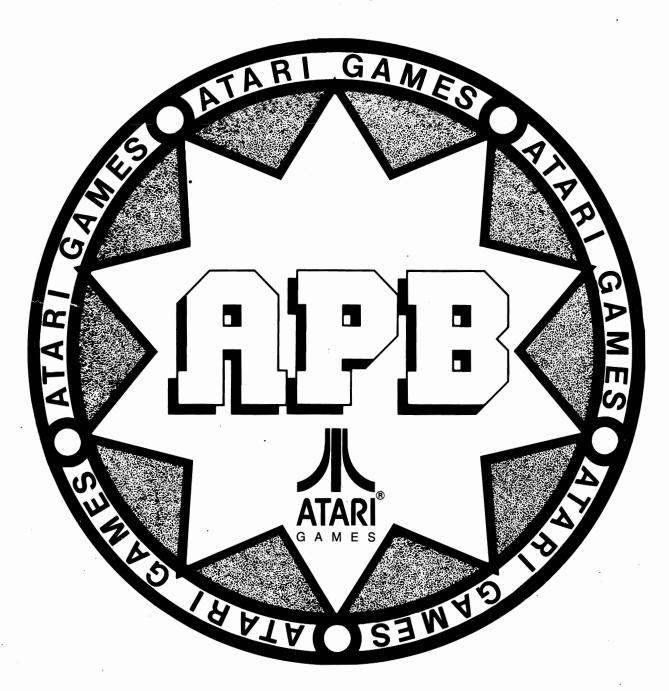
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APB[™] Schematic Package Supplement to the Operators Manual



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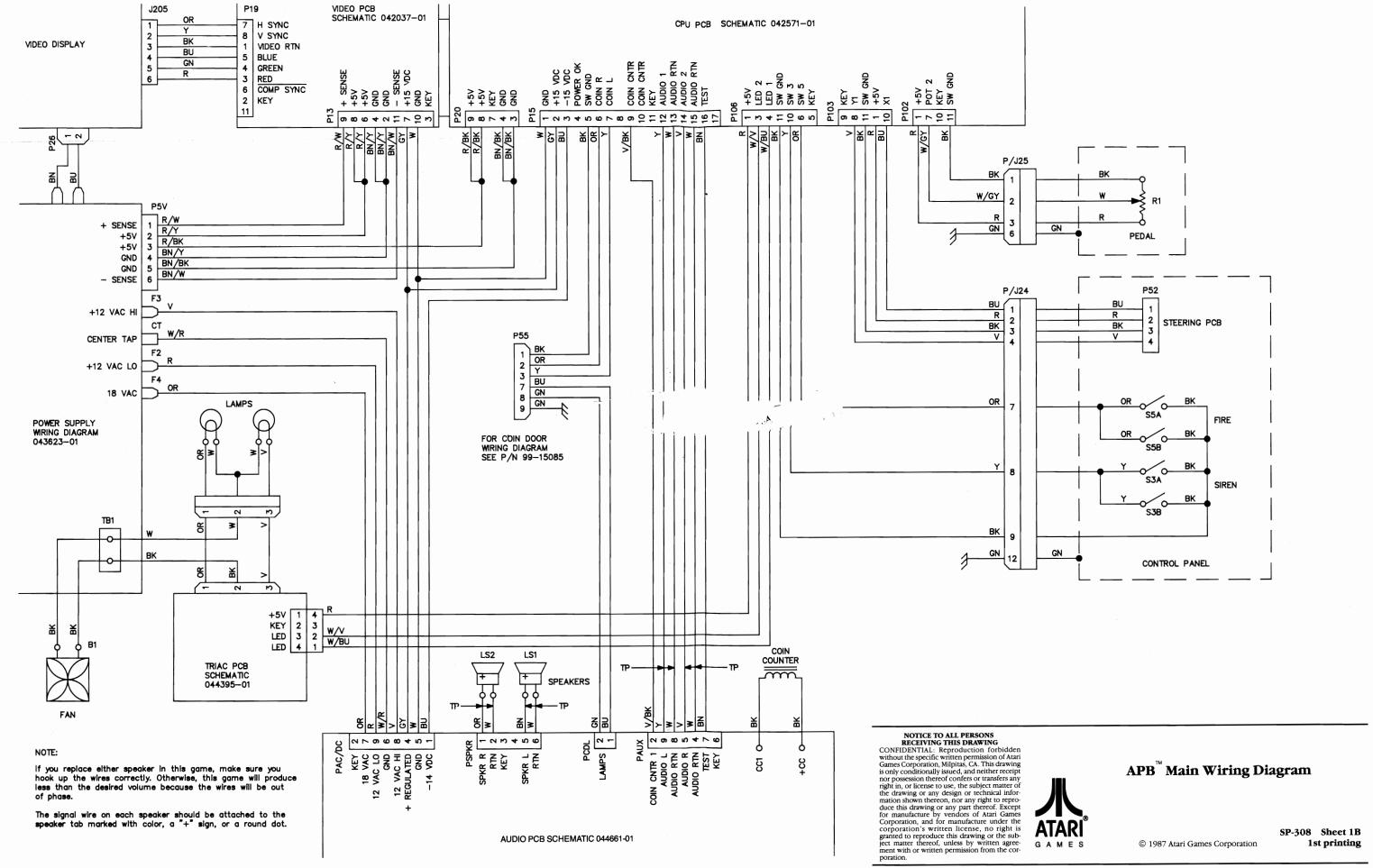
Sheet 11B

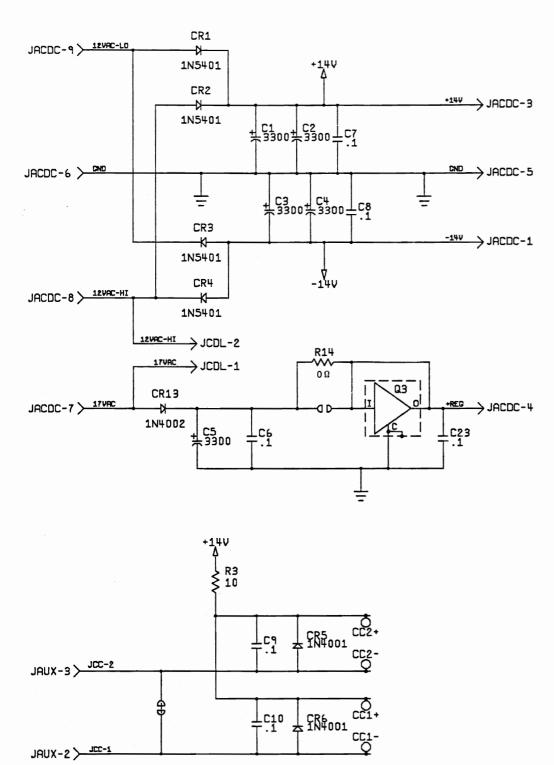
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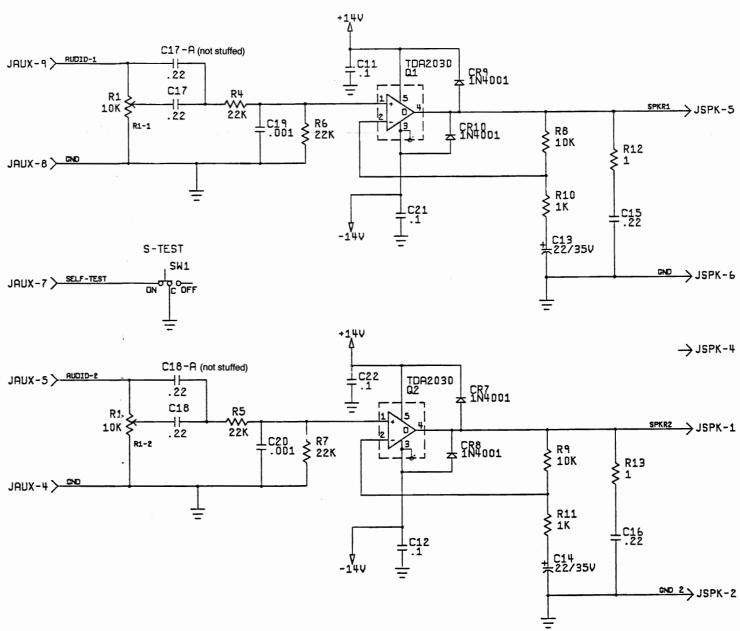
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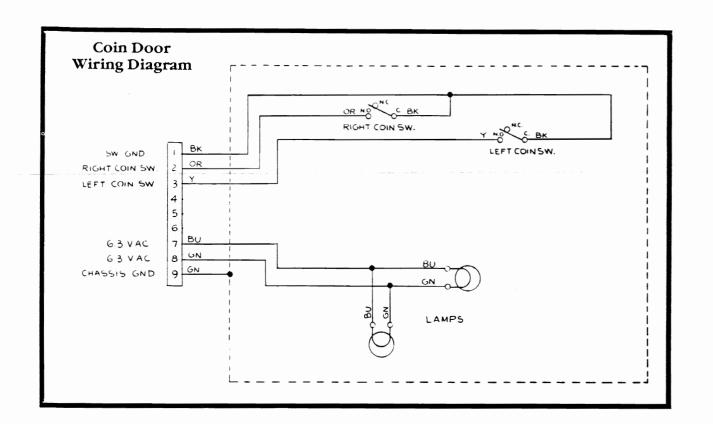
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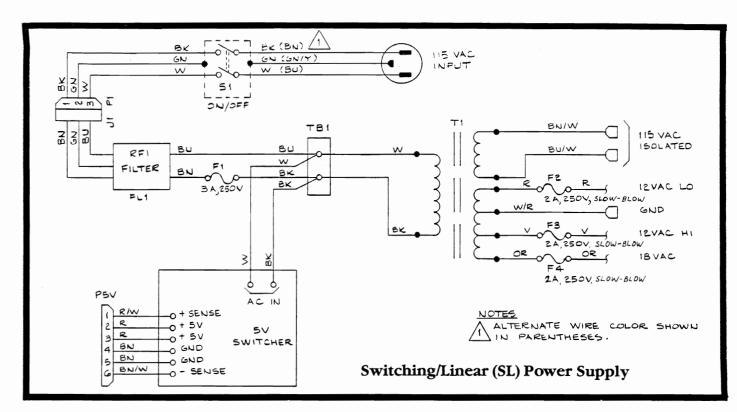


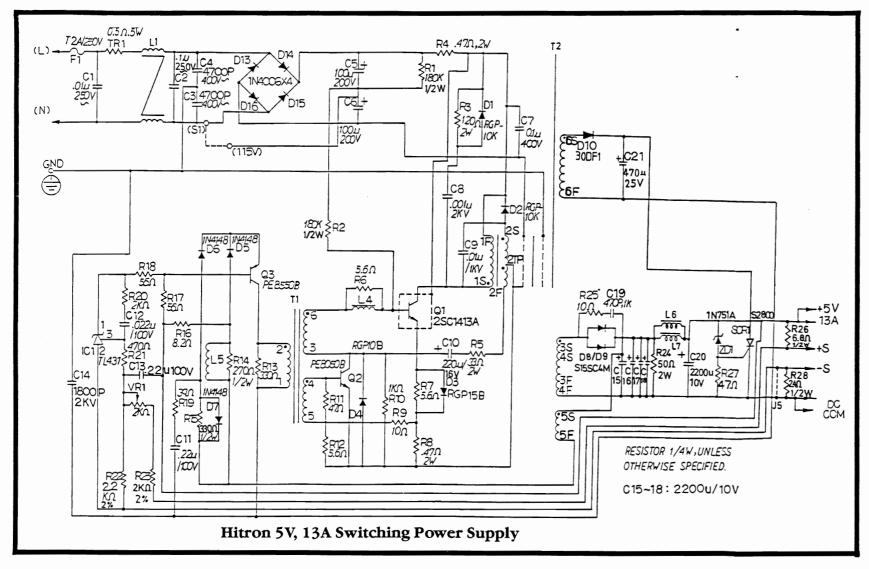
$\mathbf{APB}^{^{\mathsf{TM}}}\mathbf{Audio}\;\mathbf{II}$ **PCB Schematic Diagram**

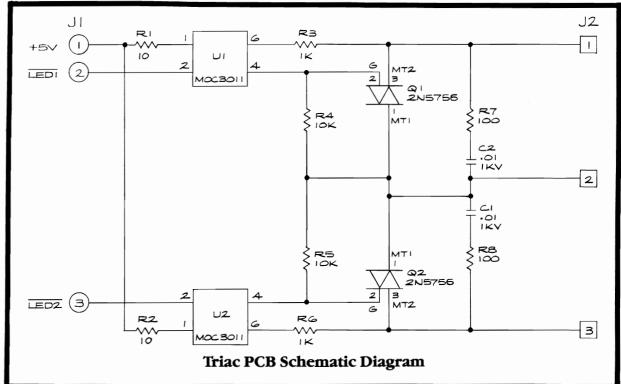
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(SL) Power Supply, Coin Door, **5V, 13A Power Supply Wiring Diagrams** and Triac PCB Schematic Diagram

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171027-001 043623-01 149006-001 044395-01

Main Microprocessor (T-11) Memory Map

Address Bus Signal Lines AAAAAAAAAAAA DDDDDDDDDDDDDDDDDDDDDDDD		
1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1		
Octal 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0 R/W 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0 Function and S	ize	
000000-007777 0 0 0 0 A A A A A A A A A A A A A A A		
010000-010436 0 0 0 1 0 0 A A A A A A A A A O W D D D D D D D D D D D D D D D Color RAM (144W)		
" 000100 AAAAAAAO W DDDD Z (Intensity)		
" OOO1OO AAAAAAAO W DDDD Blue		
" 000100 AAAAAAAO W DDDD Green		
0 0 0 1 0 0 A A A A A A A A O W D D D D D D D D D D D D D D D D D	DAM (CATA)	
010000-010176 0 0 0 1 0 0 0 0 0 A A A A A A O W D D D D D D D D D D D D D D D D D		
010200-010276 0 0 0 1 0 0 0 1 A A A A A A O W D D D D D D D D D D D D D D D D D		
010400-010776 0 0 0 1 0 0 0 1 0 0 0 A A A A O W D D D D D D D D D D D D D D D D D		
012000 0 0 0 1 0 1 0 0 0 0 W D D D D D D D Program Page 0 Addre 012002 0 0 0 1 0 1 0 0 0 1 W D D D D D D Program Page 1 Addre		
012002 0 0 0 1 0 1 0 0 0		
012000-012002 0 0 0 1 0 1 0 0 1 0 1 0		
012400 0 0 0 1 0 1 0 1 0 W D D Video Memory Page Se		
012400 0 0 0 1 0 1 0 1 0 0 0 W IRQO Clear	(1110)	
012640		
012700 0 0 0 1 0 1 0 1 1 1 0 W IRQ2 Clear		
012740 0 0 0 1 0 1 0 1 1 1 1 W IRQ3 Clear		
	IRQO Enable 6502 RD (Active High)	
	IRQL Enable 6502 WT (Active High)	
	IRQ2 Enable 32V (Active High)	
	IRQ3 Enable VBLANK (Active High)	
	Communications Port Write	
	Horizontal Scroll & PF Bank 0	
	Vertical Scroll & PF Bank 1	
	SW 6 (Active Low)	
	SW 5 (Active Low)	
014000 0 0 0 1 1 0 0 0 0 R D SW 4 (Active Low)		
014000 0 0 0 1 1 0 0 0 0 R D SW 3 (Active Low)	: ***: -2- \	
014000 0 0 0 1 1 0 0 0 0 0 R D 6502 Comm. Flag (Act		
014000	ive high)	
014000 0 0 0 1 1 0 0 0 0 0 R D SW 2 (Active Low) 014000 0 0 0 1 1 0 0 0 0 0 0 R D SW 1 (Active Low)		
014000	w)	
016000		
020000-033776 0 0 1 A A A A A A A A A A A A A A A A O R/W D D D D D D D D D D D D D D D Alphanumerics RAM (V		
" OOlAAAAAAAAAAO R/W DDDDDDDDDD DDDD ANPIC	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
034000-037776 0 0 1 1 1 A A A A A A A A A A A A O R/W D D D D D D D D D D D D D D D D Motion Object RAM (V	MMU≔O) (1KW)	
" OO111AAAAAAAAOOO R/W DDDDDDDDDD DDD MOV		
" OO111AAAAAAAO10 R/W DDDDDDDDDDDDDDDDD MOPIC		
" OO111AAAAAAA100 R/W DDDDDDDDDD MOH		
" OO111AAAAAAA110 R/W DDDD DDDDDDDD MOLNK		
020000-037776 001AAAAAAAAAAAA AAAAAA O R/W DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		
020000-037776 0 0 1 A A A A A A A A A A A A O R/W D D D D D D D D D D D D D Playfield RAM Bottom		
040000-057776 0 1 0 A A A A A A A A A A A A O R D D D D D D D D D D D D D Paged Program (Page		
060000-077776 0 1 1 A A A A A A A A A A A A A O R D D D D D D D D D D D D D D Paged Program (Page		
100000-177776 1 A A A A A A A A A A A A A A O R D D D D D D D D D D D D D Program ROM	(16KW)	

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$\mathbf{APB}^{^{\mathsf{TM}}}\mathbf{Main}$ **Microprocessor Memory Map**

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Sound Microprocessor (6502) Memory Map

	A A A A A A A A A A A A A A A	DDDDDDD	
Hexa-	11111100000000000	, 0 0 0 0 0 0 0 0	
decimal	5432109876543210	R/W 76543210	Function and Size
0000 0000 1			
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	Program RAM (4KB)
1000-17FF	0 0 0 1 0 A A A A A A A A A A	R/W D D D D D D D	EEROM (2KB)
1800-180F	0 0 1 1 0 0 0 A A A A	R/W DDDDDDDD	POKEY 1 (16B)
1810-1813	00 11 001 AA	R DDDDDDDD	LETA
1830-183F	00 11 Ollaaaa	R/W DDDDDDDD	POKEY 2 (16B)
1840	0 0 1 1 1 0 0	R D	T-11 Talk (Active High)
1840	0 0 1 1 1 0 0	R D	6502 Talk (Active High)
1840	0 0 1 1 1 0 0	R D	TI READY (Active High)
1840	0 0 1 1 1 0 0	R D	
1840	0 0 1 1 1 0 0	R D	Self-Test Switch (Active Low)
1840	00 11 100	R D	Auxiliary Coin Switch (Active Low)
1840	00 11 100 1	R D	Left Coin Switch (Active Low)
1840	00 11 100	R D	Right Coin Switch (Active Low)
1850-1851	00 11 101 A	R DDDDDDDD	Yamaha Sound Chip
1860	00 11 110	R DDDDDDDD	Communications Port Read
1870	00 11 111000	W DDDDDDDD	TI Data
1872-1873	00 11 111001A	W	TI Write Enable
1874	00 11 111010	M DDDDDDDD	Communications Port Write
1876	00 11 111011	W D	Right Coin Counter (Active High)
1876	00 11 111011	W D	Left Coin Counter (Active High)
1878	00 11 111100	W ·	IRQ Clear
187A	00 11 111101	W DDD	Yamaha Mixer
187A	00 11 111101	W D D	POKEY Mixer
187A	00 11 111101	WIDDD	TI Sound Mixer
187C	00 11 111110	WID	LED 1
187C	00 11 111110	W D	LED 2
187C	00 11 111110	W D	LETA Resolution
187C	00 11 11110	WD	TI Frequency Select
187E	00 11 111111	W	Sound Enable (Active High)
4000-7FFF	0 1 A A A A A A A A A A A A A A	R DDDDDDDD	Program ROM (16KB)
8000-FFFF	1 A A A A A A A A A A A A A A A	R DDDDDDDD	Program ROM (32KB)

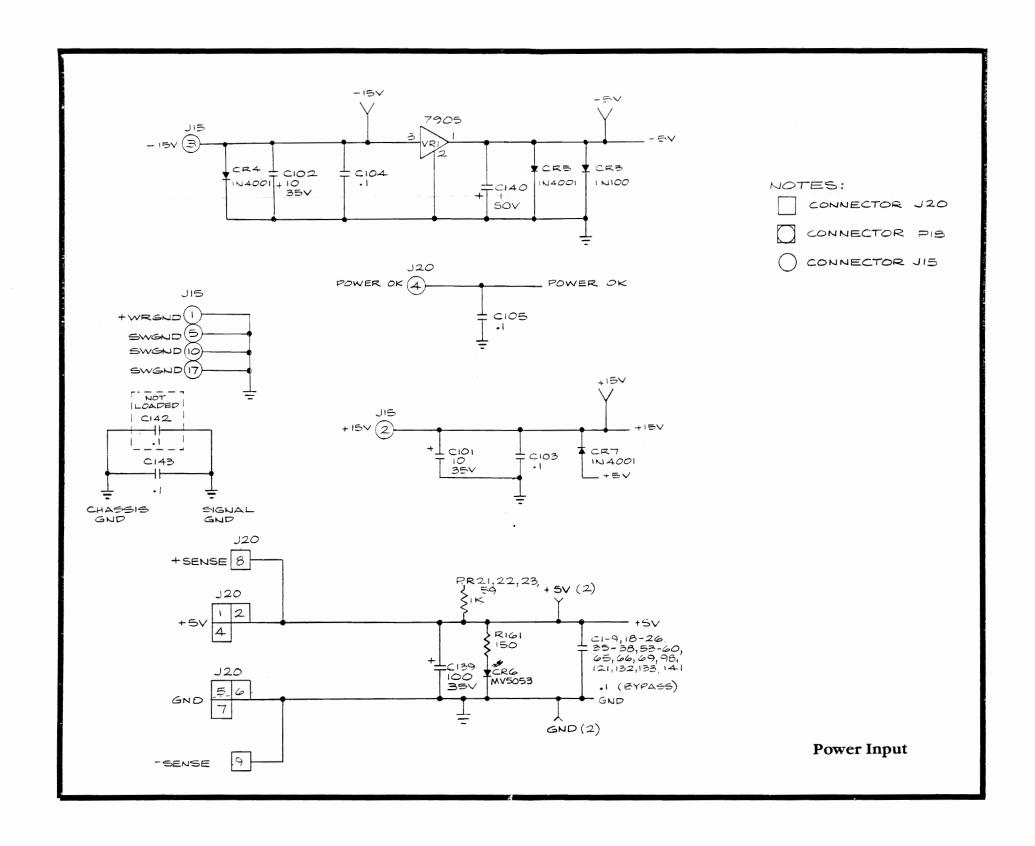
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APB[™] Sound **Microprocessor Memory Map**

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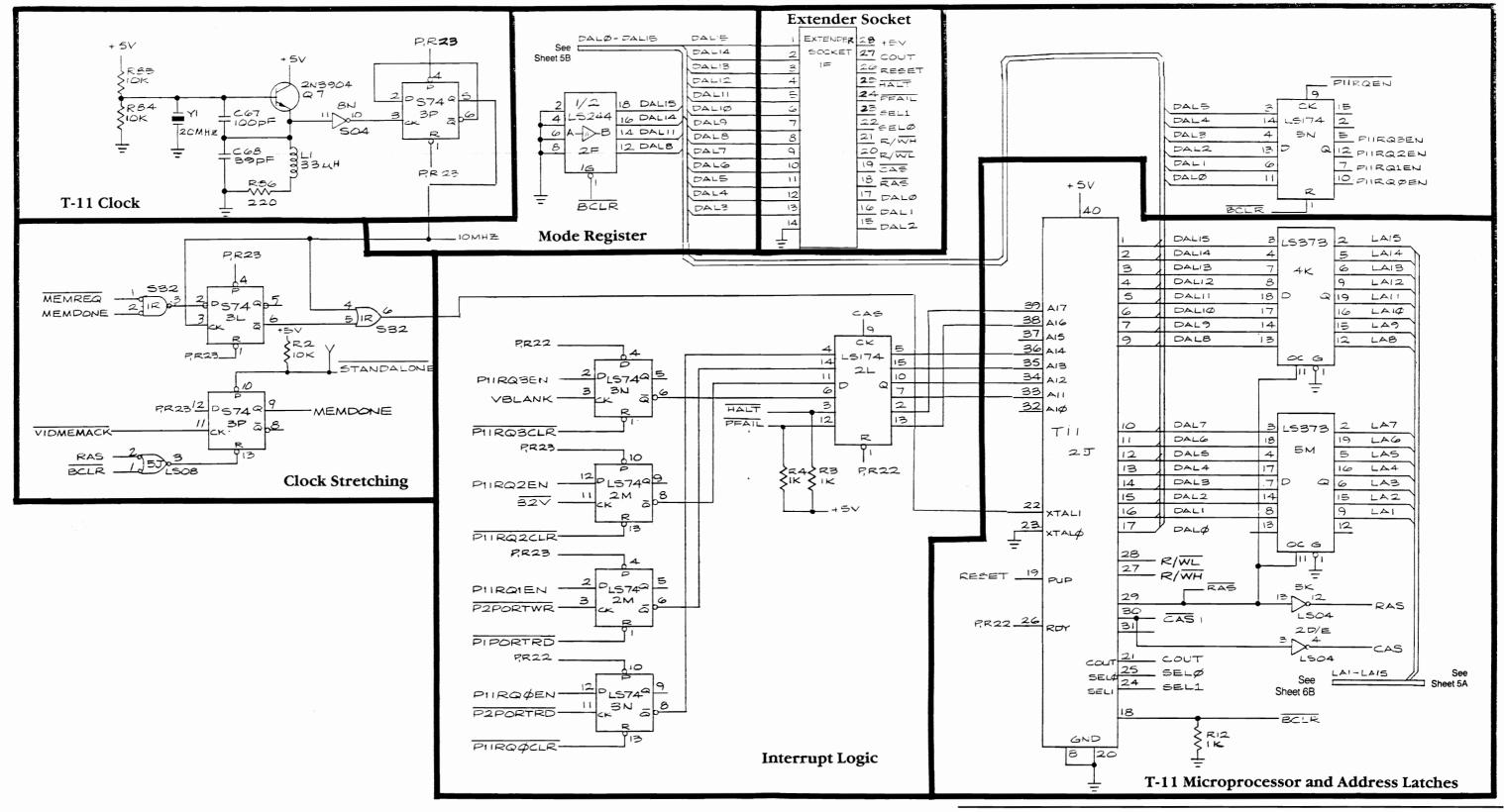
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APB[™] **CPU PCB Schematic Diagram**

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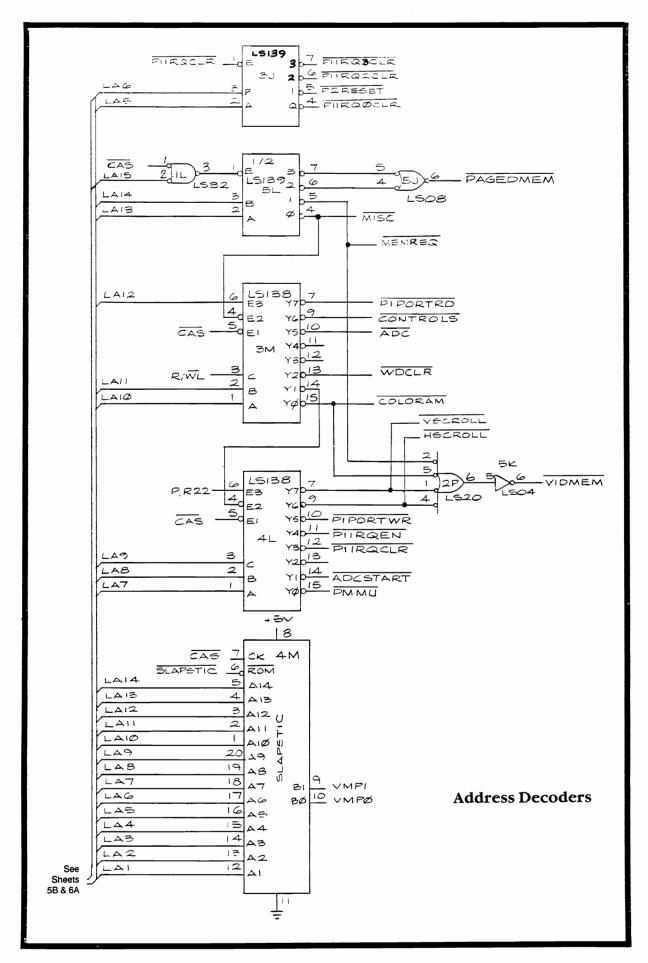
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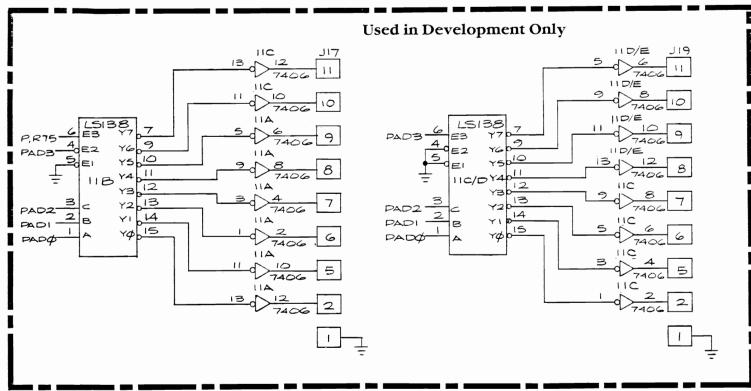


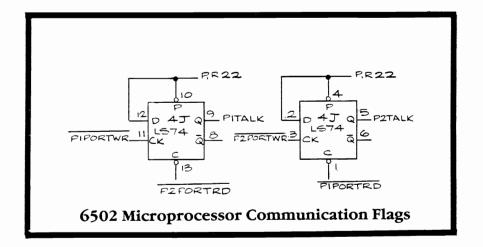
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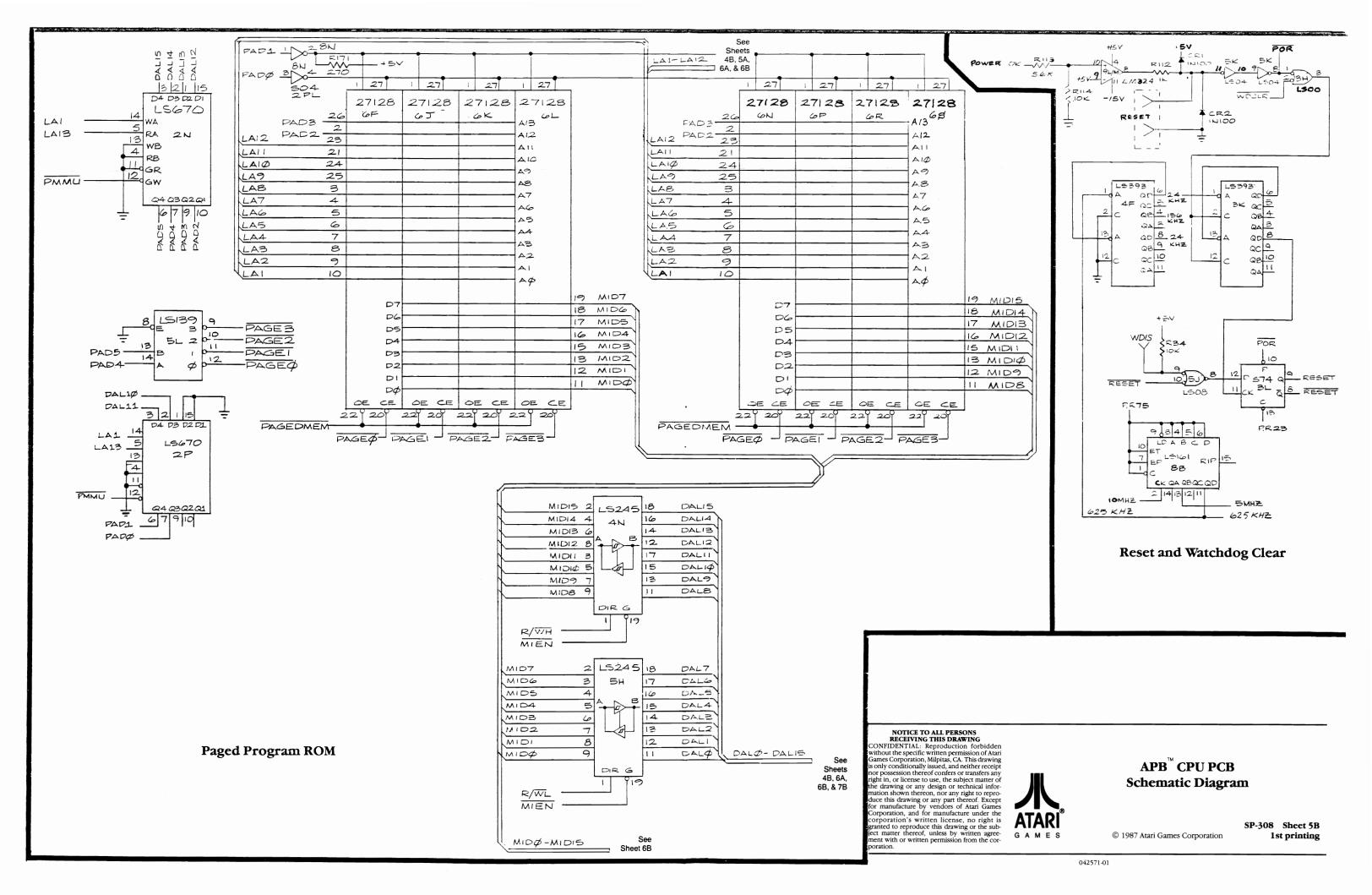


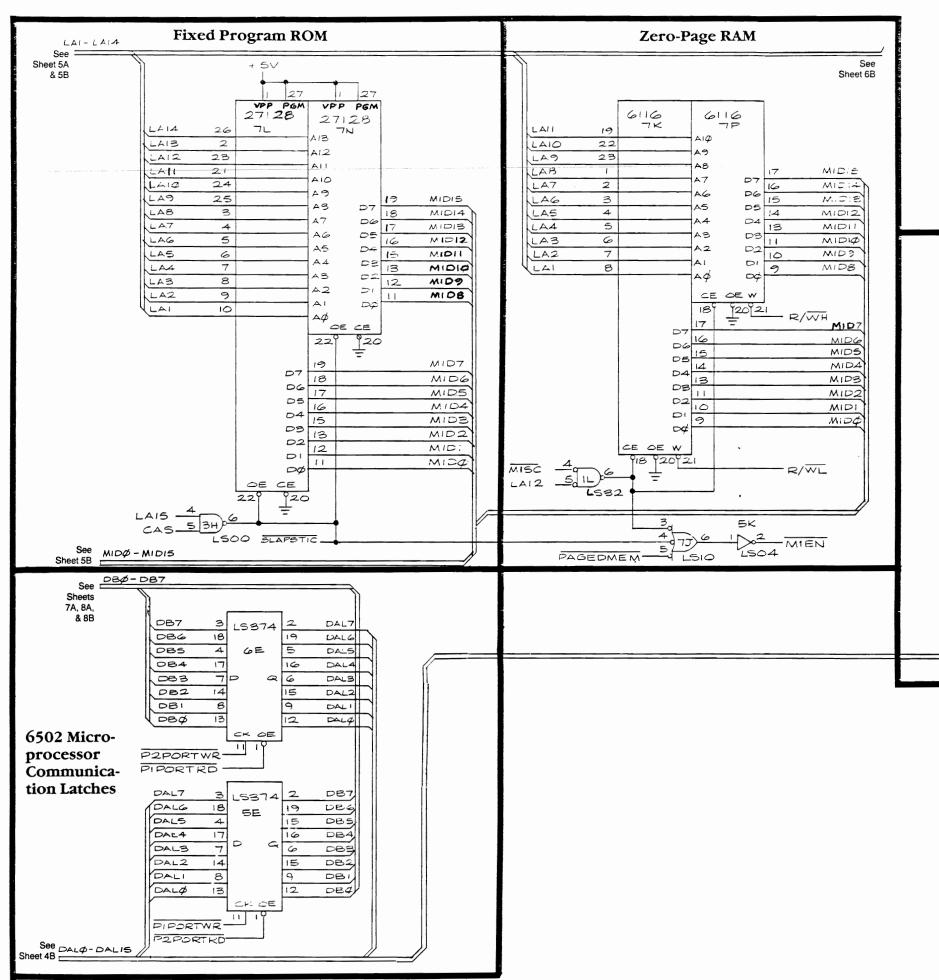
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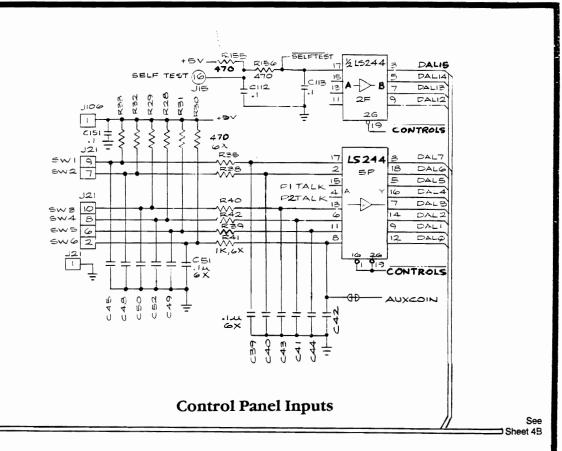
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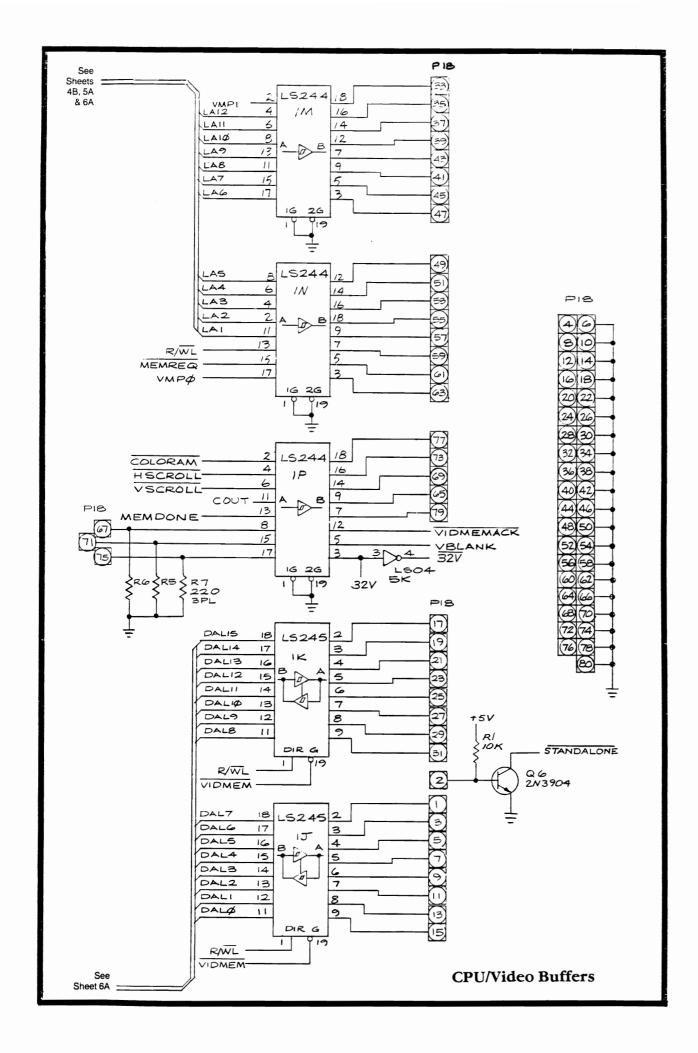
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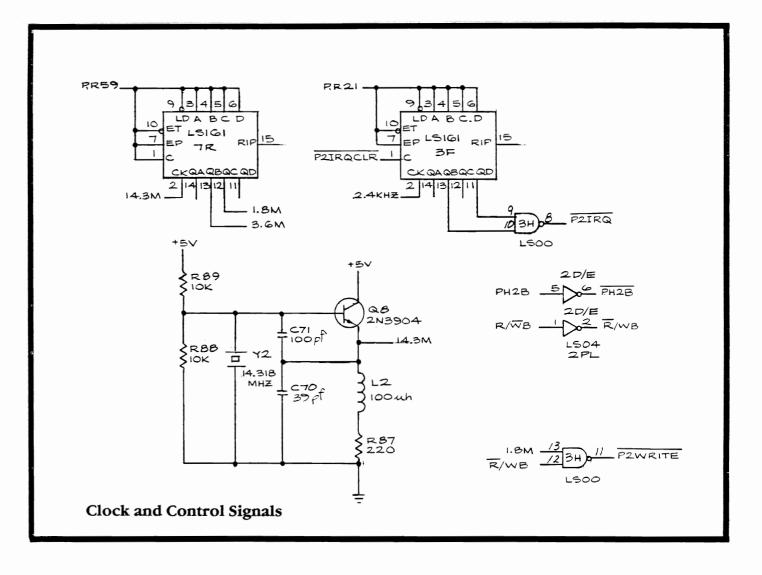


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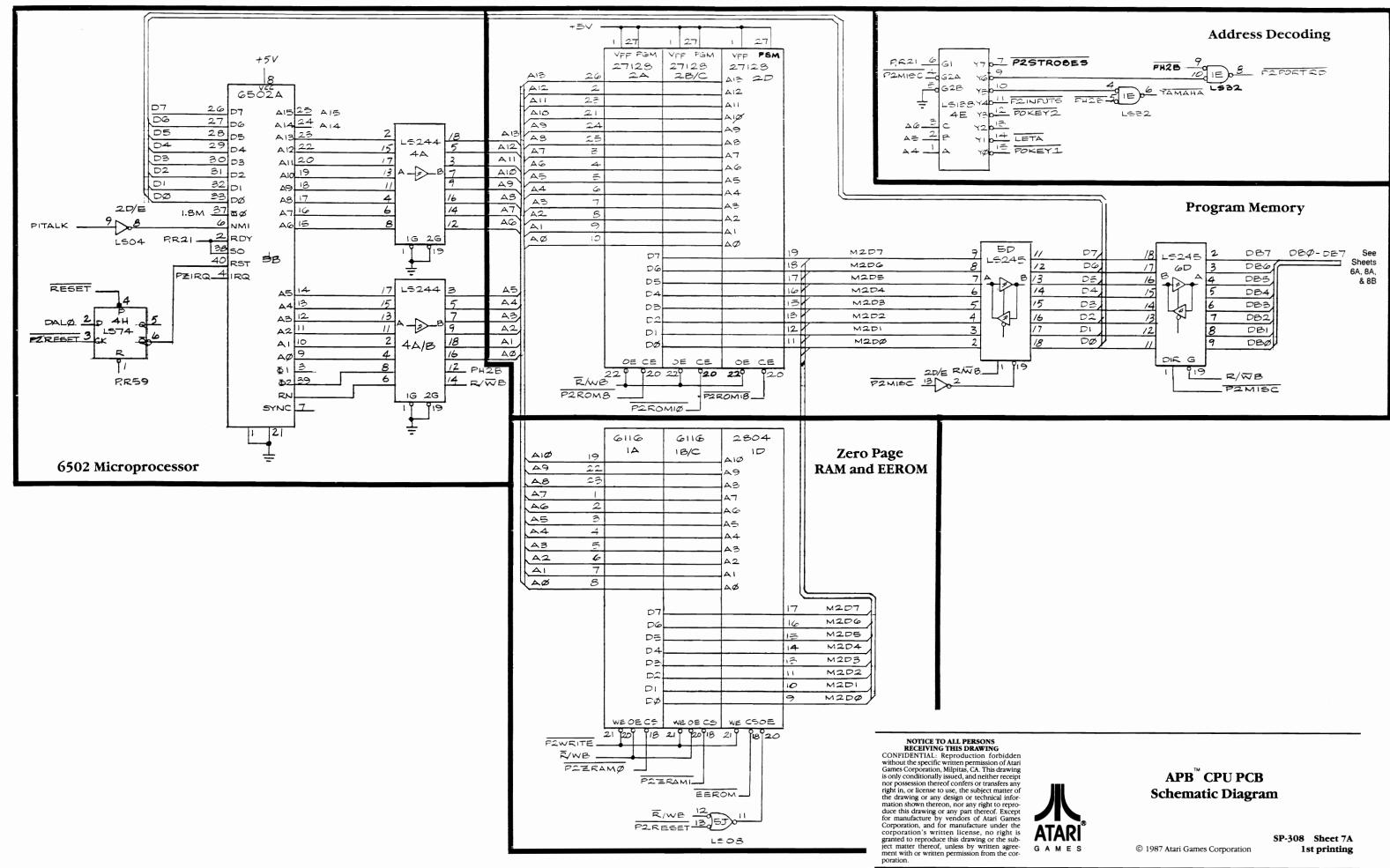
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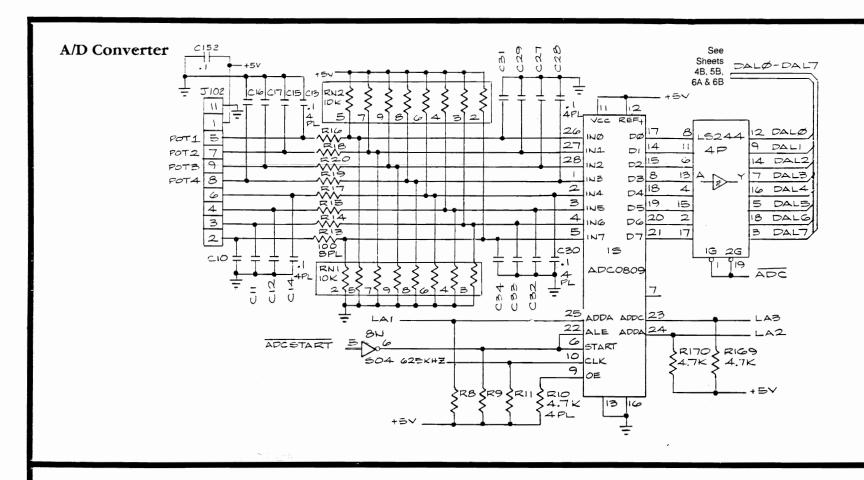


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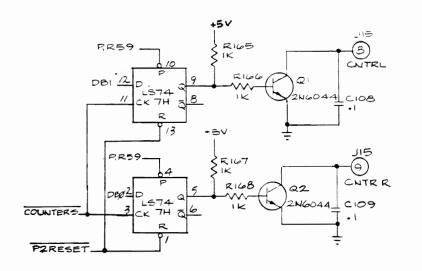
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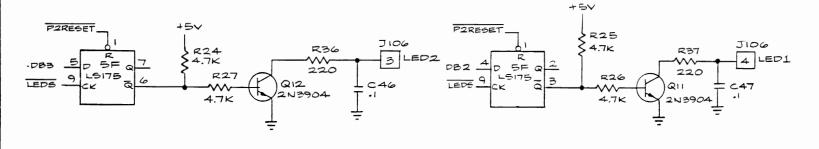




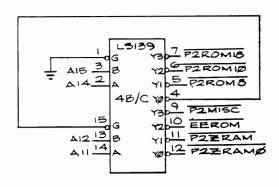
Coin Counters



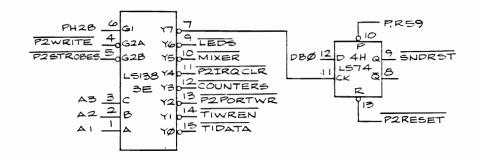
LED Drivers



Address Decoding



Address Decoding



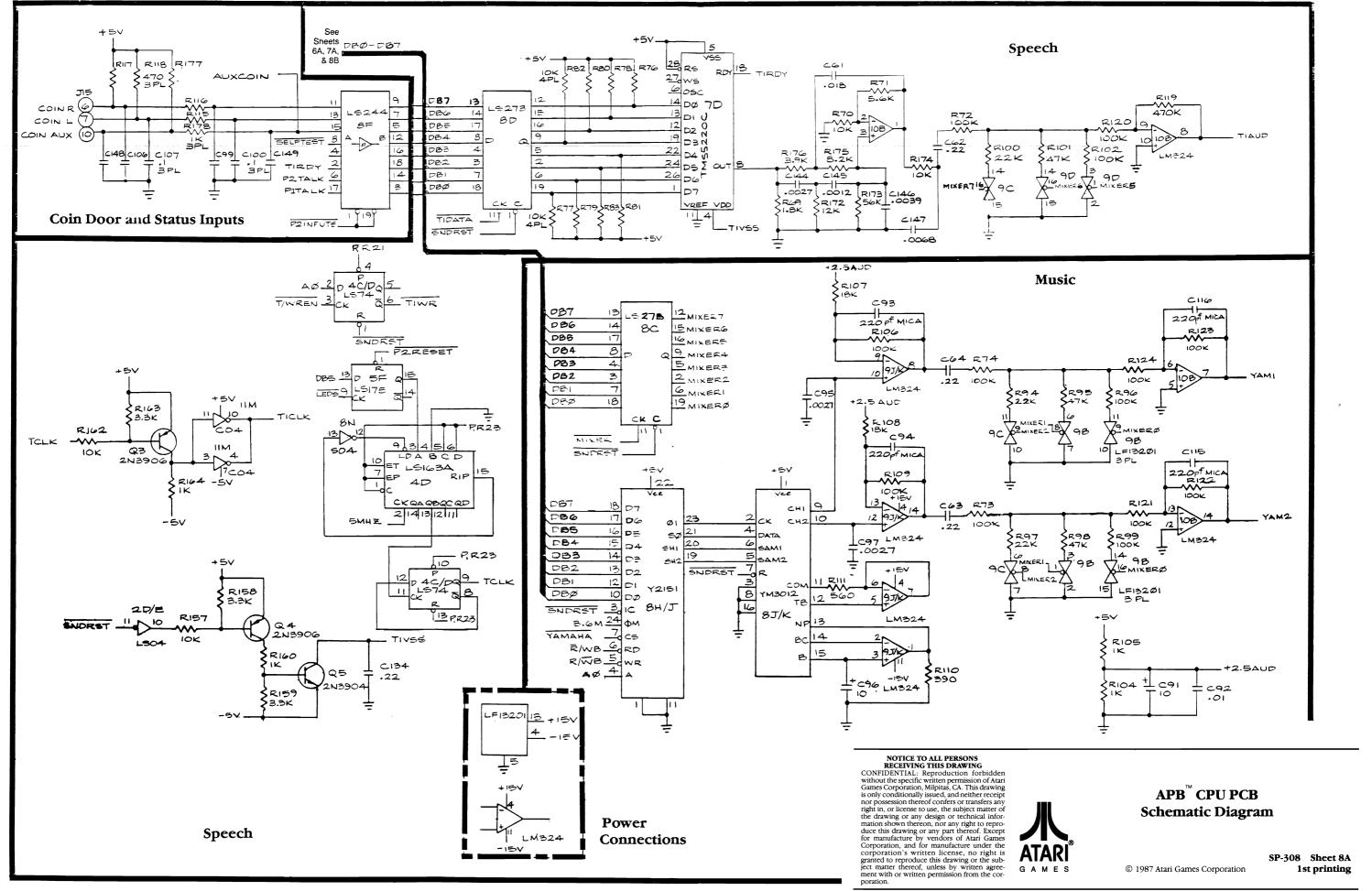
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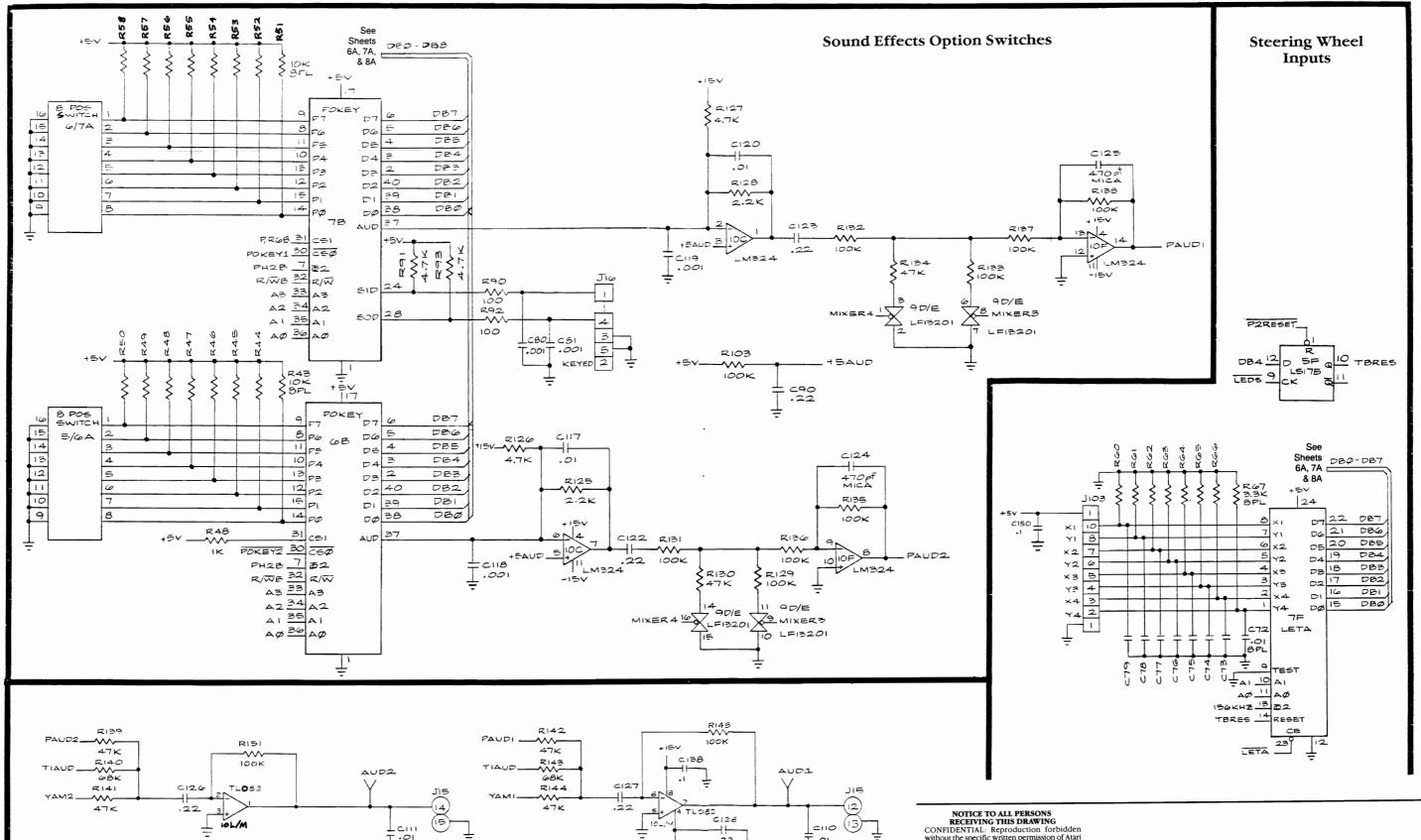


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Audio Output Drivers

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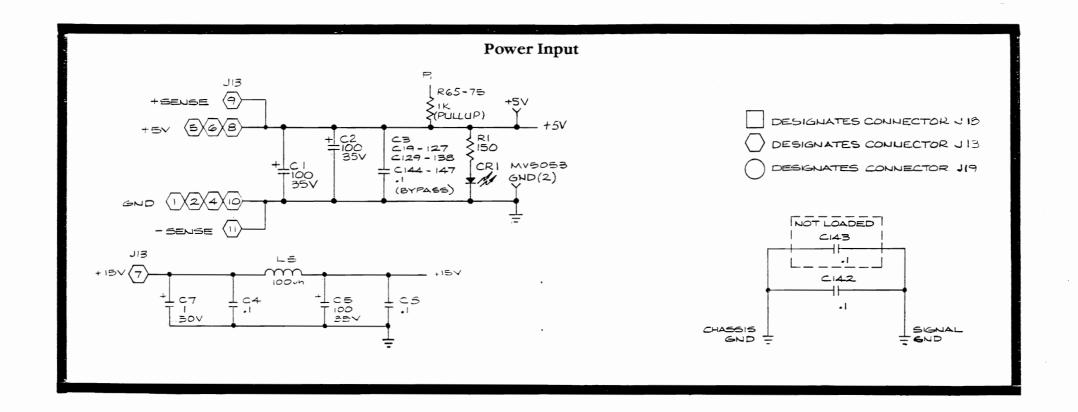
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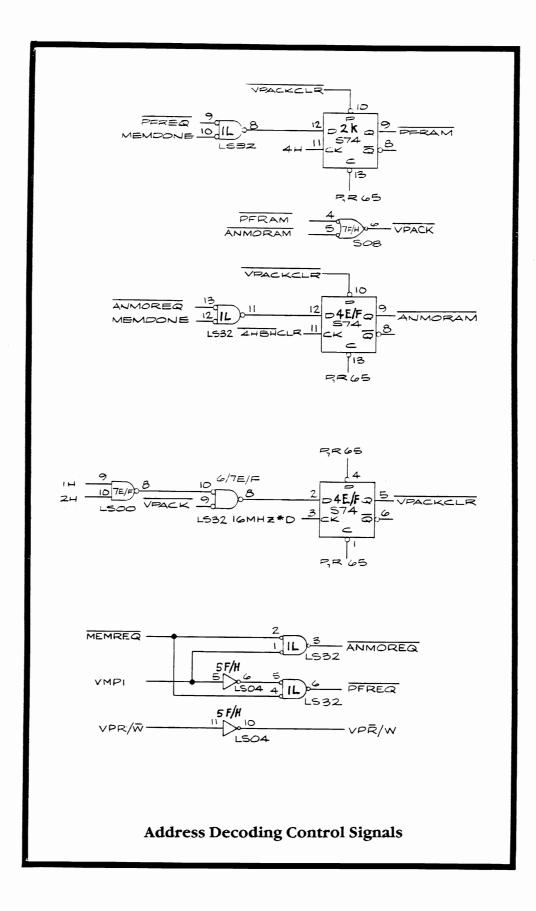
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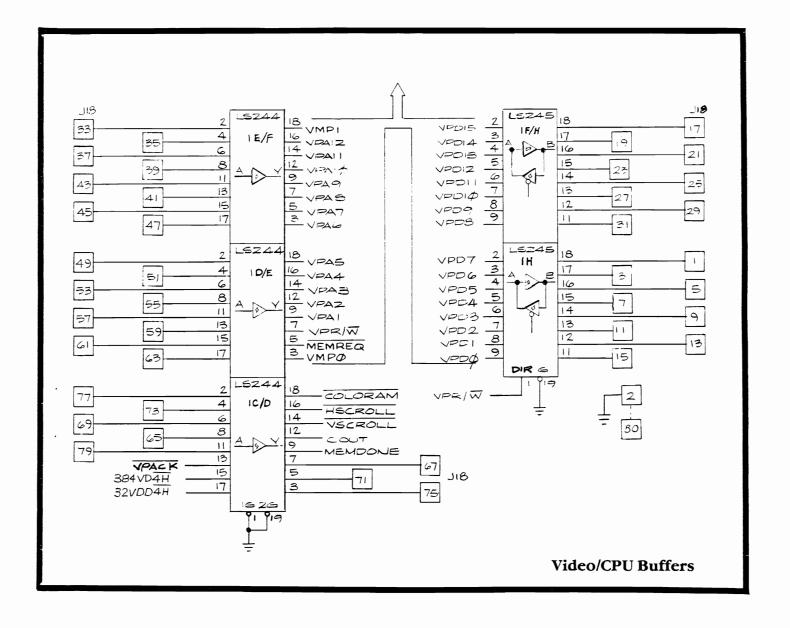


APB[™] Video PCB **Schematic Diagram**

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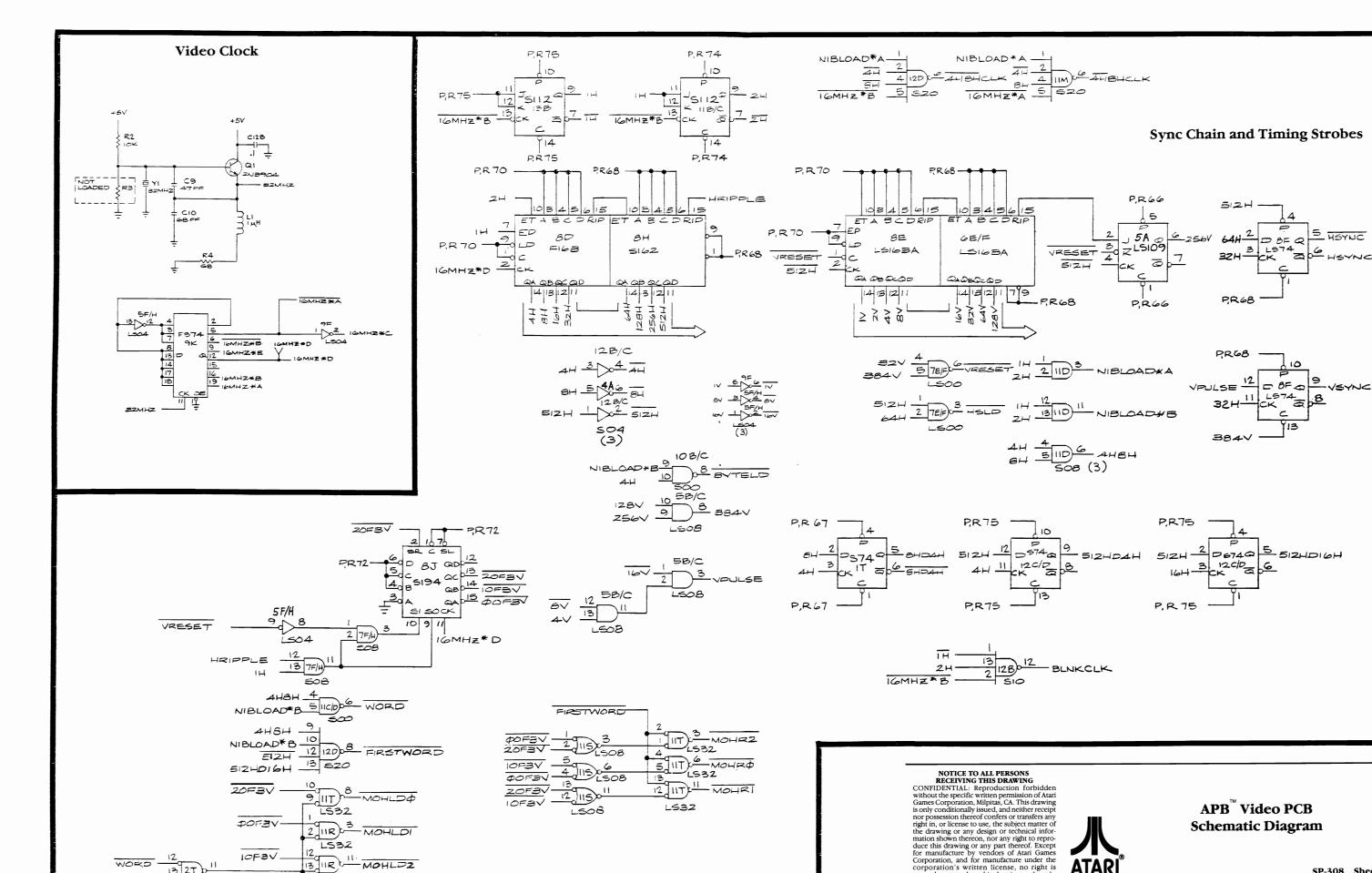


APB[™] Video PCB **Schematic Diagram**

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WORD

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532

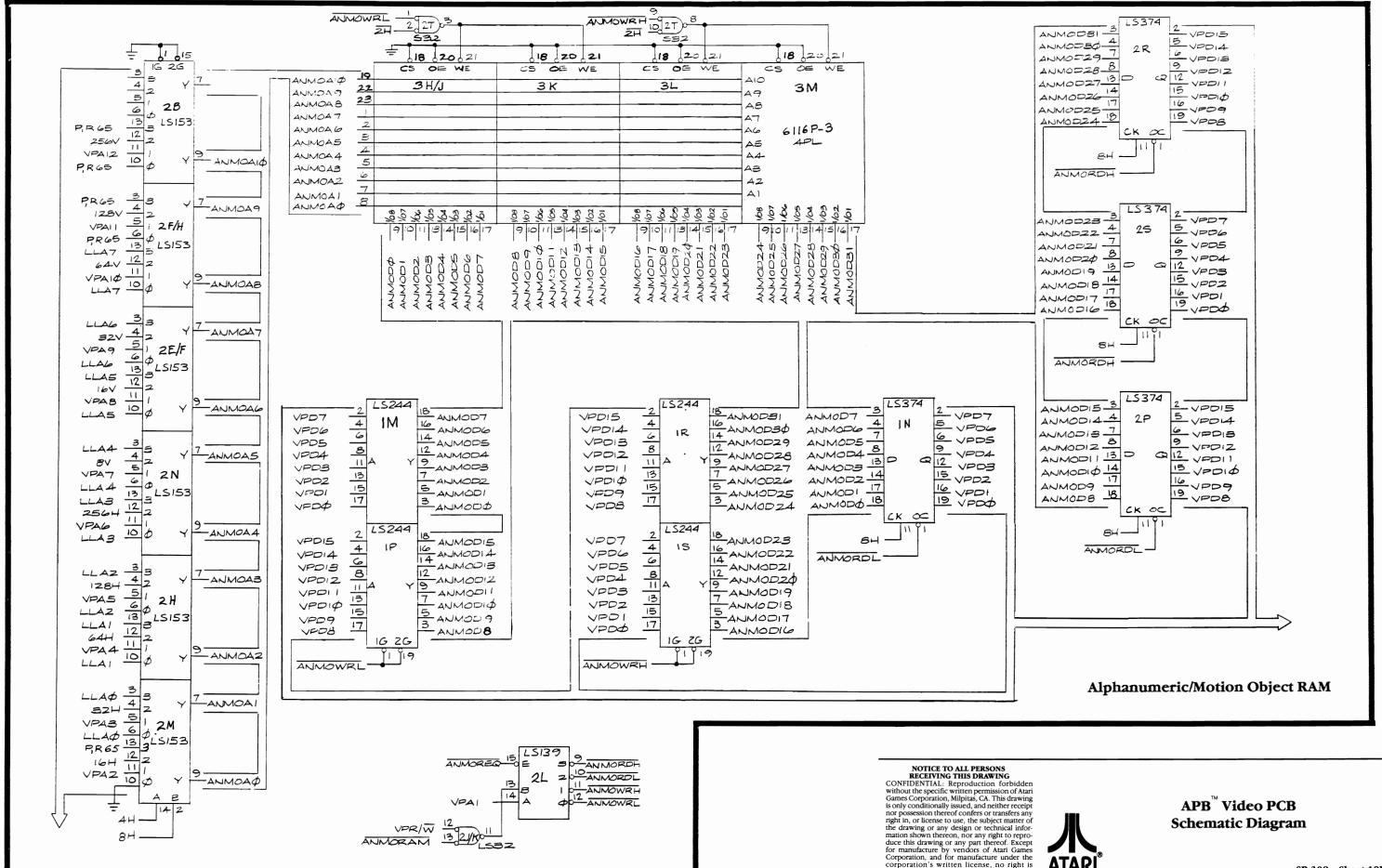
MOHLD2

L532

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ANMORAM

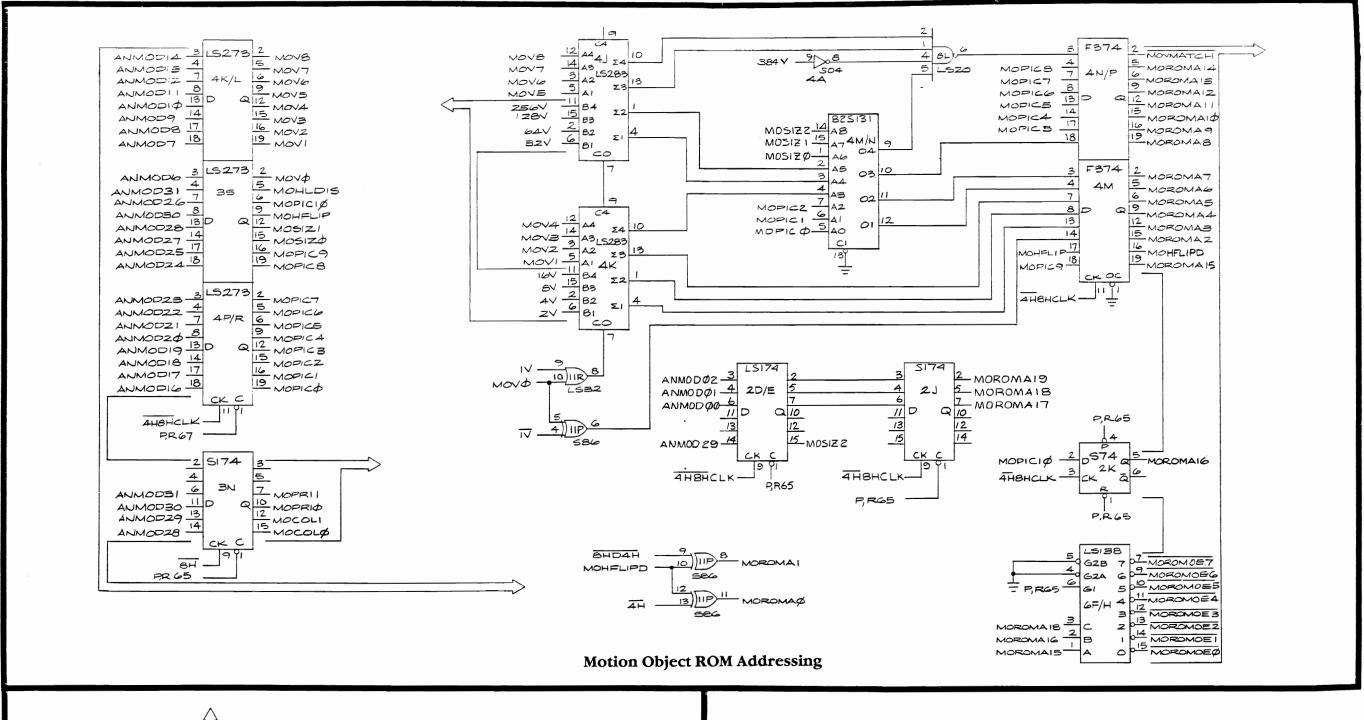
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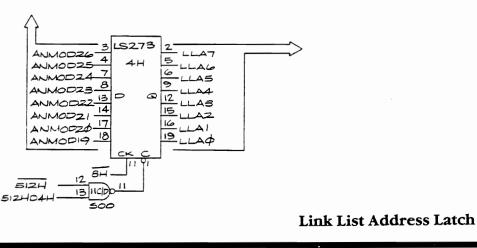
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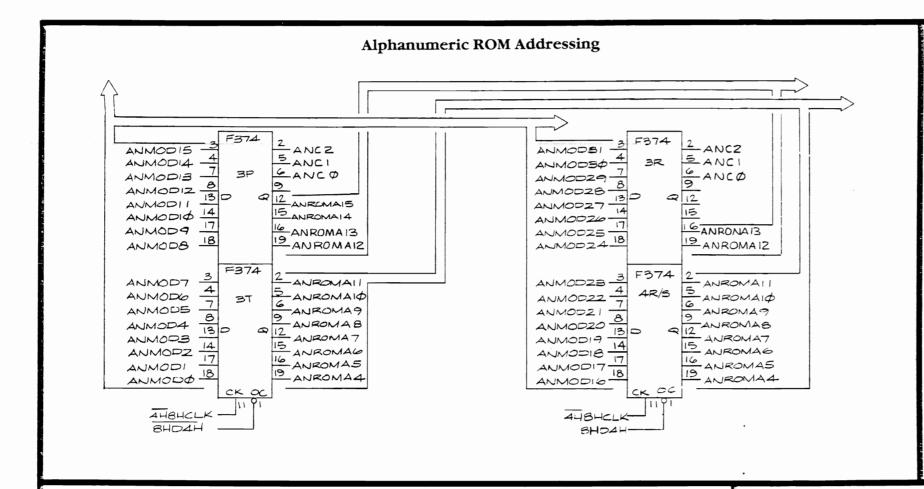
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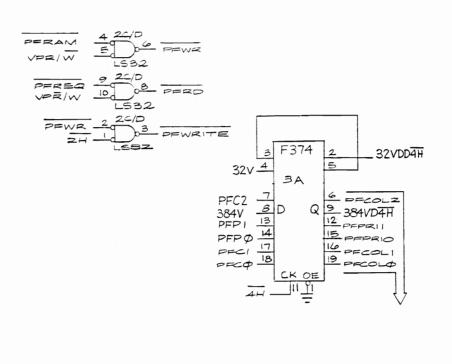


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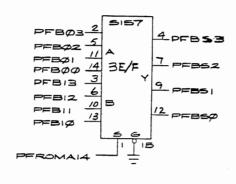
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Playfield Data Latch Strobes



Playfield Bank Select

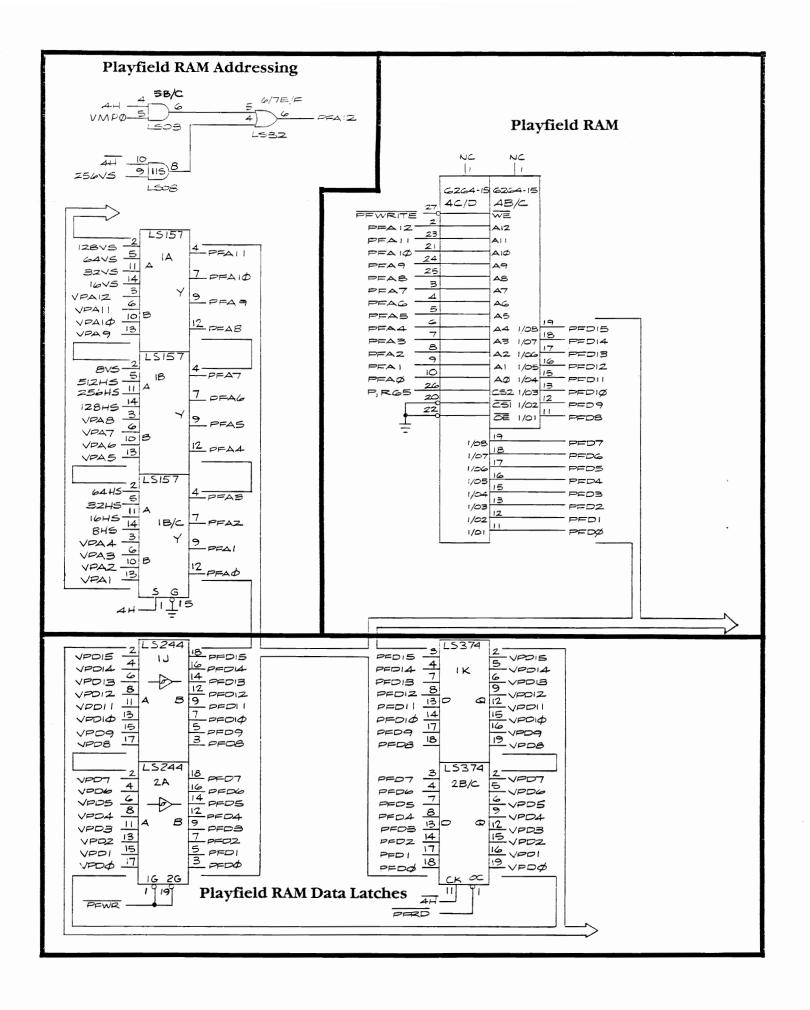
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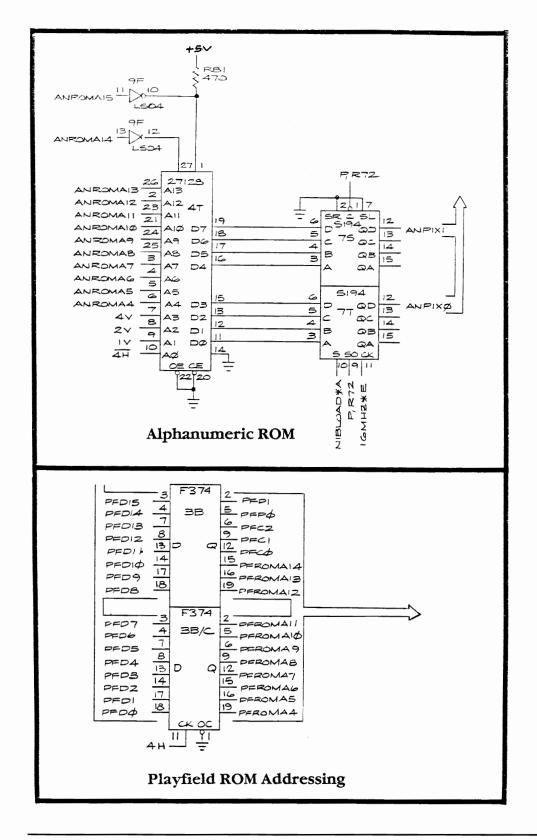


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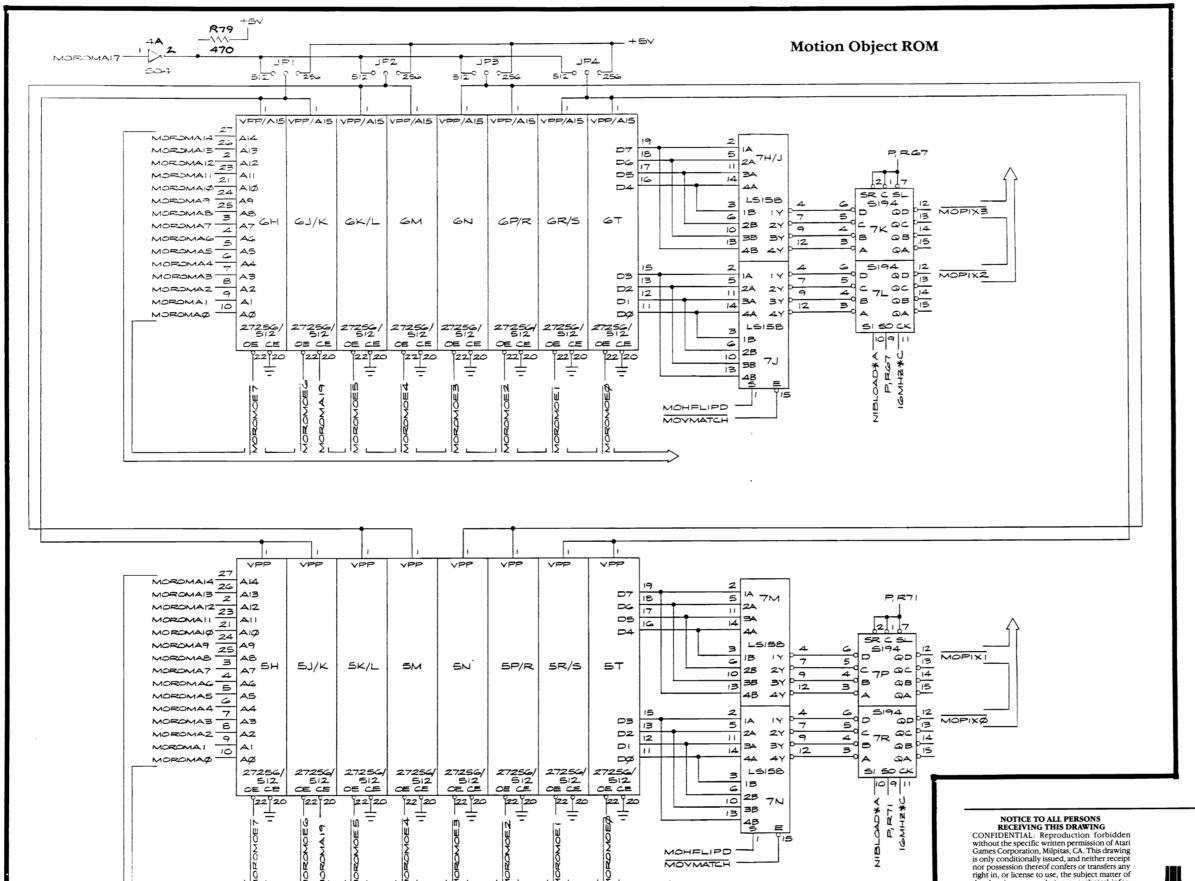
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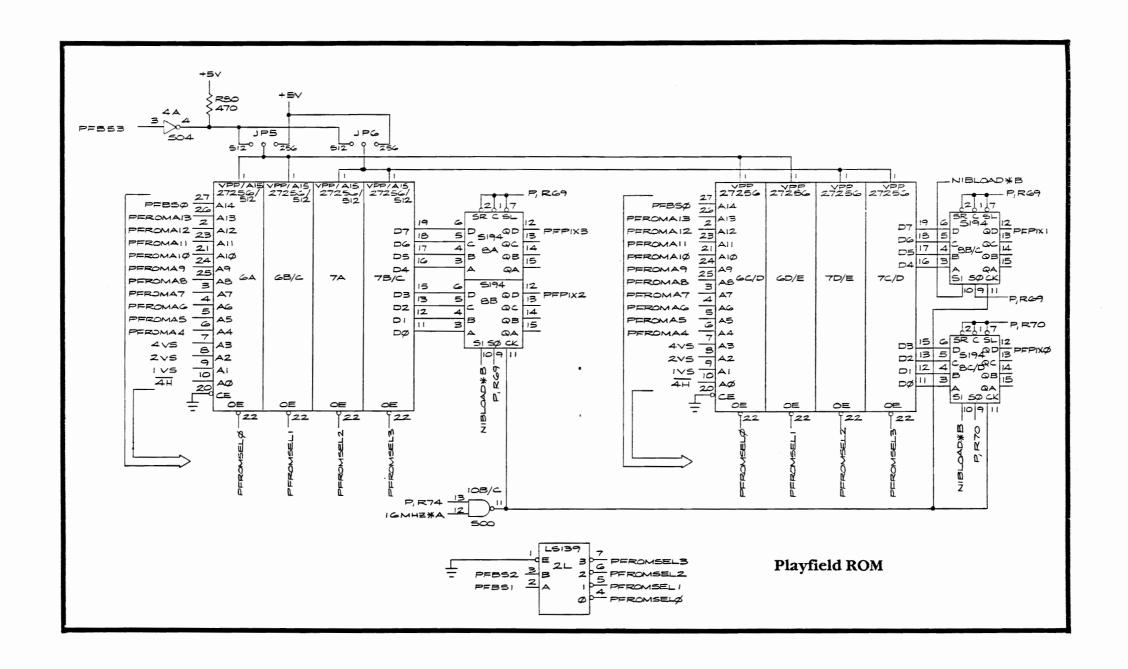
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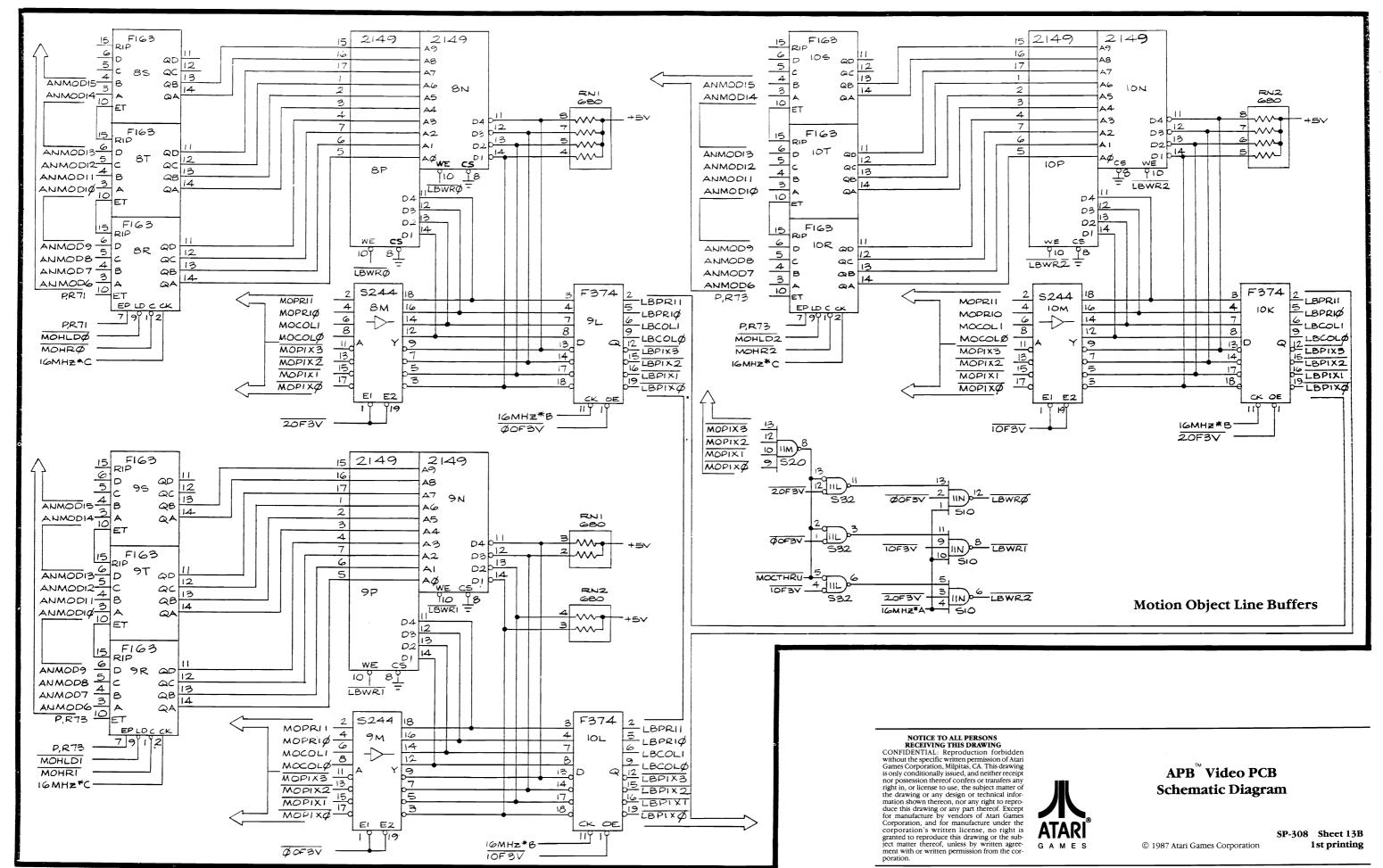
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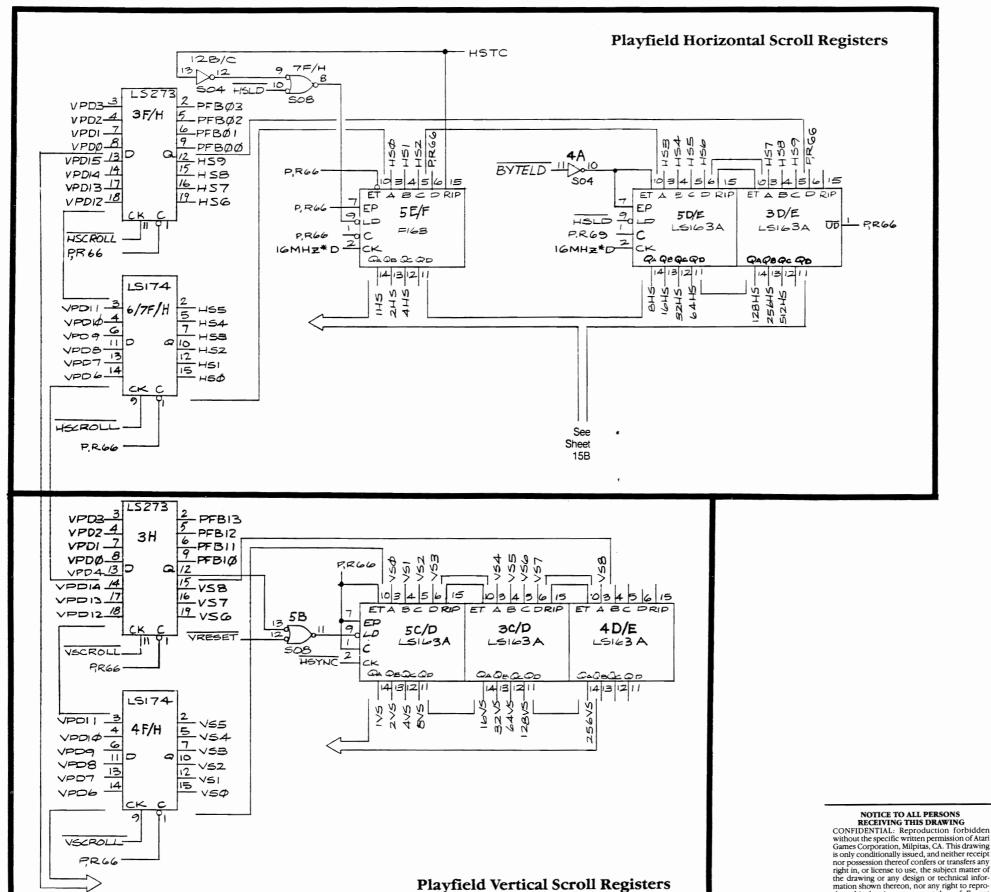


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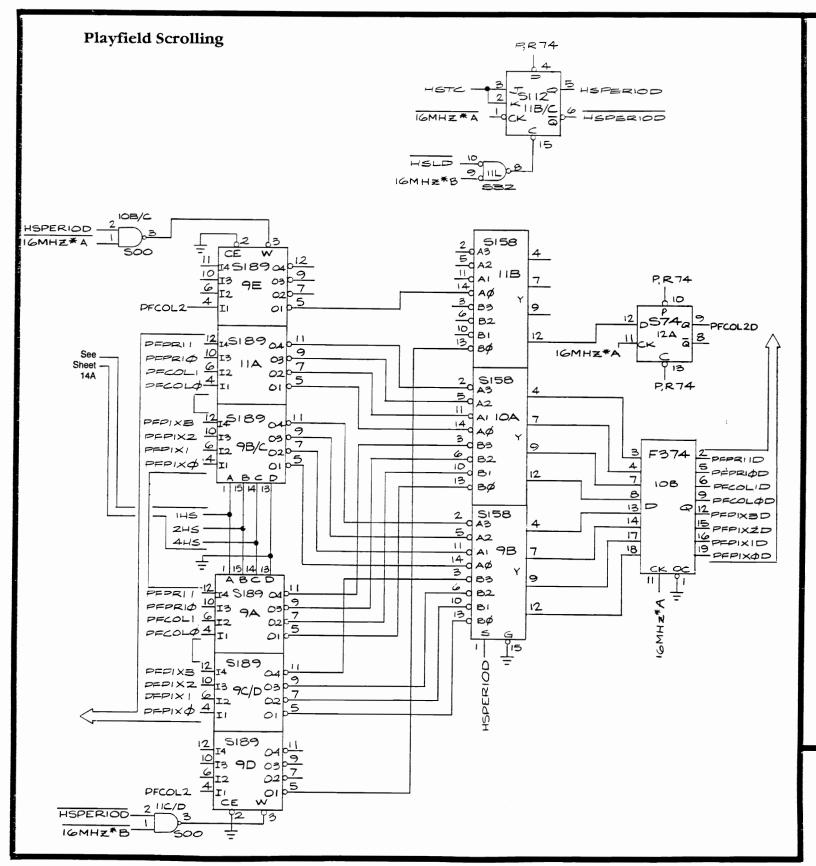
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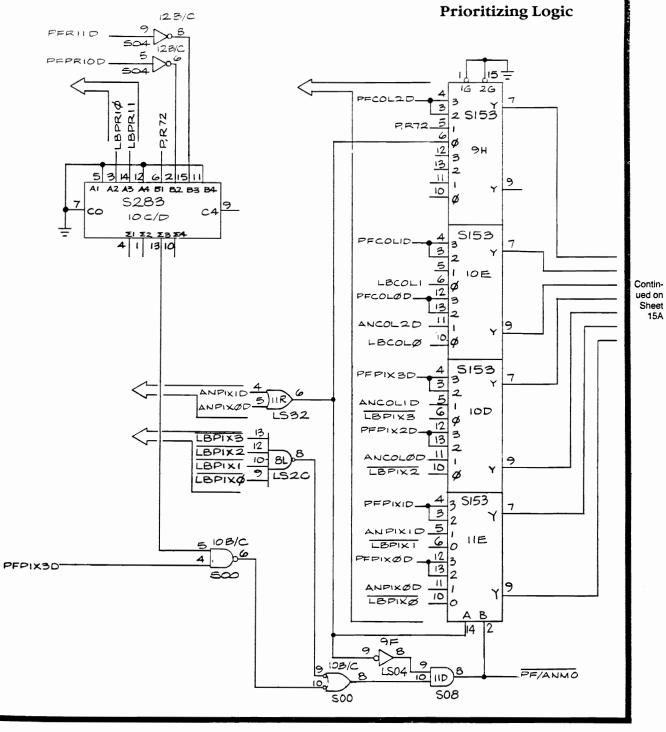


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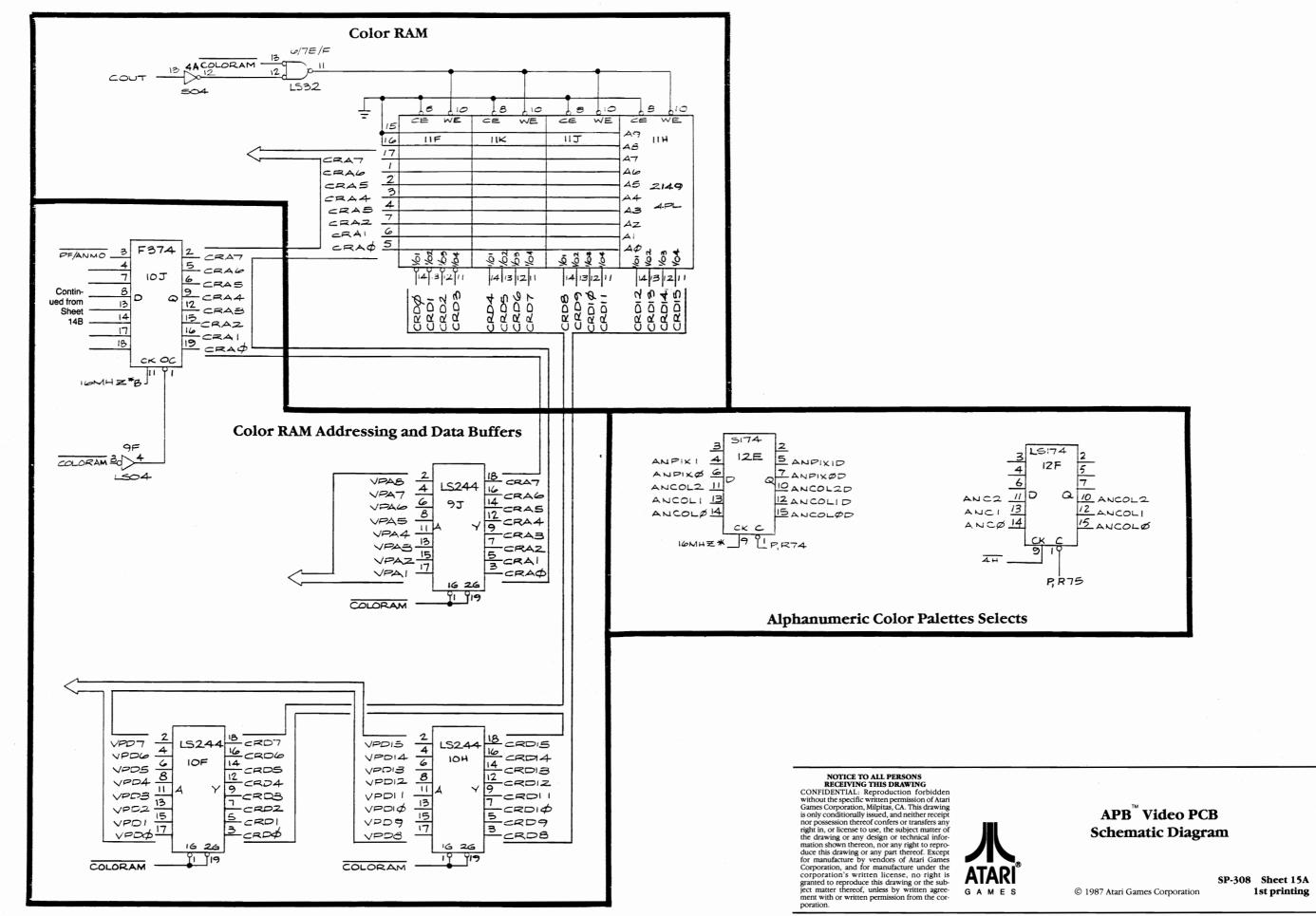
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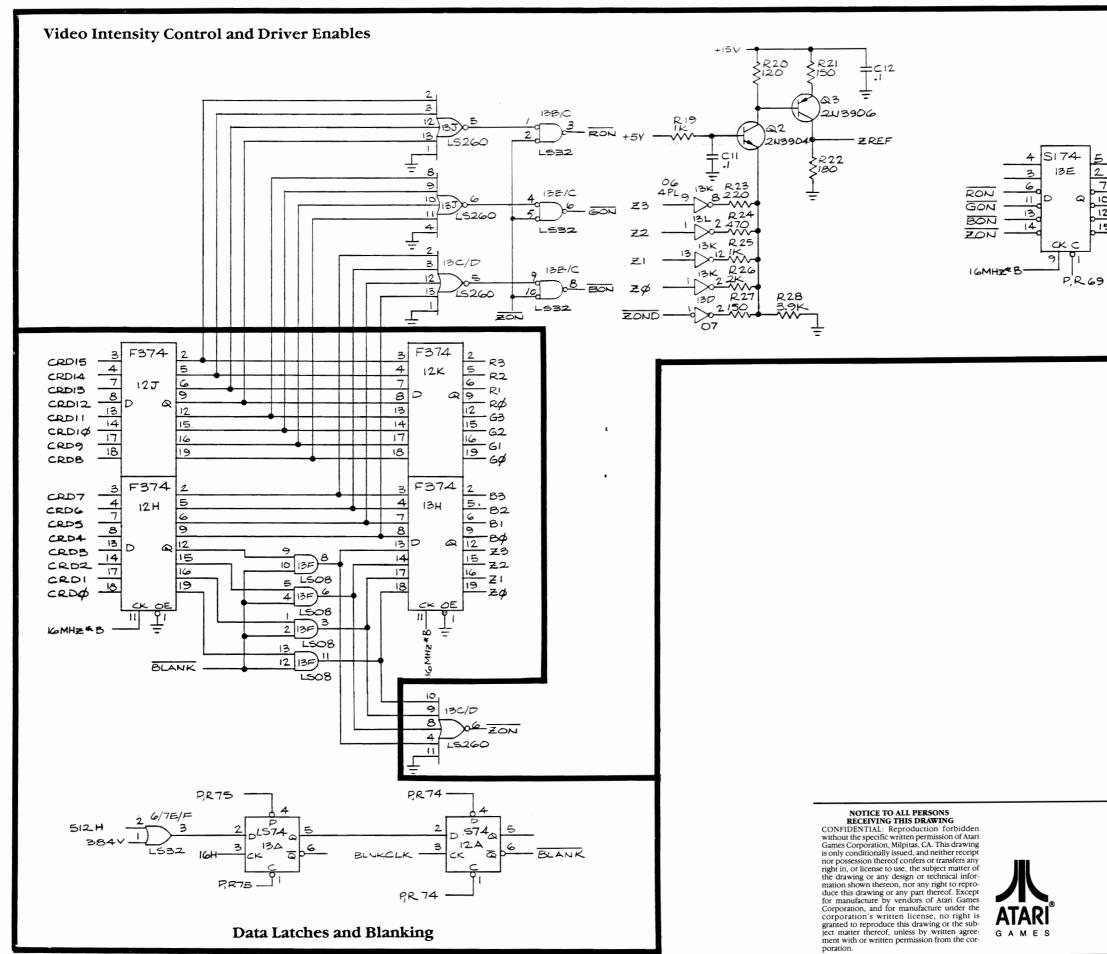


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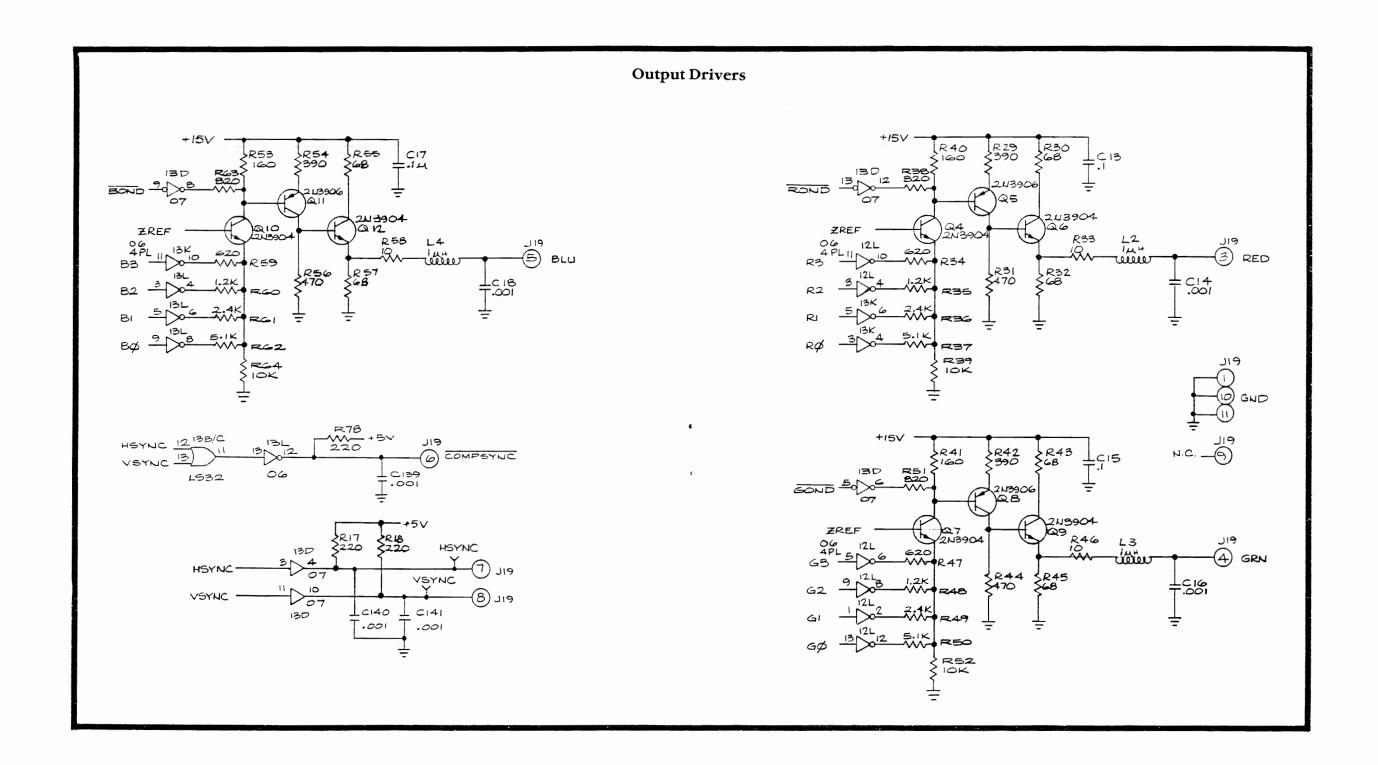
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BOND

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