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Schematic Package Supplement to Operator's Manual

**NOTE** 

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This staple temporari- 🗎 📉 ly holds the schematic package together. Remove the staple before using these schematics.



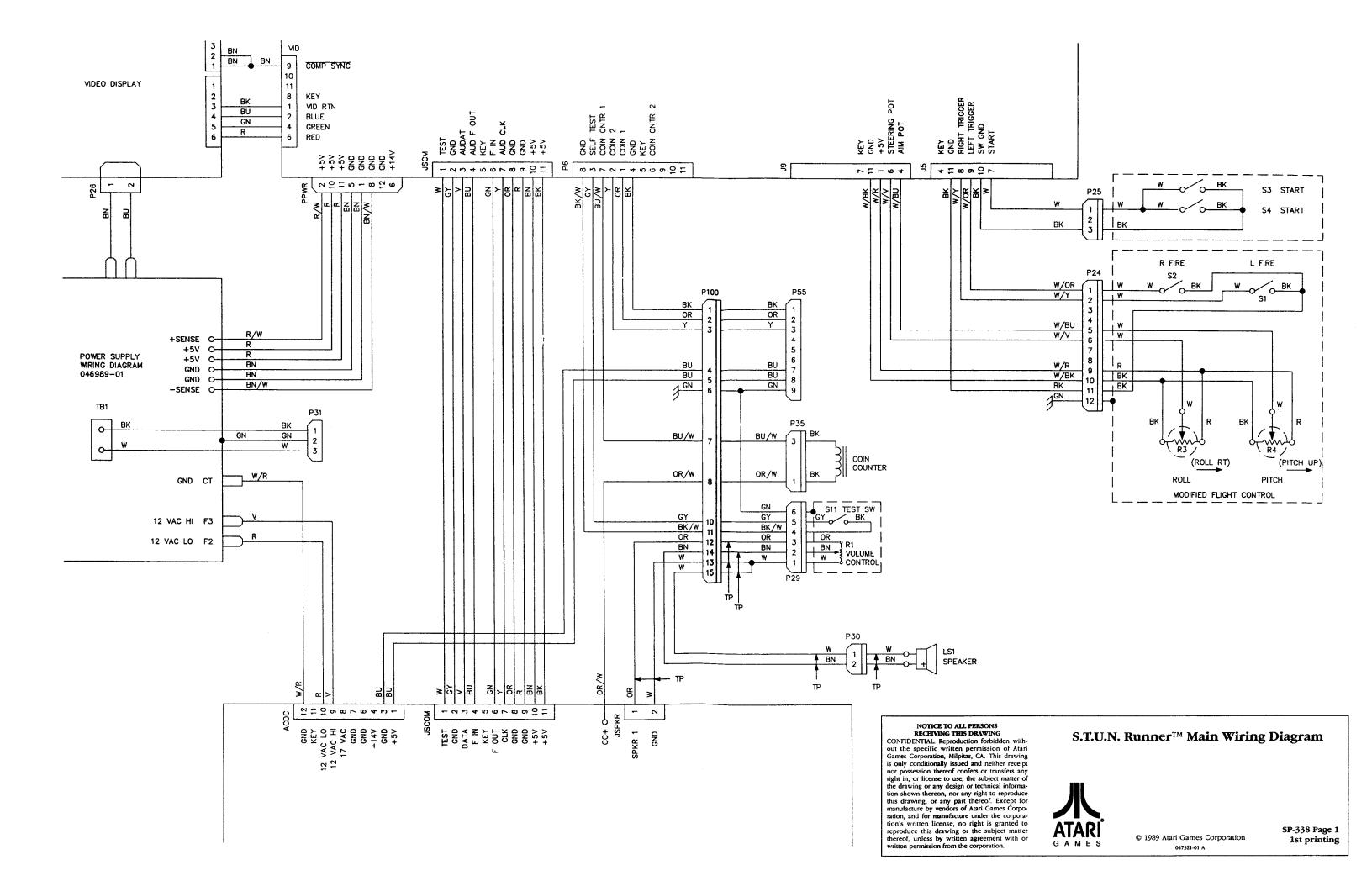
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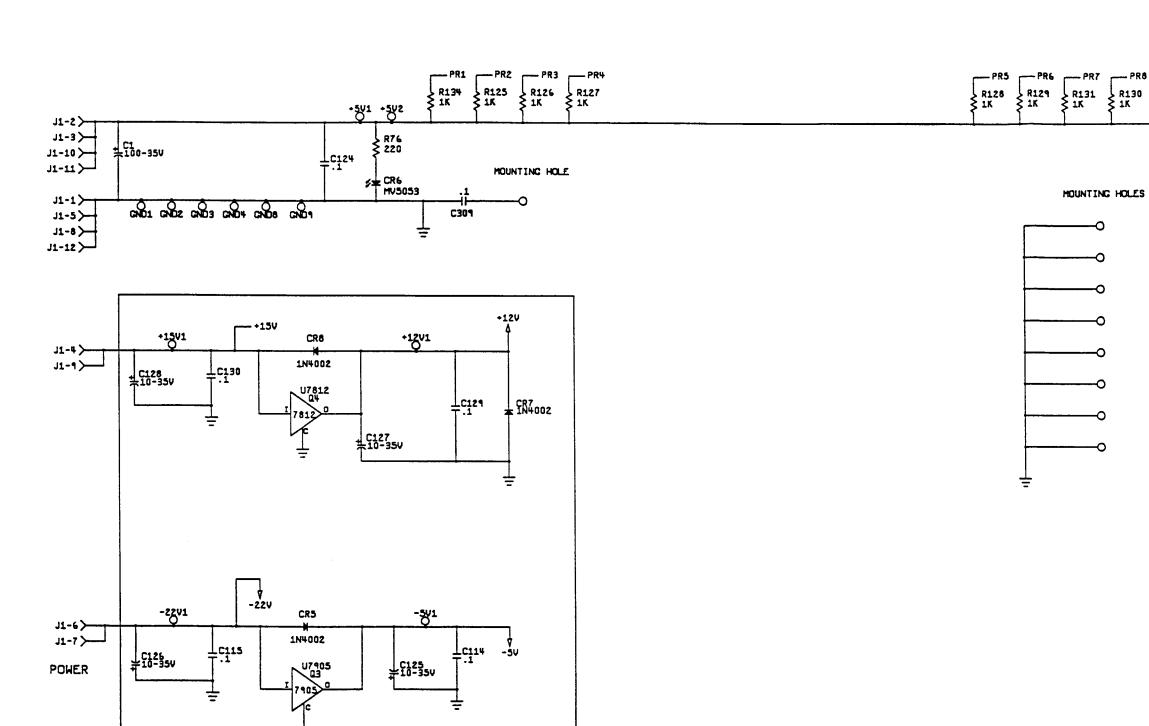
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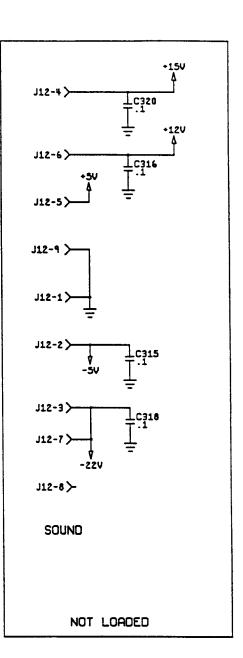
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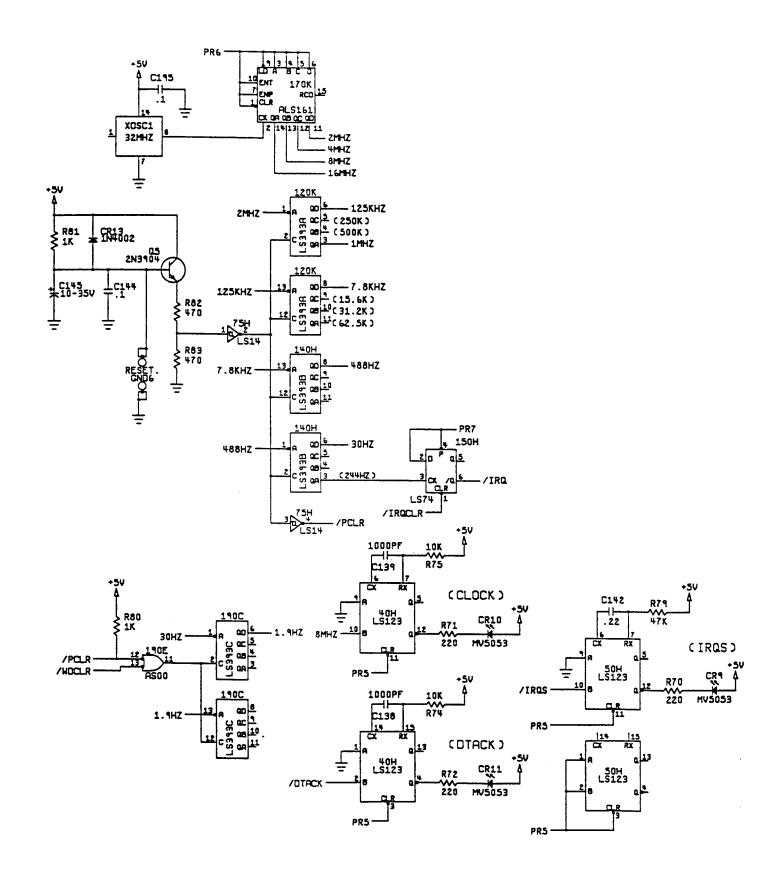
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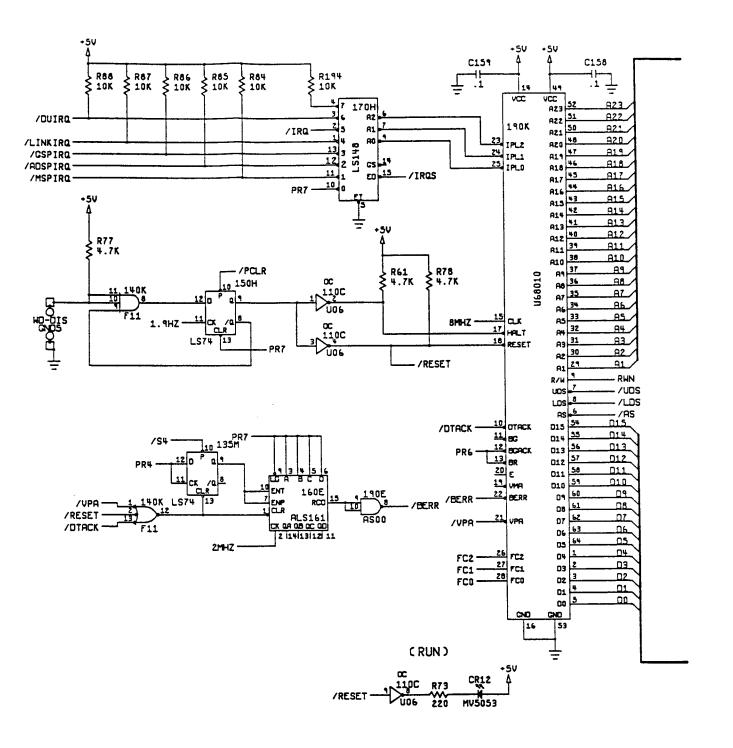
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## S.T.U.N. Runner™ Multisync Game **PCB Schematic Diagram**







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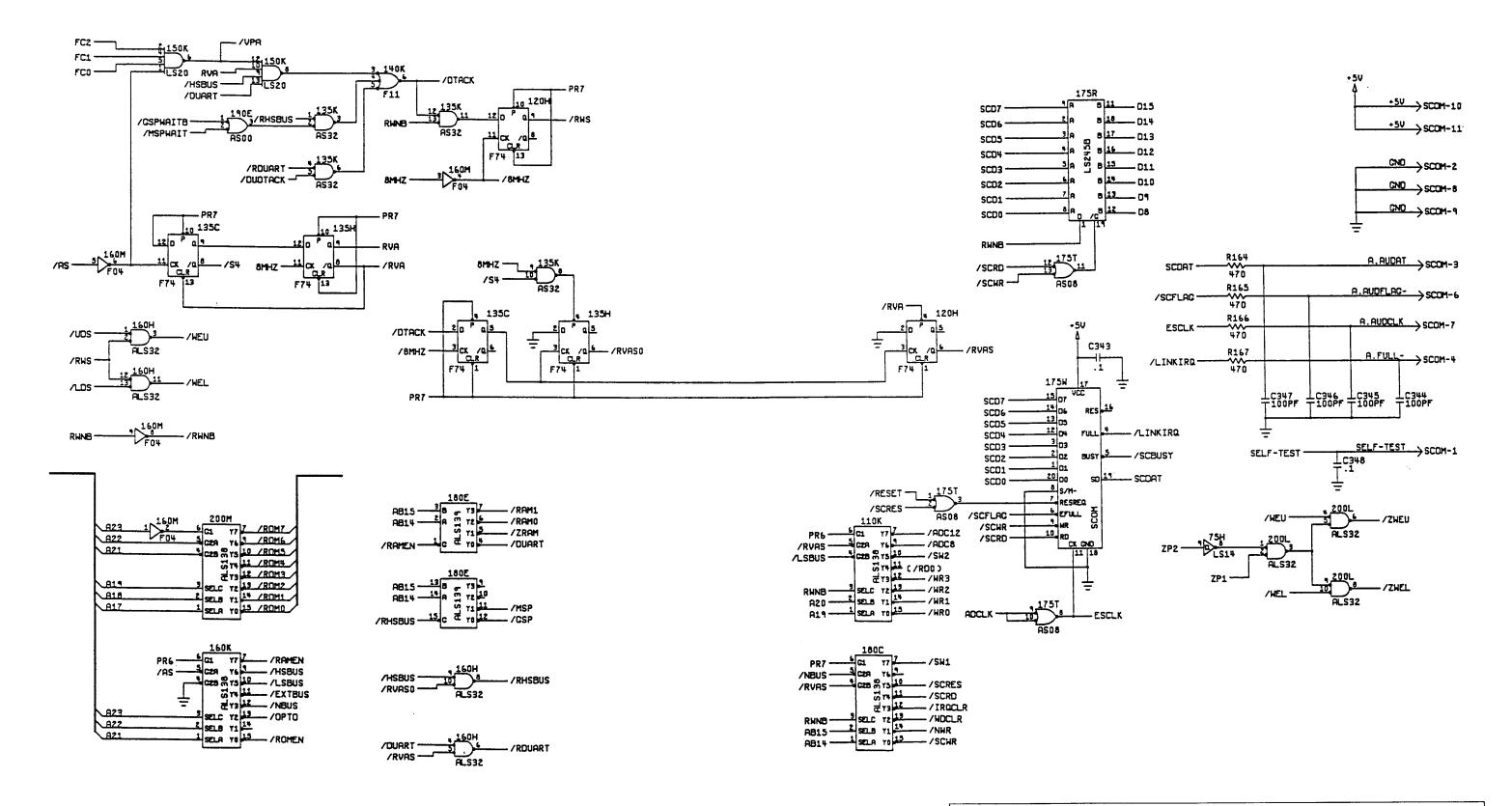
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## S.T.U.N. Runner<sup>TM</sup> Multisync Game **PCB Schematic Diagram**



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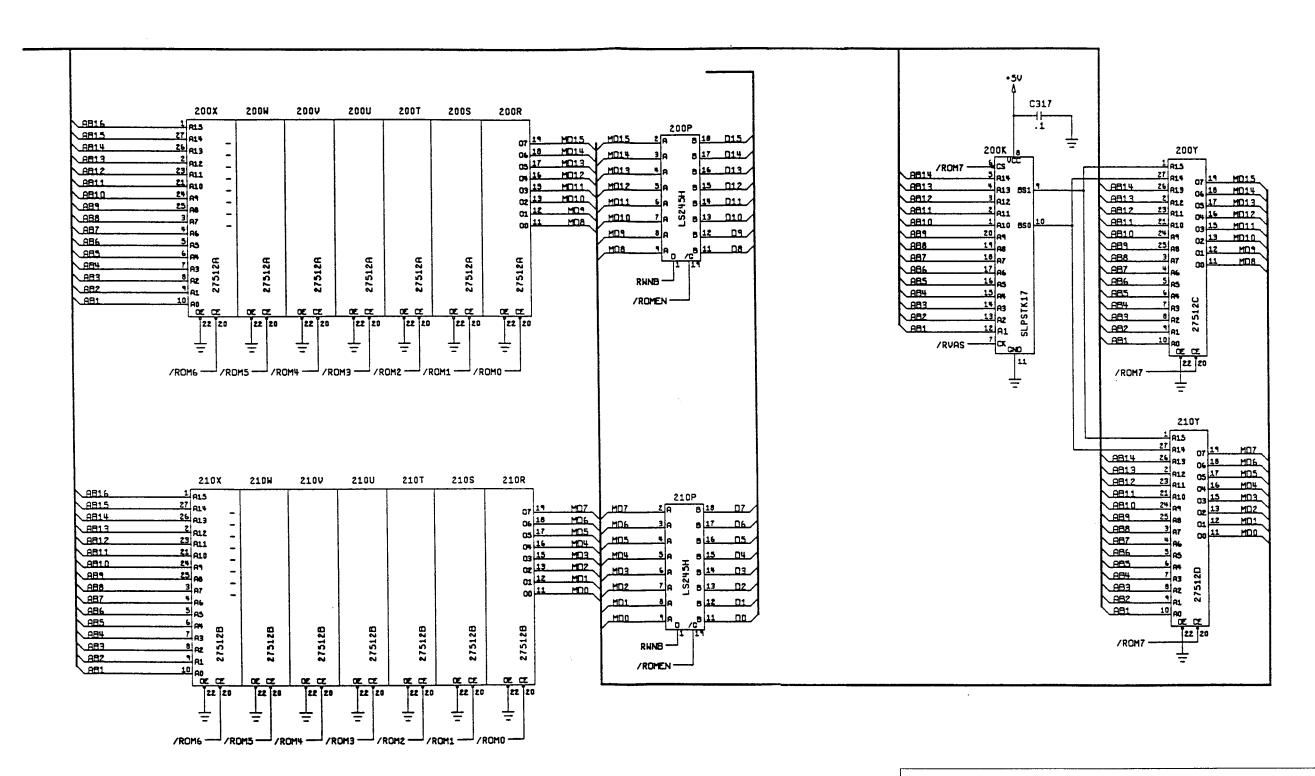
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## S.T.U.N. Runner™ Multisync Game PCB Schematic Diagram



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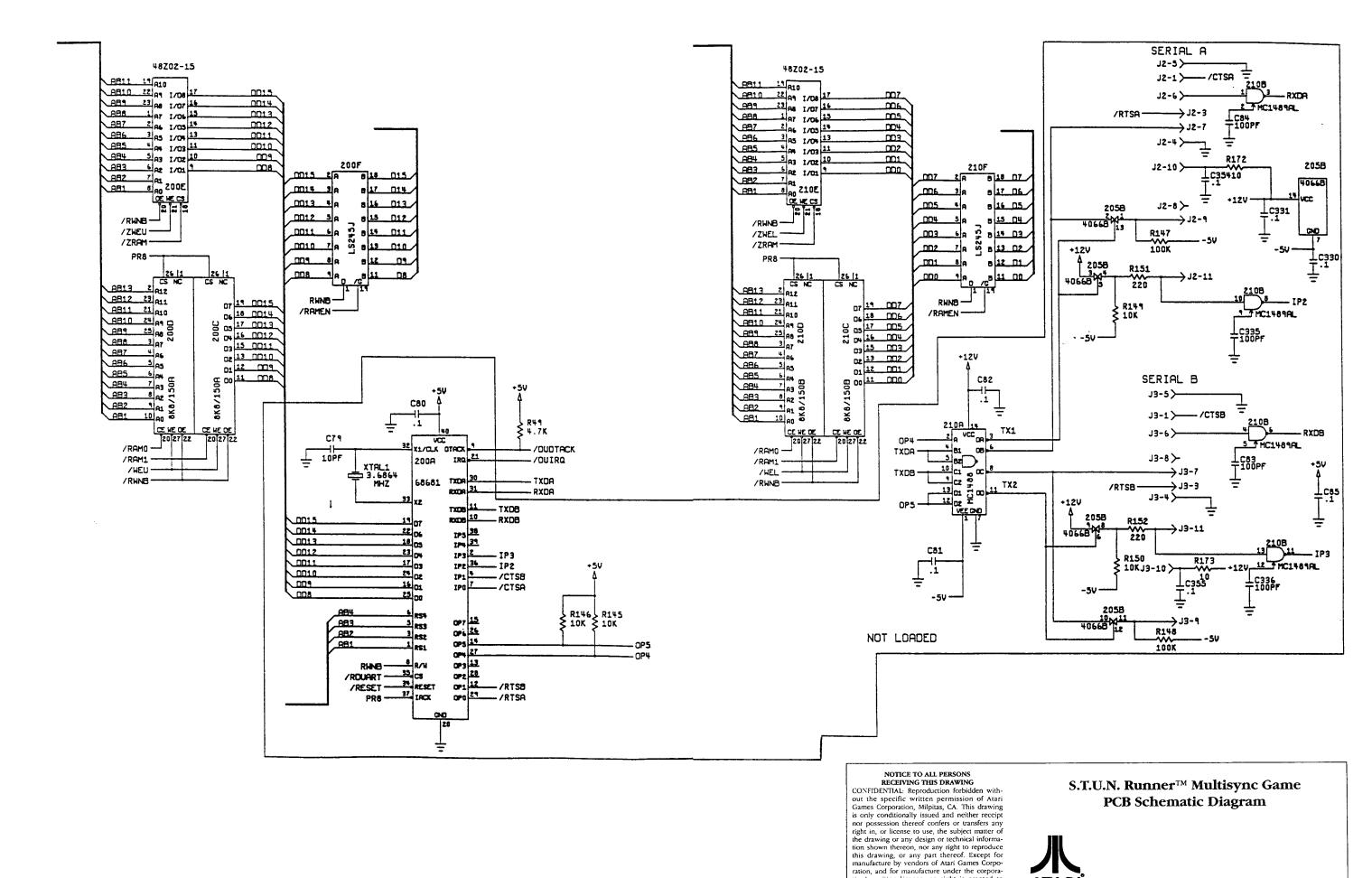
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## S.T.U.N. Runner™ Multisync Game PCB Schematic Diagram



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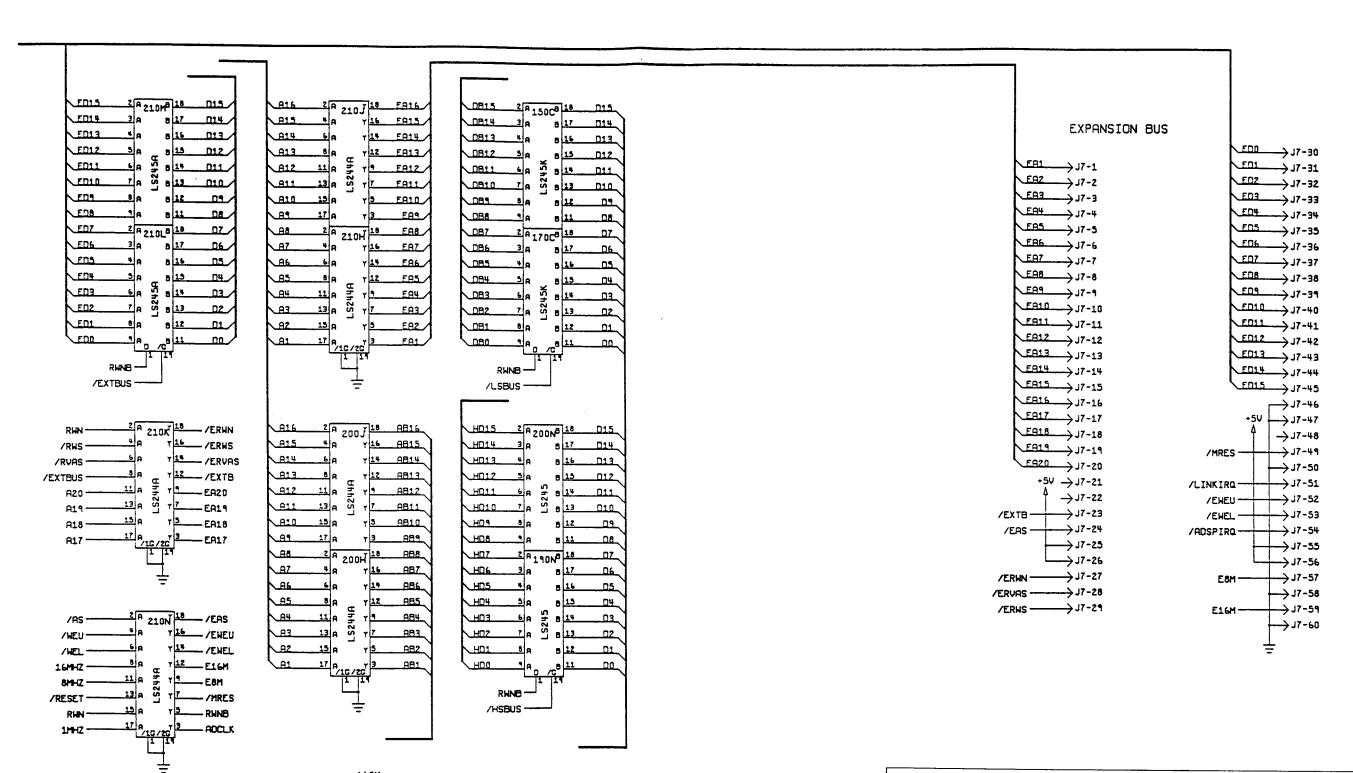
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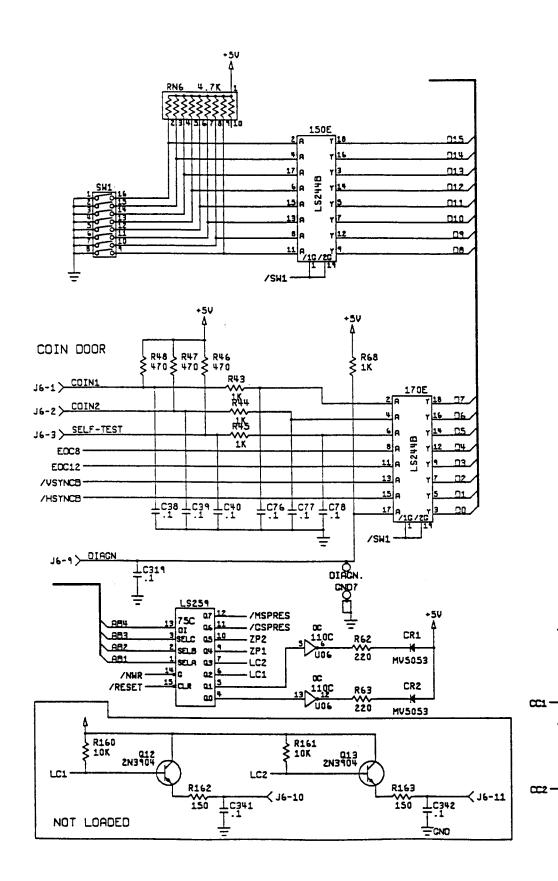
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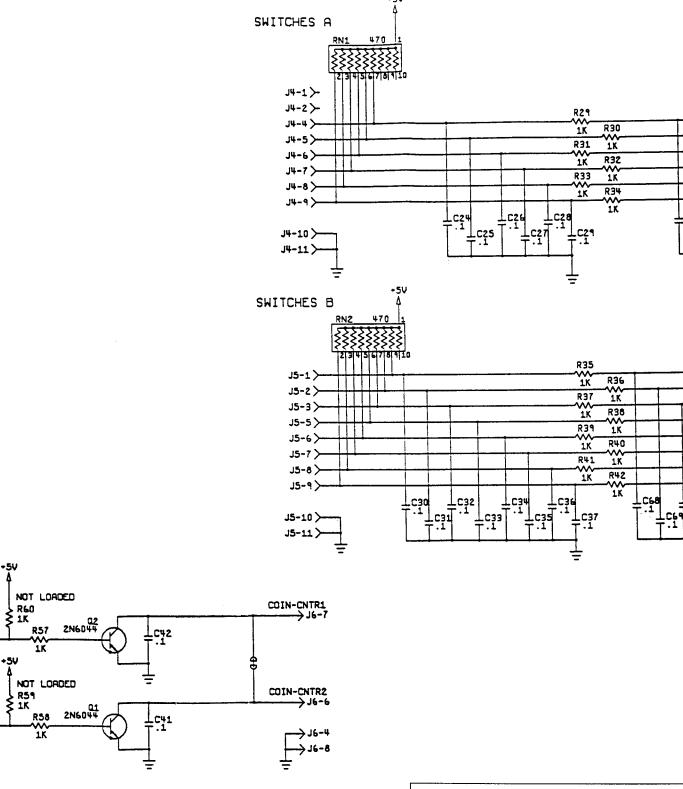
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## S.T.U.N. Runner™ Multisync Game PCB Schematic Diagram



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/SCBUSY

/CENTER

/SW2

/SH2

160C

0814

0813

0612

DB10

089

DB8

085

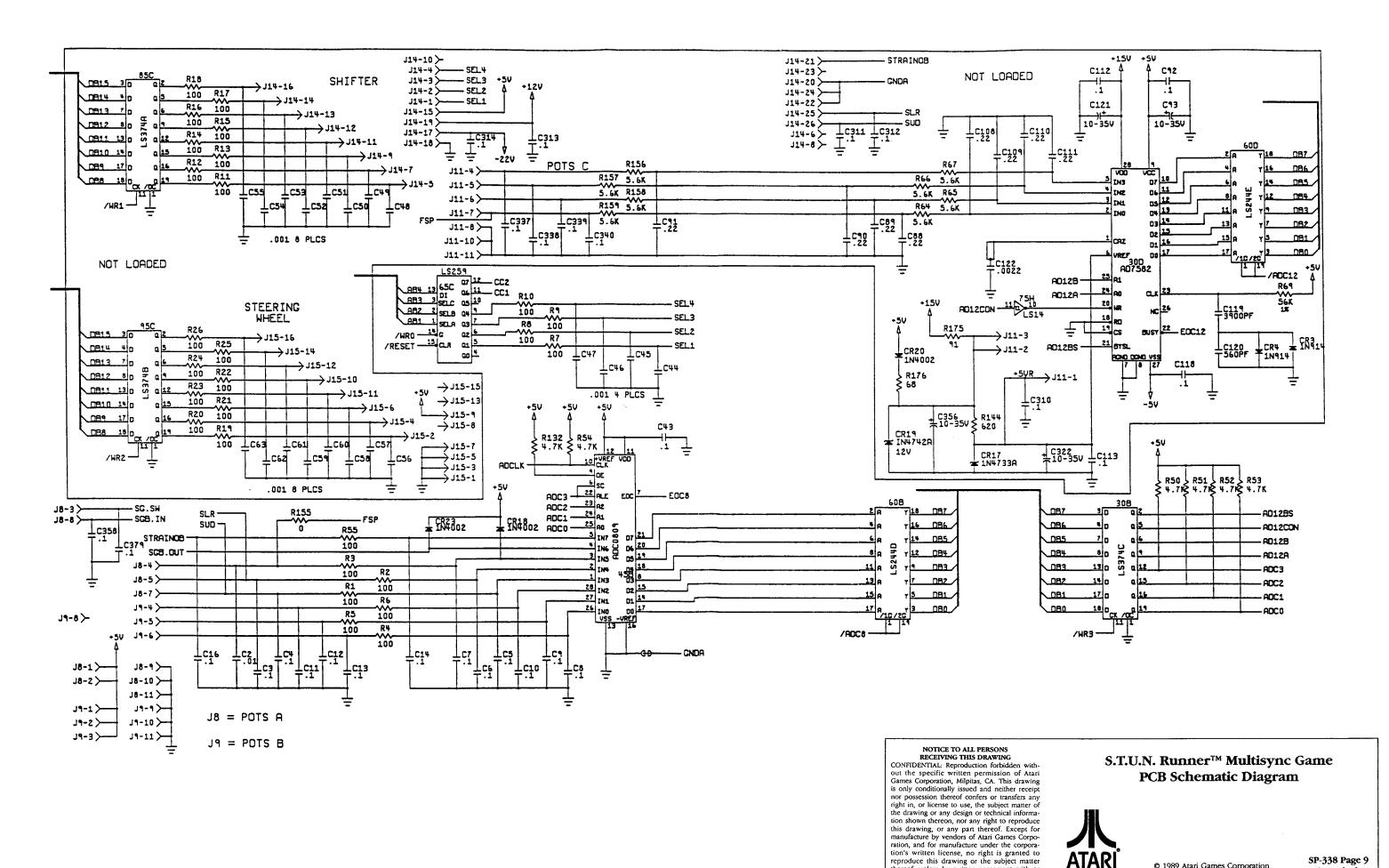
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083

DB2

081

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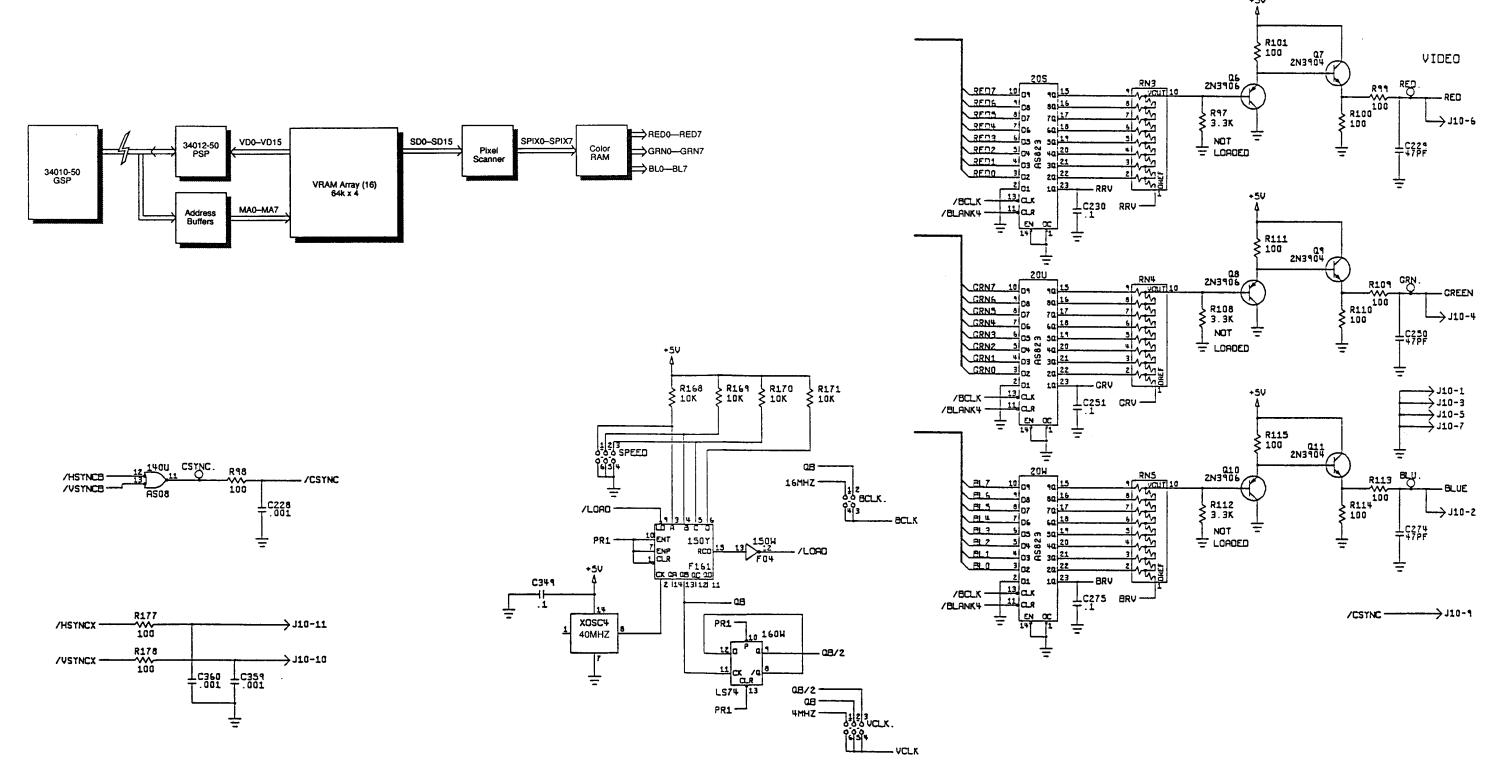


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# Correct Jumper Settings for S.T.U.N. RUNNER

Jumper	Setting
Speed	A, B
BCLK	QB
VCLK	QB/2

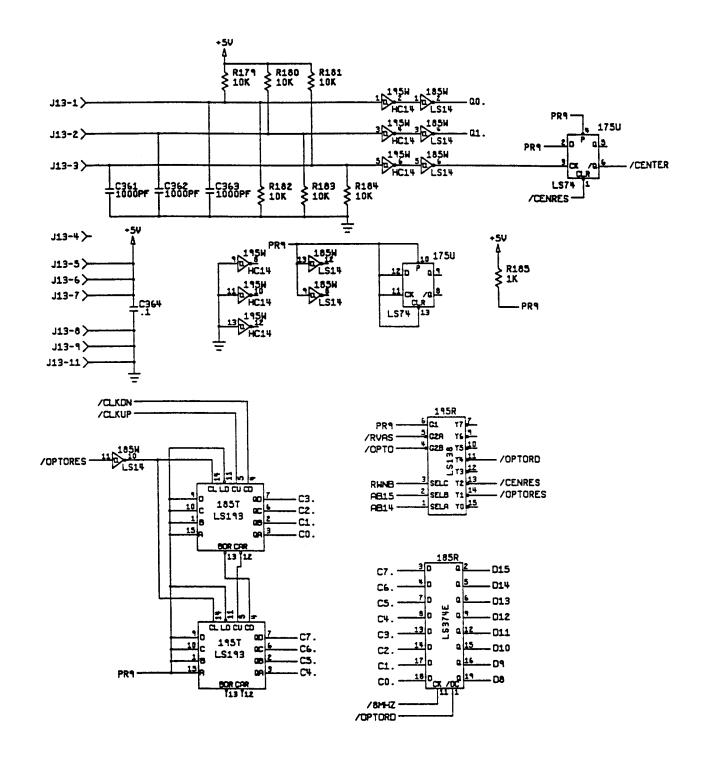
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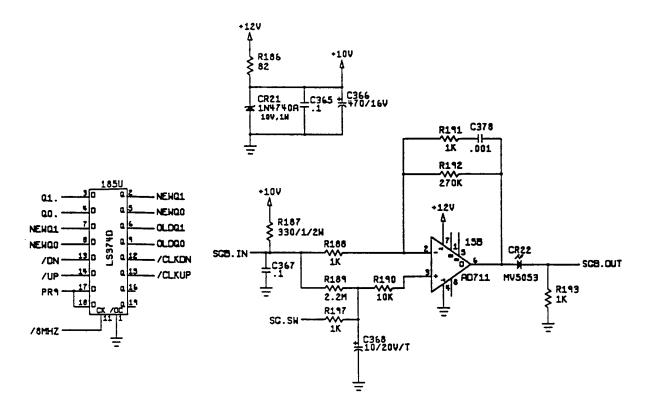
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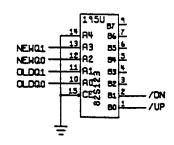
## S.T.U.N. Runner™ Multisync Game PCB Schematic Diagram



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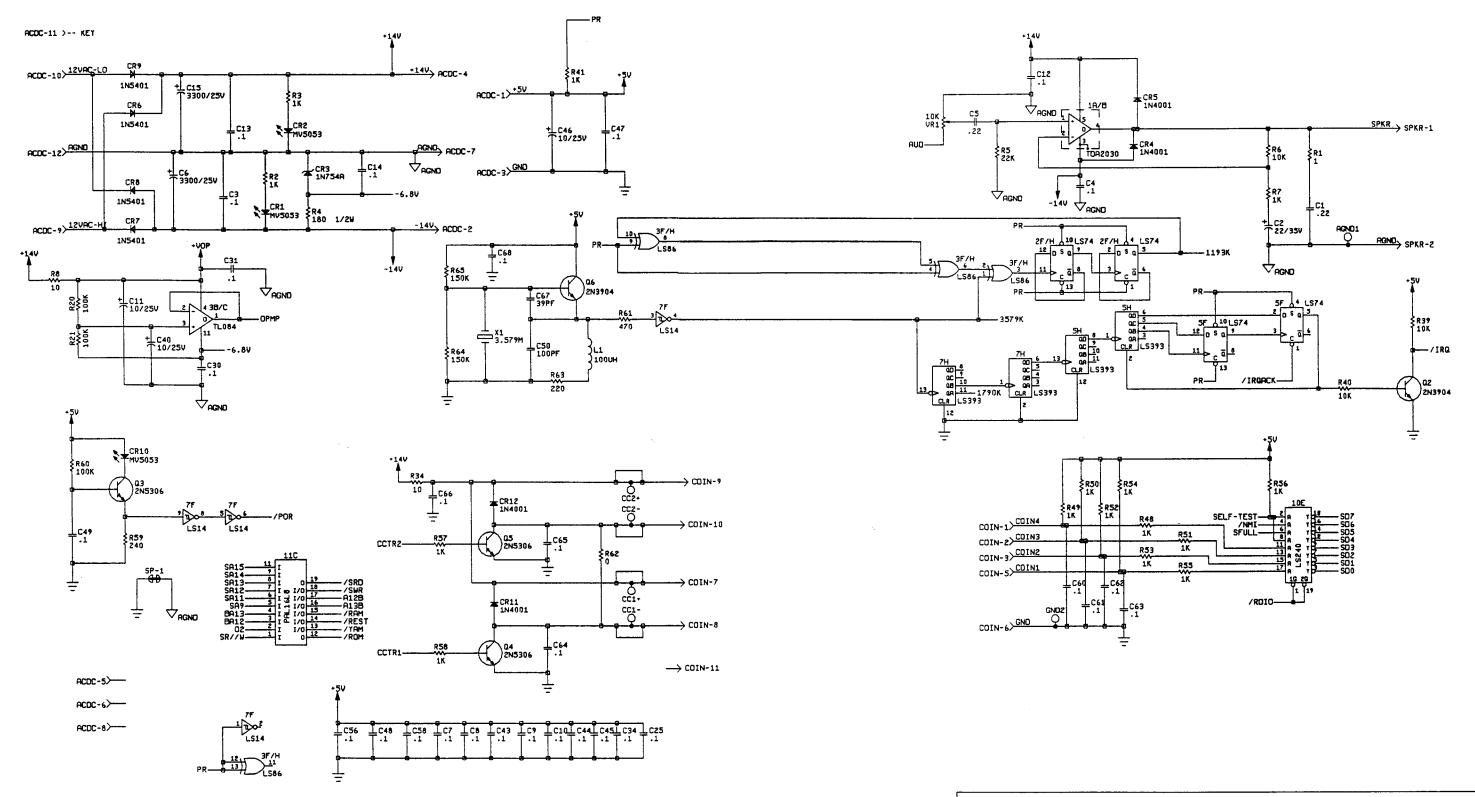
### S.T.U.N. Runner™ Multisync Game PCB Schematic Diagram



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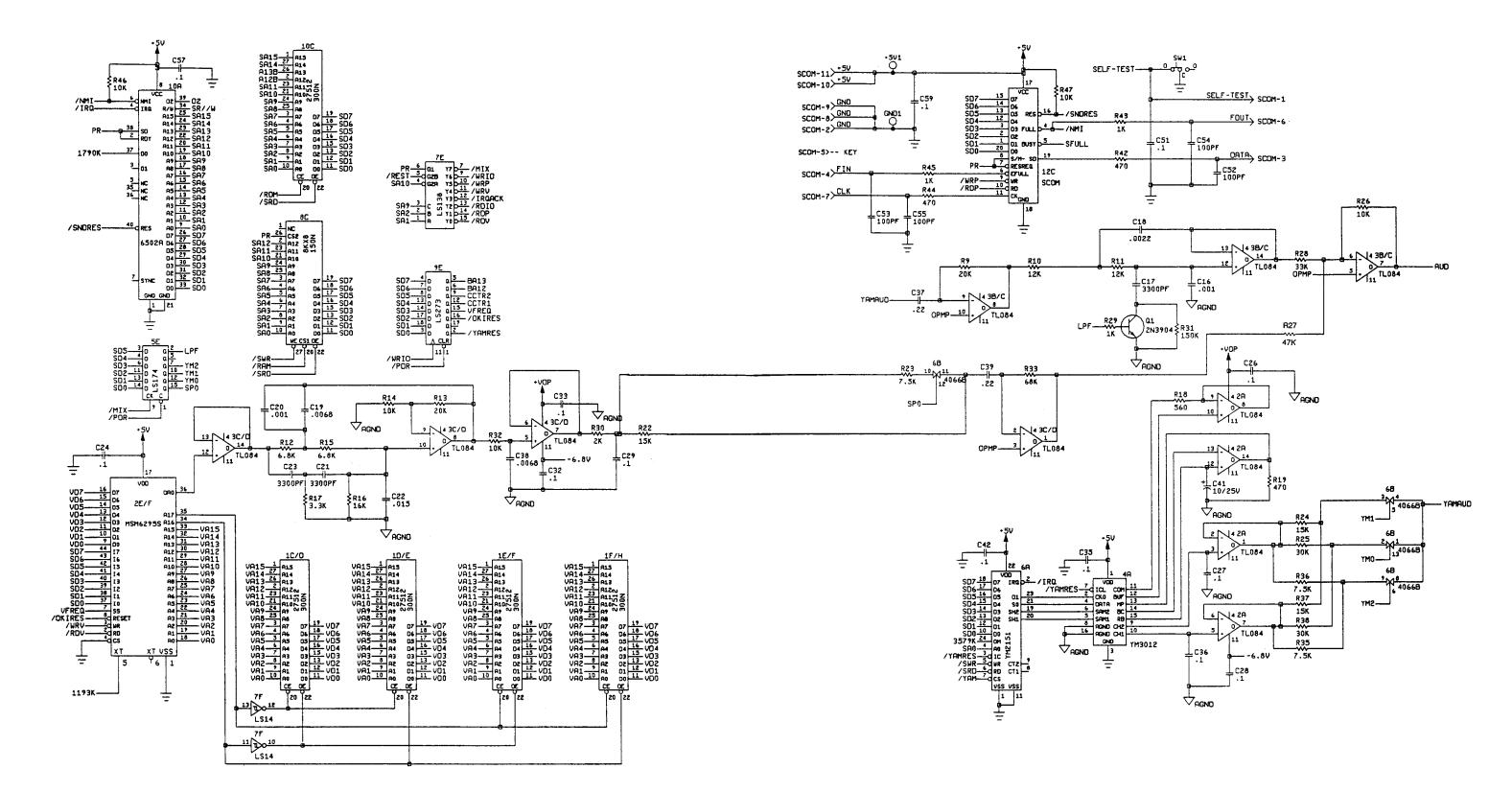
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## S.T.U.N. Runner<sup>TM</sup> SA Audio II **PCB Schematic Diagram**



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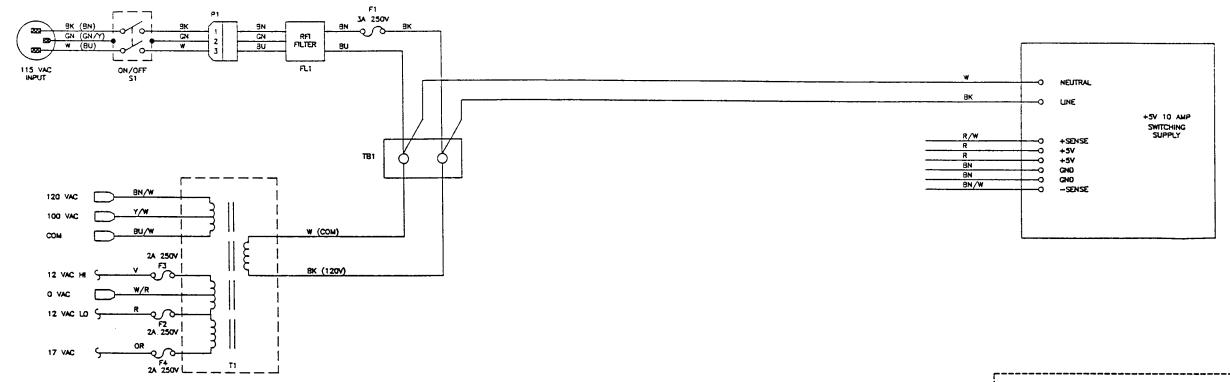
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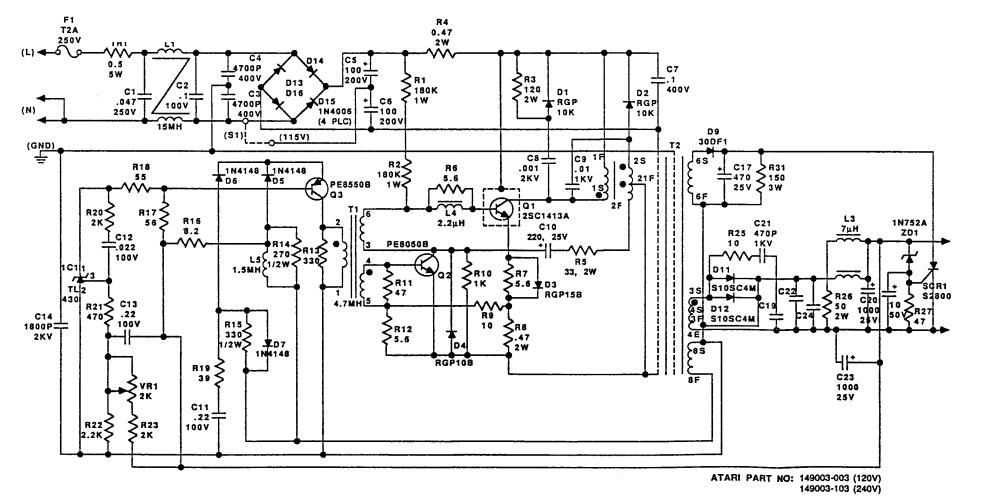
## S.T.U.N. Runner™ SA Audio II PCB Schematic Diagram

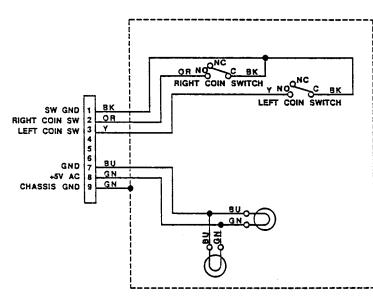


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## **Switching/Linear Power Supply**





Coin Door Wiring Diagram

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Switching/Linear Power Supply, Hitron 5V, 10A Switching Power Supply, and Coin Door Wiring Diagrams



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## **Main Board Memory Map**

		ROM	IEN: Program ROM	Read Only
00 0000 - 01 FFF 02 0000 - 03 FFF 04 0000 - 05 FFF 06 0000 - 07 FFF	F F	ROM 0 ROM 1 ROM 2 ROM 3	128K Bytes 128K Bytes 128K Bytes 128K Bytes	
08 0000 - 09 FFF 0A 0000 - 0B FFF 0C 0000 - 0D FFF 0E 0000 - 0F FFF	FF FF	ROM 4 ROM 5 ROM 6 ROM 7	128K Bytes 128K Bytes 128K Bytes 128K Bytes	
		ОРТО	): Optical Steering W	/heel Reader
40 0000 40 4000 40 8000	{R} {W} {W}	OPTORD OPTORES CENRES	Read the Optical Counter Reset the Optical Counter Reset the Optical Center Fi	ag
60 0000 60 4000 60 4000	{R/W} {R} {W}	SCOM SCRES	NBUS Serial Sound Communication Reset SCOM IC (Address Statches on Address Strobe	Strobe) READ ONLY
60 4000 60 4002	LED 1 off LED 2 off			
60 4004 60 4006 60 4008 60 400A 60 400C 60 400E	LC1ON LC2ON ZP1WEN ZP2WDIS GSP Rese MSP Rese		Aux Control 1 High Aux Control 2 High ZeroPower RAM Enable 1 ZeroPower RAM Disable 2	
60 4010 60 4012 60 4014 60 4016 60 4018 60 401A 60 401C 60 401E	LED 1 on LED 2 on LC1OFF LC2OFF ZP1WDIS ZP2WEN GSP Rese MSP Rese		Aux Control 1 High Aux Control 2 High ZeroPower RAM Disable 1 ZeroPower RAM Enable 2	
60 8000 60 C000	(W) {R}	WDCLR SW1	Clear Watch Dog (Address	Strobe)
D15 D14 D13 D12 D11 D10 D9 D8	Option Sw Option Sw Option Sw Option Sw Option Sw Option Sw Option Sw Option Sw	itch 6 itch 5 itch 4 itch 3 itch 2 itch 1	(0' = on) (0' = on) (0' = on) (0' = on) (0' = on)	
D7 D6 D5	Coin Swite Coin Swite Seif-Test S	th 2	(0, = ou) (0, = ou)	

## Main Board Memory Map, Contd.

D4 D3 D2 D1 D0	8 Bit ADC, End of Conversion = '1' 12 Bit A/D, End of Conversion = '1' Vertical Sync from GSP Horizontal Sync from GSP Diagnostic Switch ('0' = on)			
60 C000	{W}	Clear Timer IRQ (Address Strobe)		
		LSBUS		
A0 0000 A0 0000	{R} {W} Latches on	WR0, Write to Shifter Interface and Coin Counters. Address Strobe (Data is ignored)		
A0 0000 A0 0002 A0 0004 A0 0006	SEL 1 Low SEL 2 Low SEL 3 Low	,		
A0 0008 A0 000A	SEL 4 Low			
A0 000C A0 000E	Coin Cointe			
A0 0010 A0 0012 A0 0014 A0 0016	SEL 1 High SEL 2 High SEL 3 High	1		
A0 0018	SEL 4 High			
A0 001A A0 001C A0 001E	Coin Count			
A8 0000 A8 0000	{R} {W}	/SW2, Sixteen External Switch Inputs /WR1, Shifter Interface Latch, D8 - D15		
B0 0000 B0 0000	{R} {W}	/RD2, Read 8 Bit A/D /WR2, Steering Wheel Latch, D8- D15		
B8 0000 B8 0000	{R} {W}	/RD3, Read 12 Bit A/D /WR3, A/D Control		
D8 - AD12BS D7 - AD12CON D6 - AD12B D5 - AD12A		12 Bit A/D Byte Select 12 Bit A/D Write 12 Bit A/D Address 1 12 Bit A/D Address 0		
D3 - ALE, SC D2 - ADDC D1 - ADDB D0 - ADDA	8 Bit A/D V	Vrite 8 Bit A/D Address C 8 Bit A/D Address B 8 Bit A/D Address A		
		RAMEN: Ram and DUART {R/W		
FF 0000 FF 4000 FF 8000 FF C000	- FF BFFF	ZRAM (4K Bytes) RAM 0 (16K Bytes) RAM 1 (16K Bytes)		

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S.T.U.N. Runner™ Memory Map



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