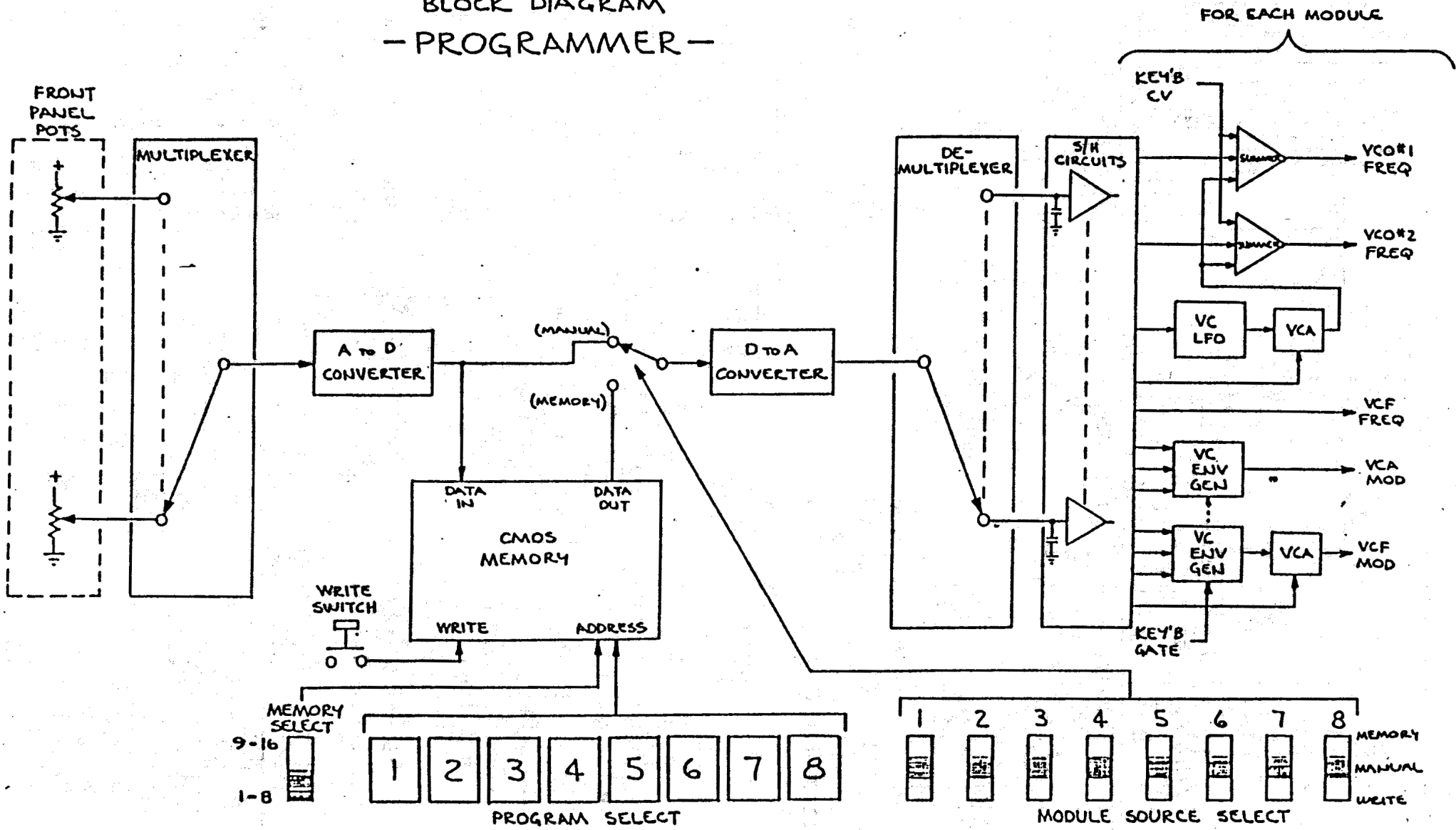
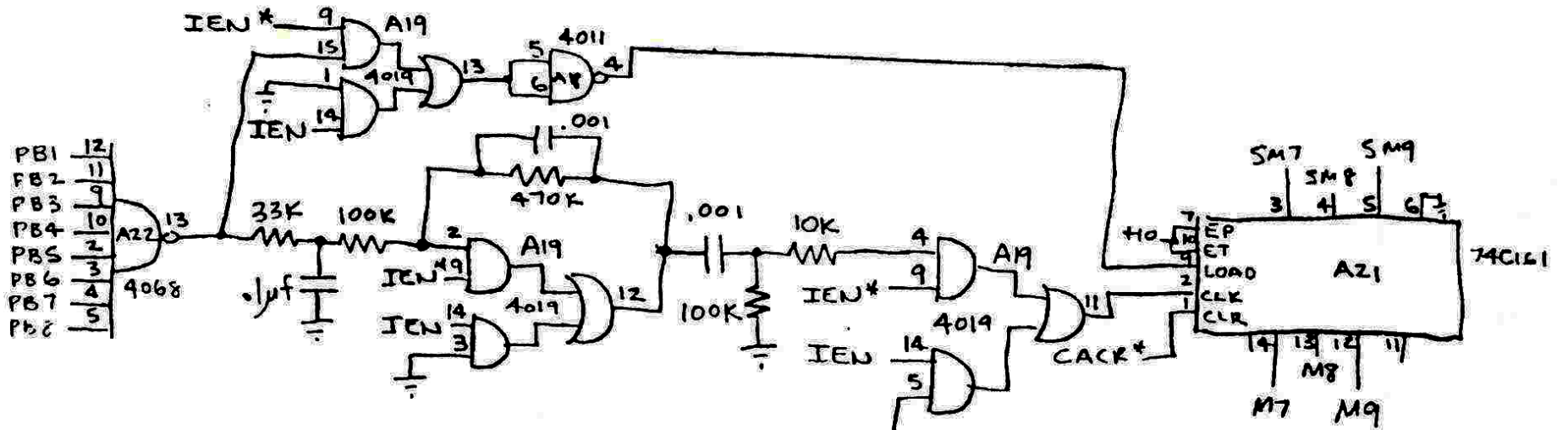
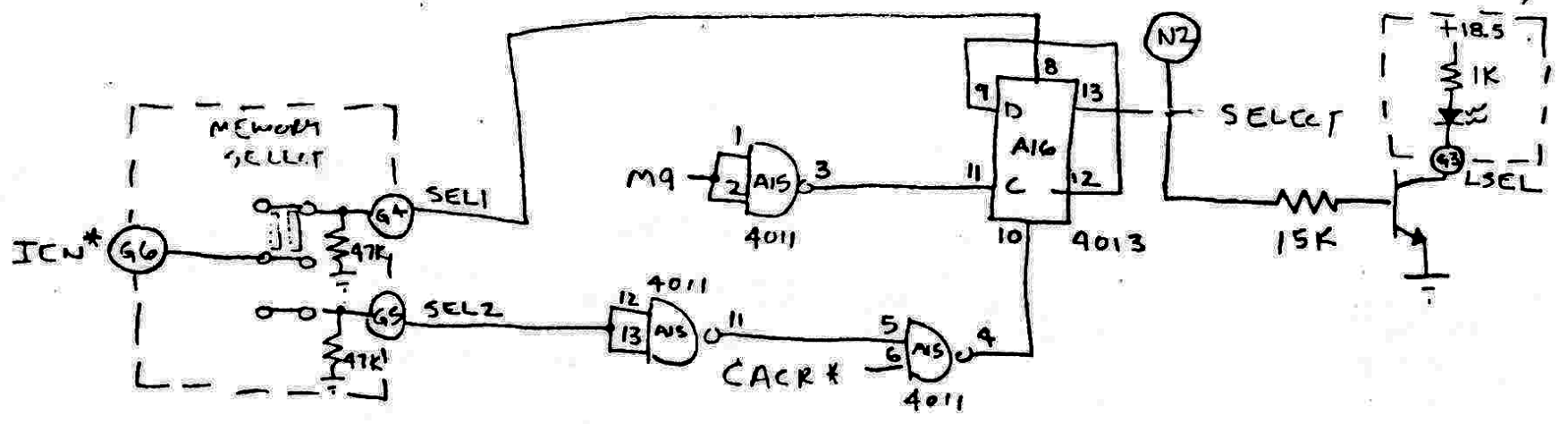
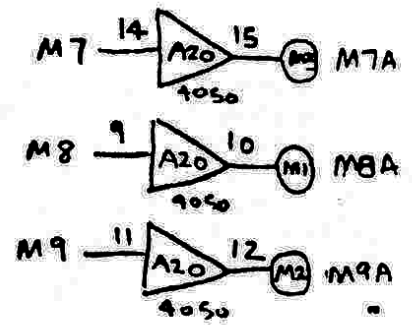
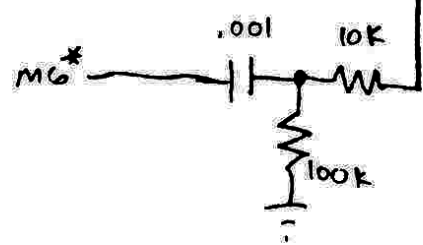
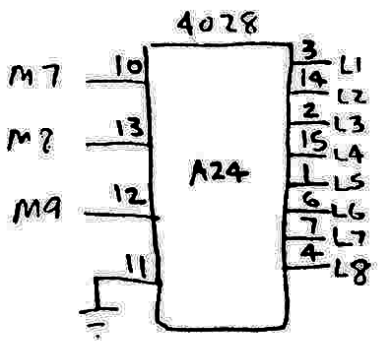


BLOCK DIAGRAM - PROGRAMMER -





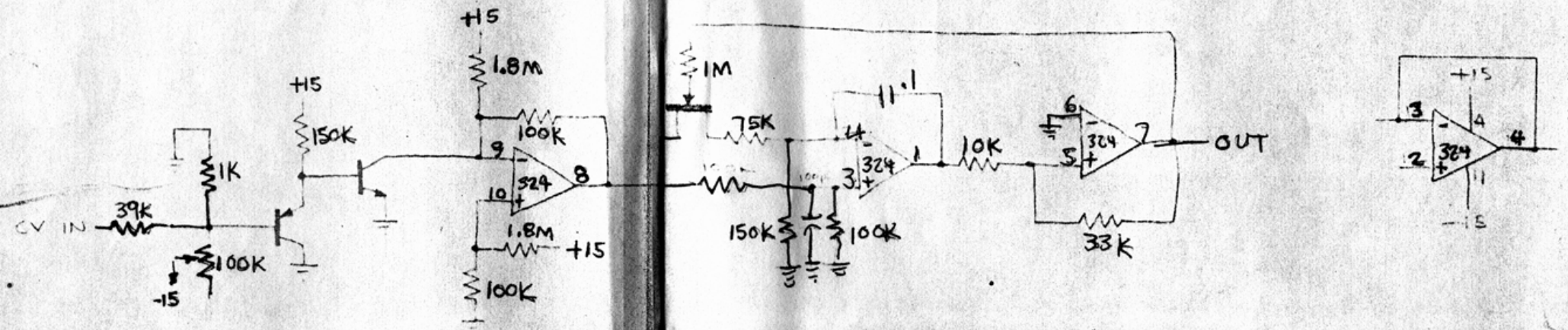
- PB1 12
- PB2 11
- PB3 9
- PB4 10
- PB5 2
- PB6 3
- PB7 4
- PB8 5



10-20-76

PROGRAMMER OVERHEAD

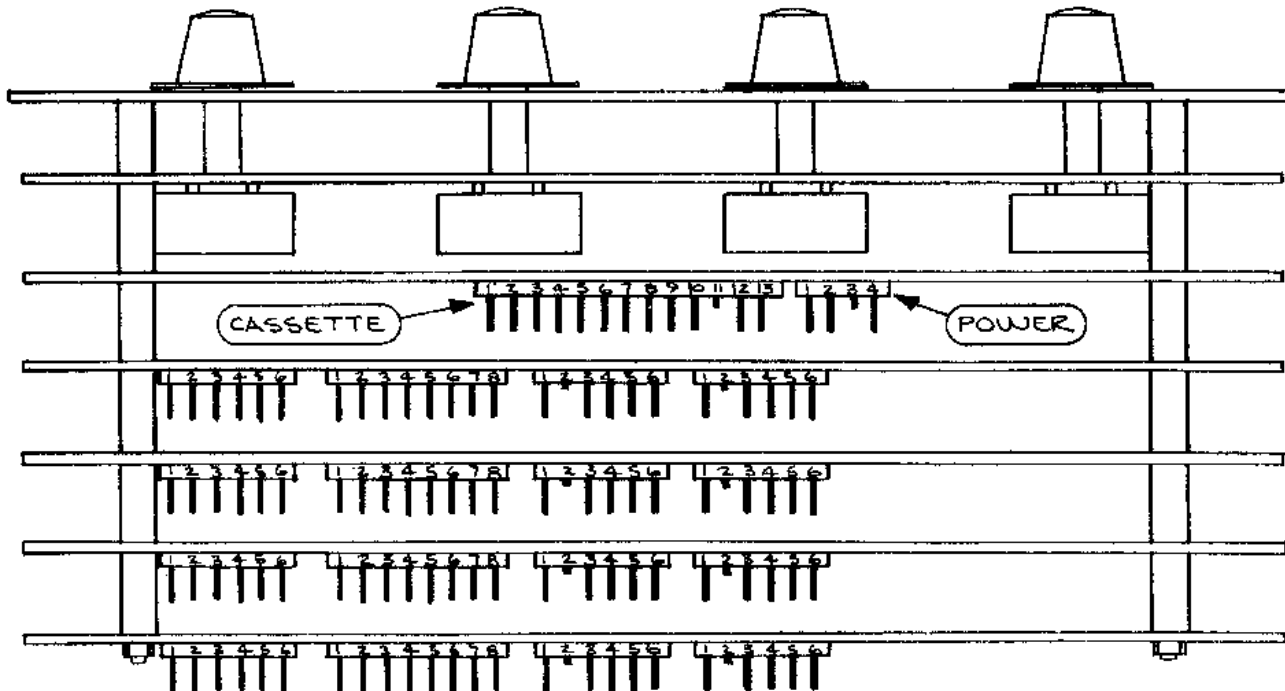
PROGRAMMER LFO



FOR INFORMATION ONLY
 This document contains proprietary information which shall not be disclosed to others, or used for manufacturing or any other purpose without prior written permission of Oberheim Electronics, Inc. Service performed by any person other than factory authorized repair stations may void the warranty.

- NOTES:
 1. UNLESS SPECIFIED OTHERWISE
 2. ALL RESISTORS ARE IN OHMS
 3. ALL CAPACITORS IN P.F.
 4. ALL NPN TRANSISTORS ARE 2N4302
 5. ALL PNP TRANSISTORS ARE 2N4302
 6. ALL DIODES ARE 1N4148 3905?
 7. ALL FET'S - 2N4302
 8. 2N4302

TOP VIEW



FRONT PANEL

POT BOARD

OVERHEAD BOARD

CHANNEL BOARD #1 (CHANNELS 1 & 2)

CHANNEL BOARD #2 (CHANNELS 3 & 4)

CHANNEL BOARD #3 (CHANNELS 5 & 6)

CHANNEL BOARD #4 (CHANNELS 7 & 8)

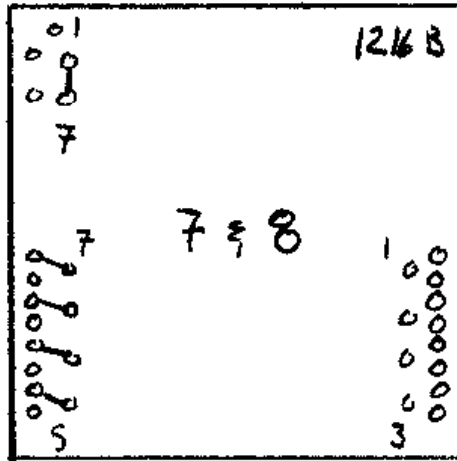
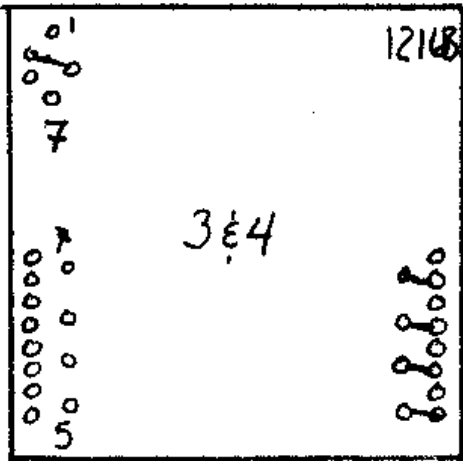
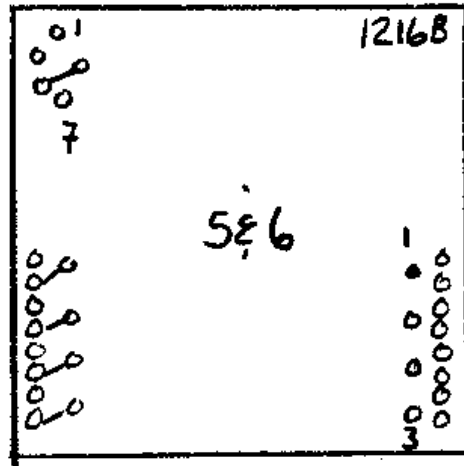
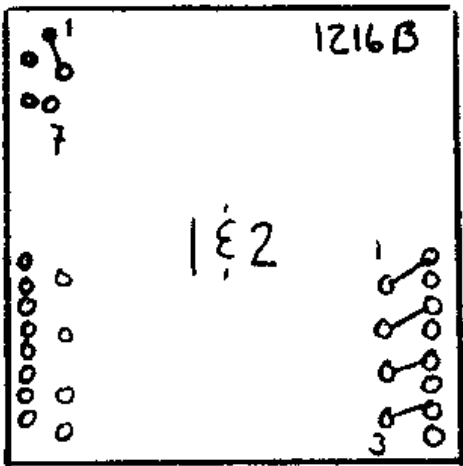
PIN	FUNCTION
1	+18.5 V
2	GND
3	KEY
4	-18.5 V

A CONNECTOR		D CONNECTOR		B CONNECTOR		C CONNECTOR	
PIN	FUNCTION	PIN	FUNCTION	PIN	FUNCTION	PIN	FUNCTION
1	KEY 'B' CV "A" (CH'S 1,3,5,7)	1	VCO 2 CV "B" (CH'S 2,4,6,8)	1	GATE "A" (CH'S 1,3,5,7)	1	GATE "B" (CH'S 2,4,6,8)
2	KEY 'B' CV "B" (CH'S 2,4,6,8)	2	VCO 2 CV "A" (CH'S 1,3,5,7)	2	KEY	2	KEY
3	GND	3	VCF ENV "B" (CH'S 2,4,6,8)	3	GND	3	GND
4	GND	4	VCF ENV "A" (CH'S 1,3,5,7)	4	NOT USED	4	NOT USED
5	KEY 'B' GATE "B" (CH'S 2,4,6,8)	5	VCF CV "B" (CH'S 2,4,6,8)	5	NOT USED	5	NOT USED
6	KEY 'B' GATE "A" (CH'S 1,3,5,7)	6	VCF CV "A" (CH'S 1,3,5,7)	6	VCO 1 CV "A" (CH'S 1,3,5,7)	6	VCO 1 CV "B" (CH'S 2,4,6,8)
		7	VCA ENV "B" (CH'S 2,4,6,8)				
		8	VCA ENV "A" (CH'S 1,3,5,7)				

OBERHEIM ELECTRONICS, INC

PROGRAMMER
INPUT-OUTPUT CONNECTOR
PLACEMENTS

DEC. 15, 1976



CHANNEL T.S.
 JUMPERING
 PSP-1
 6-5-78 1216B

.1458

.308 CVB1

.308 CVB2

.308 CVZA

.308 CVIA

B VCFE VCFM B
A VCFE VCFM A

A DEAY₂ ATTACK A
A SUSTAIN₂ ATTACK A

A LFO F LFO M A
A SUSTAIN₁ DECAY 1 A

B DEAY₂ ATTACK 2 B
B SUSTAIN₂ ATTACK 1 B

B LFO F LFO M B
B SUSTAIN₁ DECAY 1 B

PSP S: H 1216B

PIN OUT

6-5-78 T.S.