

Revisions			217230	B	
LAL	Rev	Description	Chk	Date	Approved
	A	ENGRG RELEASE	BN	11-8-78	
	B	ADDED NOTE 2: CUT ETCH TO J12 FINGERS (COMP. SIDE)	BN	2/28/79	
X	C	REVISED NOTE 2. ADD ITEM 2,10,11 TO M/L.	BN	4/24/79	

**ENGINEERING
RELEASE**

NTMB1-PWASSY.SIL (PNTMB-PWASSY.DM)

Dist Code **SPG**

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	1. Tolerances .xx \pm .03 Angular .xxx \pm .010 $\pm 1/2^\circ$	Check BN 2/28/79	ASSEMBLY, PRINTED WIRING- MOTHERBOARD (NOTETAKER)		
	2. Break All Sharp Edges .010 Approx —	Appr.			
	3. Mach. Surfaces <input checked="" type="checkbox"/>	Material			
4. All Dim. In Inches					
Model No. First Use NOTETAKER	Finish	Code Ident 18338	Size A	Dwg. No. 217230	Change Letter , C
Next Assy. First Use 217684		Scale NONE	Do Not Scale Drawing	Shoot	1 OF 4

NOTES: UNLESS OTHERWISE SPECIFIED

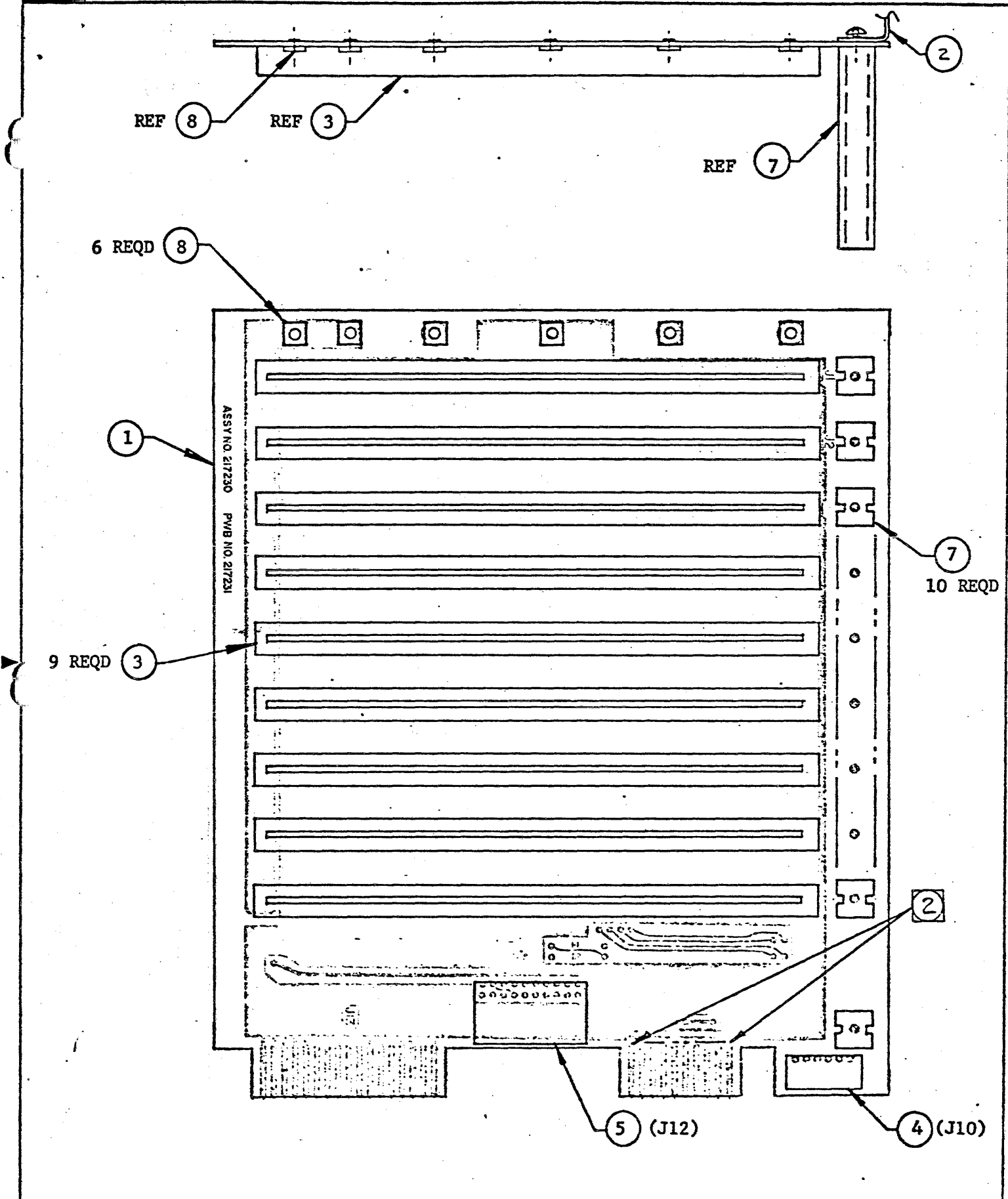
1. ASSEMBLE PER MODULE ASSEMBLY SPEC, DWG NO. 216207.
2. THE FOLLOWING MODIFICATIONS ARE REQUIRED USING "A" REVISION PRINTED WIRING BOARDS:
 - 1) ADD RESISTOR, R3 (ITEM 11) BETWEEN J12-14 TO J12-17 (ETCH SIDE).
 - 2) CUT ETCH TO J9 PIN 19 (ETCH SIDE).
 - 3) CUT BOTH ETCH TO J9 PIN 22 (ETCH SIDE).
 - 4) CUT BOTH ETCH TO J9 PIN 72 (ETCH SIDE).
 - 5) CUT ETCH BETWEEN J9 PIN 71 TO J8 PIN 21 (ETCH SIDE).
 - 6) ADD JUMPER FROM J12 PIN 9 TO J8 PIN 22 (ETCH SIDE).
 - 7) ADD JUMPER FROM J12 PIN 10 TO J8 PIN 72 (ETCH SIDE).
 - 8) REMOVE CONNECTOR J9 FROM BOARD AND CUT GROUND PLANE AROUND J9 PIN 20 AND J9 PIN 70 (ISOLATE BOTH PINS FROM GROUND). REINSTALL J9 CONNECTOR ON BOARD.

NTMB2-PWASSY.SIL

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Title
**ASSEMBLY, PW-
MOTHERBOARD**

Xerox Corporation El Segundo, California		XEROX
217230		C
Sheet	2	of 4



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Title
**ASSY, PRINTED WIRING-
 MOTHERBOARD**

Xerox Corporation El Segundo, California		XEROX	
217230		C	
Sheet	3	of	4

MATERIAL LIST

ML	Drawing No. 217230	Rev. C
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Rev. C	Drawing Title		<p>These drawings and specifications, and the data contained therein, are the exclusive property of Xerox Corporation and or Rank Xerox, Ltd. Issued in strict confidence and shall not, without the prior written permission of Xerox Corporation Rank Xerox, Ltd., be reproduced, copied or used for any purpose whatsoever, except the manufacture of articles for Xerox Corporation or Rank Xerox, Ltd.</p>		
	<p>ASSEMBLY, PRINTED WIRING- MOTHERBOARD (NOTETAKER)</p>				
	NTMB3-PWASSY.SIL	Model No. NOTETAKER	Date 4/24/79	Sheet 4 of 4	
2 1 7 2 3 0	Item No.	Drawing Title	Drawing No.	No. Req.	Remarks
	1	BOARD, PW-MOTHERBOARD	217231	1	
	2	BRACKET, SUPPORT - MOTHERBOARD	217682	1	
	3	CONNECTOR, PW EDGE, 100 POS		9	(J1-9) VIKING #3KH50/1JE12
	4	CONNECTOR, 6 POS		1	(J10) BURNDY #HBLB6R1
	5	CONNECTOR, HEADER, 20 POS		1	(J12) AMP #87579-7
	6				
	7	GUIDE, CARD (VERTICAL)		10	STANFORD APPLIED ENGRG, INC #1250V
	8	NUT, SWAGE (XEROX POMONA)	207384	6	(E1 THRU E6)
	9				
	10	RESISTOR, 750 OHM, 1/2W, + /-5% <small>FILM OR CARBON</small>		2	(R1,2)
11	RESISTOR, 1K, 1/4W + /- 5% <small>FILM OR CARBON</small>		1	(R3) (SEE NOTE 2-1)	

ML

View from etch side

The 6 pins connector

- 1
- 2 TABX0
- 3 TABY0
- 4 TABX1
- 5 TABY1
- 6

Display Interface

- 10 Video/Vert Grd
- 9 Vert Drive (VSYNC)
- 8 Video Input
- 7 12V DC Input
- 6 Horiz Drive (HSync)
- 5 Arc Ground
- 4
- 3
- 2
- 1 Horizontal Grd

The 20 pins Connector

- 1 Bootsw +
- 2 Bootsw-
- 3 GND
- 4 CharPwr
- 5 BattOut
- 6 BattOut
- 7 GND
- 8 (ac) ← 4W
- 9 +5Vsw
- 10 +12Vsw
- 11 SpkrA
- 12 SpkrB
- 13 +30v
- 14 (DC) ← +5v
- 15 KbdRcv
- 16 KbdXmit
- 17 +5v
- 18 GND
- 19 +12RelayOn'
- 20 +5RelayOn'

SA 450 Interface

- 2 +5RelayOn'
- 4 reserved
- 6 +12RelayOn'
- 8 Index'/Sec'
- 10 DS01'
- 12 DS02'
- 14 DS03'
- 16 MotorOn'
- 18 DirecSel'
- 20 Step'
- 22 WriteData'
- 24 WriteGate'
- 26 Track00'
- 28 WriteProt'
- 30 ReadData'
- 32 SideSel

	J9		J8		J7		J6		
1	+12v	+12v	+12v	+12v	+12v	+12v	+12v	+12v	51
2	+12v	+12v	+12v	+12v	+12v	+12v	+12v	+12v	52
3	PageMode'	****	PageMode'	****	PageMode'	****	PageMode'	****	53
4	GoMem'	VSYNC'	GoMem'	VSYNC'	GoMem'	VSYNC'	GoMem'	VSYNC'	54
5	-20V	-20V	-20V	-20V	-20V	-20V	-20V	-20V	55
6	BusLock'	Video	BusLock'	Video	BusLock'	Video	BusLock'	Video	56
7	BusClkDly'	HSync	BusClkDly'	HSync	BusClkDly'	HSync	BusClkDly'	HSync	57
8	ProcBoot'	ParErr	ProcBoot'	ParErr	ProcBoot'	ParErr	ProcBoot'	ParErr	58
9	Proclnt'	DataReady	Proclnt'	DataReady	Proclnt'	DataReady	Proclnt'	DataReady	59
10	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	60
11	BusReq0'	BusReq4'	BusReq0'	BusReq4'	BusReq0'	BusReq4'	BusReq0'	BusReq4'	61
12	BusReq1'	BusReq5'	BusReq1'	BusReq5'	BusReq1'	BusReq5'	BusReq1'	BusReq5'	62
13	BusReq2'	BusReq6'	BusReq2'	BusReq6'	BusReq2'	BusReq6'	BusReq2'	BusReq6'	63
14	BusReq3'	BusReq7'	BusReq3'	BusReq7'	BusReq3'	BusReq7'	BusReq3'	BusReq7'	64
15	Bootsw +	TABX0	Bootsw +	TABX0	Bootsw +	TABX0	Bootsw +	TABX0	65
16	Bootsw -	TABY0	Bootsw -	TABY0	Bootsw -	TABY0	Bootsw -	TABY0	66
17	CharCtr	TABX1	CharCtr	TABX1	CharCtr	TABX1	CharCtr	TABX1	67
18	CharPwr	TABY1	CharPwr	TABY1	CharPwr	TABY1	CharPwr	TABY1	68
19	96Khz	***	96Khz	***	96Khz	***	96Khz	***	69
20	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	70
21	BattOut	BattOut	BattOut	BattOut	BattOut	BattOut	BattOut	BattOut	71
22	+5VSw	+12VSw	+5VSw	+12VSw	+5VSw	+12VSw	+5VSw	+12VSw	72
23	SpkrA	**	SpkrA	**	SpkrA	**	SpkrA	**	73
24	SpkrB	+30v	SpkrB	+30v	SpkrB	+30v	SpkrB	+30v	74
25	+15VD	-15VD	+15VD	-15VD	+15VD	-15VD	+15VD	-15VD	75
26	*	ProcReset'	*	ProcReset'	*	ProcReset'	*	ProcReset'	76
27	KbdRcv	KbdXmit	KbdRcv	KbdXmit	KbdRcv	KbdXmit	KbdRcv	KbdXmit	77
28	ModemR	ModemX	ModemR	ModemX	ModemR	ModemX	ModemR	ModemX	78
29	MemComp	+5RelayOn'	MemComp	+5RelayOn'	MemComp	+5RelayOn'	MemComp	+5RelayOn'	79
30	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	80
31	MData00	+12RelayOn'	MData00	+12RelayOn'	MData00	+12RelayOn'	MData00	+12RelayOn'	81
32	MData01	Index'/Sec'	MData01	Index'/Sec'	MData01	Index'/Sec'	MData01	Index'/Sec'	82
33	MData02	DS01'	MData02	DS01'	MData02	DS01'	MData02	DS01'	83
34	MData03	DS02'	MData03	DS02'	MData03	DS02'	MData03	DS02'	84
35	MData04	DS03'	MData04	DS03'	MData04	DS03'	MData04	DS03'	85
36	MData05	MotorOn'	MData05	MotorOn'	MData05	MotorOn'	MData05	MotorOn'	86
37	MData06	DirSel'	MData06	DirSel'	MData06	DirSel'	MData06	DirSel'	87
38	MData07	Step'	MData07	Step'	MData07	Step'	MData07	Step'	88
39	MData08	WriteData'	MData08	WriteData'	MData08	WriteData'	MData08	WriteData'	89
40	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	90
41	MData09	WriteGate'	MData09	WriteGate'	MData09	WriteGate'	MData09	WriteGate'	91
42	MData10	Track00'	MData10	Track00'	MData10	Track00'	MData10	Track00'	92
43	MData11	BusSync	MData11	BusSync	MData11	BusSync	MData11	BusSync	93
44	MData12	CorrOn'	MData12	CorrOn'	MData12	CorrOn'	MData12	CorrOn'	94
45	MData13	BusClk	MData13	BusClk	MData13	BusClk	MData13	BusClk	95
46	MData14	Reset'	MData14	Reset'	MData14	Reset'	MData14	Reset'	96
47	MData15	WriteProt'	MData15	WriteProt'	MData15	WriteProt'	MData15	WriteProt'	97
48	SideSel	ReadData'	SideSel	ReadData'	SideSel	ReadData'	SideSel	ReadData'	98
49	+5v	+5v	+5v	+5v	+5v	+5v	+5v	+5v	99
50	+5v	+5v	+5v	+5v	+5v	+5v	+5v	+5v	100

Battery

Modem

Disk & Display

I/O proc.

Spare Pins

- .
- .
- .
- .

All odd no. pins GND

View from etch side

	J5		J4		J3		J2		J1		
1	+12v	+12v	+12v	+12v	+12v	+12v	+12v	+12v	+12v	+12v	51
2	+12v	+12v	+12v	+12v	+12v	+12v	+12v	+12v	+12v	+12v	52
3	PageMode'	****	PageMode'								53
4	GoMem'	VSYNC'	GoMem'								54
5	-20V	-20V	-20V	-20V	-20V	-20V	-20V	-20V	-20V	-20V	55
6	BusLock'	Video	BusLock'	CAS		CAS		CAS		CAS	56
7	BusClkDly'	HSync	BusClkDly'	Write	BusClkDly'	Write	BusClkDly'	Write	BusClkDly'	Write	57
8	ProcBoot'	ParErr	ProcBoot'	ParErr	Data00	Data00	Data00	Data20	Data20	Data20	58
9	ProcInt'	DataReady	ProcInt'	DataReady	Data01	Data01	Data01	Data21	Data21	Data21	59
10	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	60
11	BusReq0'	BusReq4'	BusReq0'	BusReq4'	Data02	Data02	Data02	Data22	Data22	Data22	61
12	BusReq1'	BusReq5'	BusReq1'	BusReq5'	Data03	Data03	Data03	Data23	Data23	Data23	62
13	BusReq2'	BusReq6'	BusReq2'	BusReq6'	Data04	Data04	Data04	Data24	Data24	Data24	63
14	BusReq3'	BusReq7'	BusReq3'	BusReq7'	Data05	Data05	Data05	Data25	Data25	Data25	64
15	Bootsw +	TABX0	Bootsw +	TABX0	Data06	Data06	Data06	Data26	Data26	Data26	65
16	Bootsw-	TABY0	Bootsw-	TABY0	Data07	Data07	Data07	Data27	Data27	Data27	66
17	CharCtr	TABX1	CharCtr	TABX1	Data08	Data08	Data08	Data28	Data28	Data28	67
18	CharPwr	TABY1	CharPwr	TABY1	Data09	Data09	Data09	Data29	Data29	Data29	68
19	96Khz	***	96Khz	***	Data10	Data10	Data10	Data30	Data30	Data30	69
20	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	70
21	BattOut	BattOut	BattOut	BattOut	Data11	Data11	Data11	Data31	Data31	Data31	71
22	+5VSw	+12VSw	+5VSw	+12VSw	Data12	Data12	Data12	Data32	Data32	Data32	72
23	SpkrA	**	SpkrA	**	Data13	Data13	Data13	Data33	Data33	Data33	73
24	SpkrB	+30v	SpkrB	+30v	Data14	Data14	Data14	Data34	Data34	Data34	74
25	+15VD	-15VD	+15VD	-15VD	Data15	Data15	Data15	Data35	Data35	Data35	75
26	*	ProcReset'	*	ProcReset'	Data16	Data16	Data16	Data36	Data36	Data36	76
27	KbdRcv	KbdXmit	KbdRcv	KbdXmit	Data17	Data17	Data17	Data37	Data37	Data37	77
28	ModemR	ModemX	ModemR	ModemX	Data18	Data18	Data18	Data38	Data38	Data38	78
29	MemComp	+5RelayOn'	MemComp		Data19	Data19	Data19	Data39	Data39	Data39	79
30	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	80
31	MData00	+12RelayOn'	MData00	MA0'	MData00	MA0'	MData00	MA0'	MData00	MA0'	81
32	MData01	Index'/Sec'	MData01	MA1'	MData01	MA1'	MData01	MA1'	MData01	MA1'	82
33	MData02	DS01'	MData02	MA2'	MData02	MA2'	MData02	MA2'	MData02	MA2'	83
34	MData03	DS02'	MData03	MA3'	MData03	MA3'	MData03	MA3'	MData03	MA3'	84
35	MData04	DS03'	MData04	MA4'	MData04	MA4'	MData04	MA4'	MData04	MA4'	85
36	MData05	MotorOn'	MData05	MA5'	MData05	MA5'	MData05	MA5'	MData05	MA5'	86
37	MData06	DirectSel'	MData06	MA6'	MData06	MA6'	MData06	MA6'	MData06	MA6'	87
38	MData07	Step'	MData07	MA7'	MData07	MA7'	MData07	MA7'	MData07	MA7'	88
39	MData08	WriteData'	MData08	MAE'	MData08	MAE'	MData08	MAE'	MData08	MAE'	89
40	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	Gnd	90
41	MData09	WriteGate'	MData09	RAS0	MData09	RAS0	MData09	RAS0	MData09	RAS0	91
42	MData10	Track00'	MData10	RAS1	MData10	RAS1	MData10	RAS1	MData10	RAS1	92
43	MData11	BusSync	MData11	BusSync	MData11	BusSync	MData11	BusSync	MData11	BusSync	93
44	MData12	CorrOn'	MData12	CorrOn'	MData12	CorrOn'	MData12	CorrOn'	MData12	CorrOn'	94
45	MData13	BusClk	MData13	BusClk	MData13	BusClk	MData13	BusClk	MData13	BusClk	95
46	MData14	Reset'	MData14	Reset'	MData14	Reset'	MData14	Reset'	MData14	Reset'	96
47	MData15	WriteProt'	MData15	RAS2	MData15	RAS2	MData15	RAS2	MData15	RAS2	97
48	SideSel	ReadData'		RAS3		RAS3		RAS3		RAS3	98
49	+5v	+5v	+5v	+5v	+5v	+5v	+5v	+5v	+5v	+5v	99
50	+5v	+5v	+5v	+5v	+5v	+5v	+5v	+5v	+5v	+5v	100

Emulator Proc.

Mem. Control

Mem. Storage-1

Mem. Data

Mem. Storage-2

XEROX SPG	Project NoteTaker	Backpanel Layout -Prototype	File PNTBP-2.SIL	Designer Leung	Rev B	Date 9/22/78	Page 2
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