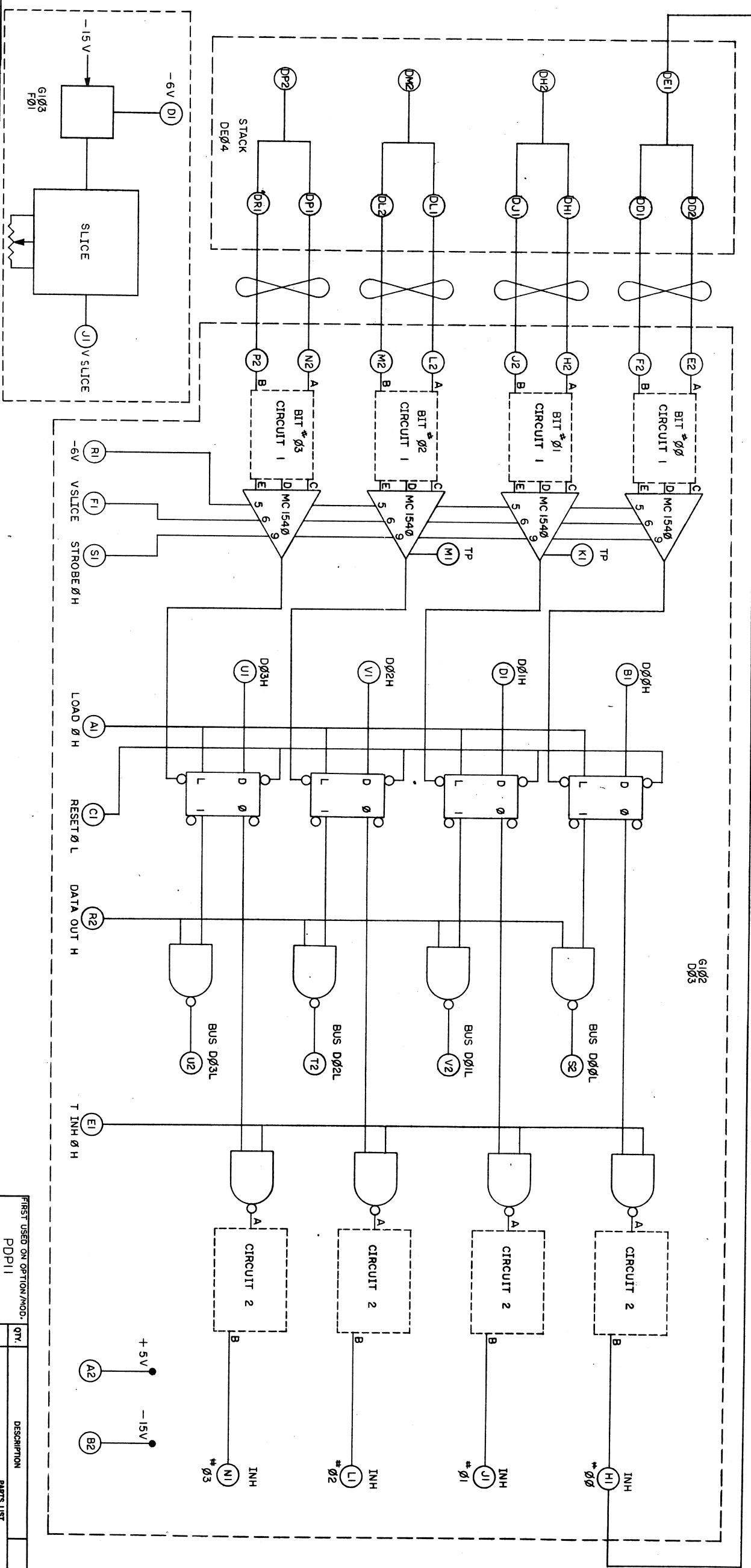
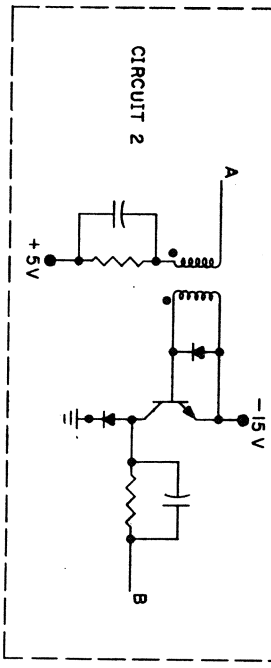
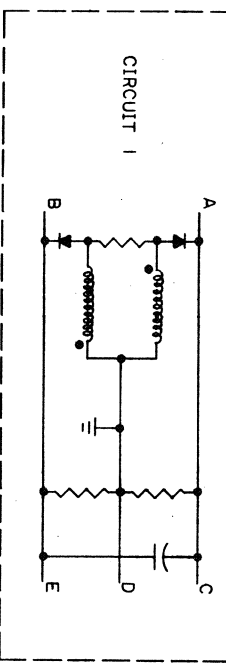


FIRST USED ON OPTION/MODEL		PART NO.		PARTS LIST		EQUIPMENT	
PPD11						CORPORATION	
UNLESS OTHERWISE SPECIFIED		DATE		TITLE		DRAWING, REVISIONS	
UNLESS OTHERWISE SPECIFIED		DATE		DATE			
DIMENSIONS IN INCHES		DATE		DATE			
TOLERANCES		DATE		DATE			
DECIMALS		DATE		DATE			
± .008		DATE		DATE			
± 1/64		DATE		DATE			
± .075		DATE		DATE			
FINAL SURFACE QUALITY		DATE		DATE			
REMOVE SURFACES WHICH SHAPE		DATE		DATE			
CONFORMS		DATE		DATE			
MATERIAL		DATE		DATE			
+ + +		DATE		DATE			
FINISH		DATE		DATE			
+ + +		DATE		DATE			
QTY.		DESCRIPTION		PART NO.		REV.	
DRAWN BY		DATE		DATE		DATE	
CHECKED BY		DATE		DATE		DATE	
ENG. DDD:11-1		DATE		DATE		DATE	
PROJ. ENG.		DATE		DATE		DATE	
DRAWN BY		DATE		DATE		DATE	
CHECKED BY		DATE		DATE		DATE	
ENG. DDD:11-1		DATE		DATE		DATE	
PROJ. ENG.		DATE		DATE		DATE	
DRAWN BY		DATE		DATE		DATE	
CHECKED BY		DATE		DATE		DATE	
ENG. DDD:11-1		DATE		DATE		DATE	
PROJ. ENG.		DATE		DATE		DATE	
DRAWN BY		DATE		DATE		DATE	
CHECKED BY		DATE		DATE		DATE	
ENG. DDD:11-1		DATE		DATE		DATE	
PROJ. ENG.		DATE		DATE		DATE	
DRAWN BY		DATE		DATE		DATE	
CHECKED BY		DATE		DATE		DATE	
ENG. DDD:11-1		DATE		DATE		DATE	



MEMORY STACK
(Y DRIVE)

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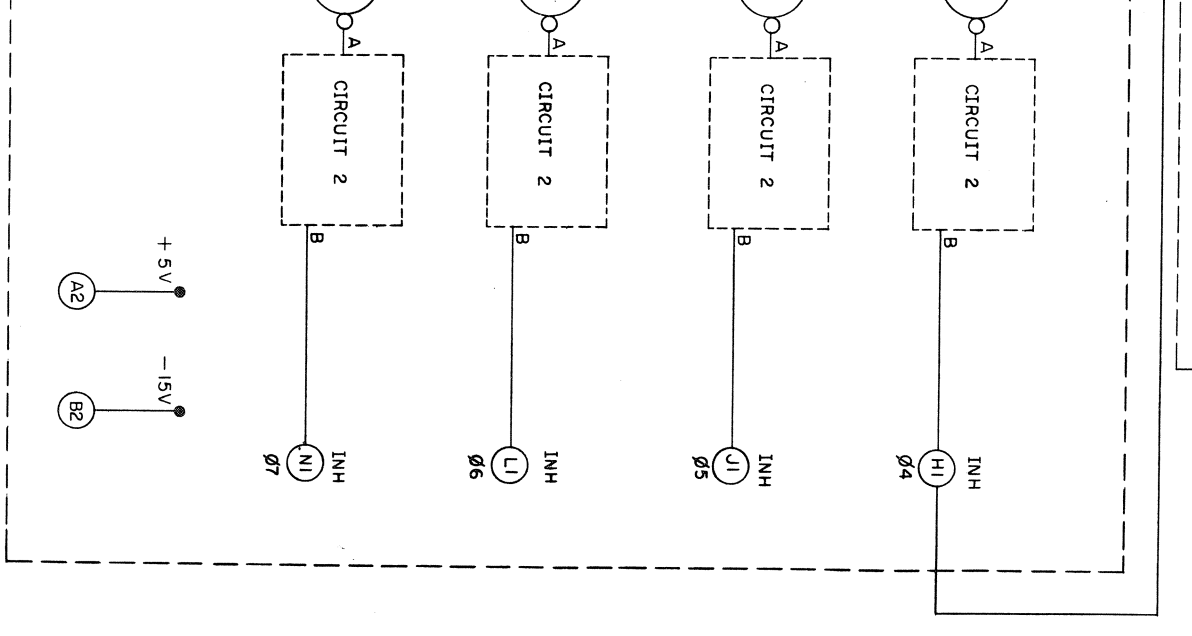
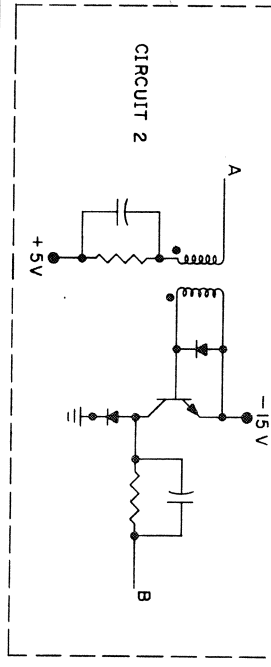
REVISIONS		
CHK	CHANGE NO.	REV.
MM11E-00004	A	
T. Quillen 1-26-70		
DURANT		
P. Durant 1/27/70		
MM11E-00014	B	
T. Quillen 8-10-70		
DURANT		
P. Durant 8-19-70		

FIRST USED ON OPTION/MOD.		DESCRIPTION		PART NO.		ITEM NO.	
PDP11							
UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
DIMENSIONS IN INCHES		DIMENSIONS IN INCHES		DIMENSIONS IN INCHES		DIMENSIONS IN INCHES	
TOLERANCES		TOLERANCES		TOLERANCES		TOLERANCES	
DECIMALS FRACTIONS ANGLES		DECIMALS FRACTIONS ANGLES		DECIMALS FRACTIONS ANGLES		DECIMALS FRACTIONS ANGLES	
±.005 ±.010 ±.020		±.005 ±.010 ±.020		±.005 ±.010 ±.020		±.005 ±.010 ±.020	
REMOVE BURRS AND BREAK SHARP CORNERS		REMOVE BURRS AND BREAK SHARP CORNERS		REMOVE BURRS AND BREAK SHARP CORNERS		REMOVE BURRS AND BREAK SHARP CORNERS	
MATERIAL		MATERIAL		MATERIAL		MATERIAL	
NEXT HIGHER ASSY		NEXT HIGHER ASSY		NEXT HIGHER ASSY		NEXT HIGHER ASSY	
A-ML-MM11-E		A-ML-MM11-E		A-ML-MM11-E		A-ML-MM11-E	
FINISH		FINISH		FINISH		FINISH	
SCALE		SCALE		SCALE		SCALE	
SHEET		SHEET		SHEET		SHEET	
OF 4		OF 4		OF 4		OF 4	
SIZE CODE		SIZE CODE		SIZE CODE		SIZE CODE	
DIBS		DIBS		DIBS		DIBS	
NUMBER		NUMBER		NUMBER		NUMBER	
MM11-E-04		MM11-E-04		MM11-E-04		MM11-E-04	
REV.		REV.		REV.		REV.	
B		B		B		B	

CORE MEMORY
SENSE & INHIBIT

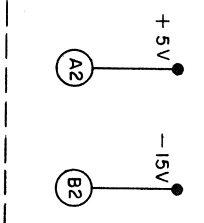
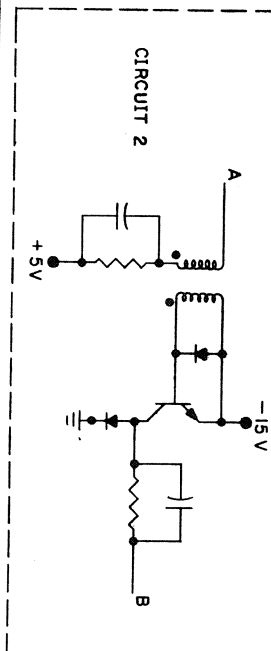
MM11-E-04

7	SIZE	C-DE	NUMBER	REV.
6		PC	MM11-F-04	D

[illegible]

CORE MEMORY
SENSE & INHIBIT

SIZE	CODE	NUMBER	REV.
D	BS	MMII-E-Ø4	B

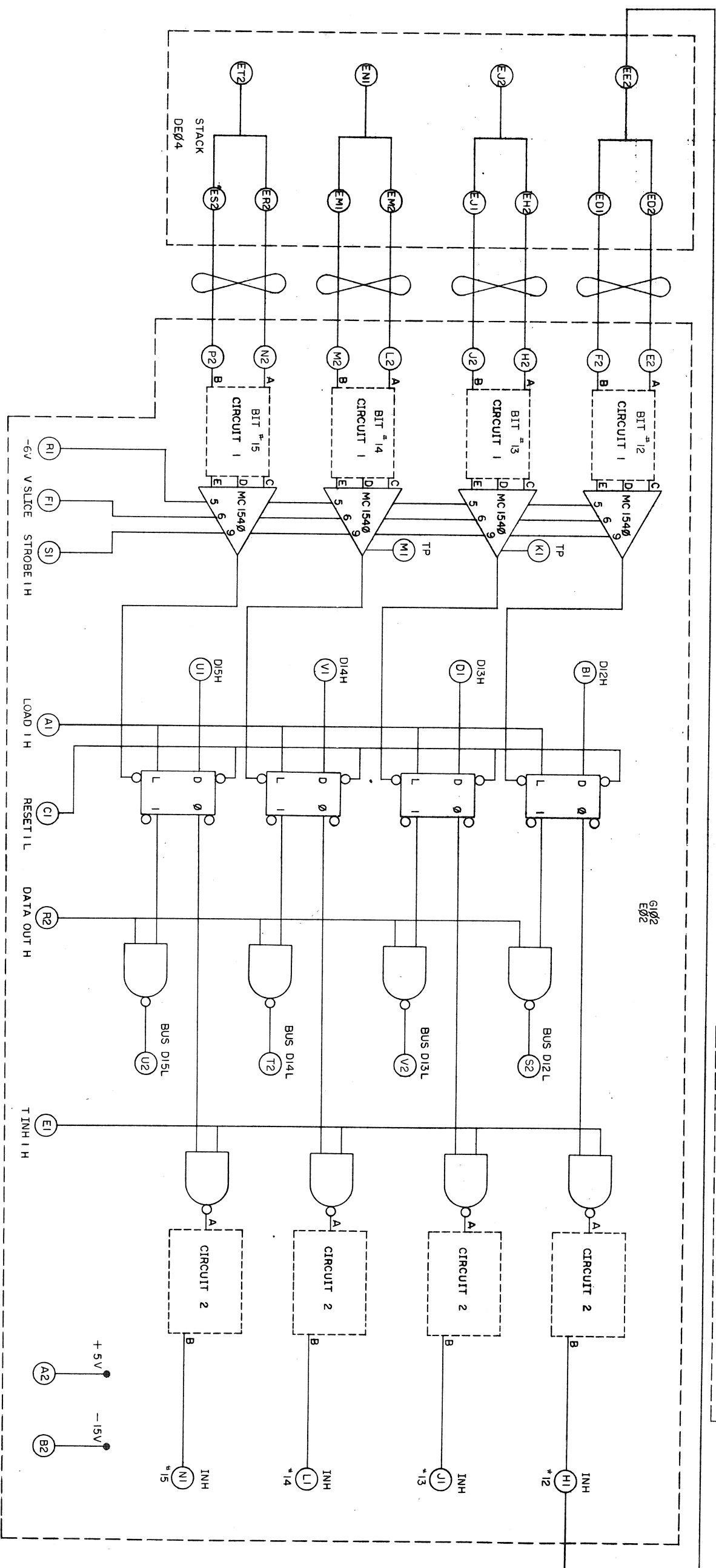
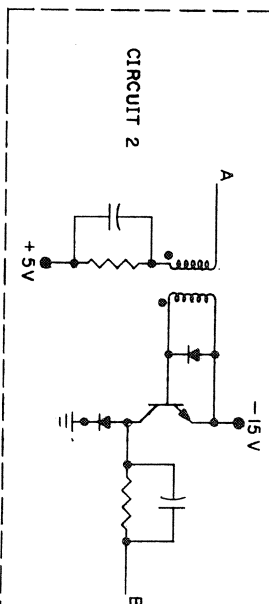
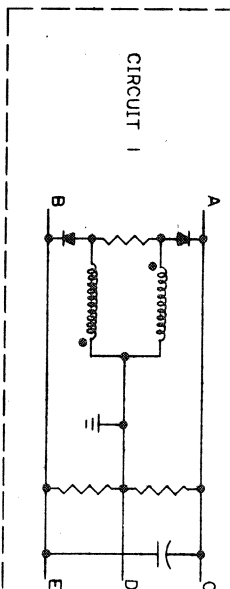


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GPO 1974

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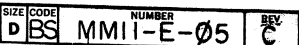
SPRINT 3 OF 4 DIST.

2	SIZE CODE	NUMBER	REV.
D BS	MM11-E-Ø4	B	

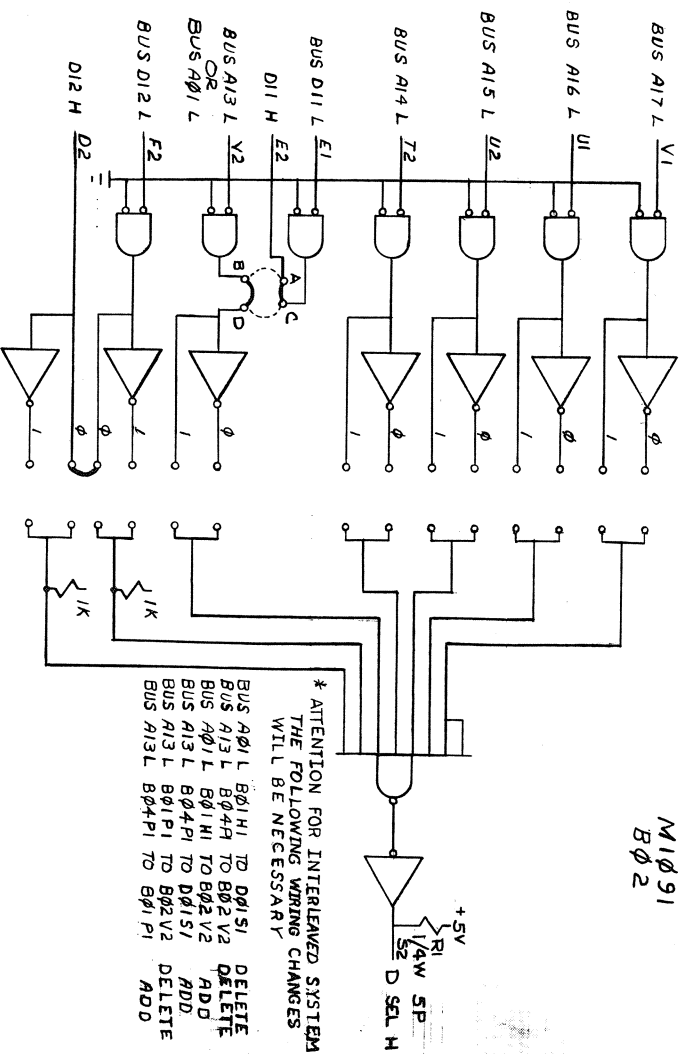


FIRST USED ON OPT'N/MOD.		PART NO.		TYP. NO.	
QTY.		DESCRIPTION			
PPDPI					
UNLESS OTHERWISE SPECIFIED		PARTS LIST		EQUIPMENT	
DIMENSION IN INCHES		TITLE		CORPORATION	
TOLERANCES		digital		RAYMOND MASCHEUETTE	
DECIMALS FRACTIONS ANGLES					
± .003 ± .001 ± 1/64 ± .030					
REMOVE BURRS AND BREAK SHARP EDGES					
MATERIAL		DATE		DATE	
+ +		ENG. P. 11/11/67		DATE 11/30/67	
FINISH		PROD. ENG.		DATE	
+ +		DATE 11/30/67		DATE 11/30/67	
SCALE 1		NEXT HIGHER ASSY		SIZE CODE	
SHEET 4 OF 4				D B S	
				NUMBER	
				M M I I E - Ø 4	
				REV.	
				B	

REVISIONS		
CHK	CHANGE NO.	REV.



FIRST USED ON OPTION / MODEL		PARTS LIST	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± 1/64 = .030 FIN SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		DATE 8-21-67 CHKD BY <i>[Signature]</i> DATE 8-21-67 ENG. <i>[Signature]</i> DATE 8-21-67 PROJ. ENG. <i>[Signature]</i> DATE 8-21-67 DESIGNED BY <i>[Signature]</i> DATE 8-21-67 NEXT HIGHER ASSY A-ML-MM11-E	
MATERIAL / / / FINISH / /		SCALE NONE SHEET 2 OF 2	SIZE CODE DBS NUMBER MM11-E-05 REV. C
TITLE CONTROL AND TIMING		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	



* ATTENTION FOR INTERLEAVED SYSTEM
THE FOLLOWING WRITING CHANGES
WILL BE NECESSARY

1

SIZE	CODE	NUMBER	REV.
D	BS	MMII-E-05	C

FIRST USED ON OPTION/ MODEL		DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED		PDP11	
DIGITAL EQUIPMENT CORPORATION MAYNARD MASS 01468		TITLE		MODULE UTILIZATION		MATERIAL	
PARTS LIST		MODULE UTILIZATION		MATERIAL		FINISH	
QTY.	DESCRIPTION	PART NO.	REV.	NEXT HIGHER ASST		SHEET	
				A-MIL-MM1-E		SCALE	
				PRO. MA. > DONALD D. DATE 10-2-67		SHEET 1 OF 1	
				ENG. DURANT DATE 10-31-67		DIST.	
				CHKD. PEVEER DATE 10-31-67			
				DON. RAYMOND DATE 12-21-67			

SIZE	CODE	REV.
D	MMINE-6	D

		1	2	3	4					
		M920		G772		M920		☐	☐	
USAGE		CABLE	2	2	PWR CABLE	2	CABLE	2	2	
A	INIT	+5V			+5V	INIT	+5V			
	INTR	D01			-15V	INTR	D01			
	D00	D03			LTC	D00	D03			
	D02	D05			ALCO	D02	D05			
	D04	D07			DCLO	D04	D07			
	D06	D09			+8V	D06	D09			
	D08	D11				D08	D11			
	D10	D13				D10	D13			
	D12	D15				D12	D15			
	D14	PB				D14	PB			
	PA	B BSY				PA	B BSY			
	NPG	SACK				NPG	SACK			
	BG7	NPR				BG7	NPR			
	BG6	BR7				BG6	BR7			
	BG5	BR6				BG5	BR6			
	BR5	+5V				BR5	+5V			
B	SP2	BR4				SP2	BR4			
	A01	BG4				A01	BG4			
	A03	SP1				A03	SP1			
	A05	A00				A05	A00			
	A07	A02				A07	A02			
	A09	A04				A09	A04			
	A11	A06				A11	A06			
	A13	A08				A13	A08			
	A15	A10				A15	A10			
	A17	A12				A17	A12			
	SSYN	A14				SSYN	A14			
	MSYN	A16				MSYN	A16			
		C1					C1			
		C0					C0			
		M729		G226		G226		H207		
	USAGE		2	2	2	2	2	2	2	2
C	STROBE 1	R SSY								
	STROBE 2	RESET 1								
	TSTR	END								
	DATOUT	WRITE								
	READ	TSS								
	LOAD 1									
	LOAD 0									
	S SYN									
	TOR									
	USAGE	D15	A01							
D										
	USAGE	G225	G102	G102	G102	G102	G102	G102	G102	G102
E										
	USAGE	G103	G226	G226	G226	G226	G226	G226	G226	G226
F										