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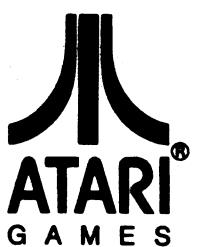
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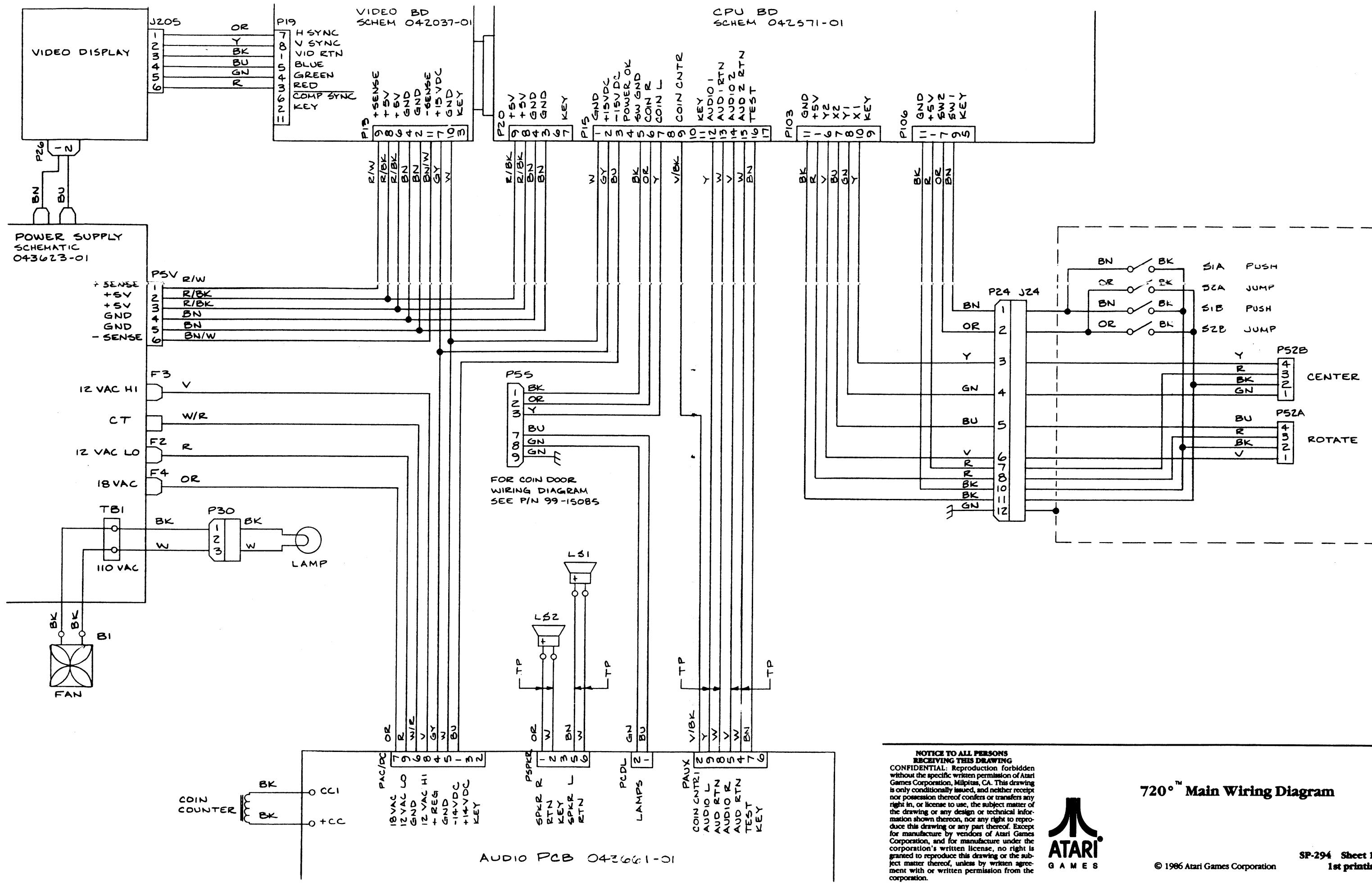
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Schematic Package Supplement to the 720° Operators Manual



NOTE
This staple temporarily holds the schematic package together. Remove the staple before using these schematics.



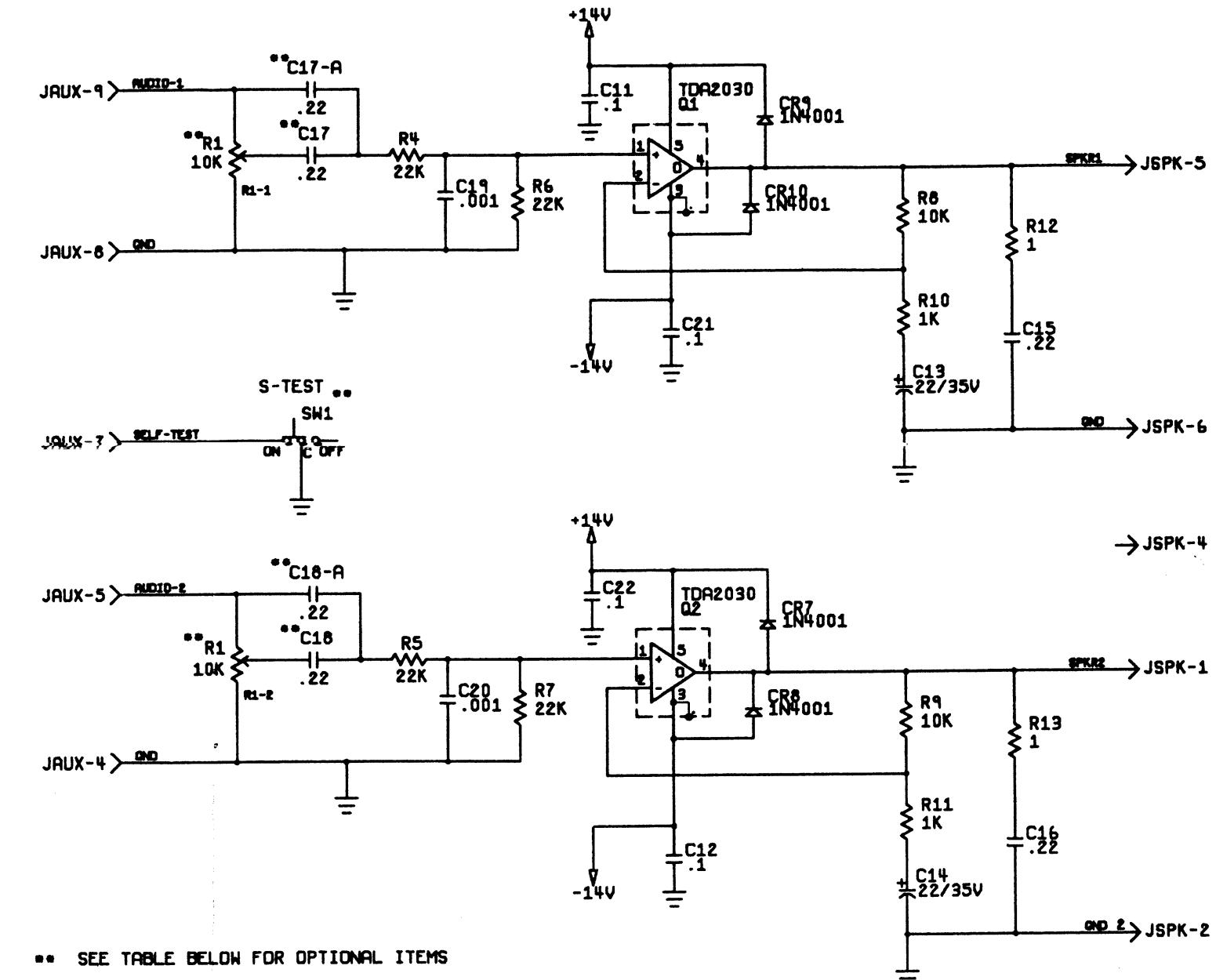
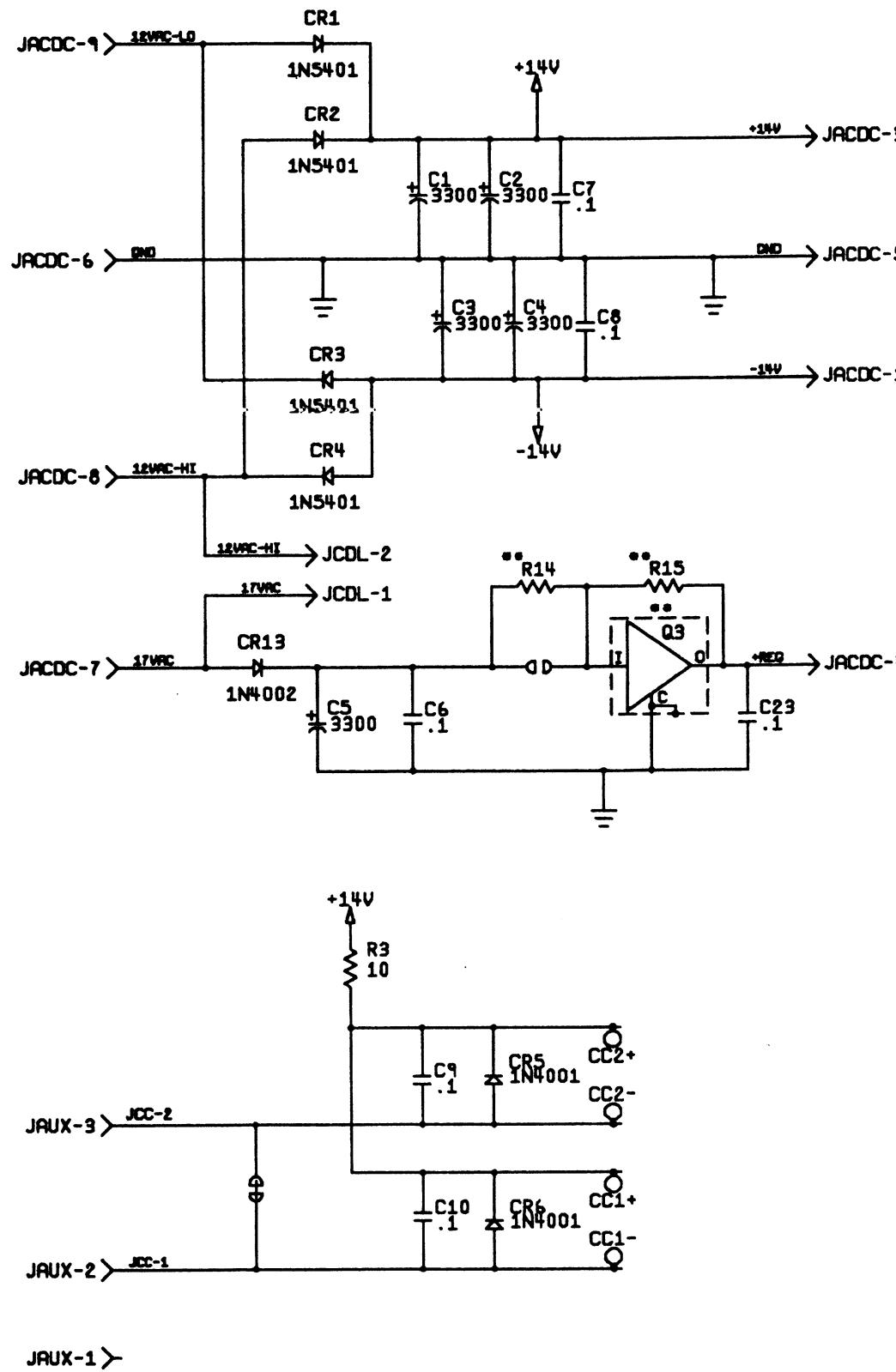


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720°™ Main Wiring Diagram





** SEE TABLE BELOW FOR OPTIONAL ITEMS

DESIGNATION	VALUE	-01	-02
R1	10K POT	YES	YES
C17, C18	.22	YES	YES
C17-A, C18-A	.22	NO	NO
SW1	ON/OFF	YES	YES
Q3	SEE VER COL	LM7815	LM7812
R14	SEE VER COL	0 OHM	0 OHM
R15	0	NO	NO

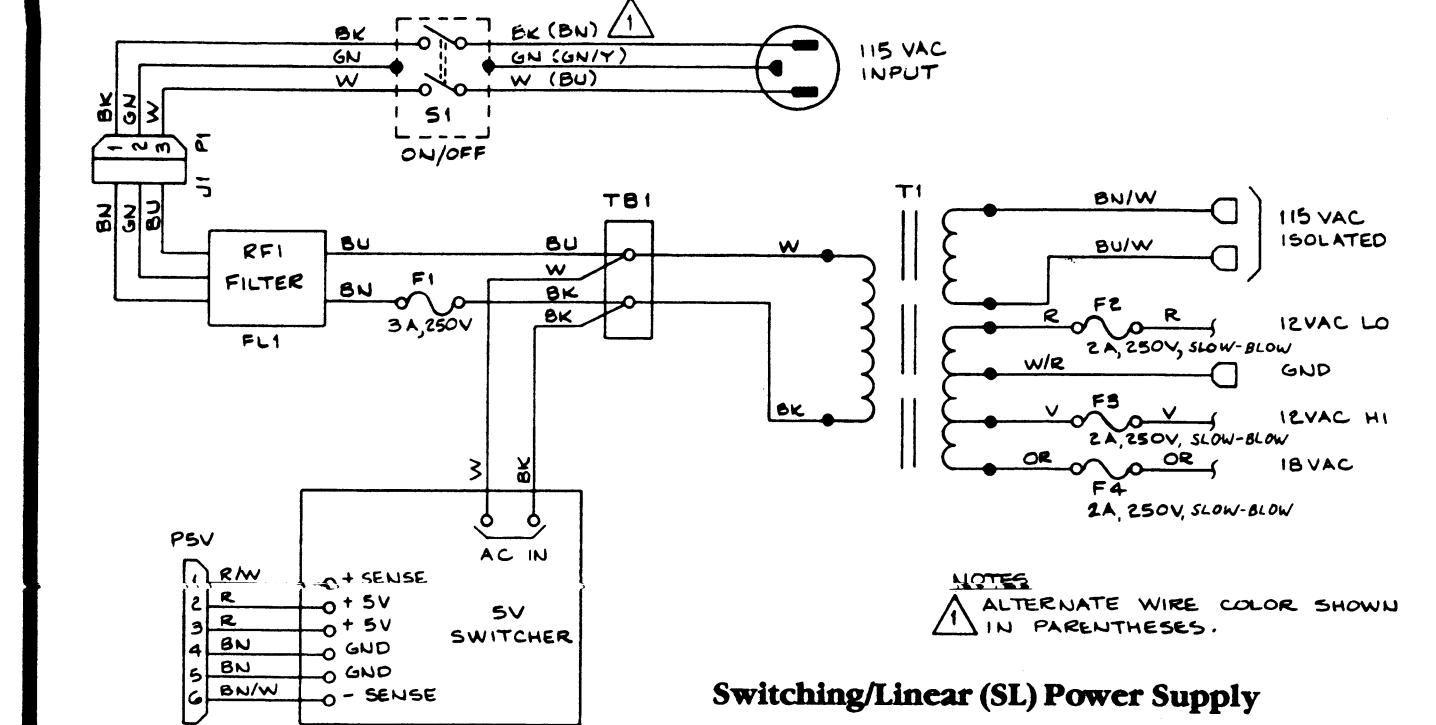
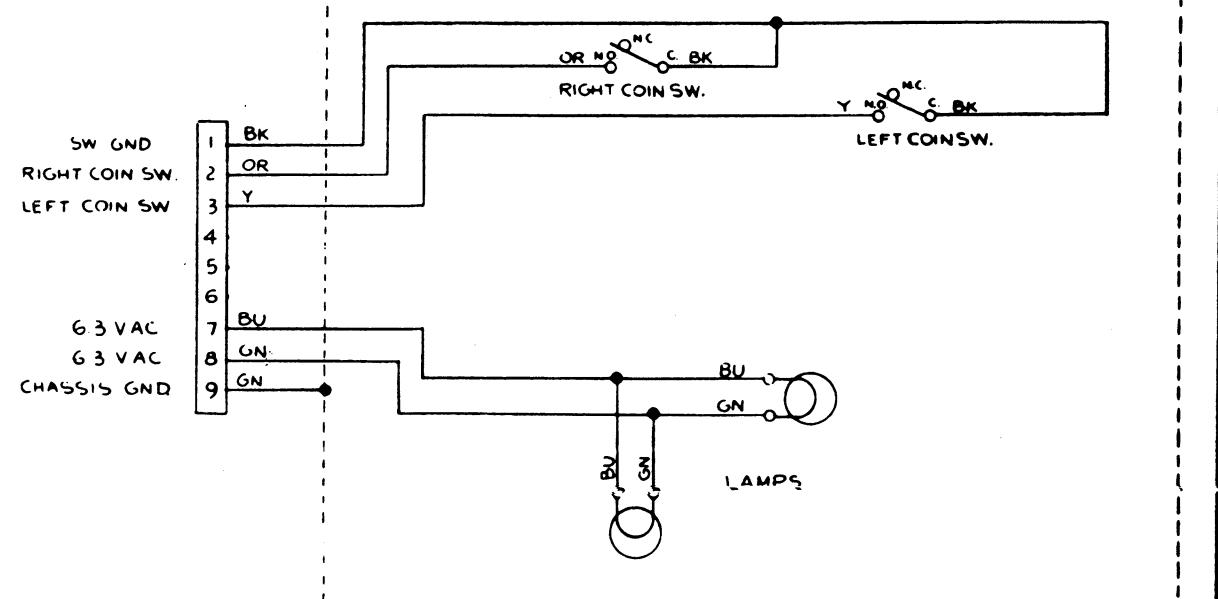
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720°™ Audio II PCB Schematic Diagram

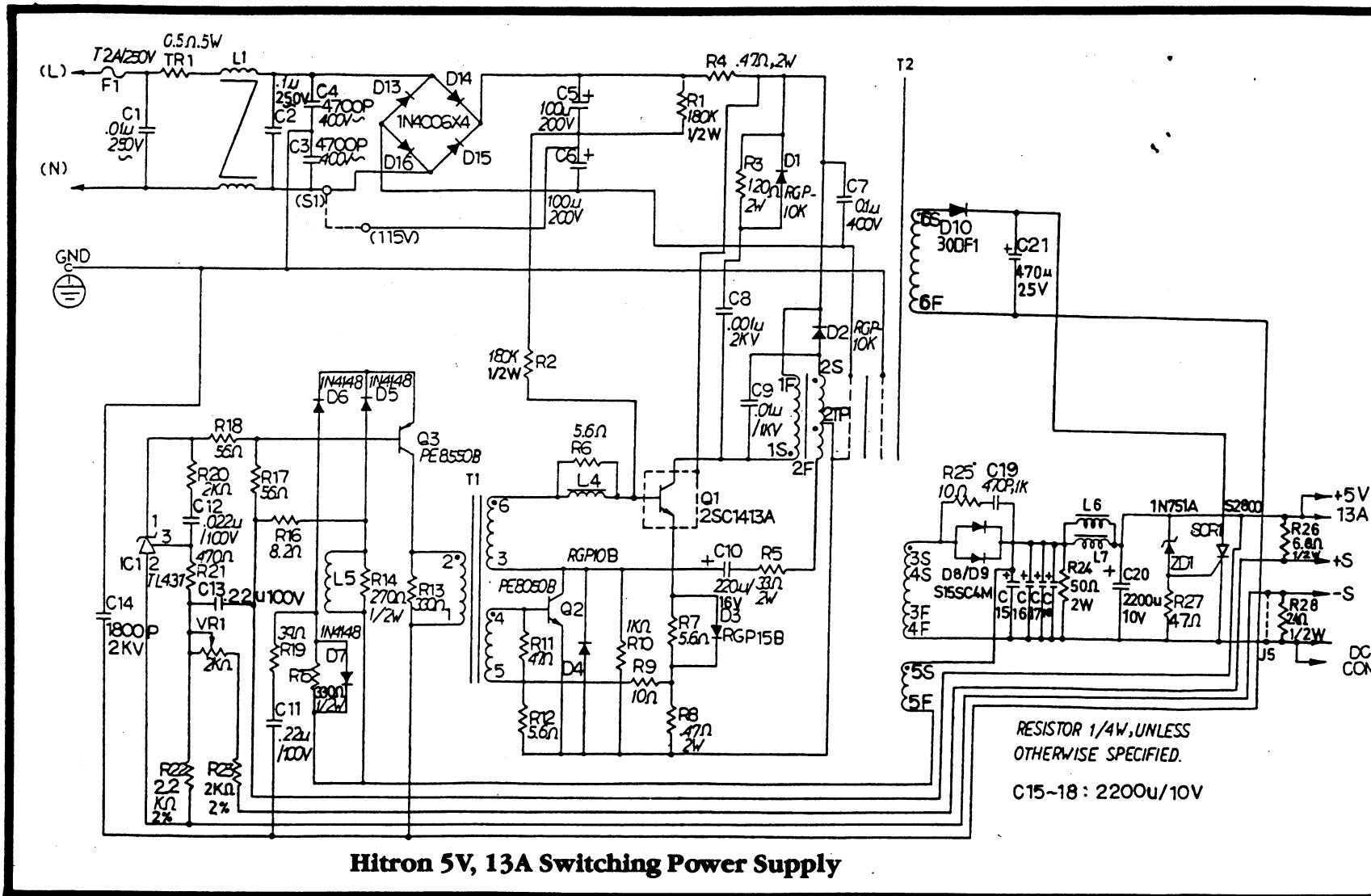


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Coin Door Wiring Diagram



Switching/Linear (SL) Power Supply



Hitron 5V, 13A Switching Power Supply

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(SL) Power Supply, Coin Door, and 5V,13A Power Supply Wiring Diagrams



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Main Microprocessor (T-11) Memory Map

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720°™ Main
Microprocessor Memory Map



Sound Microprocessor (6502) Memory Map

Hexa-decimal	A 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0	R/W	D 0 0 0 0 0 0 0 0 7 6 5 4 3 2 1 0	Function and Size
0000-0FFF	0 0 0 0 A A A A A A A A A A A A	R/W	D D D D D D D D	Program RAM (4KB)
1000-17FF	0 0 0 1 0 A A A A A A A A A A A A	R/W	D D D D D D D D	EEROM (2KB)
1800-180F	0 0 1 1 0 0 0 A A A A A A	R/W	D D D D D D D D	POKEY 1 (16B)
1810-1813	0 0 1 1 0 0 1 A A A	R	D D D D D D D D	LETA
1830-183F	0 0 1 1 0 1 1 A A A A A A	R/W	D D D D D D D D	POKEY 2 (16B)
1840	0 0 1 1 1 0 0 A A A A A A A A	R	D	T-11 Talk (Active High)
1840	0 0 1 1 1 0 0 A A A A A A A A	R	D	6502 Talk (Active High)
1840	0 0 1 1 1 0 0 A A A A A A A A	R	D	TI READY (Active High)
1840	0 0 1 1 1 Q Q A A A A A A A A	R	D	Self-Test Switch (Active Low)
1840	0 0 1 1 1 0 0 A A A A A A A A	R	D	Auxiliary Coin Switch (Active Low)
1840	0 0 1 1 1 0 0 A A A A A A A A	R	D	Left Coin Switch (Active Low)
1840	0 0 1 1 1 0 0 A A A A A A A A	R	D	Right Coin Switch (Active Low)
1850-1851	0 0 1 1 1 0 1 A A A A A A A A	R	D D D D D D D D	Yamaha Sound Chip
1860	0 0 1 1 1 1 0 A A A A A A A A	R	D D D D D D D D	Communications Port Read
1870	0 0 1 1 1 1 1 0 0 0 0 A A A A A A	W	D D D D D D D D	TI Data
1872-1873	0 0 1 1 1 1 1 0 0 1 A A A A A A	W	D D D D D D D D	TI Write Enable
1874	0 0 1 1 1 1 1 0 1 0 A A A A A A	W	D D D D D D D D	Communications Port Write
1876	0 0 1 1 1 1 1 0 1 1 A A A A A A	W	D	Right Coin Counter (Active High)
1876	0 0 1 1 1 1 1 0 1 1 A A A A A A	W	D	Left Coin Counter (Active High)
1878	0 0 1 1 1 1 1 1 0 0 A A A A A A	W	.	IRQ Clear
187A	0 0 1 1 1 1 1 1 0 1 A A A A A A	W	D D D	Yamaha Mixer
187A	0 0 1 1 1 1 1 1 0 1 A A A A A A	W	D D	POKEY Mixer
187A	0 0 1 1 1 1 1 1 0 1 A A A A A A	W	D D D	TI Sound Mixer
187C	0 0 1 1 1 1 1 1 1 0 A A A A A A	W	D	LED 1
187C	0 0 1 1 1 1 1 1 1 0 A A A A A A	W	D	LED 2
187C	0 0 1 1 1 1 1 1 1 0 A A A A A A	W	D	LETA Resolution
187C	0 0 1 1 1 1 1 1 1 0 A A A A A A	W	D	TI Frequency Select
187E	0 0 1 1 1 1 1 1 1 1 A A A A A A	W	D	Sound Enable (Active High)
4000-7FFF	0 1 A A A A A A A A A A A A A A A A	R	D D D D D D D D	Program ROM (16KB)
8000-FFFF	1 A A A A A A A A A A A A A A A A	R	D D D D D D D D	Program ROM (32KB)

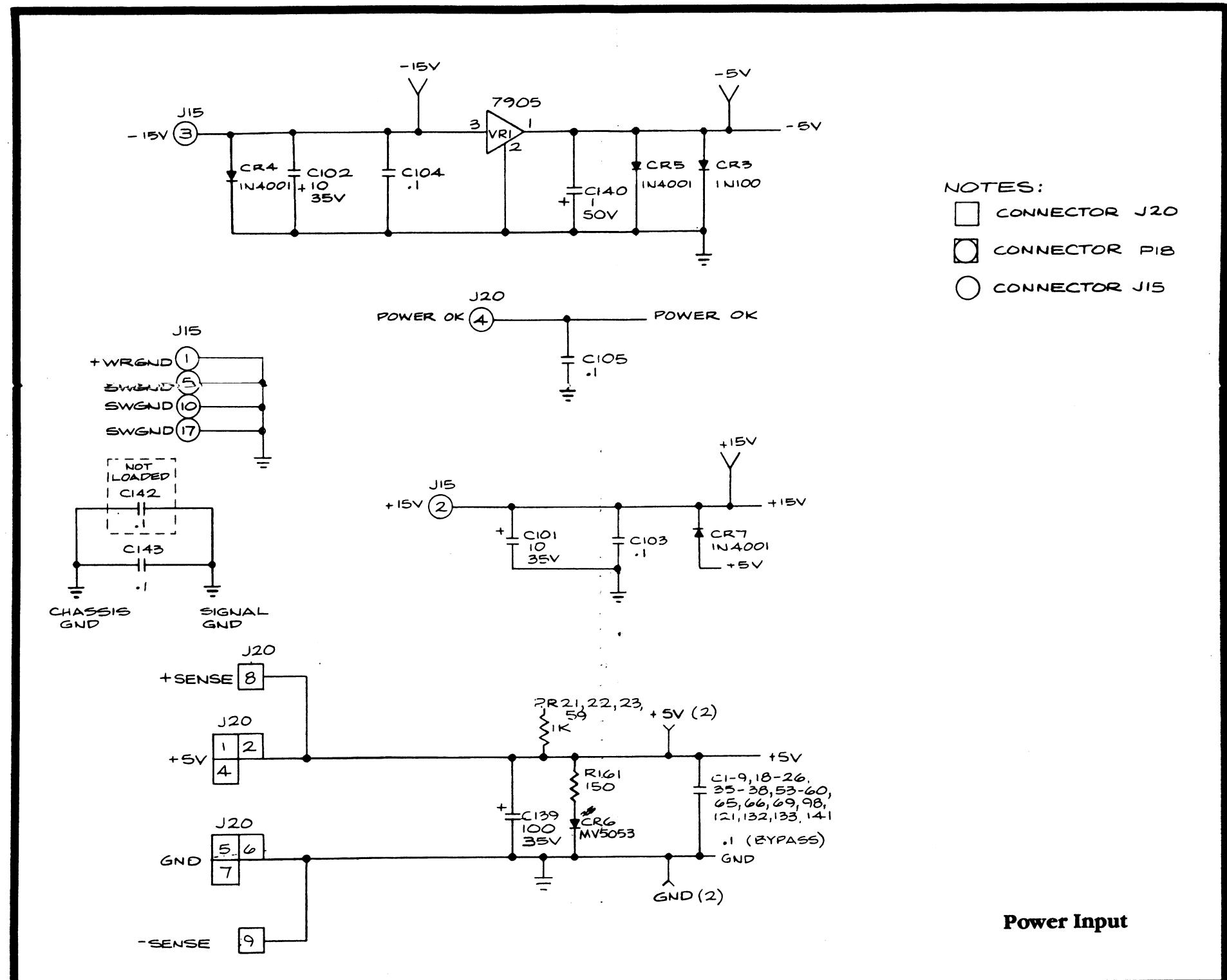
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720°™ Sound
 Microprocessor Memory Map



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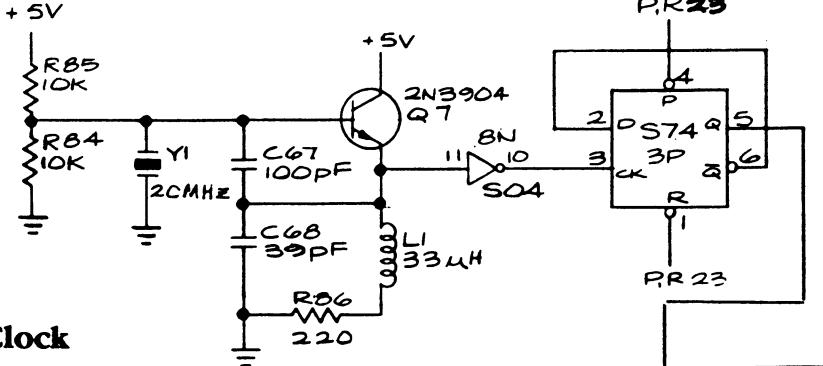
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720°™ CPU PCB Schematic Diagram

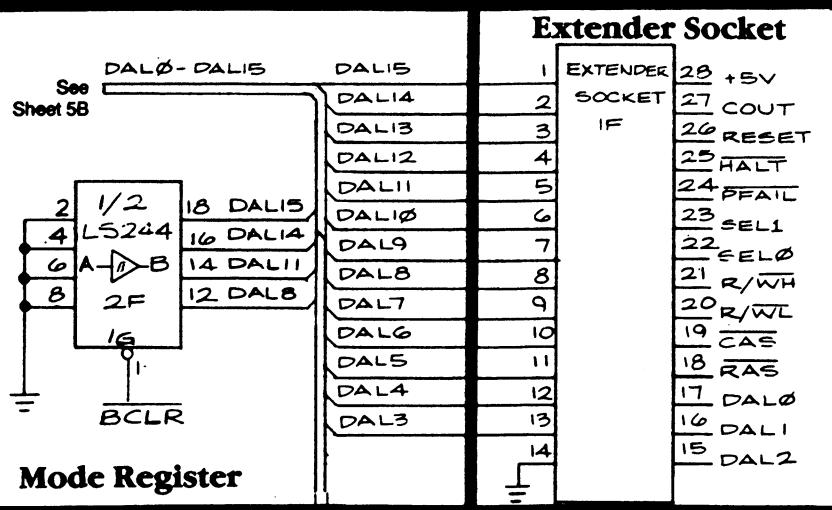


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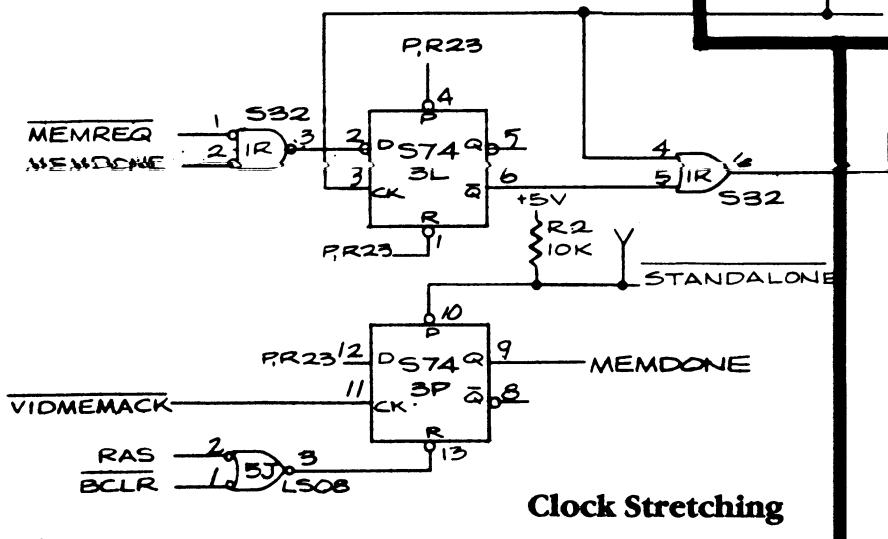
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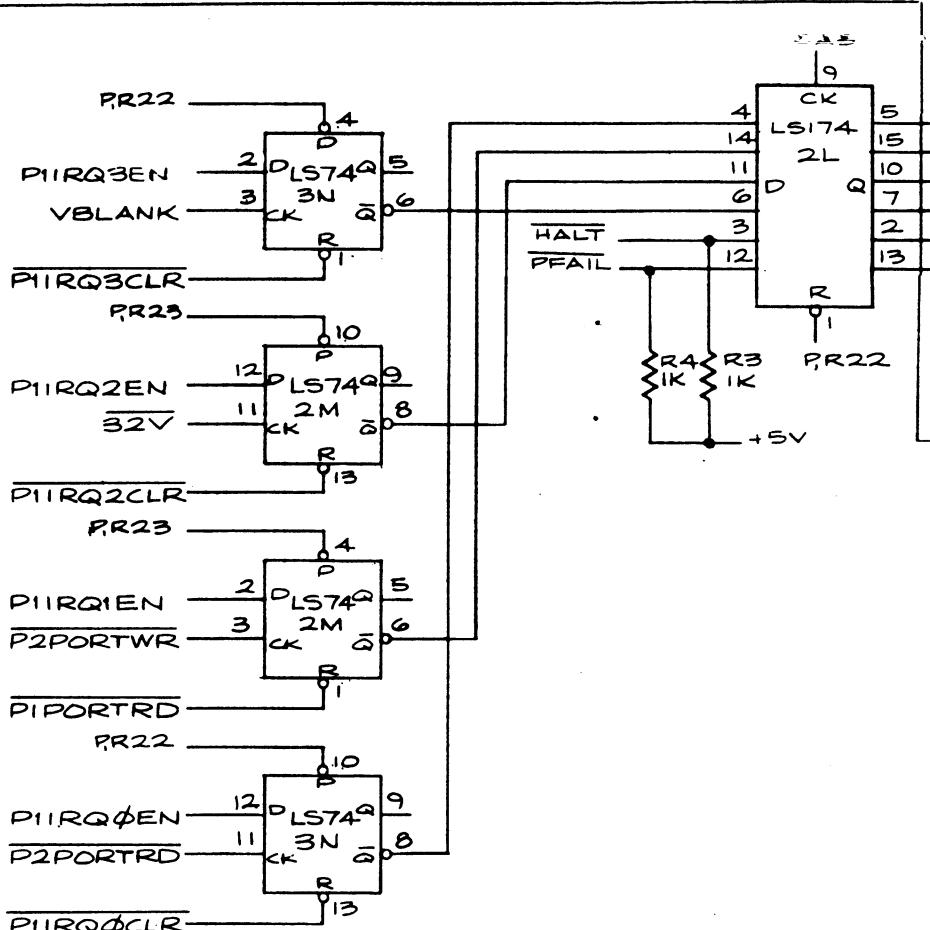
T-11 Clock



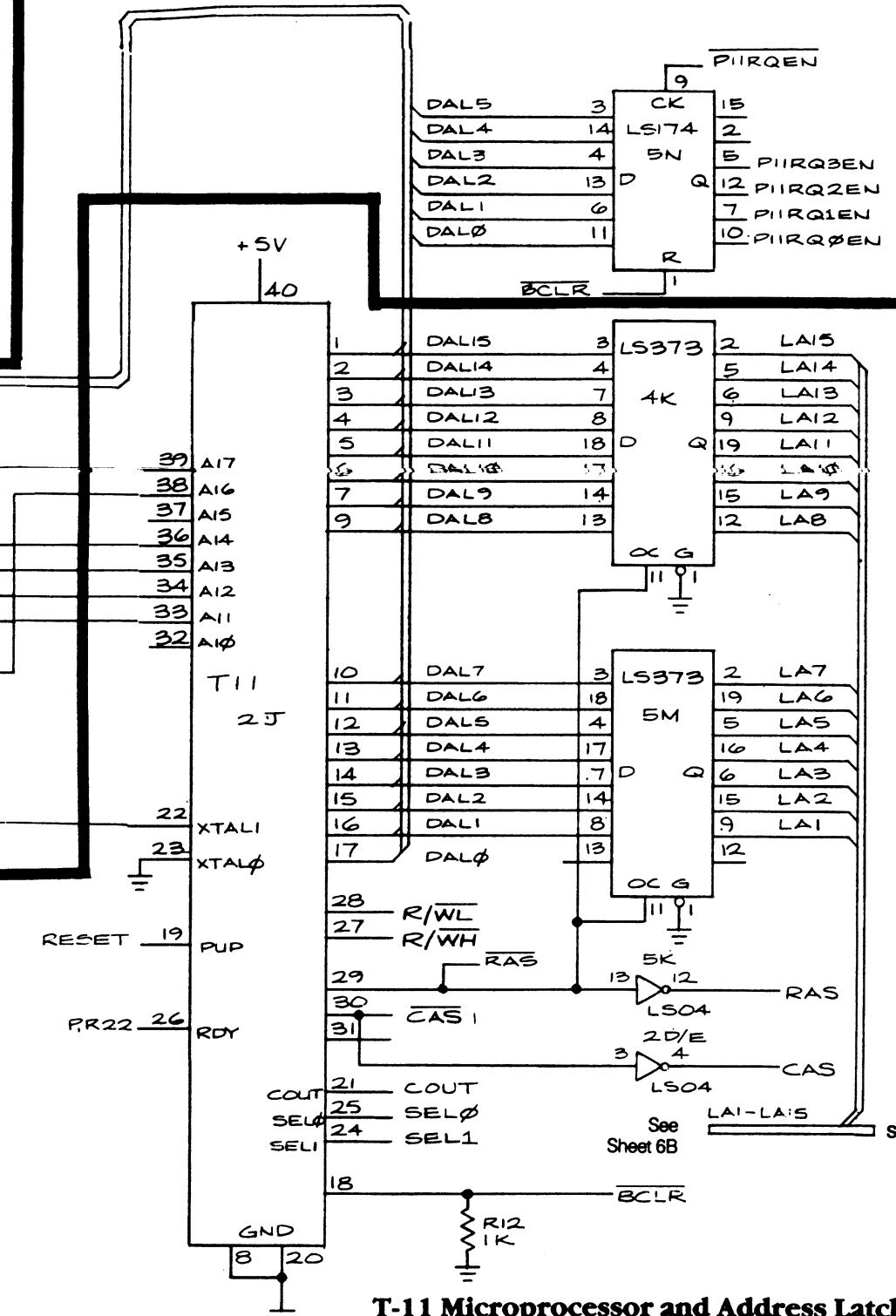
Mode Register



Clock Stretching



Interrupt Logic



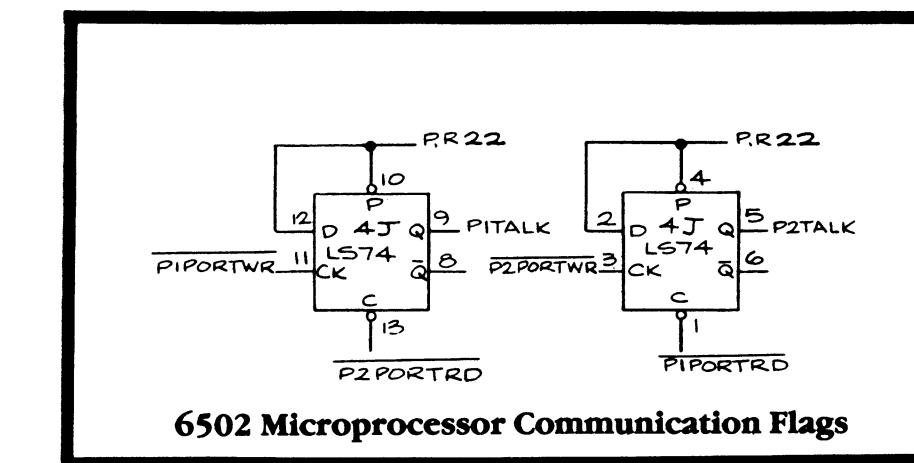
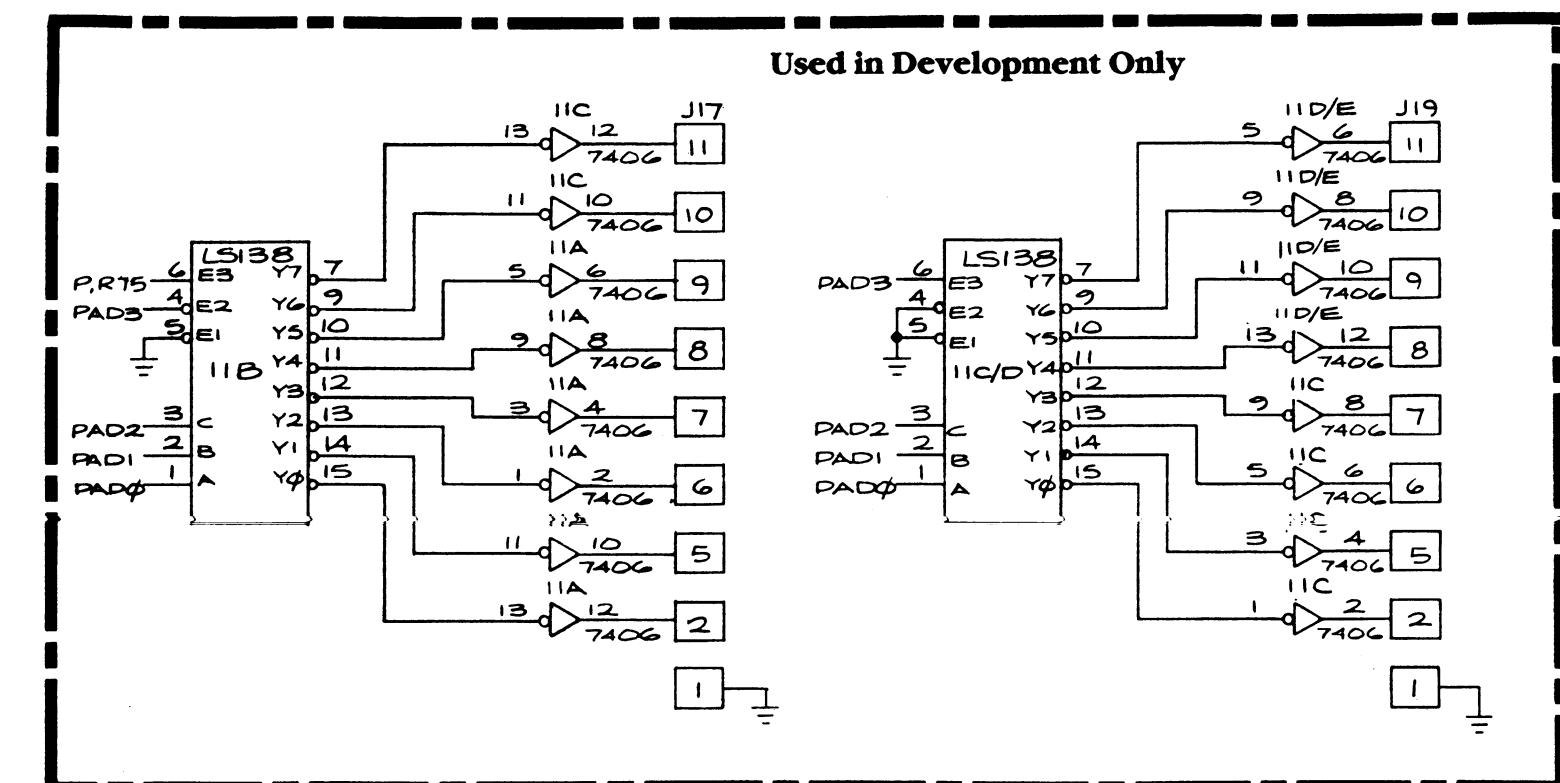
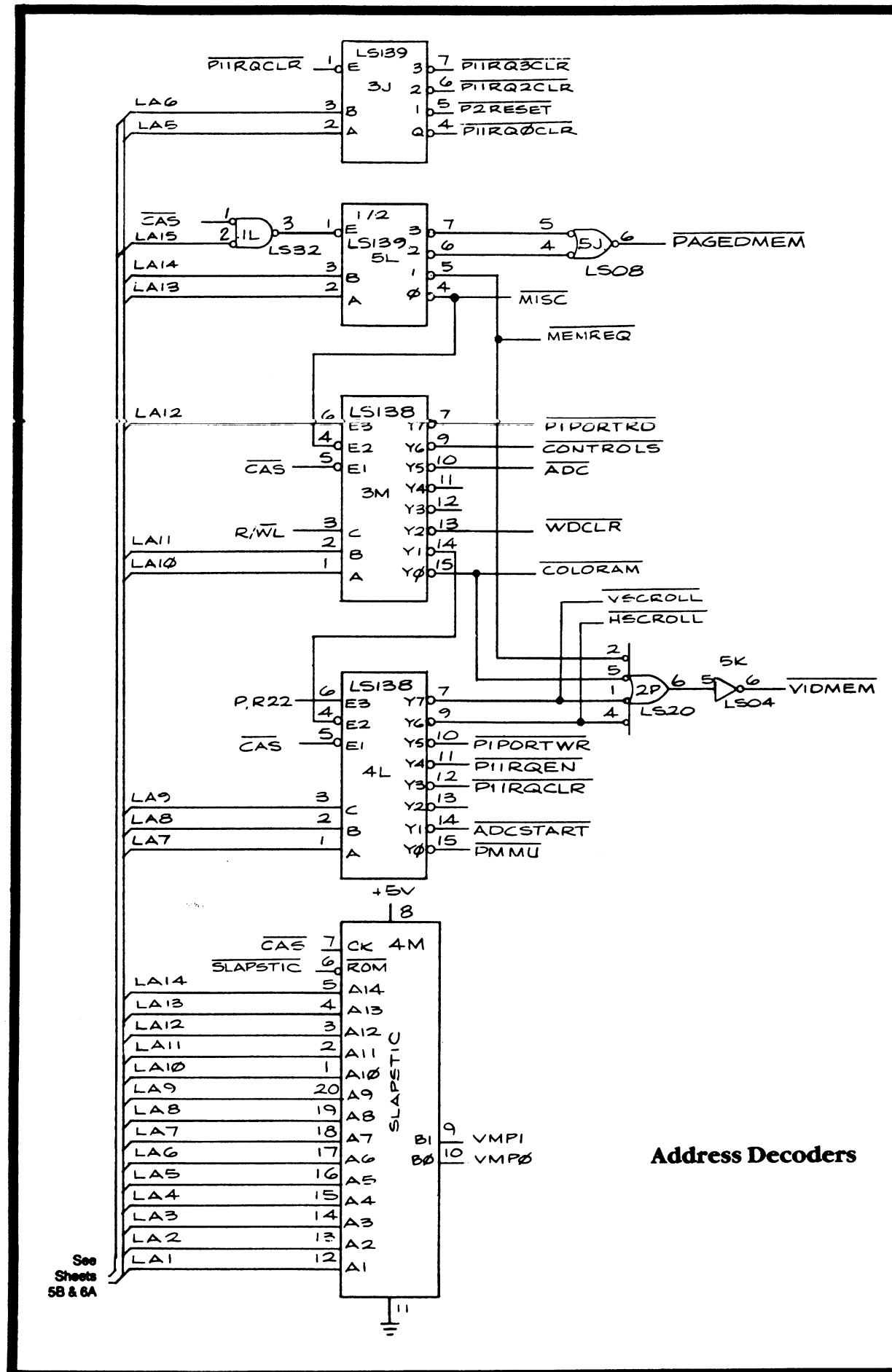
T-11 Microprocessor and Address Latches

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720° CPU PCB Schematic Diagram



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6502 Microprocessor Communication Flags

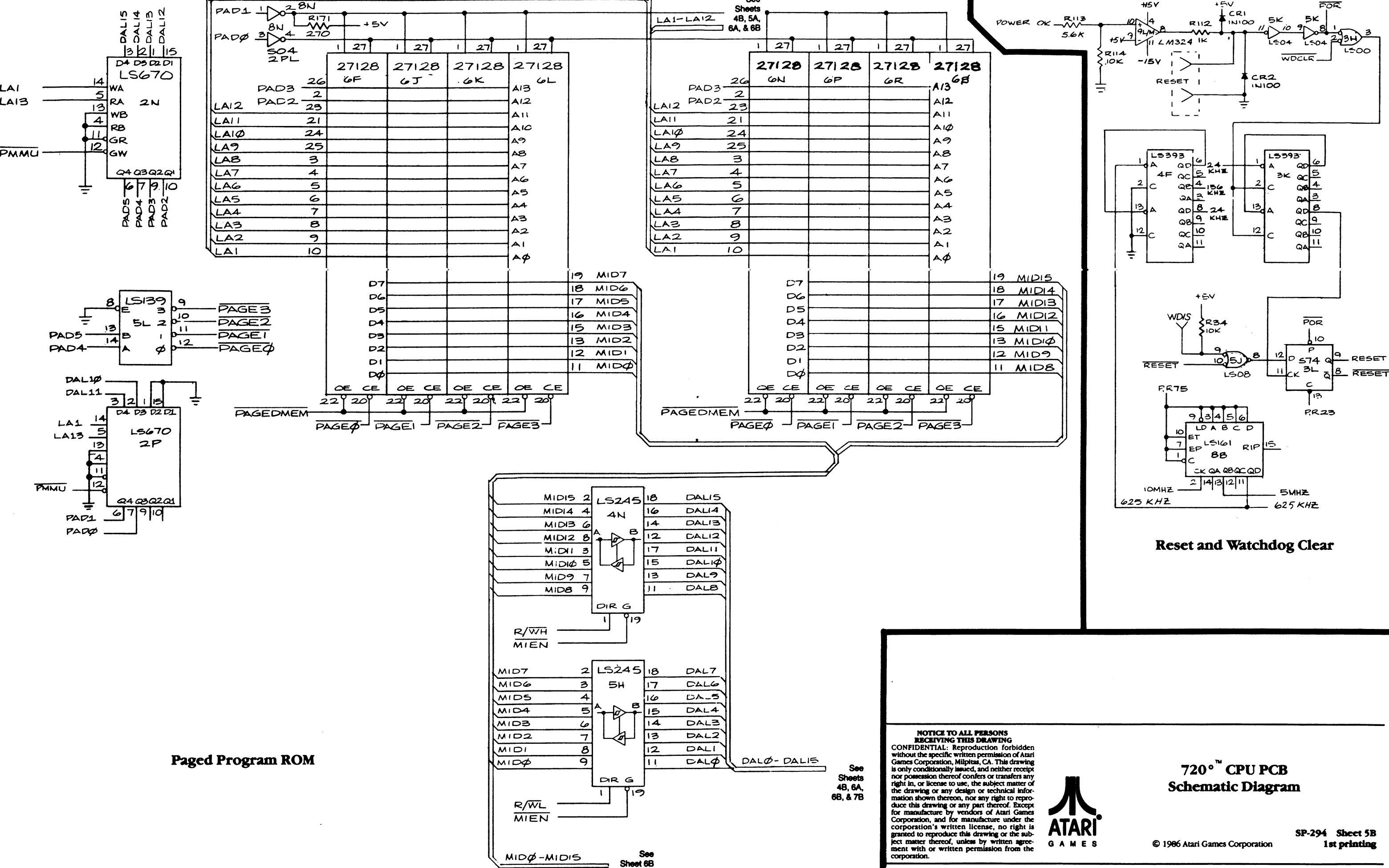
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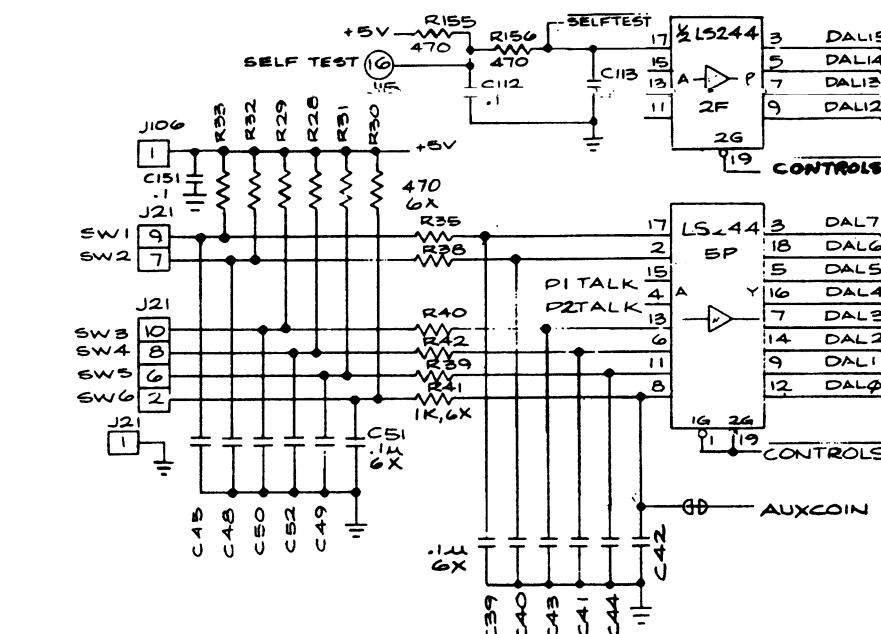
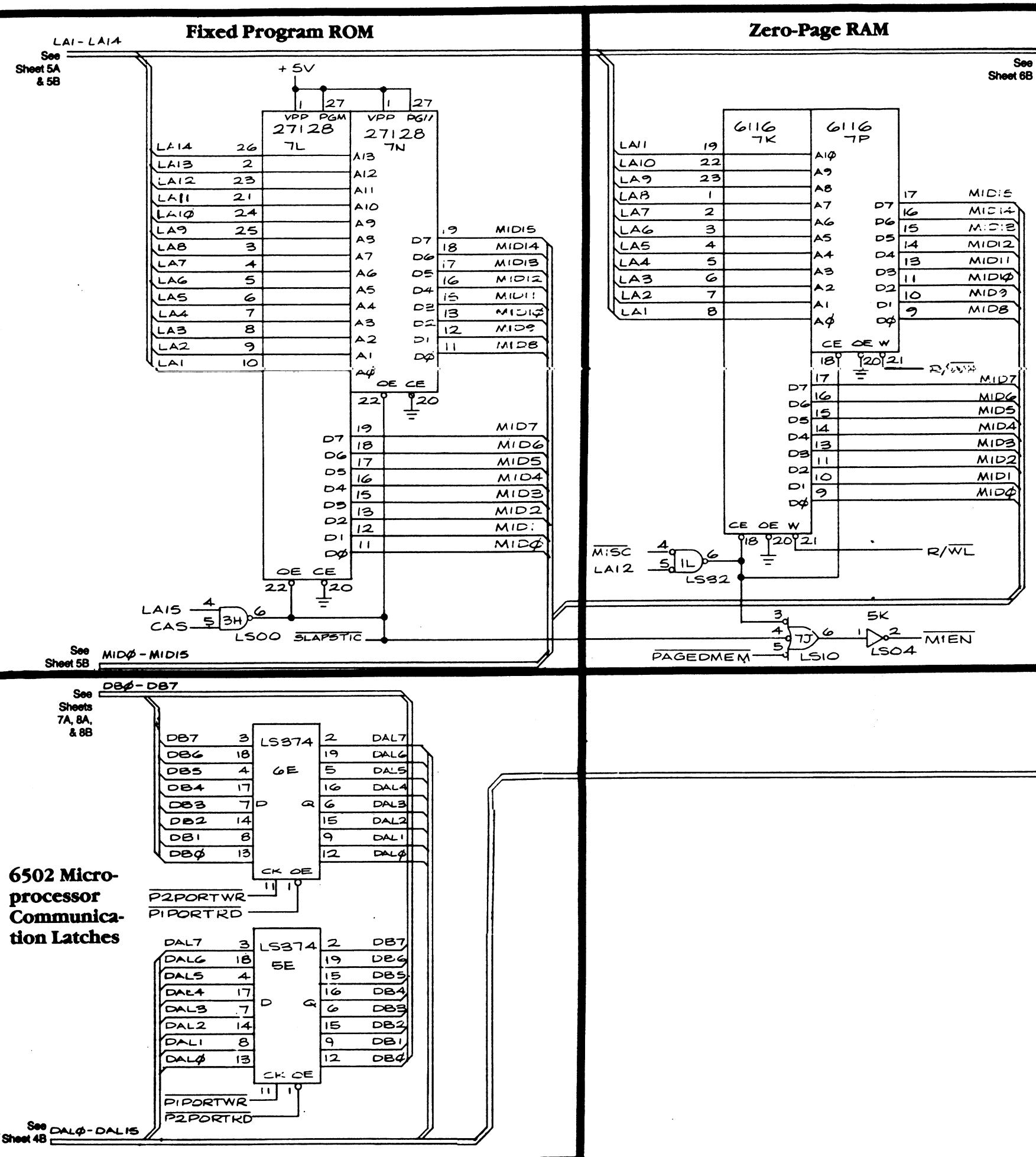


720°™ CPU PCB
Schematic Diagram

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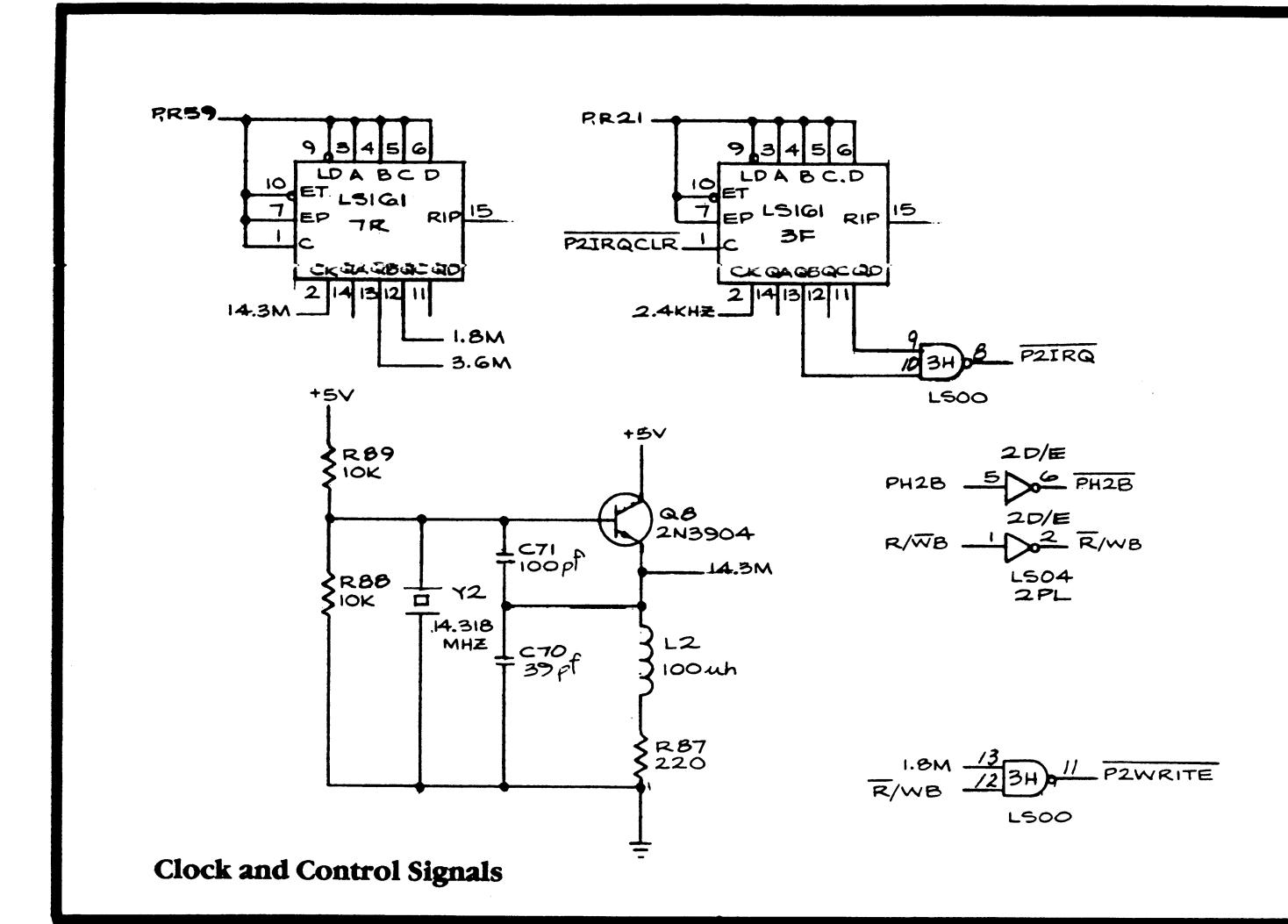
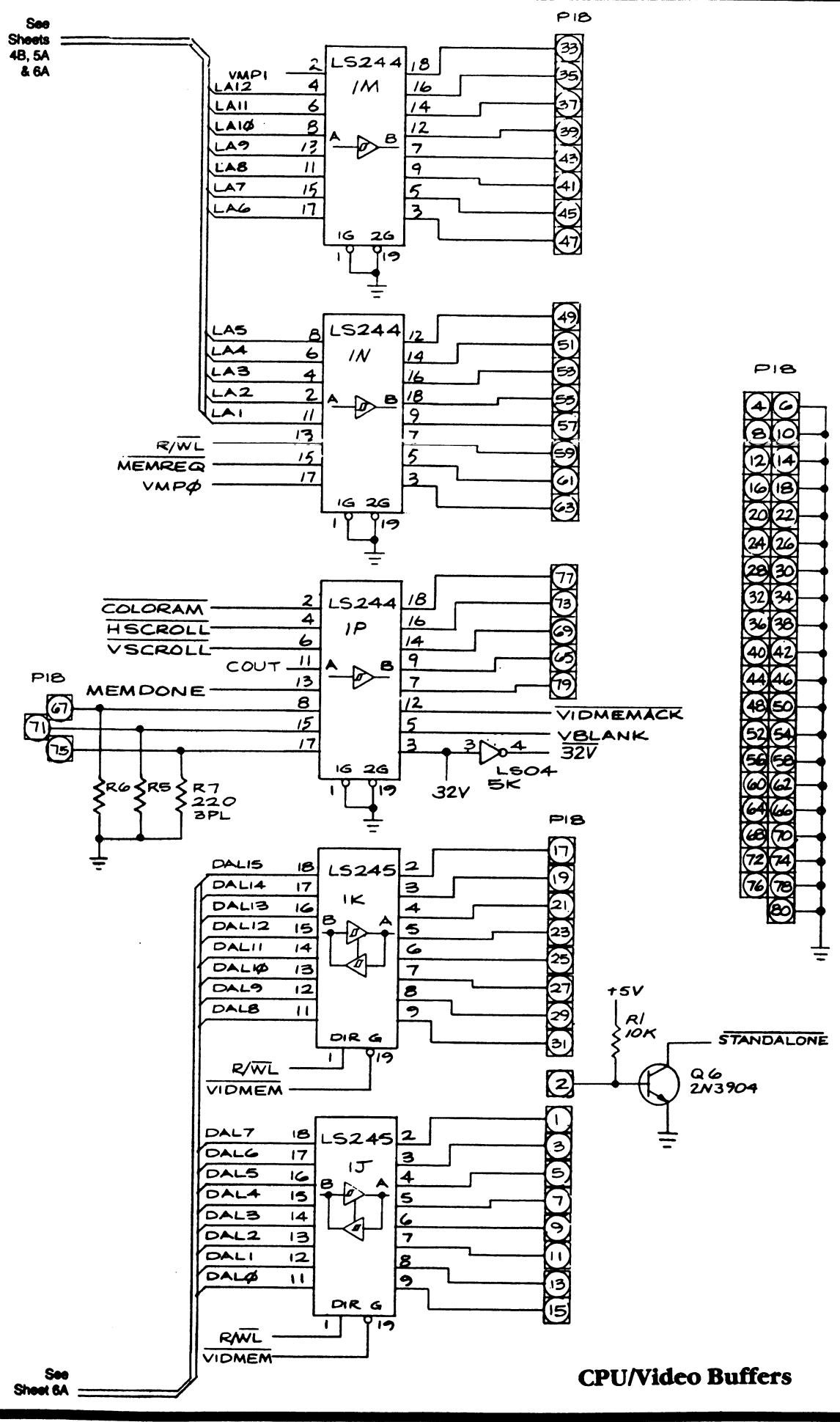
Control Panel Inputs

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720°™ CPU PCB Schematic Diagram





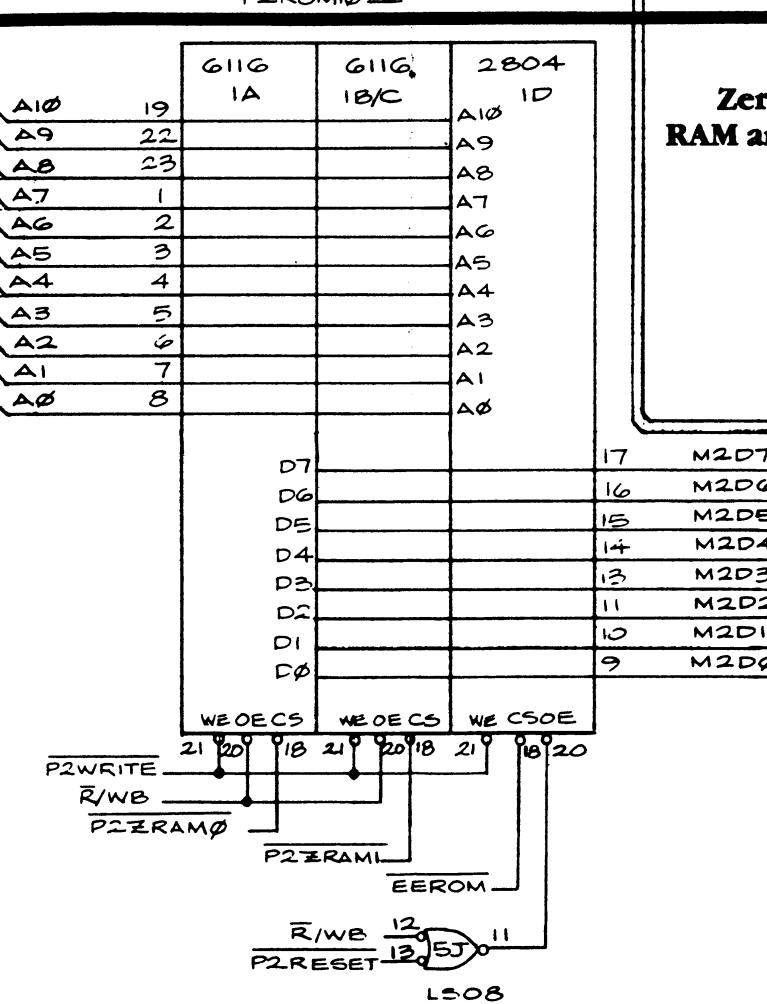
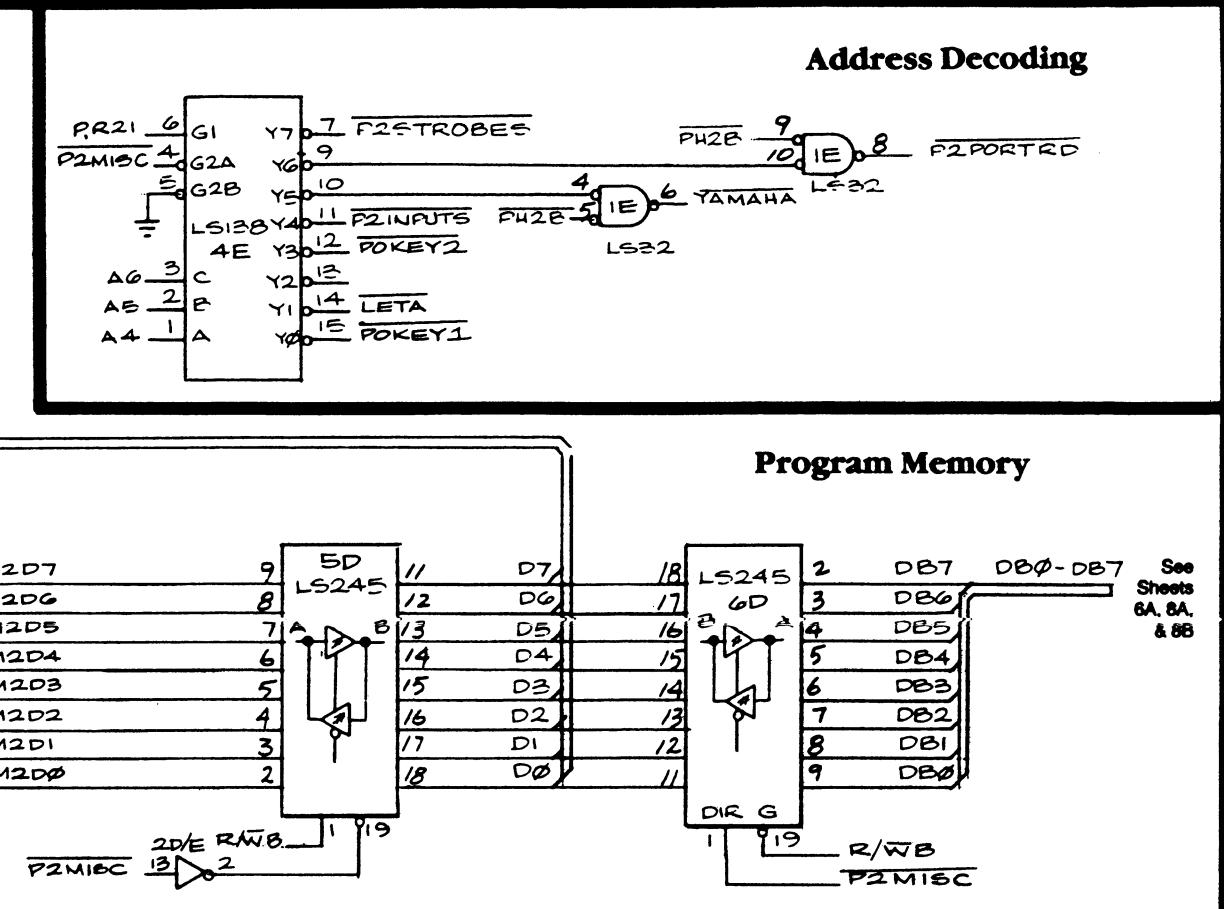
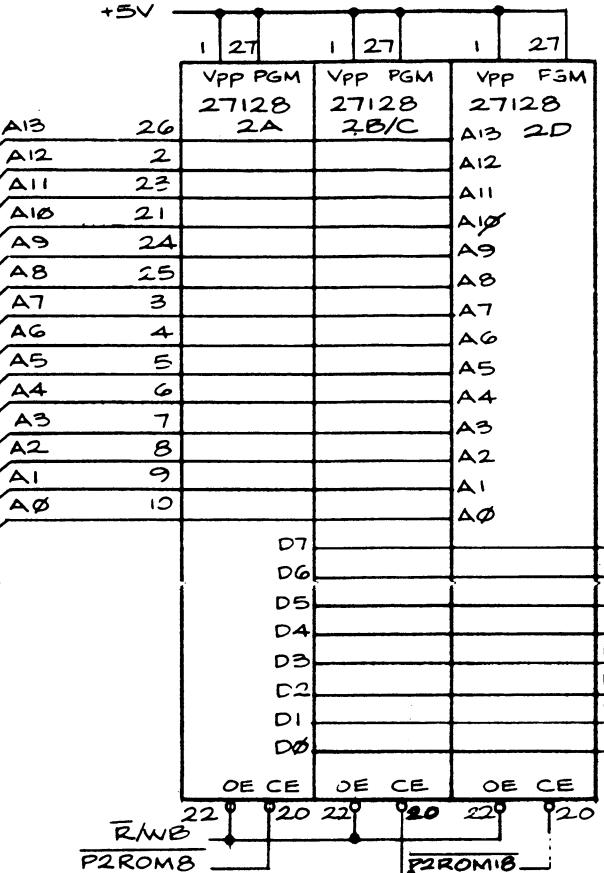
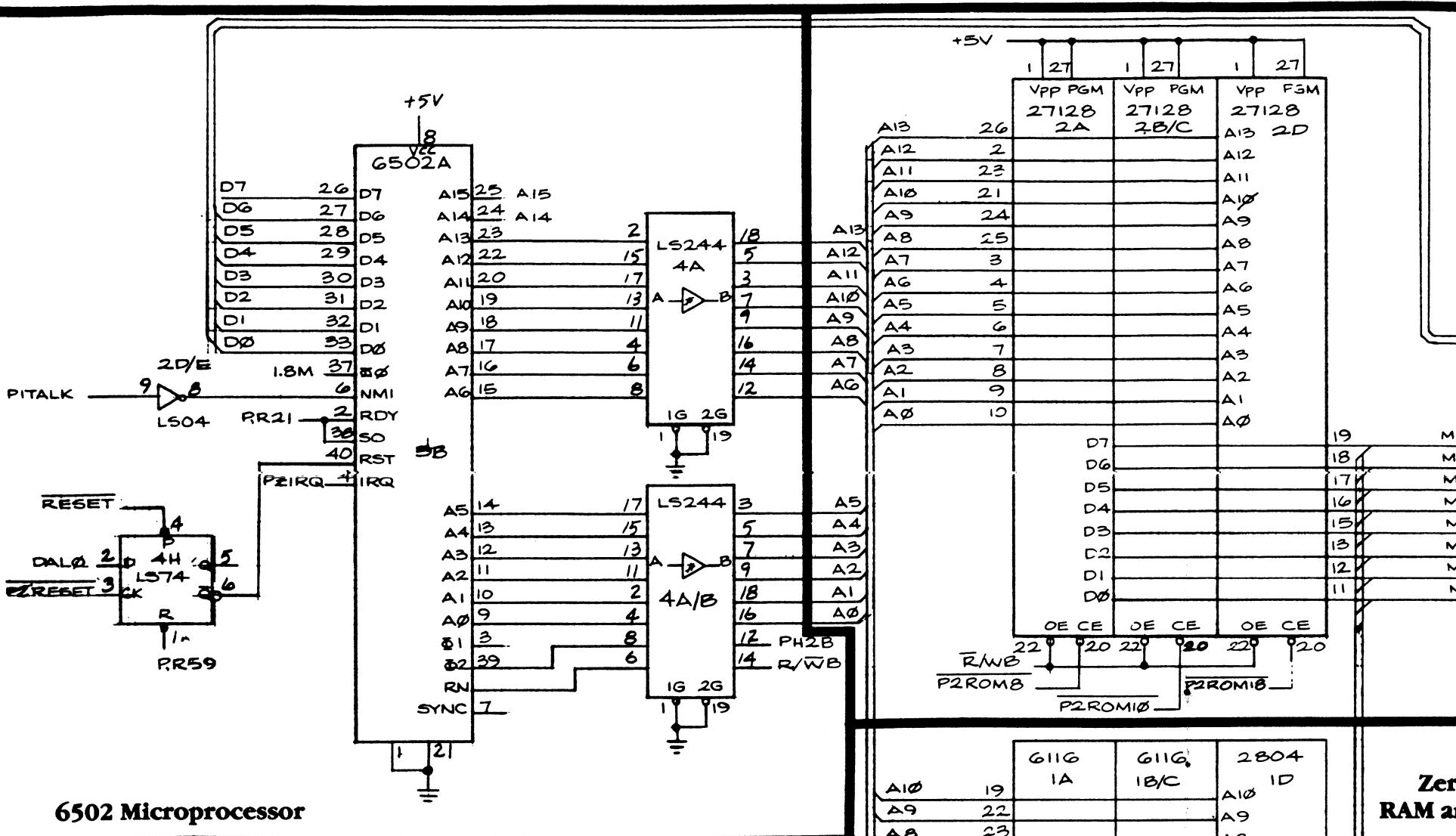
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720°™ CPU PCB Schematic Diagram



Address Decoding



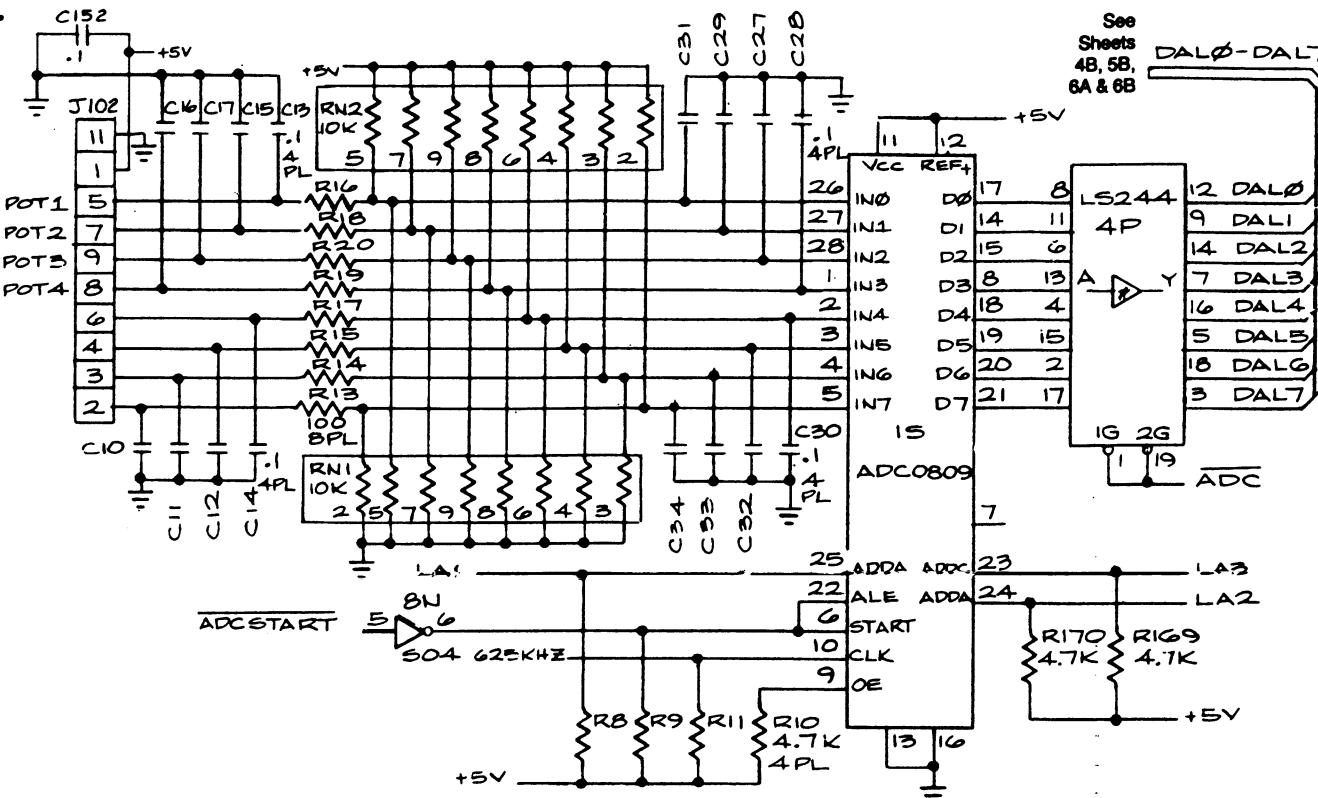
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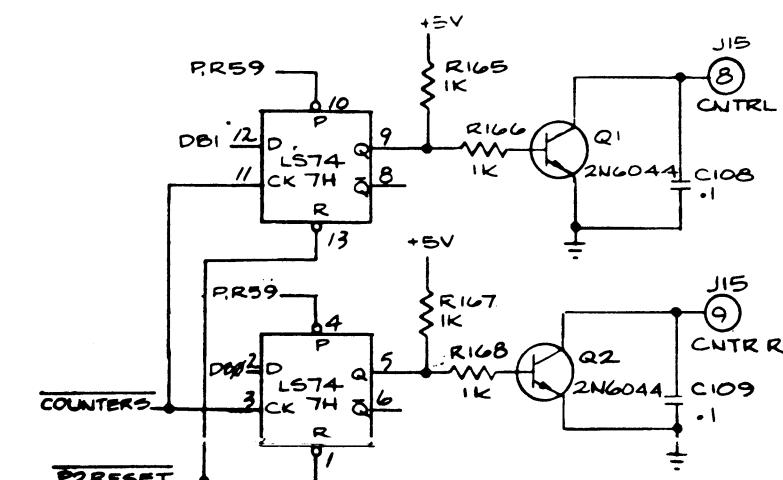


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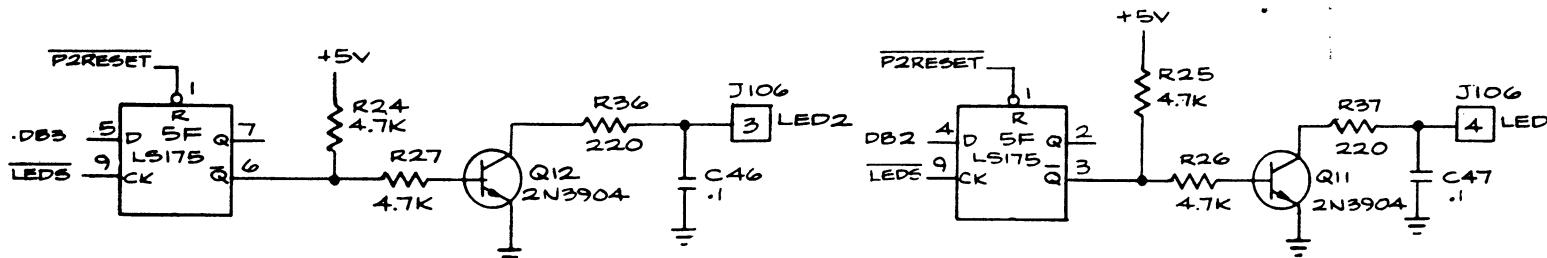
A/D Converter



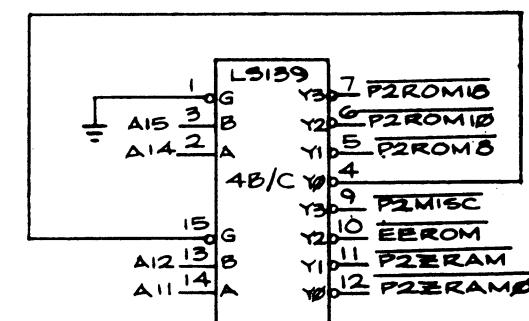
Coin Counters



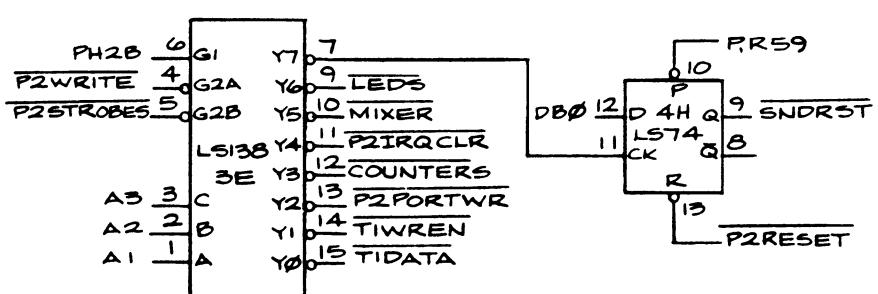
LED Drivers



Address Decoding



Address Decoding



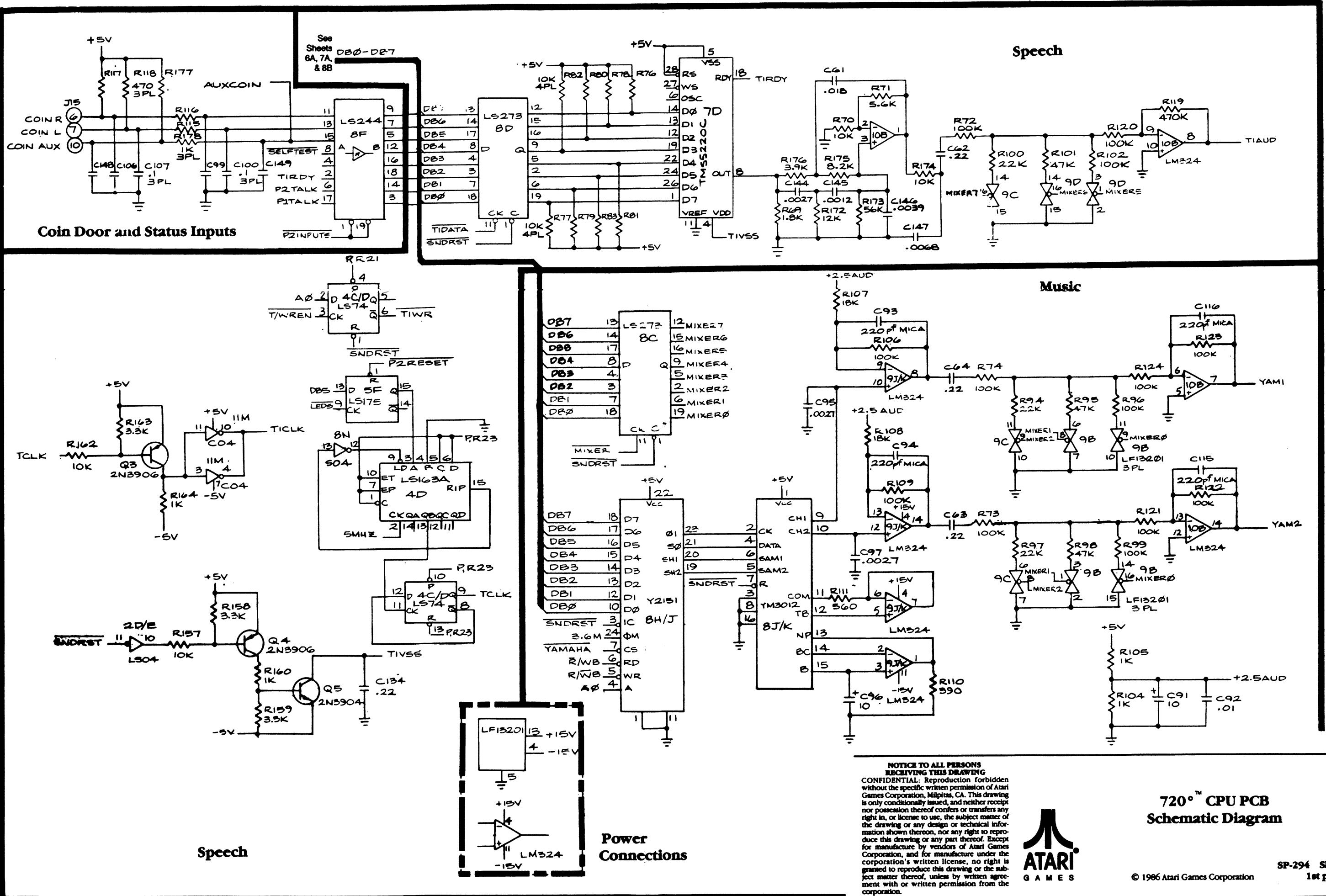
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720°™ CPU PCB
Schematic Diagram



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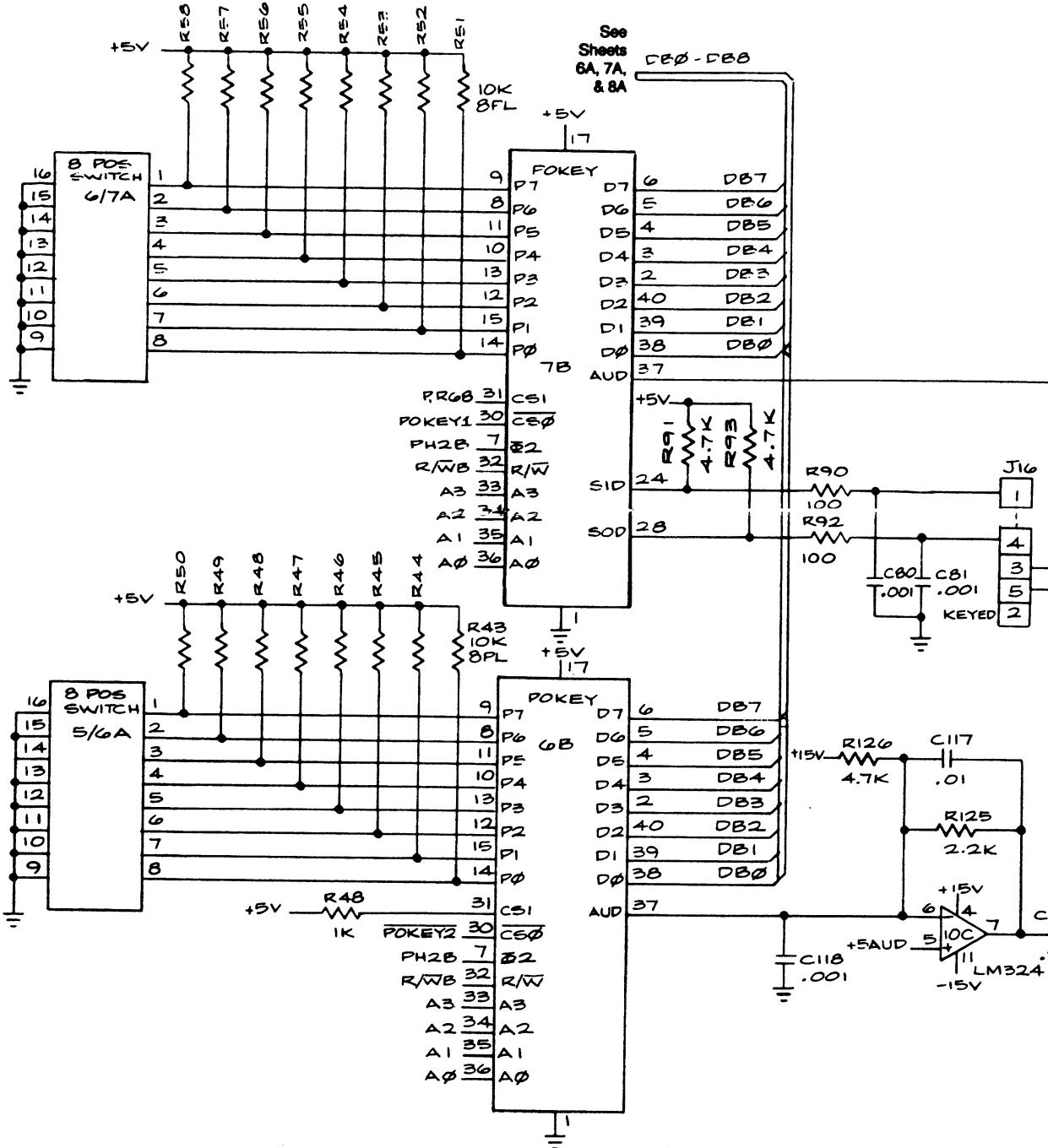
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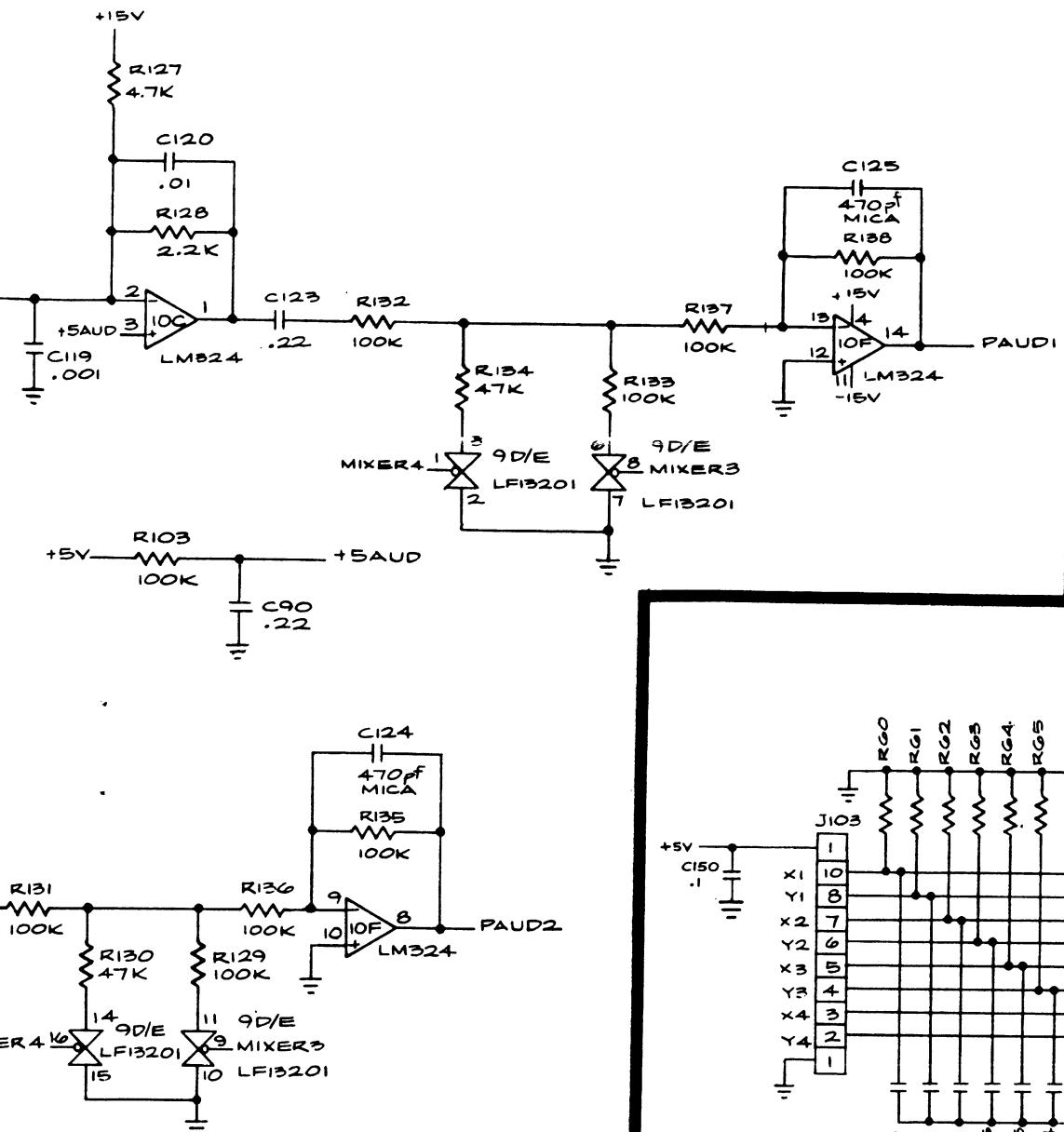
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720°™ CPU PCB Schematic Diagram

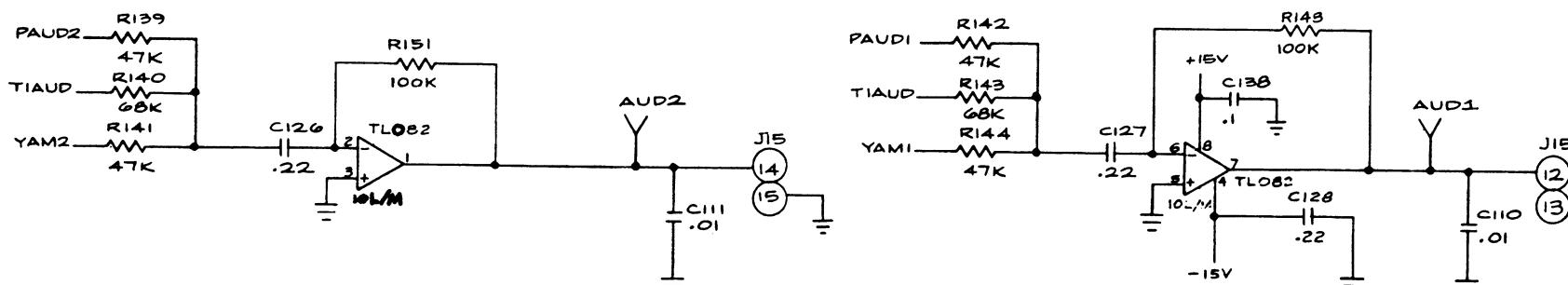




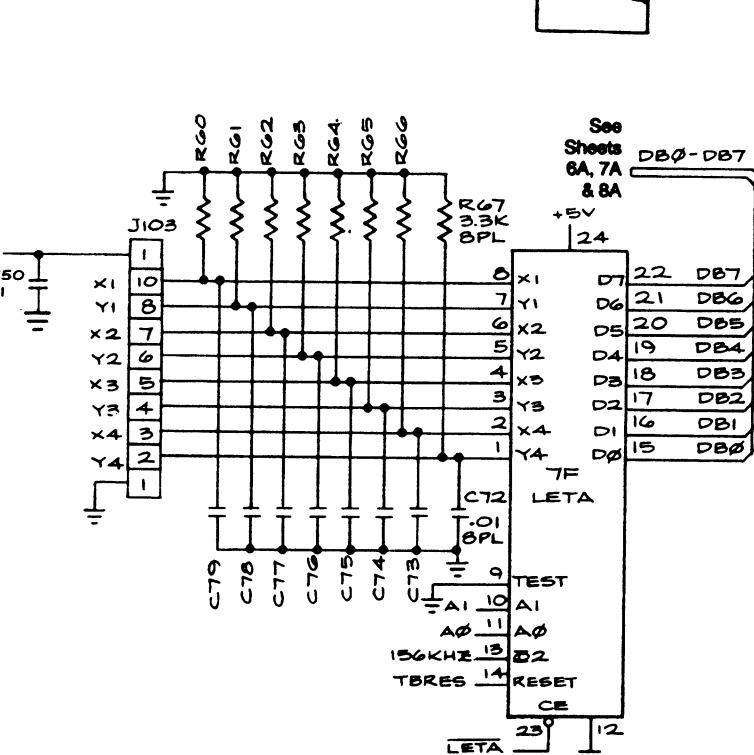
Sound Effects Option Switches



Steering Wheel Inputs

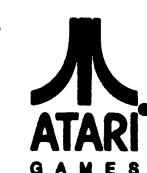


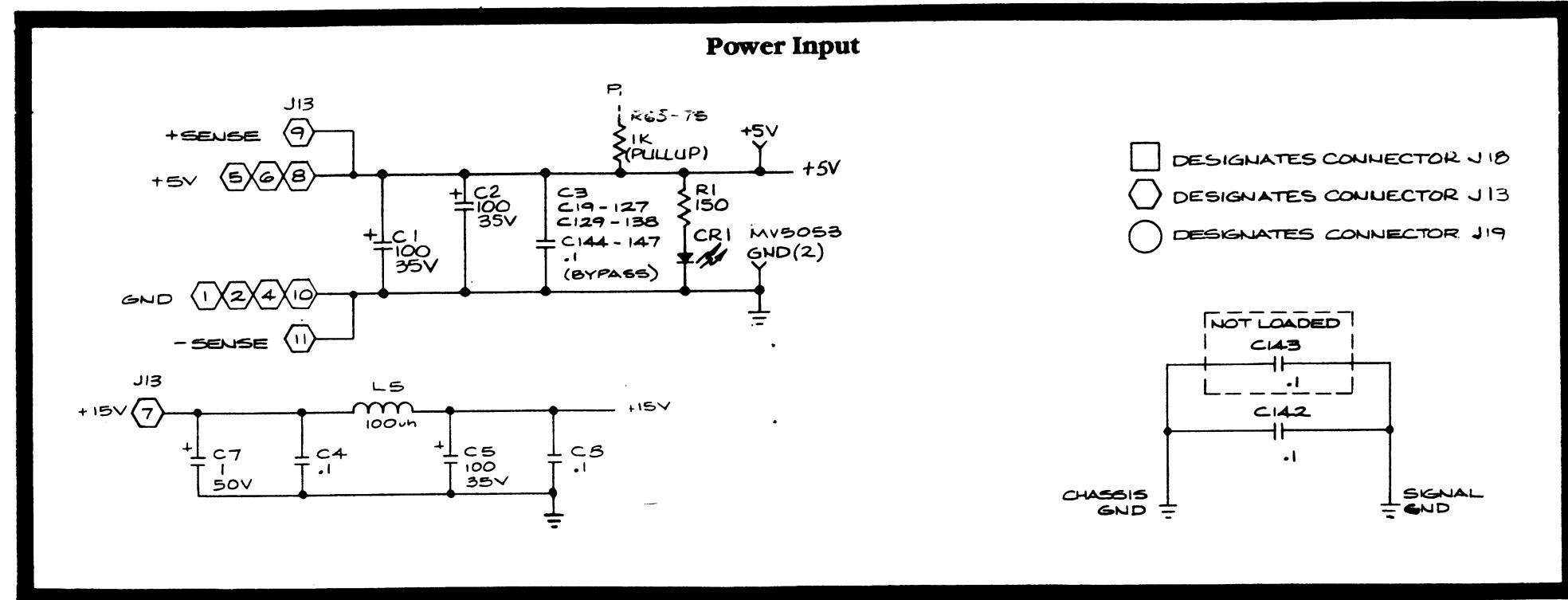
Audio Output Drivers



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720°™ CPU PCB
Schematic Diagram





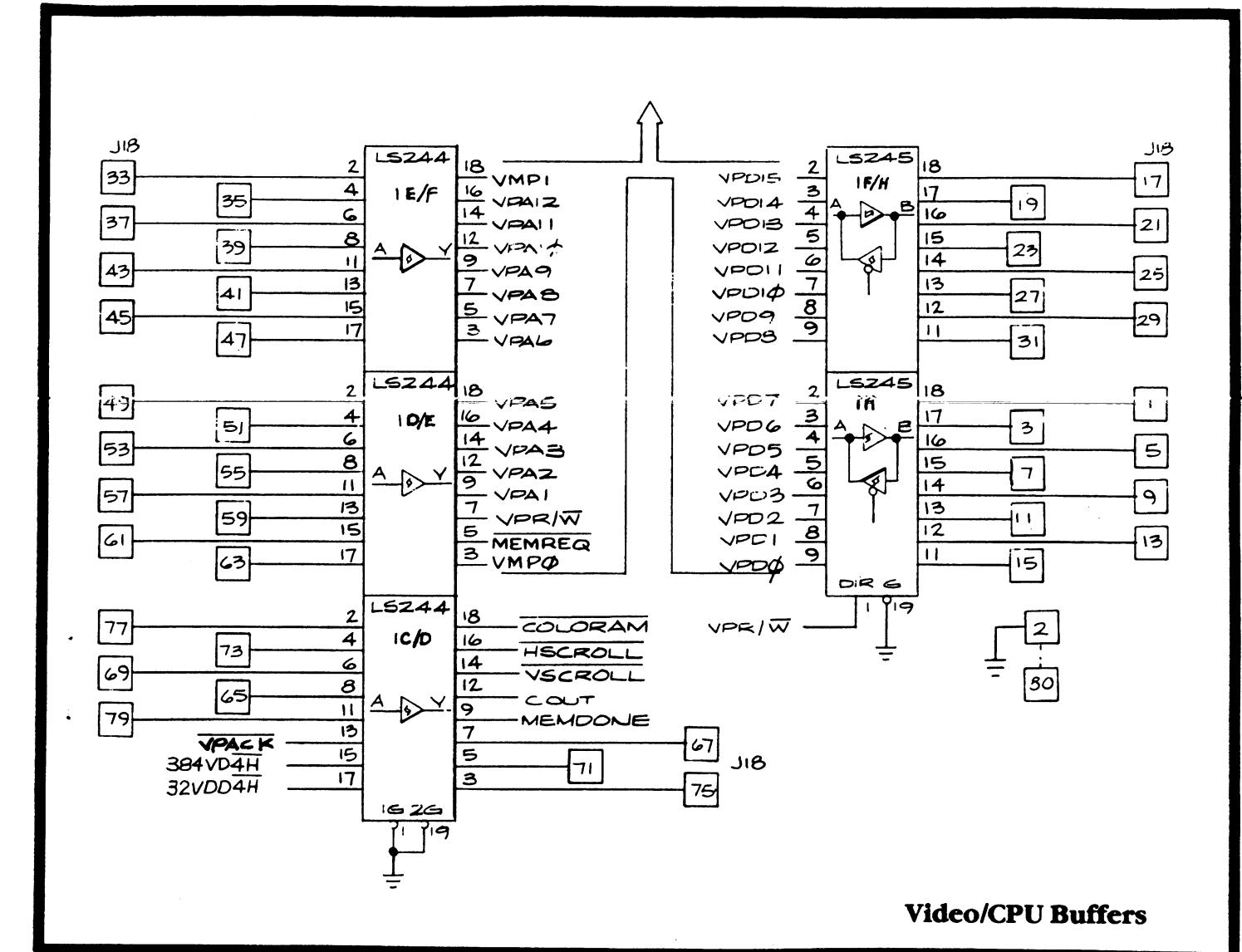
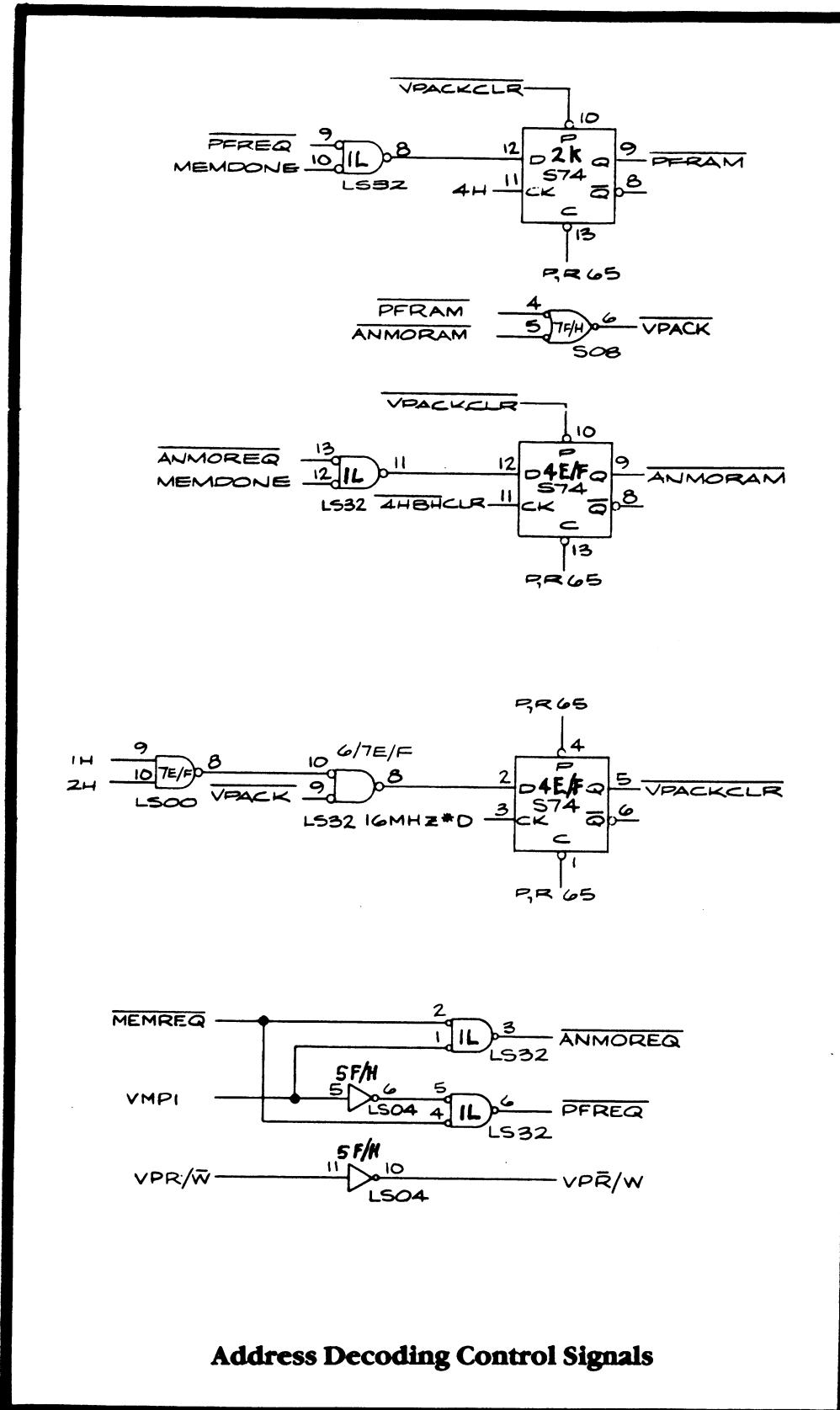
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720°™ Video PCB
Schematic Diagram



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Video/CPU Buffers

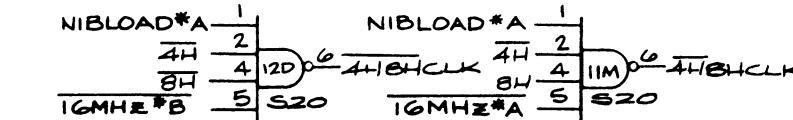
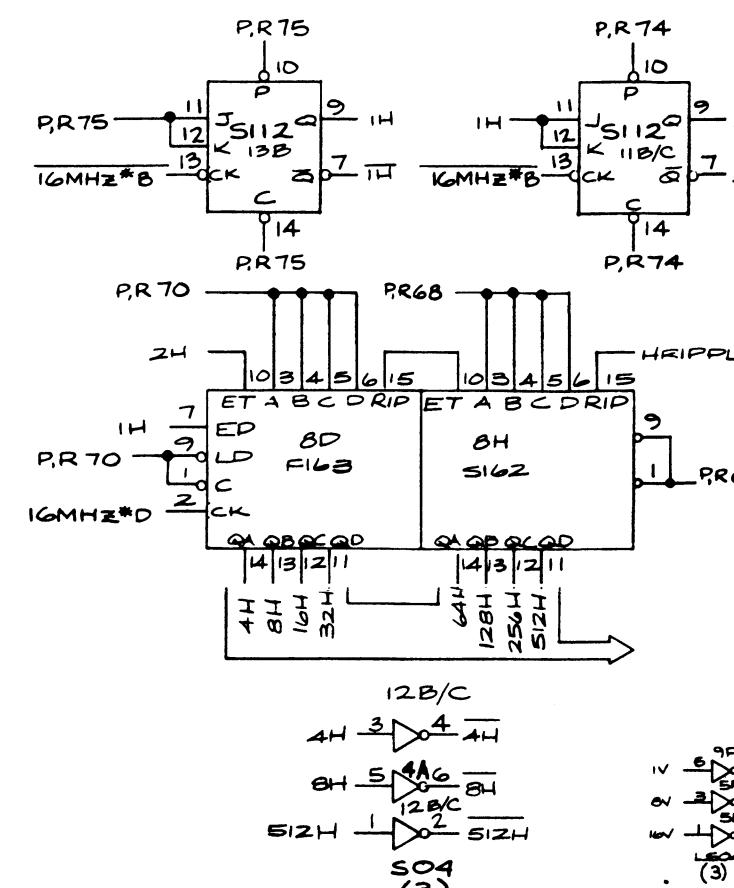
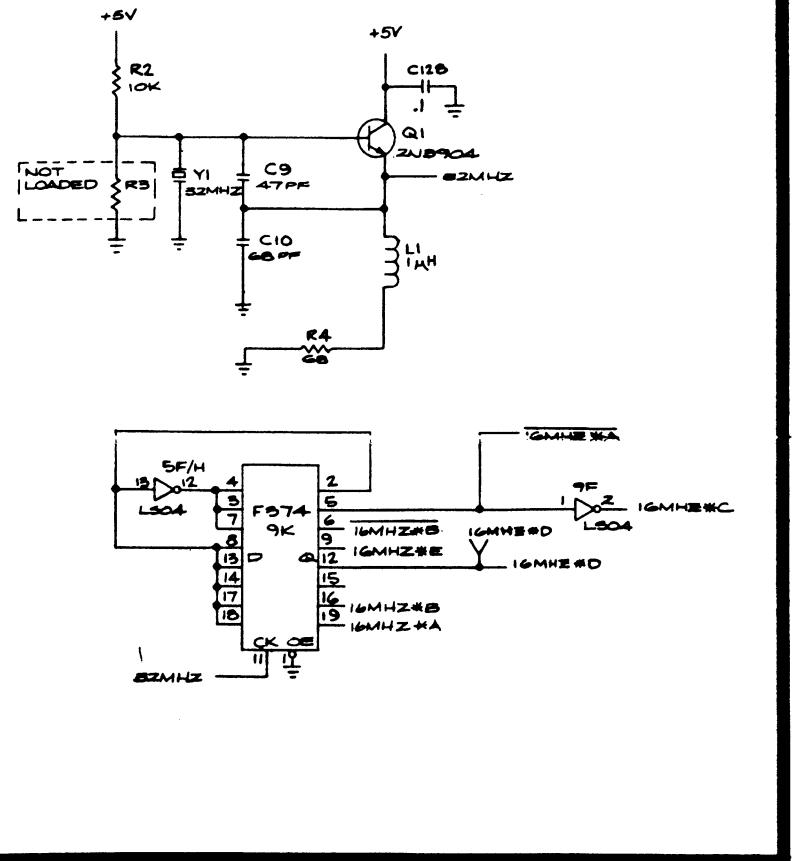
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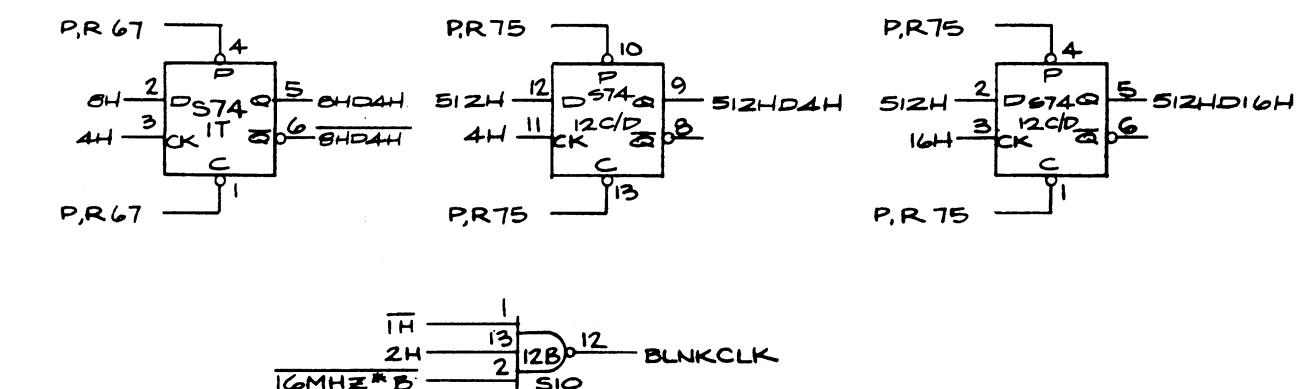
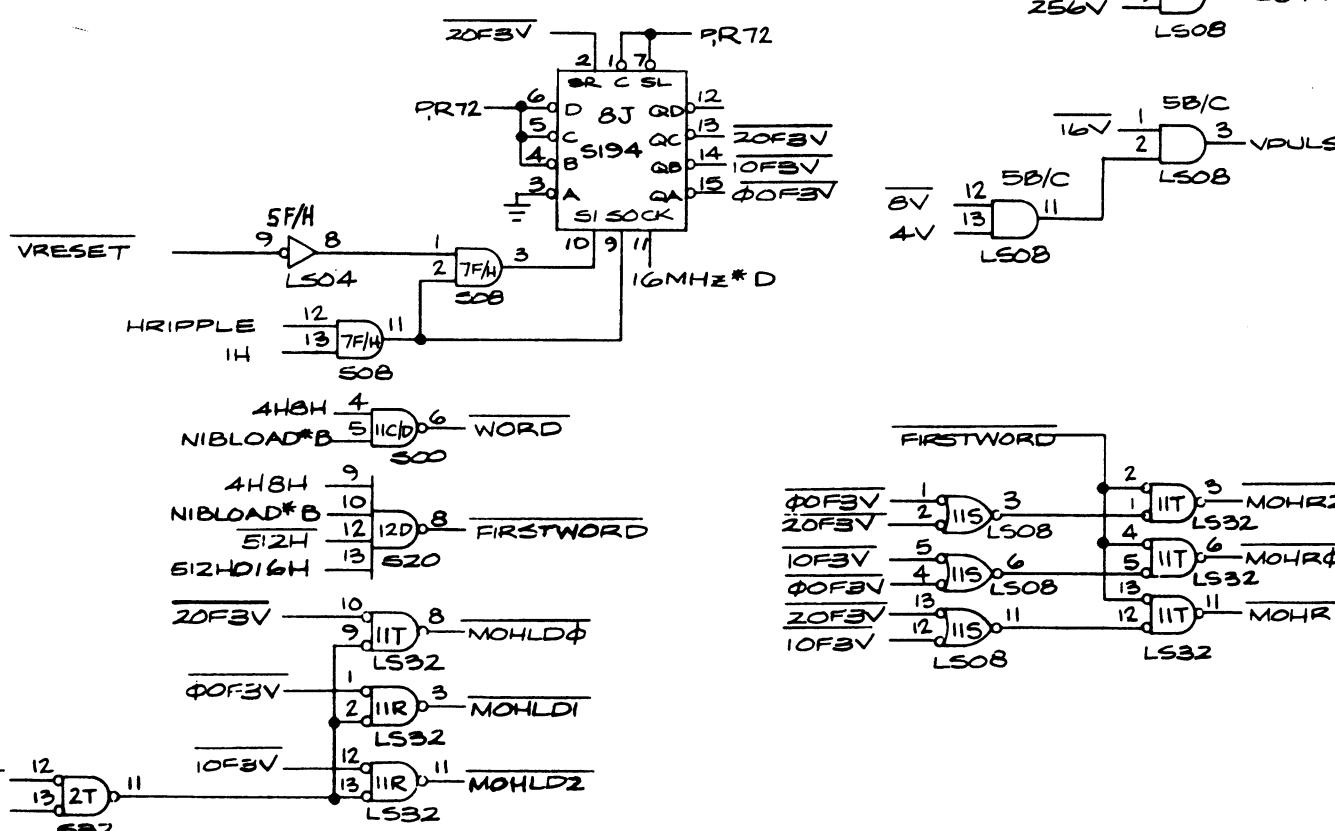
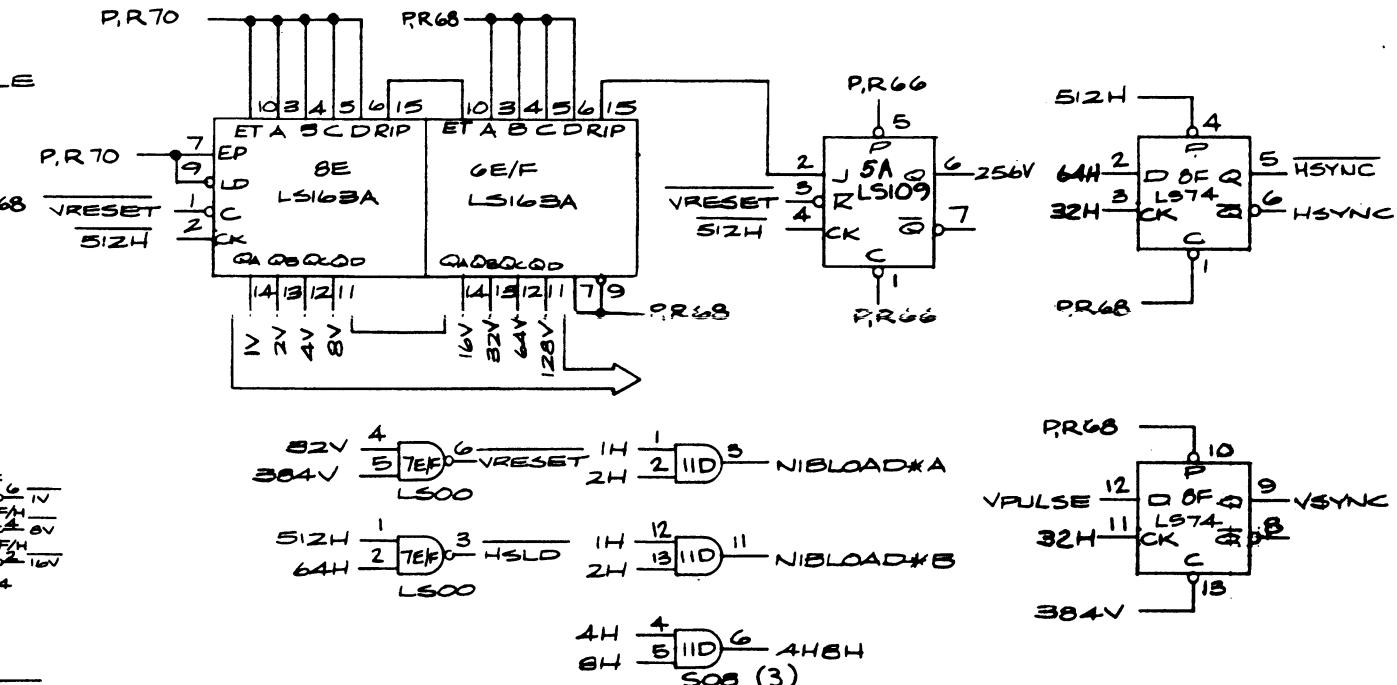


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Video Clock



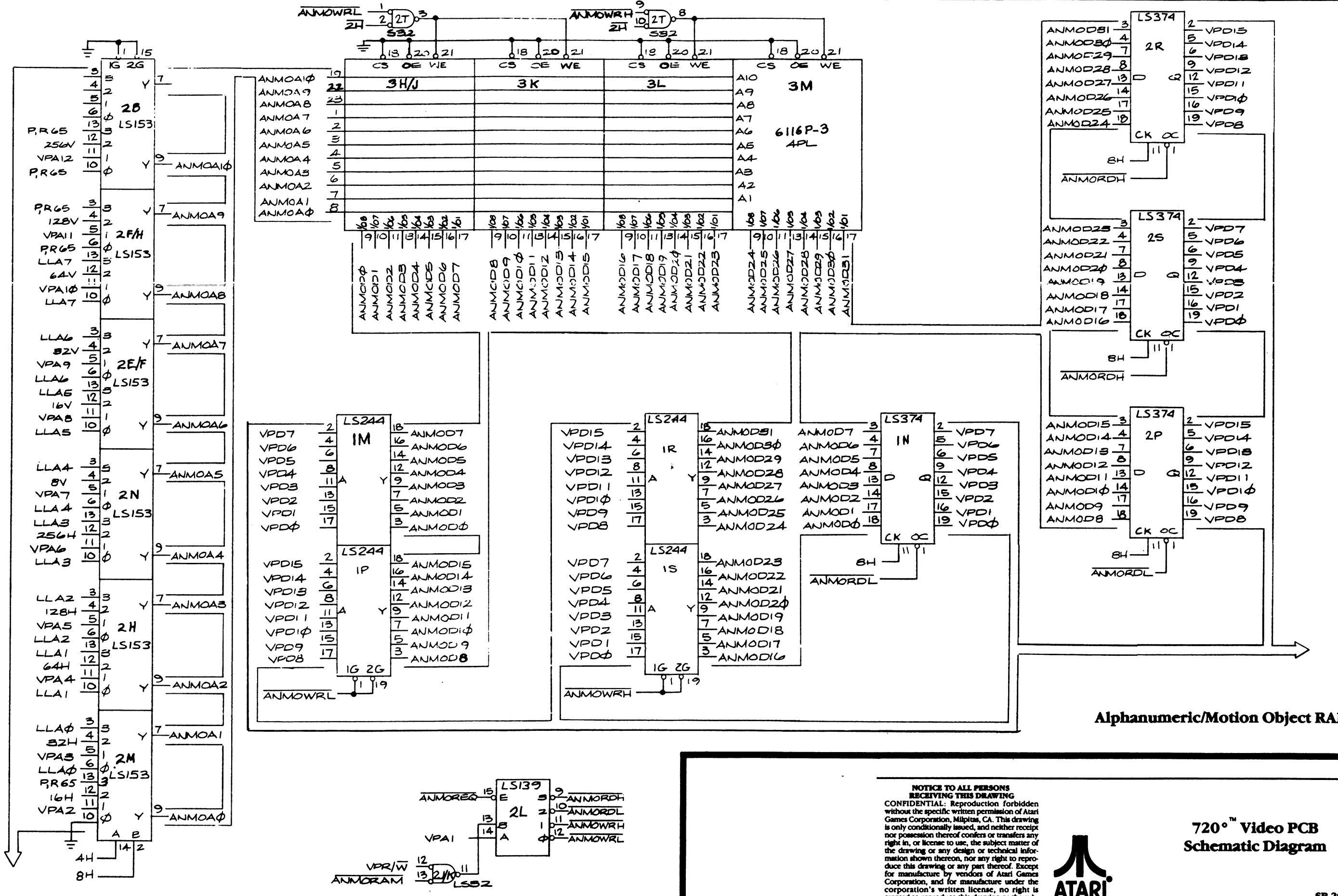
Sync Chain and Timing Strobes

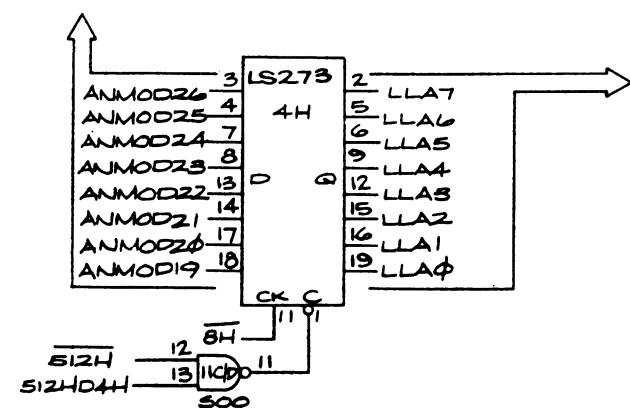
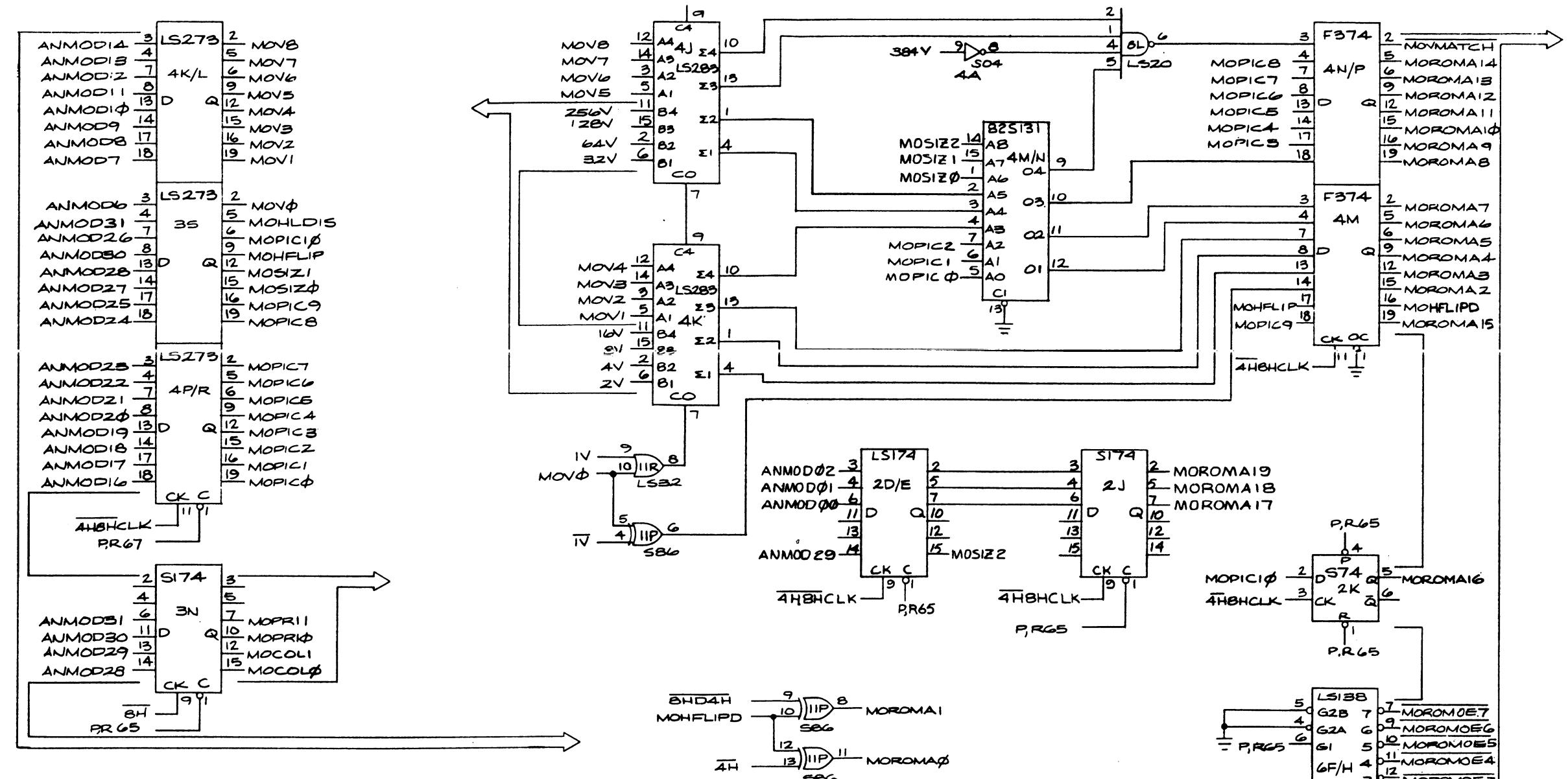


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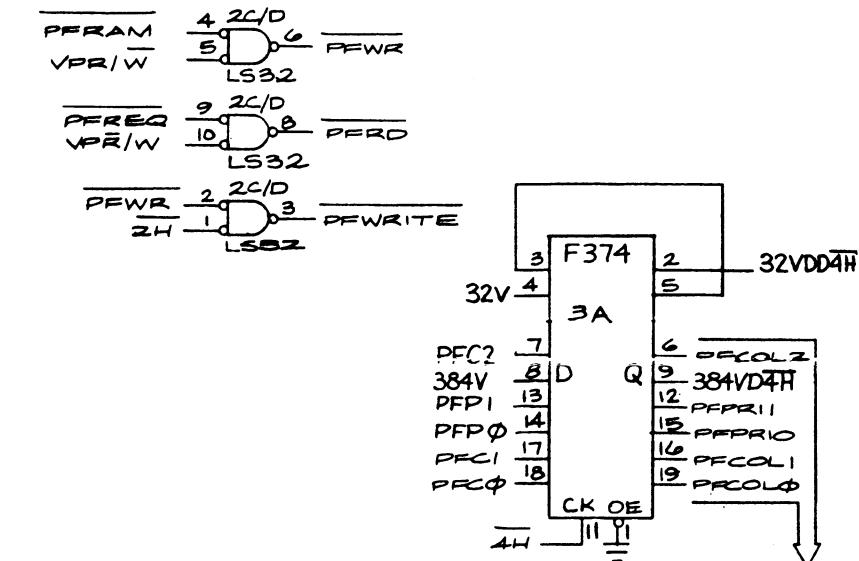
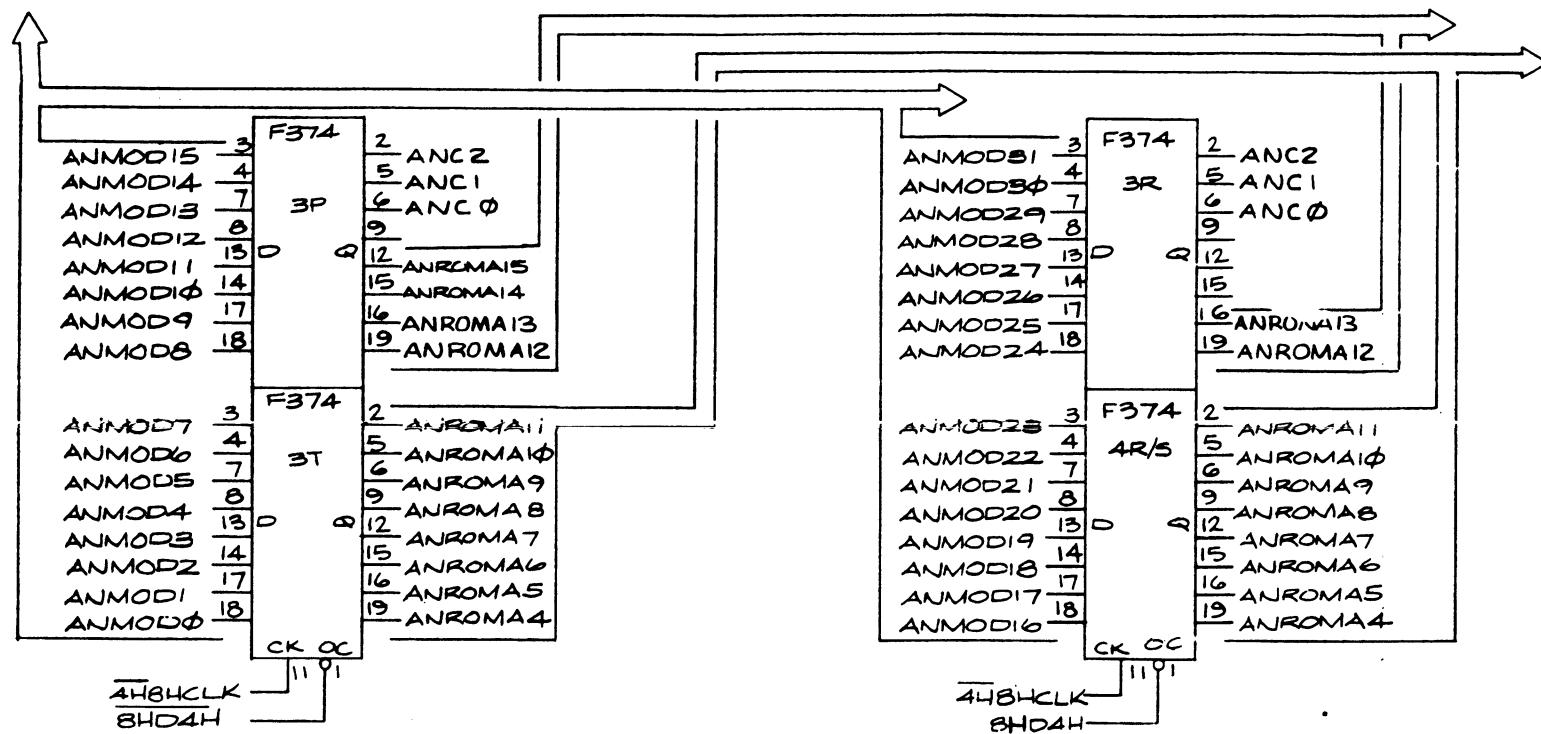


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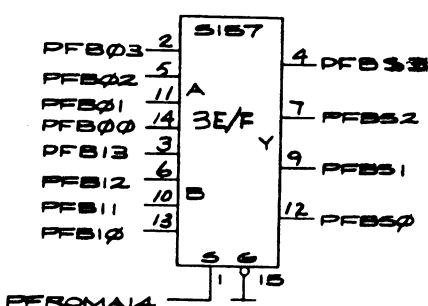
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Alphanumeric ROM Addressing



Playfield Data Latch Strobes



Playfield Bank Select

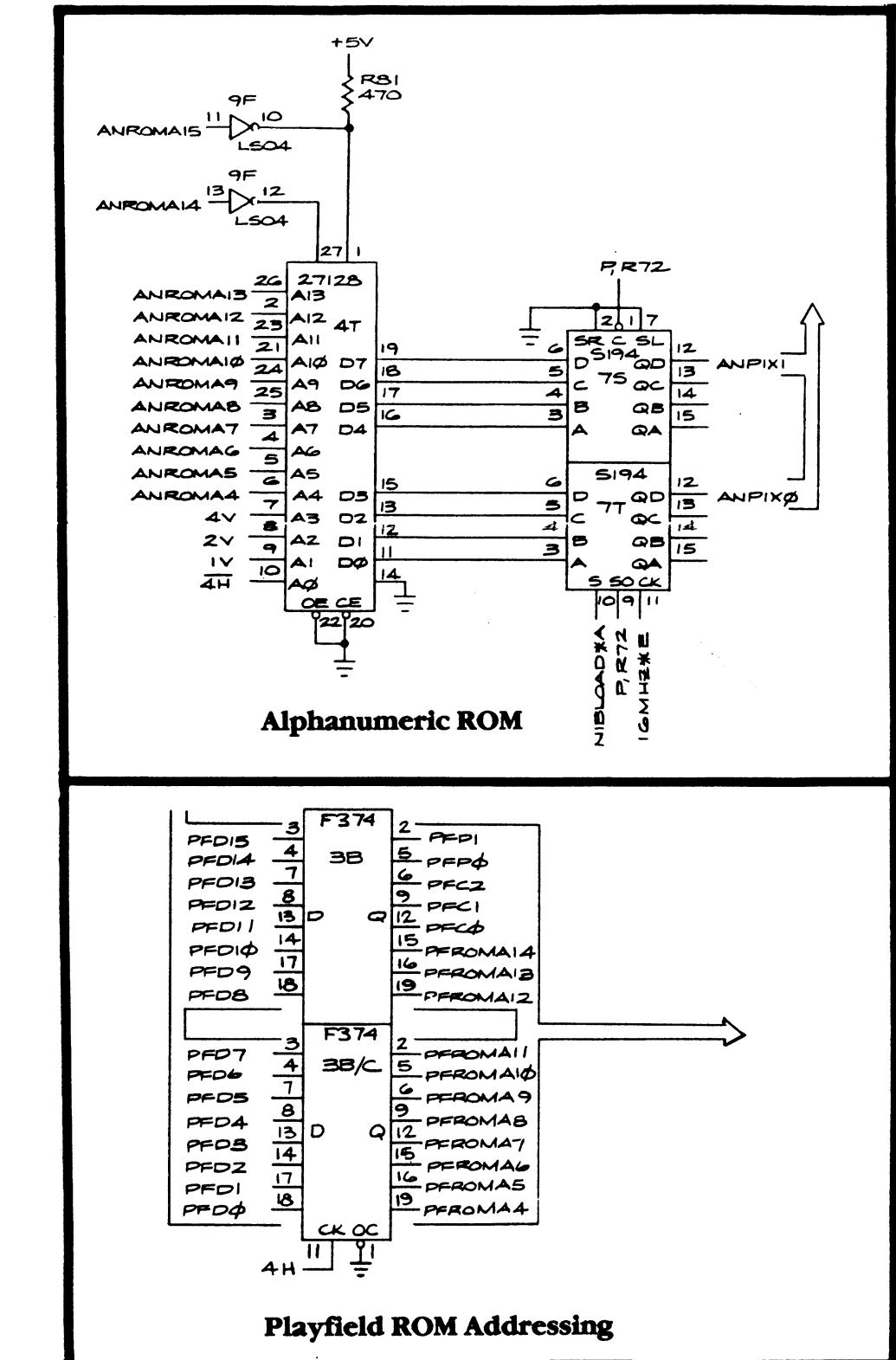
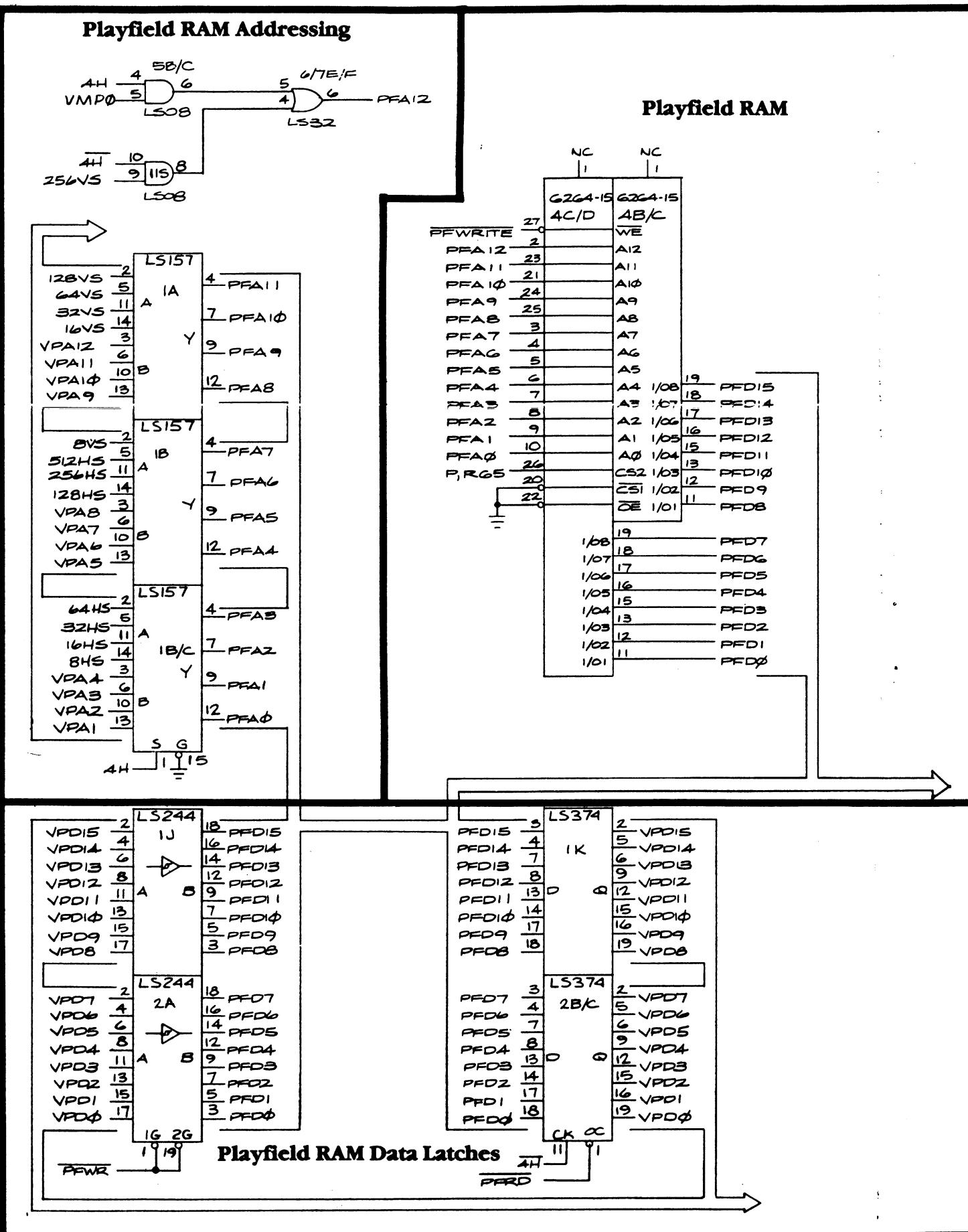
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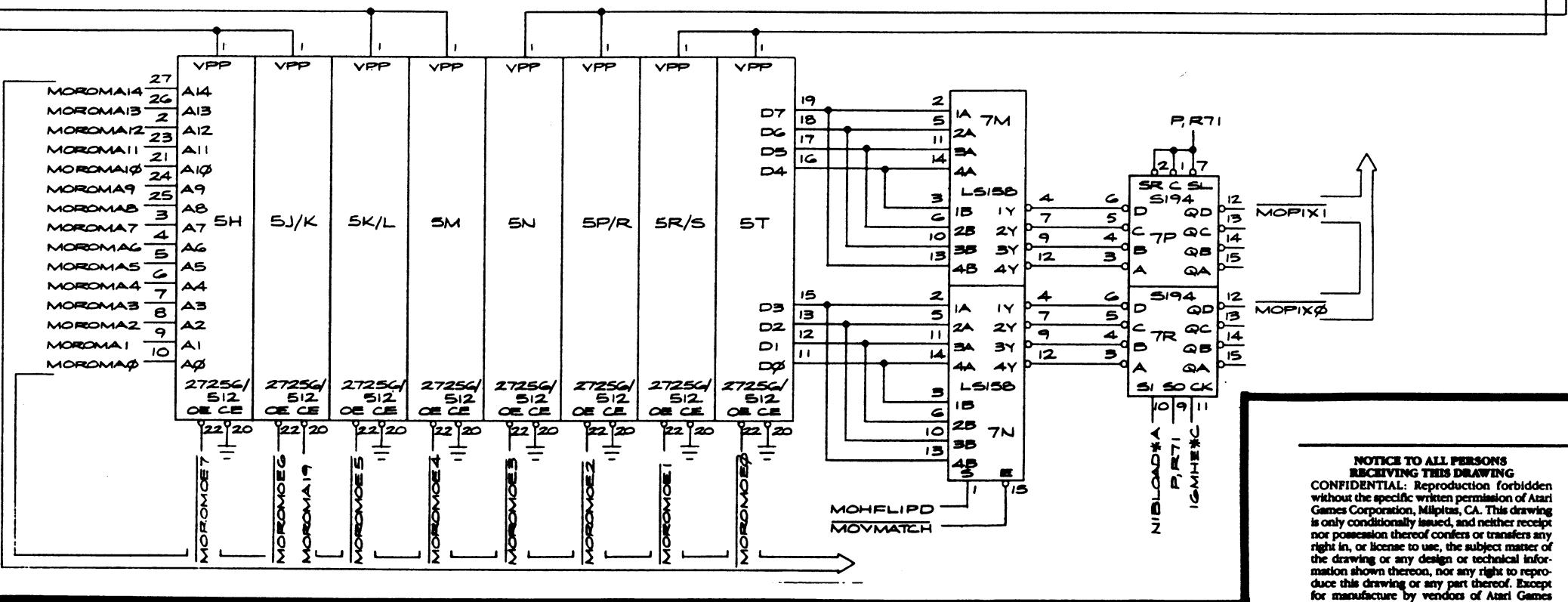
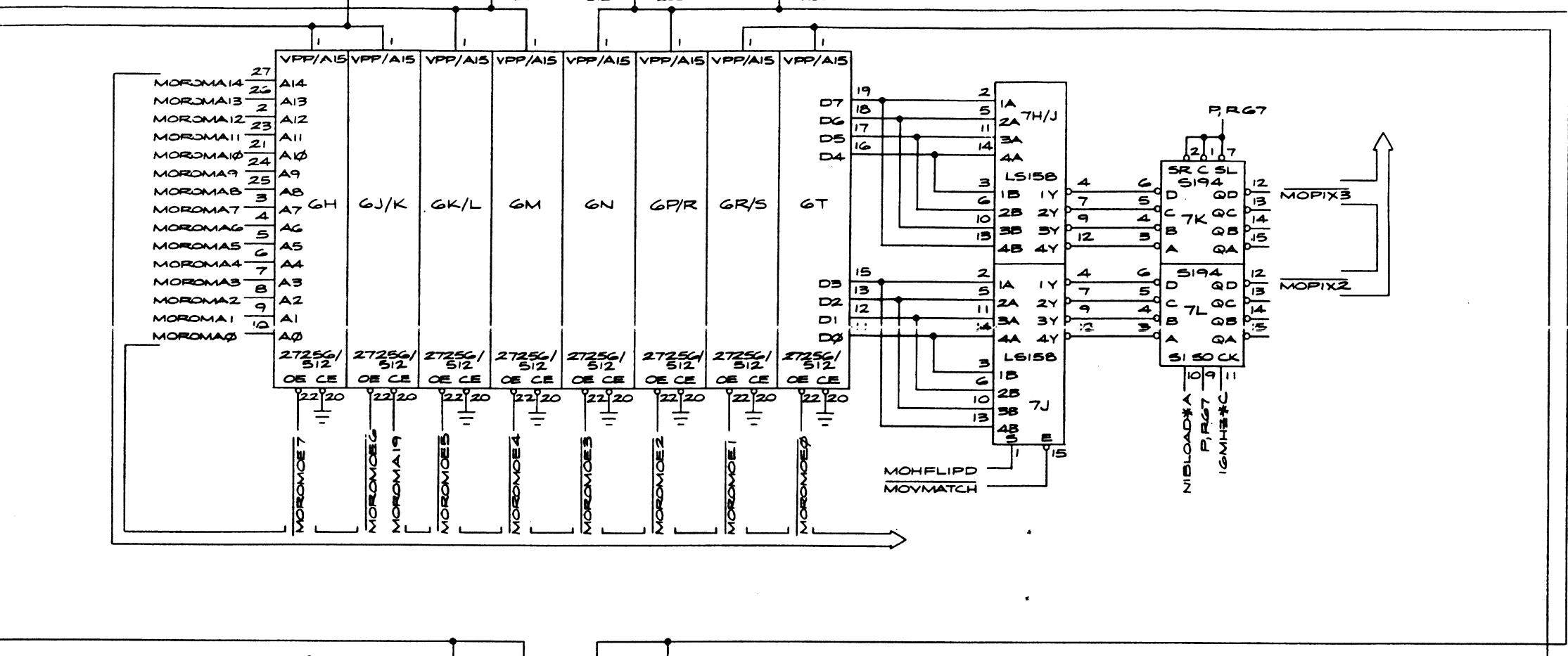
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Motion Object ROM

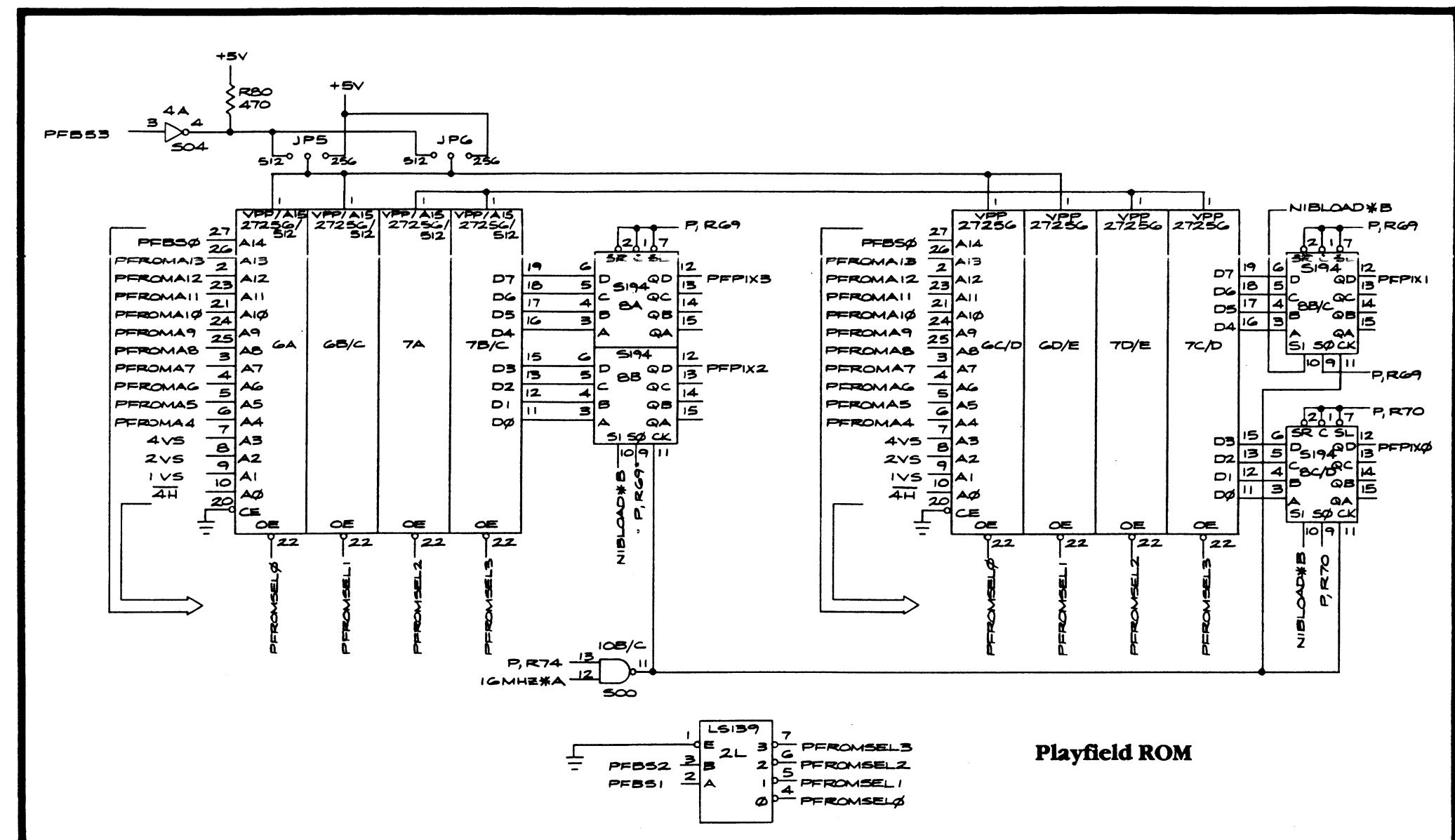


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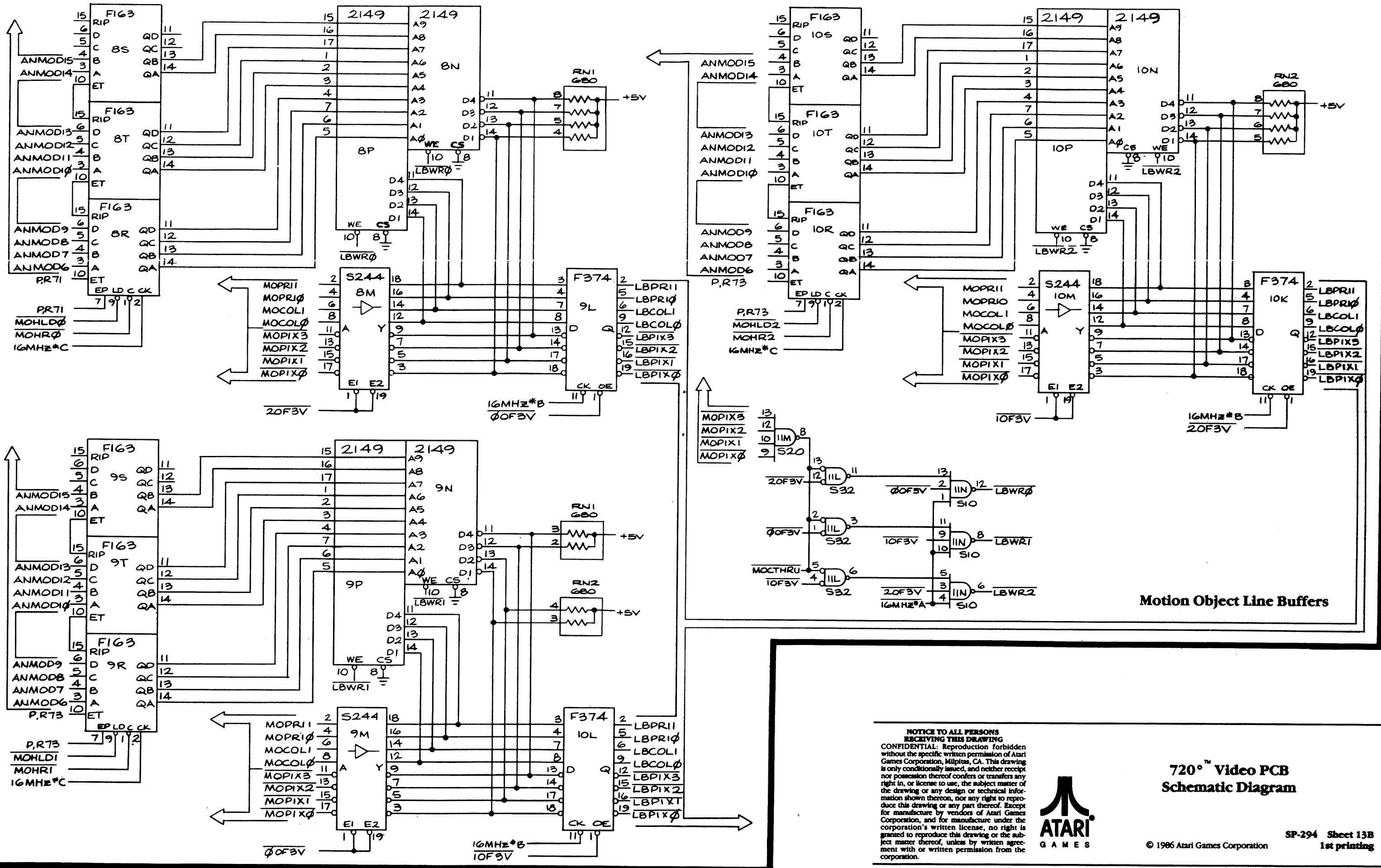
Playfield ROM

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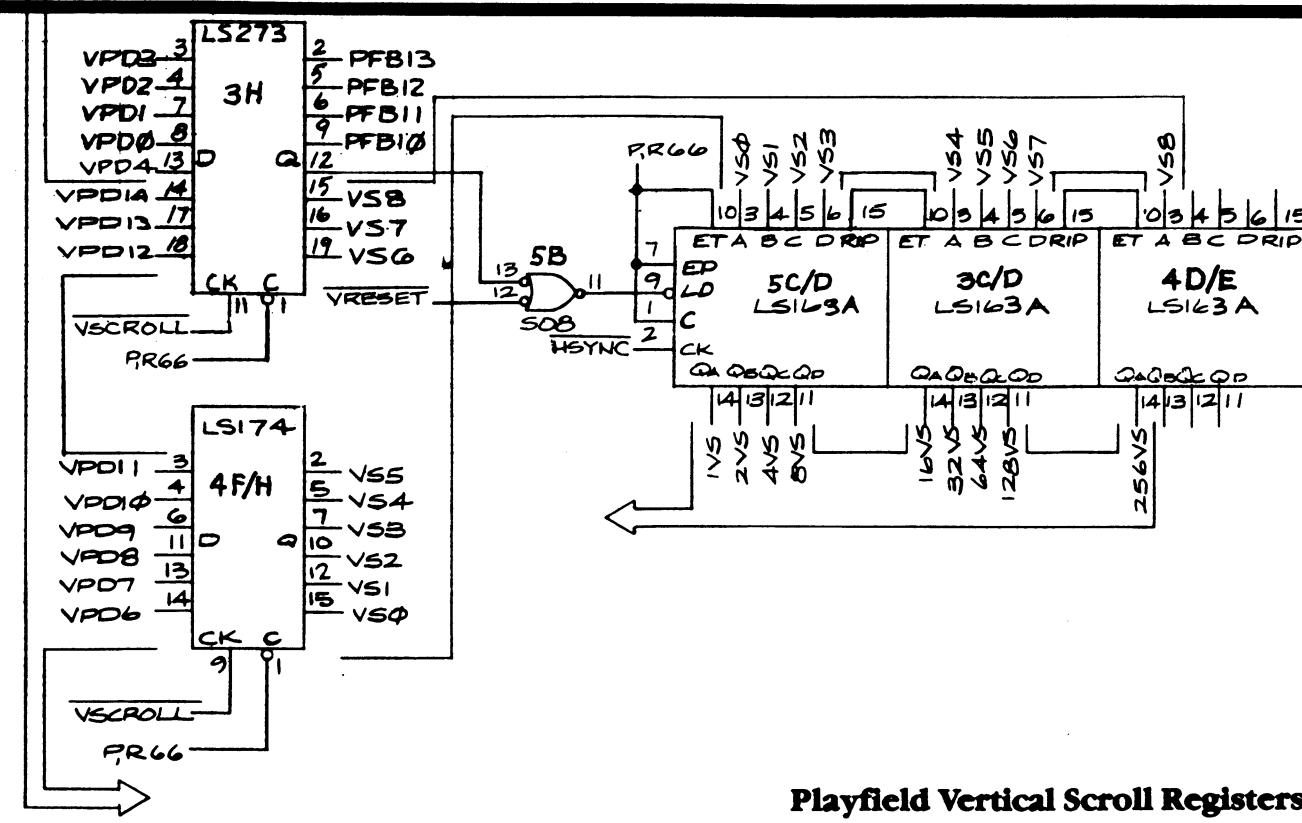
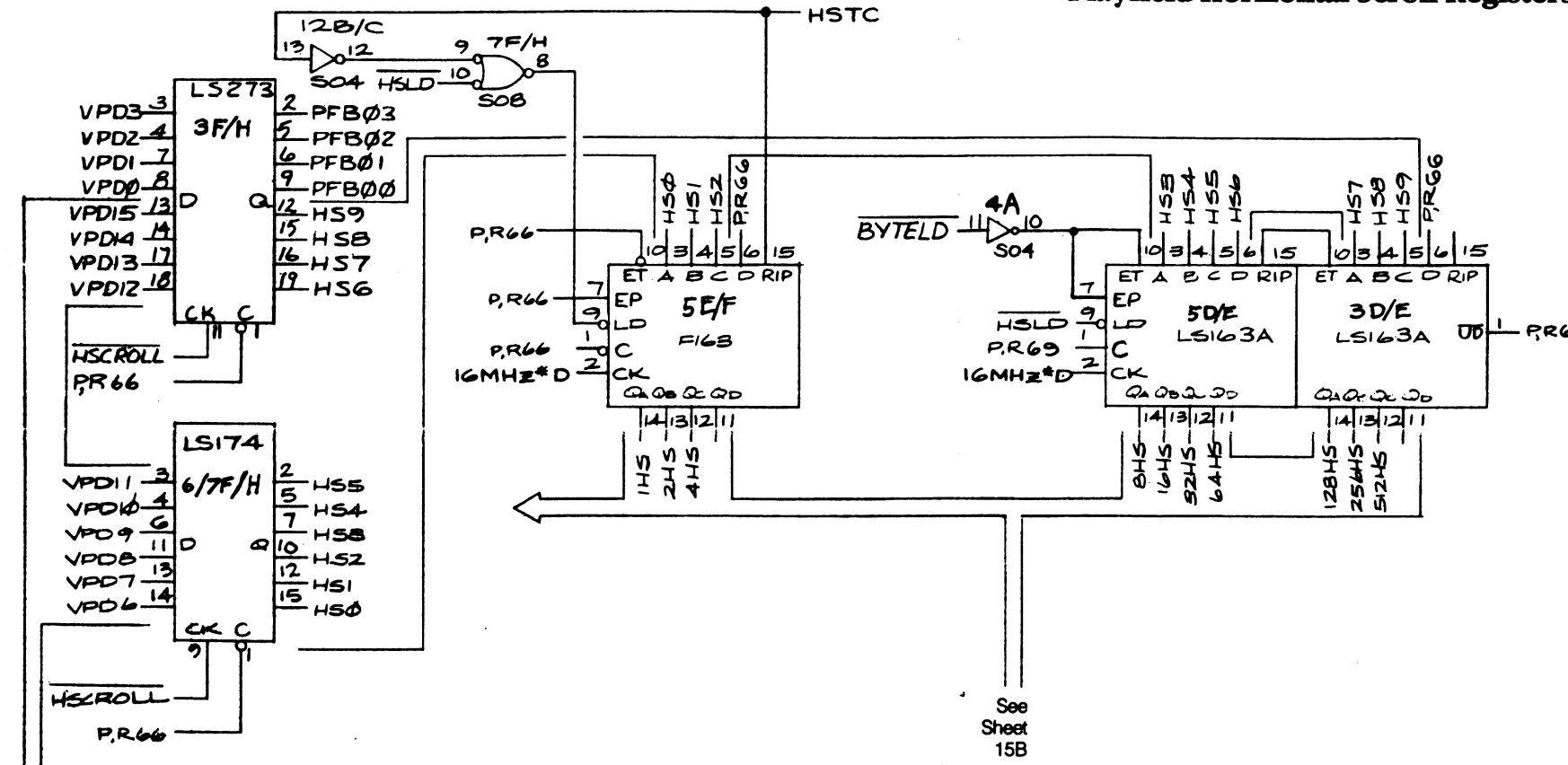
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Playfield Horizontal Scroll Registers



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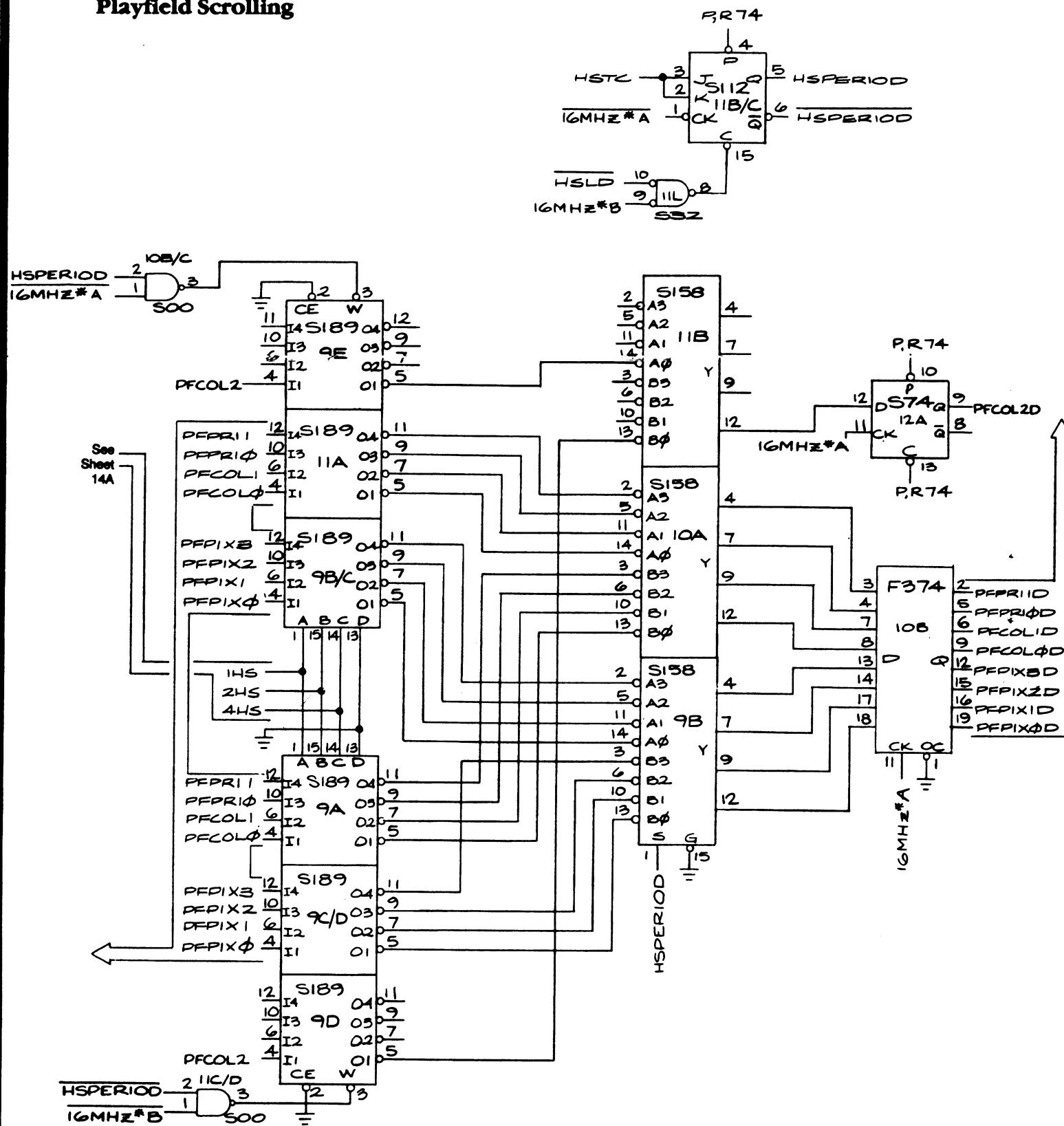
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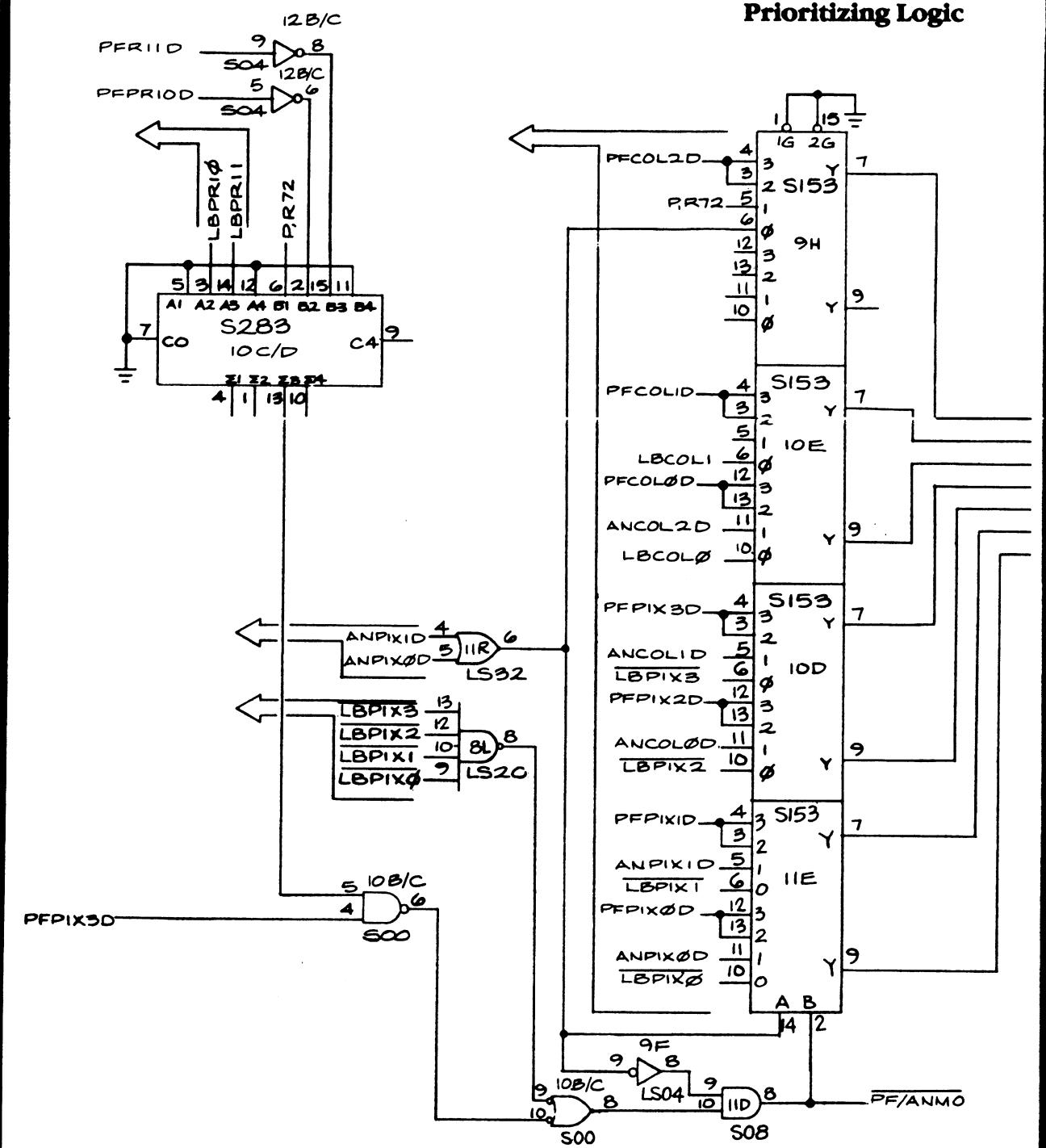
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Playfield Scrolling



Prioritizing Logic



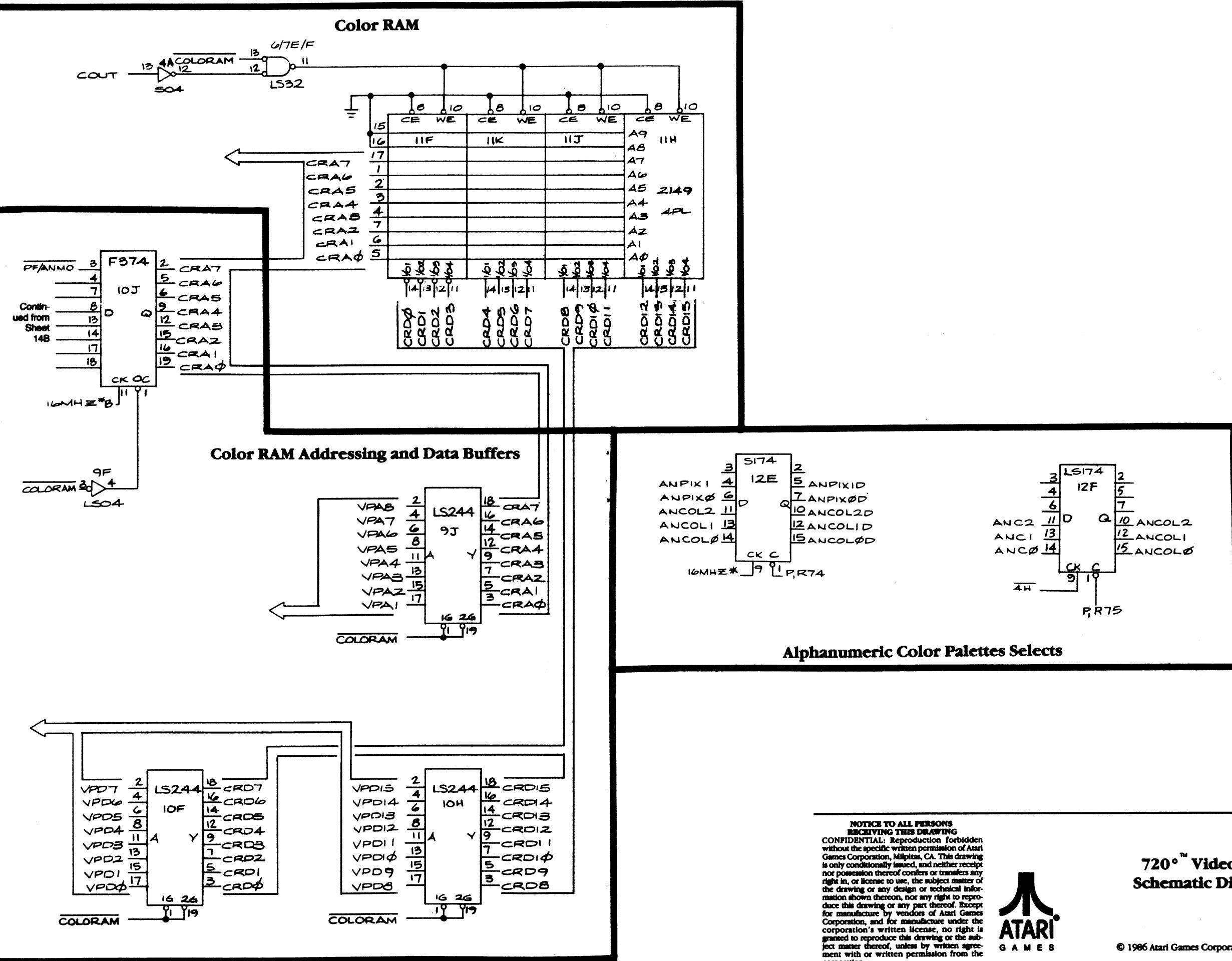
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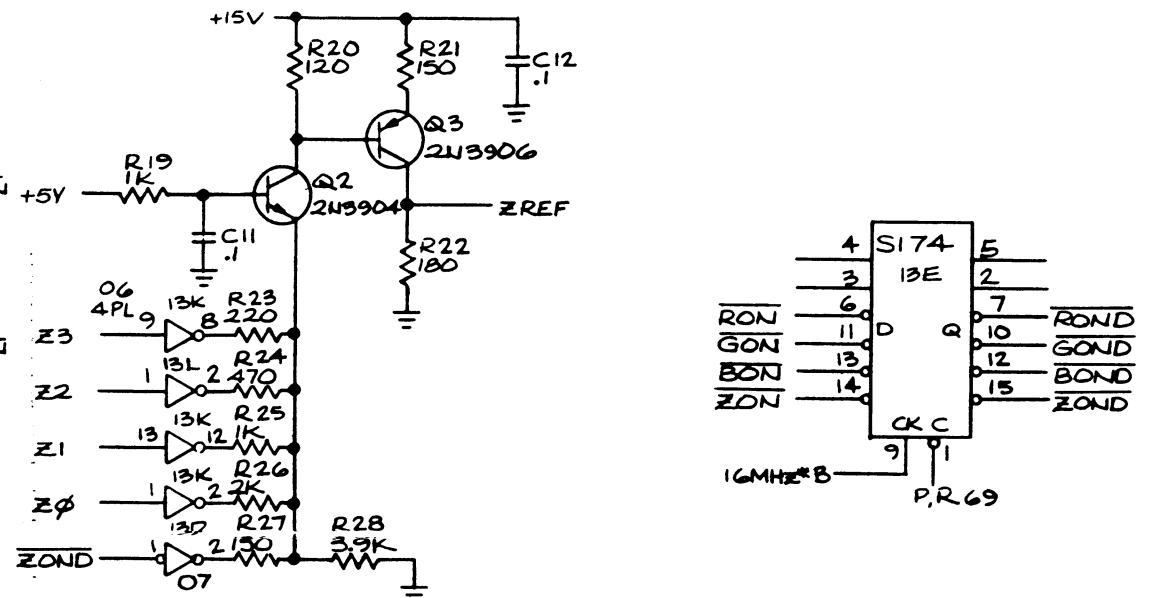
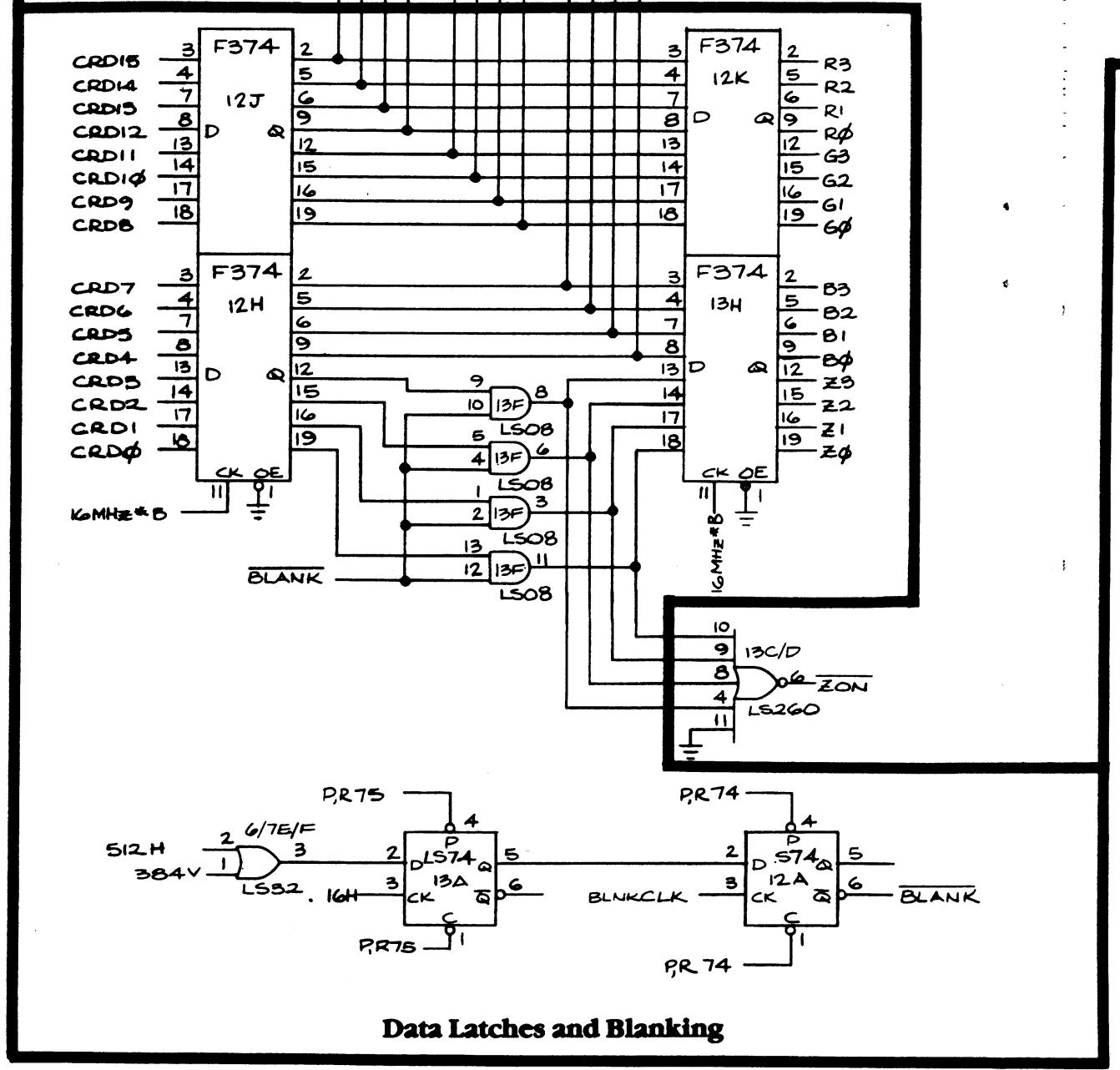
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Video Intensity Control and Driver Enables



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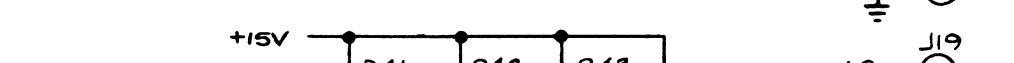
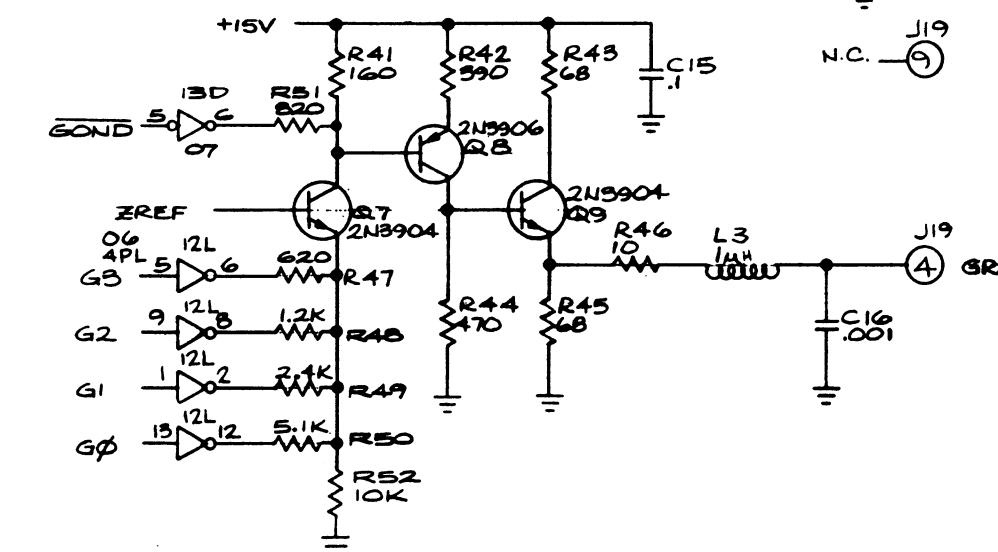
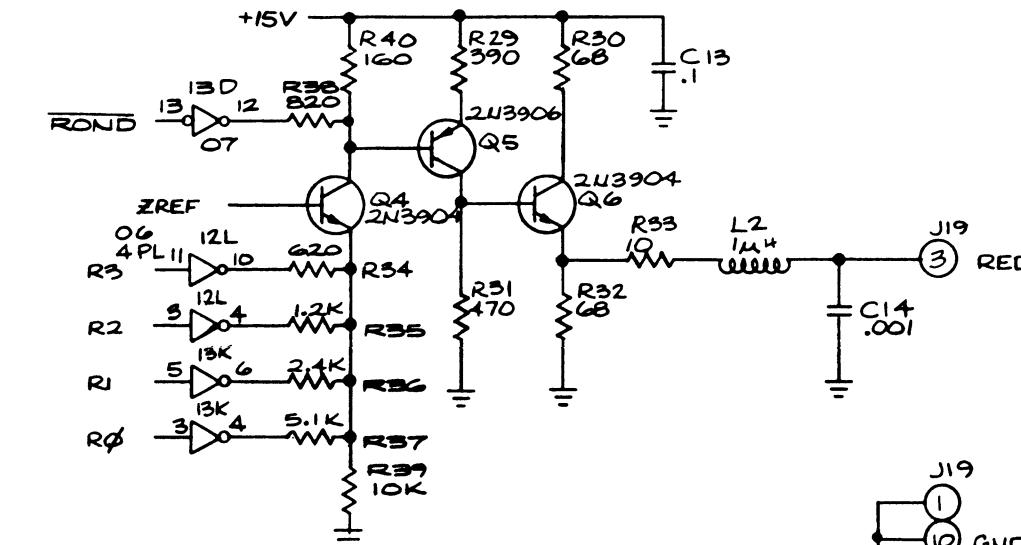
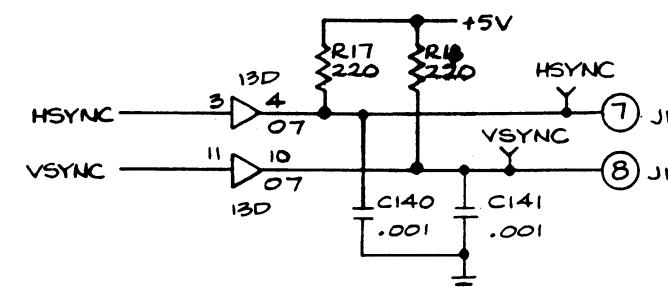
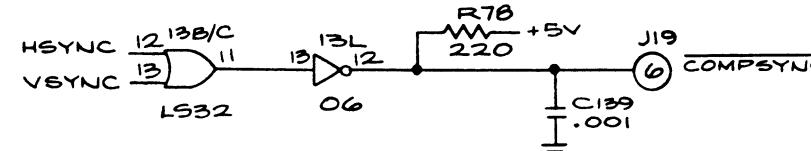
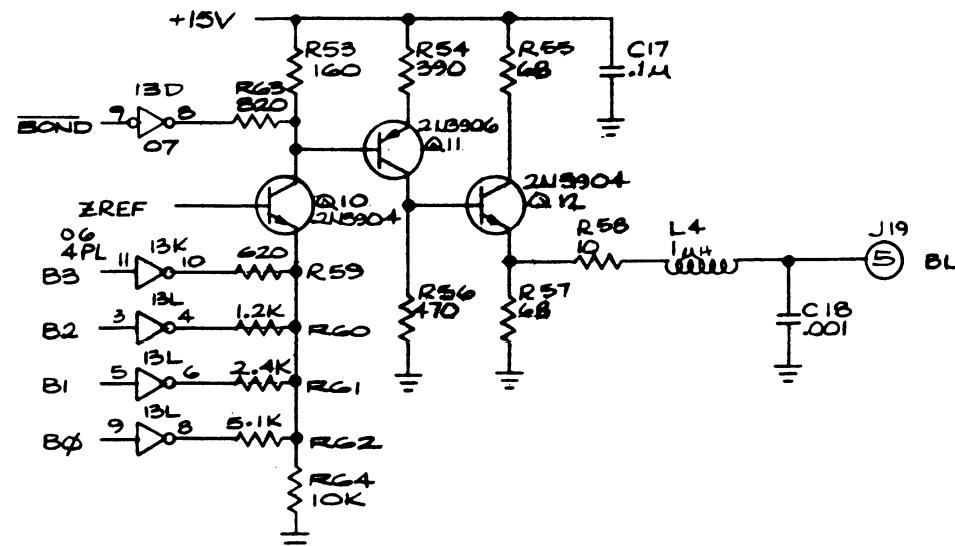
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Output Drivers



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