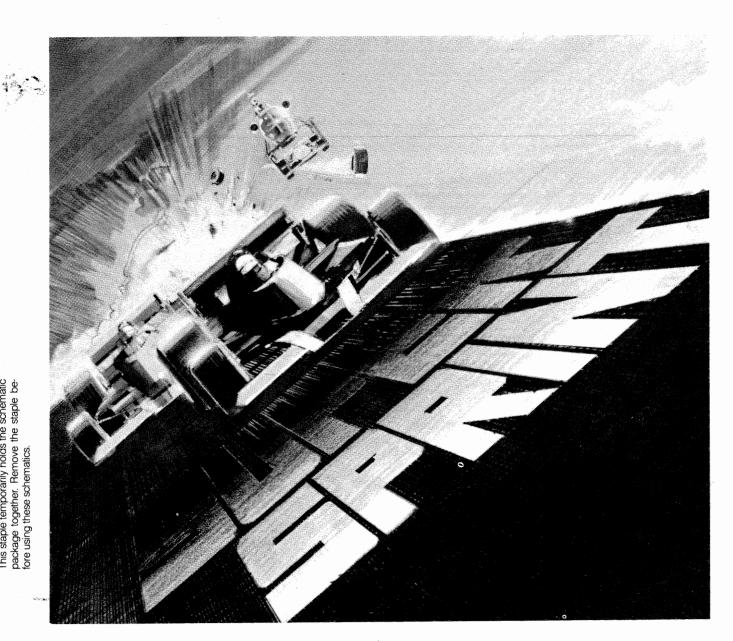
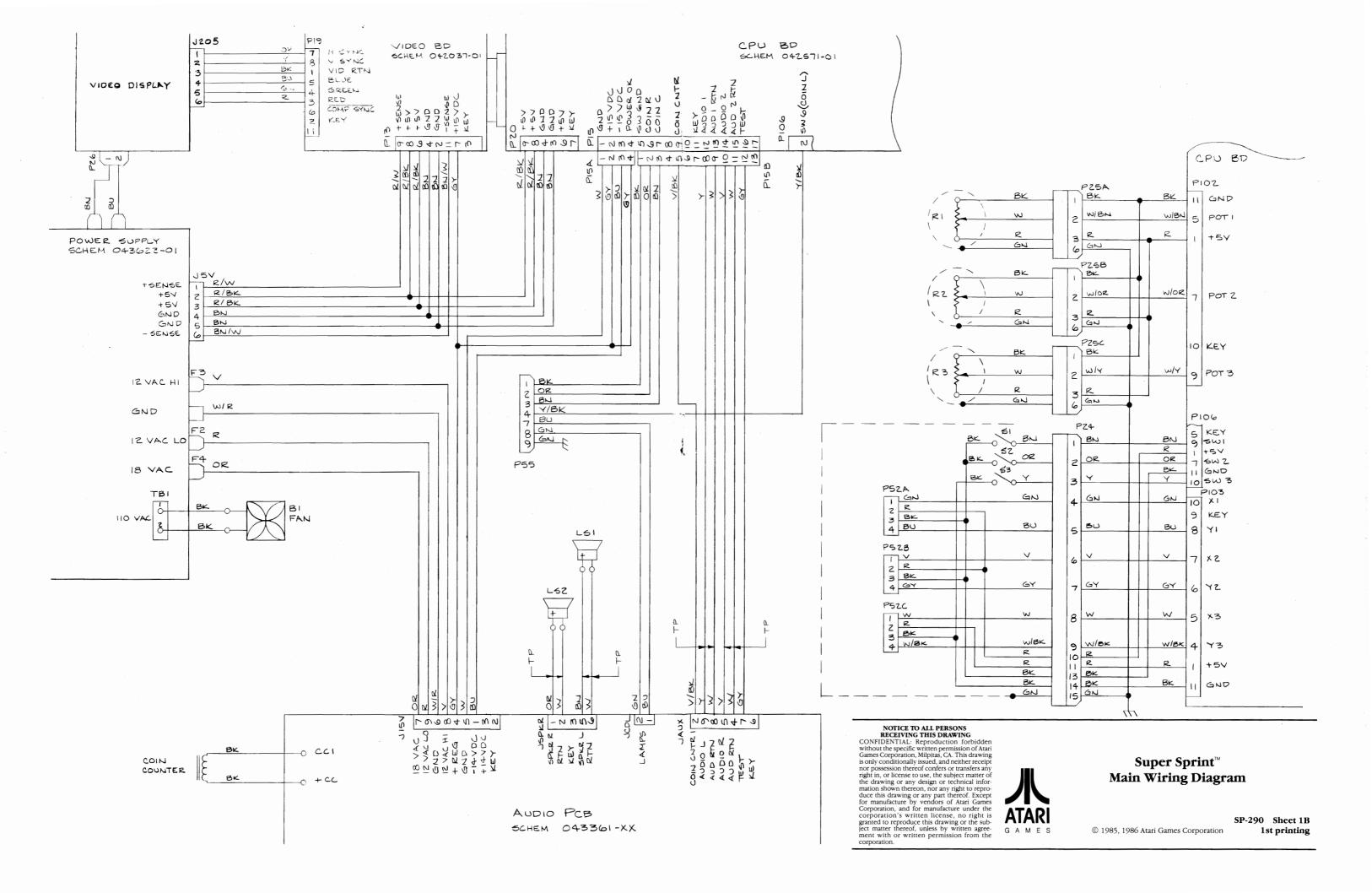
Table of Contents

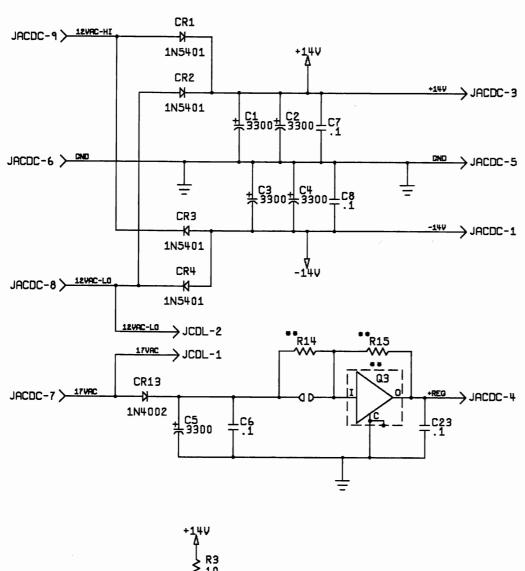
Sheet 1B	Audio Output Drivers, Sound Effects Op-	
	tion Switches, Steering Wheel Inputs	Sheet 9B
Sheet 2A		
Sheet 2B		
Sheet 3A	Super Sprint Video PCB Schematic D	iagrams:
Sheet 3B	Power Input	Sheet 10A
offeet 3B		Sheet 10I
Sheet 4A		
/-	Strobes	Sheet 11A
Sheet 4B	Alphanumeric/Motion Object RAM	Sheet 11I
agrams:	Motion Object ROM Addressing, Link List	Chaot 12
Sheet 5A		Sheet 12
	Data Latch Strobes, Playfield Bank	Sheet 12I
		SHEET 121
Sheet 5B	•	
		Sheet 13A
Sheet 6A	Alphanumeric ROM, Motion Object	
Shoot 6D	ROM	Sheet 13I
SHEEL OD	Motion Object ROM Addressing, Playfield	Chaot 1/1
		Sheet 14A
Sheet 7A	•	Sheet 14I
Sheet 7B	Playfield Horizontal Scroll Registers, Playfield Vertical Scroll Registers	Sheet 15A
	Playfield Scrolling, Prioritizing Logic	Sheet 15I
Sheet 8A	Color RAM, Color RAM Addressing and Data Buffers, Alphanumeric Color Palettes	
- 5 - ₩	Selects	Sheet 16A
Sheet 8B	Data Latches and Blanking, Video Intensity Control and Driver Enables	Sheet 16I
Sheet 9A	Output Drivers	Sheet 17
	Sheet 2A Sheet 2B Sheet 3A Sheet 3B Sheet 4A Sheet 4B agrams: Sheet 5A Sheet 5B Sheet 6A Sheet 6B Sheet 7A Sheet 7B Sheet 8A Sheet 8B	Sheet 2A Sheet 2B Sheet 3A Super Sprint Video PCB Schematic D Power Input Video/CPU Buffers, Address Decoding Control Signals Video Clock, Sync Chain and Timing Strobes Alphanumeric/Motion Object RAM Motion Object ROM Addressing, Link List Address Latch Sheet 5A Alphanumeric ROM Addressing, Playfield Data Latch Strobes, Playfield Bank Select Sheet 5B Playfield RAM Addressing, Playfield Data Latches, Playfield RAM, Playfield ROM Addressing Sheet 6A Alphanumeric ROM, Motion Object ROM Sheet 6B Motion Object ROM Addressing, Playfield ROM Sheet 7A Motion Object ROM Addressing, Playfield ROM Sheet 7A Playfield Horizontal Scroll Registers, Play- field Vertical Scroll Registers Playfield Scrolling, Prioritizing Logic Color RAM, Color RAM Addressing and Data Buffers, Alphanumeric Color Palettes Selects Sheet 8B Data Latches and Blanking, Video Inten- sity Control and Driver Enables

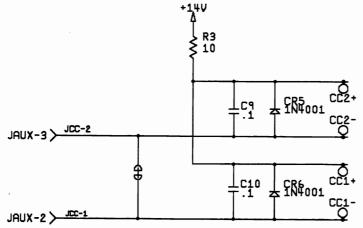


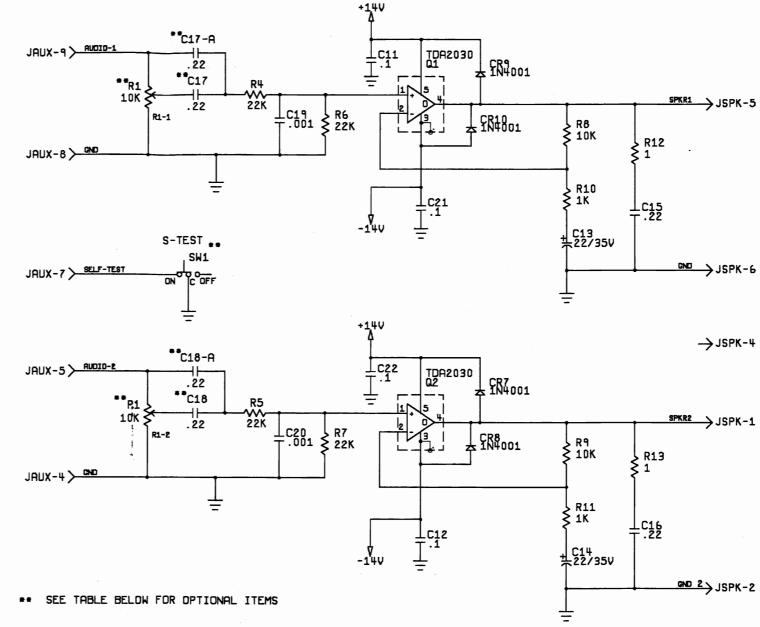
Schematic Package Supplement to the Super Sprint Operators Manual











DESIGNATION	VALUE	-01		
R1 C17, C18 C17-A, C18-A SW1	10K POT .22 .22 DN/DFF	YES YES NO YES		
	SEE VER COL SEE VER COL 0	LM7815 0 OHM ND		

JAUX-1>

NOTICE TO ALL PERSONS RECEIVING THIS DRAWING

RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, CA. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of
the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except
for manufacture by vendors of Atari Games
Corporation, and for manufacture under the
corporation's written license, no right is
granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the
corporation. corporation.



GAMES

Super Sprint™ Audio II PCB Schematic Diagram

SP-290 Sheet 2A 1st printing

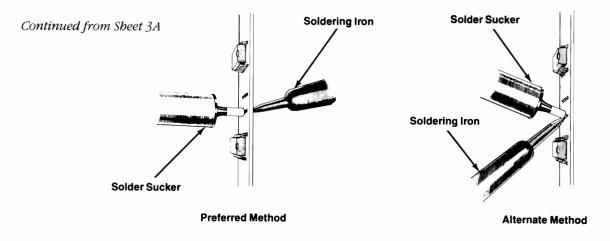


Figure 3 Removing Solder from Plated-Through Holes

Troubleshooting Static-Sensitive Devices

Certain precautions must be taken when working with static-sensitive devices, e.g., microprocessors, field-effect transistors (FET), complementary metal-oxide semiconductors (CMOS), and other large-scale integration (LSI) devices that use metal-oxide semiconductor (MOS) technology. Static charge buildup in a person's body or leakage from an improperly grounded soldering iron can cause static-sensitive devices to fail.

Before handling a static-sensitive device or a PCB with such devices attached to it, ground any static voltage that may have accumulated in your body by touching an object that has been earth grounded. A bare wire wrapped around your wrist and attached to an earth ground is effective when working extensively with static-sensitive devices. When soldering on a static-sensitive device, use a soldering iron with a properly grounded three-wire cord. (Refer to *Soldering Techniques* for a discussion of recommended soldering irons and procedures.)

A static-sensitive device can appear defective due to leakage on a PCB. Observe the precautions for grounding static voltages described in the preceding paragraph and clean both sides of the PCB with flux remover or an eraser

before replacing what can be a good static-sensitive device. For discrete FETs, clean thoroughly between the gate, drain, and source leads.

Static-sensitive devices can be packaged in conductive foam or have a protective shorting wire attached to the pins. Remove the conductive foam just prior to inserting the device into its socket or soldering it to a PCB. Remove the shorting wire only *after* the device is inserted into its socket or *after* all the leads are soldered in place.

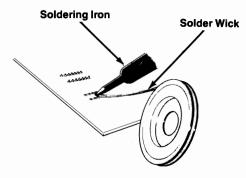


Figure 4 Removing Solder from Wire-Connection Pads

Special Section

Troubleshooting

The information on these pages discusses troubleshooting aids and techniques to help the service technician when trouble is suspected in a game. Most troubles can be located quickly by following this information. However, if problems persist, contact your Atari Games Corporation Customer Service Office for help. The addresses and phone numbers of the two offices are listed on the inside front cover of every game manual.

- NOTE

We recommend that troubleshooting and repair procedures be performed by a qualified service technician.

Troubleshooting Aids

Troubleshooting aids are provided throughout the game manual and schematic package. The following information is intended to acquaint the service technician with the portions of these documents that contain useful troubleshooting and repair information.

Assembly and Component Locations

The parts lists in Chapter 5 of the game manual illustrate the locations of assemblies and components. Printed-circuit board (PCB) illustrations aid in rapidly locating components shown on the corresponding schematic diagram(s).

Diagrams

This schematic package supplement for this manual contains schematic diagrams with component locations, active component type numbers, and electrical values.

NOTICE TO ALL PERSONS RECEIVING THIS DRAWING

RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, CA. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of
the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except
for manufacture by vendors of Atari Games
Corporation, and for manufacture under the
corporation's written license, no right is
granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the



Troubleshooting Aids and Techniques

SP-290 Sheet 2B 1st printing

© 1985, 1986 Atari Games Corporation

Troubleshooting Techniques



A WARNING **A**



To avoid electrical shock, turn off the game power before attempting to troubleshoot this

The following troubleshooting steps are arranged in a sequence recommended for locating a defective component. The procedure begins with a check of the simple trouble possibilities and progresses to more extensive procedures for localizing the problem to an assembly or major circuit, and then to a defective component.

Check Fuses

Check for open fuses. Refer to the power supply parts list in Chapter 5 of the game manual and to the display manual for the location and rating of each fuse used in this game. Make sure that replacement fuses are the proper type and rating.

Check Power-Supply Voltages

Improper operation of all circuits usually indicates a power supply problem. Be sure that the proper line voltage is available to the power supply. Refer to the label on the power supply for its voltage rating.

Localize Trouble

Determine the trouble symptom. Use the wiring diagrams in the schematic package supplement to determine which assemblies or major circuits could cause the trouble. Perform the self-test procedure provided in the operators manual.

Visual Check

Visually check for obvious problems in the portion of the game where the trouble is suspected. For example, check for loose or defective solder connections, integrated circuits loose in their sockets, loose cable connections, broken wires, and damaged PCBs or components.

Check Individual Components

Check soldered-in passive components (e.g., resistors, capacitors, diodes) by disconnecting one end to isolate the measurement from the effects of the surrounding circuitry. Often, direct substitution is the most practical way to determine if a component is faulty. However, eliminate the possibility of some other circuit problem that could damage the substitute component.

Repair the Assembly

CAUTION ·

Soldered-in transistors and integrated circuits are difficult to remove without damaging the printed-circuit board or component. Refer to the information below that pertains to soldering and replacing integrated circuits and tran-

Repair or replace the defective part. Refer to Chapter 4 in the game manual and information in this chapter for special removal and replacement procedures. Check for proper operation of the repaired circuit.

Soldering Techniques

Follow these recommendations when removing or replacing components soldered to a PCB. Poor soldering practices can damage a PCB or heat-sensitive electrical components.

Choosing the proper soldering iron is essential before attempting to remove or replace soldered-in components. Excessive heat is a common cause of damage to a component or PCB. However, transient voltages from solder guns or improperly grounded soldering irons can also damage certain voltage-sensitive semiconductor devices. Refer to Troubleshooting Static-Sensitive Devices for more specific information.

A 15- to 27-watt pencil-tip soldering iron is recommended to avoid separating the etched circuit wiring from the board material and to avoid damaging active components. A temperature-controlled soldering station rated at 700°F with a fine cone or a very fine chisel tip can also be used.

- CAUTION -

Solder guns are not recommended for removing or replacing soldered-in components on a printed-circuit board. The added possibility for overheating and the large transient voltage induced by the solder gun could cause damage to heat- or voltage-sensitive devices.

The following additional equipment is recommended for removing and replacing soldered-in components:

- Solder Sucker-Hand-operated vacuum tool used to remove liquified solder from the PCB. We recommend the top-of-the-line Soldapullt® brand.
- Solder Wick—Resin-soaked copper braid used for removing excess solder from the lead connections on the PCB. See Removing Integrated Circuits for precautions relating to the use of a solder wick on a multilayer PCB with plated-through holes.

- Flux Remover—Non-corrosive chemical used to clean foreign material from the PCB before soldering and to remove any flux residue where components have been replaced. Also used to clean any foreign material from the PCB during preventive maintenance. Isopropyl alcohol is recommended.
- · Acid Brush-Small stiff-bristled paint or toothbrush used with flux remover to clean flux and other foreign material from the PCB.

Removing Integrated Circuits

The easiest and safest method for removing soldered-in integrated circuits (IC) from a PCB is to cut off each pin as close to the IC case as possible with a tip dyke (diagonal cutter) as shown in Figure 1.

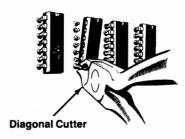


Figure 1 Removing IC (Cut-Pin Method)

Use the proper soldering iron as previously described under Soldering Techniques. Then, to avoid excessive heat buildup in one area of the PCB, apply heat directly to each pin in a random order. Remove the loosened pin with the tip of the soldering iron or a needle-nose pliers as shown in Figure 2. Allow a moment for the PCB to cool before proceeding to the next pin. Apply just enough heat to remove any stubborn pins.

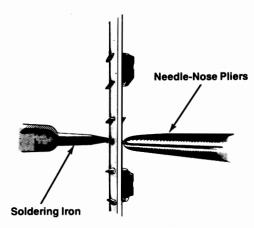


Figure 2 Removing IC Pins

For a multi-layer PCB with plated-through holes, use a solder sucker to remove the remaining solder from inside each hole as shown in Figure 3. If possible, suck the solder from the opposite side of the PCB from where the heat is

Use a solder wick to remove excess solder from around the lead connection pads on the top and/or bottom surface of the PCB as shown in Figure 4.

CAUTION -

Do not use a solder wick to remove solder from inside plated-through holes. The heat required for the solder wick to remove the solder from inside the hole could damage the

Use an integrated-circuit (IC) pulling tool to remove socketed ICs. Do not pry up on one end of the ICs, because the pins could be bent or broken.

Continued on Sheet 2B

NOTICE TO ALL PERSONS

NOTICE TO ALL PERSONS

RECEIVING THIS DRAWING

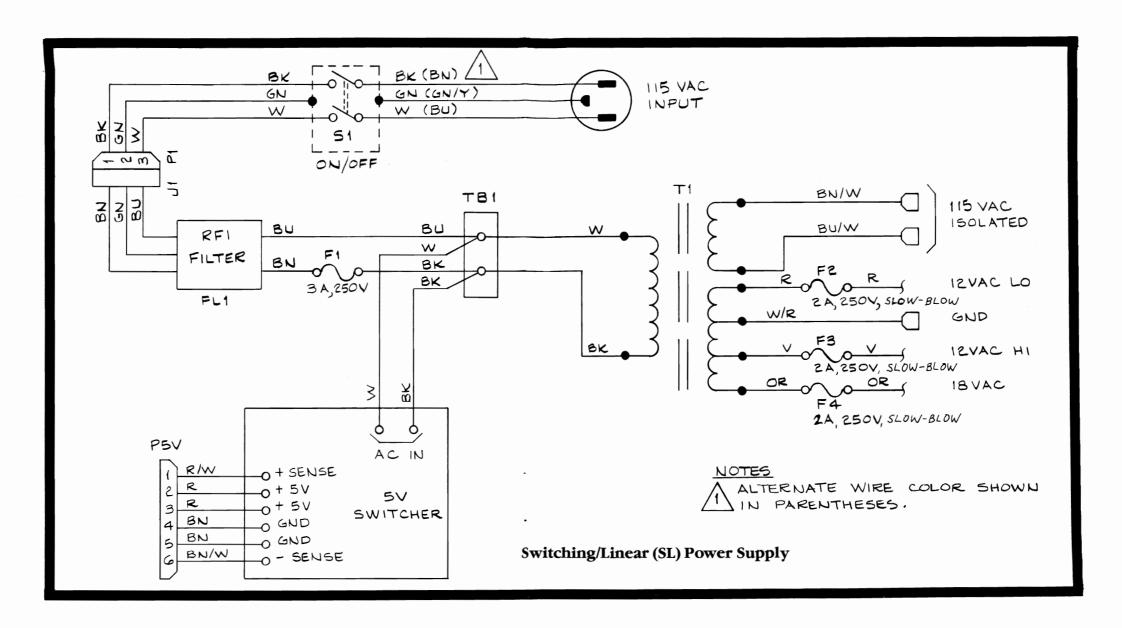
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or rechical inforthe drawing or any design or technical infor-mation shown thereon, nor any right to repro-duce this drawing or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the

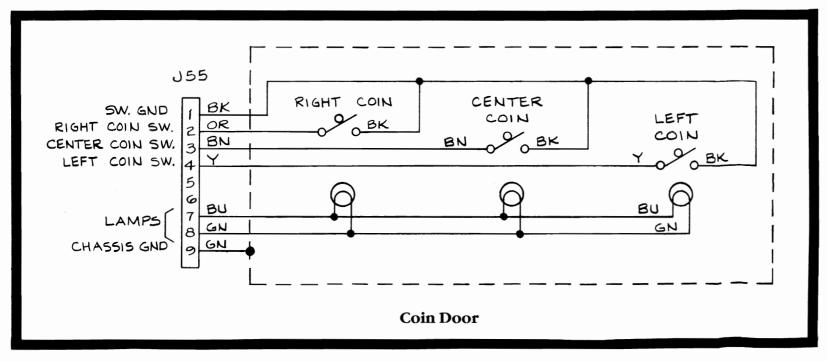


Troubleshooting Aids and Techniques

SP-290 Sheet 3A 1st printing

© 1985, 1986 Atari Games Corporation





NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, CA. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Switching/Linear (SL) Power Supply and **Coin Door Wiring Diagrams**

SP-290 Sheet 3B 1st printing © 1985, 1986 Atari Games Corporation

Main Microprocessor (T-11) Memory Map

	Address Bus Signal Lines	T	Data Bus Signal Lines	
	AAAAAAAAAAAAA	İ	D D D D D D D D D D D D D D D D D D D	
	11111100000000000	İ	1111110000000000	
Octal	5432109876543210	R/W		:
		1 -9		
000000-007777	0 0 0 0 A A A A A A A A A A A	R/W	DDDDDDDDDDDDDDDPProgram RAM (4KB)	
010000-010436	000100 AAAAAAA	W	DDDDDDDDDDDDDDDDC Color RAM (144W)	
II .	000100 AAAAAAA	W	DDDD Z (Intensity)	
11	000100 AAAAAAA	l w	D D D D Blue	
11	0 0 0 1 0 0	W	D D D D Green	
	000100 AAAAAAA	l w	DDDD Red	
010000-010176	0 0 0 1 0 0	l w	DDDDDDDDDDDDDDDD Motion Object Color RAM	1 (64W
010200-010276	000100 01AAAAAA	l W	DDDDDDDDDDDDDDD Alphanumeric Color RAM	(16W)
010400-010776	0 0 0 1 0 0	l W	DDDDDDDDDDDDDDDDDPDDDCDDDDDDDDDDDDDDDD	(W8:
012000	000101000	W	DDDDD Program Page O Address	
012002	000101000 1	W	DDDDD Program Page 1 Address	
012200	000101001	W	A/D Converter Start Start	robe
012000-012002	0001010 A	R	DDDDDDDA/DConverter Output	
012400	000101010	W	D D Video Memory Page Selec	et (VMMU)
012600	00010101100	W	IRQO Clear	
0 1264 0	00010101101	W	6502 Reset	
012700	00010101110	l w	IRQ2 Clear	
01 274 0	00010101111	W	IRQ3 Clear	
013000	000101100	W	D IRQO Enable 6502 RD (Ac	
013000	000101100	W	D IRQ1 Enable 6502 WT (Ad	
013000	000101100	W	D IRQ2 Enable 32V (Active	
013000	000101100	l W	D IRQ3 Enable VBLANK (Act	-
013200	000101101	W	DDDDDDD Communications Port Wr	
013 4 00	000101110	l W	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	
013600	000101111	l W	DDDDDDDDDDDDDVertical Scroll & PF B	ink 1
014000	000110000	l R	D SW 6 (Active Low)	
014000	000110000	l R	D SW 5 (Active Low)	
014000	000110000	R	D SW 4 (Active Low)	
01 40 00	000110000	R	D SW 3 (Active Low)	1 1
014000	000110000	R	D 6502 Comm. Flag (Active	
014000	000110000	R	D T-11 Comm. Flag (Active	High)
014000	000110000	R	D SW 2 (Active Low)	
014000	000110000	R	D SW 1 (Active Low)	
014000	000110000	R	D Self-Test (Active Low)	-
016000	000111000	R	D D D D D D D D Communications Port Rea	
020000-033776	0 0 1 A A A A A A A A A A A A	R/W	DDDDDDDDDDDDDDDADAN (VMM	⊫ 0) (3KW)
"	001 A A A A A A A A A A A A A A A	R/W	DDDDDDDDDD ANPIC	. (1.2.1)
034000-037776	00111AAAAAAAAA	R/W	DDDDDDDDDDDDDDDD Motion Object RAM (VMM	⊫0) (1KW)
 11	00111AAAAAAA000		D D D D D D D D D D D D MOV	
" "	00111AAAAAAA010	R/W	i	
" "	00111AAAAAAA100	R/W	DDDDDDDDD MOH	
	00111AAAAAAA110	R/W	DDDD DDDDDDD MOLNIK	ΛΙΣΙΙ\ ΛΙΣΙΙ\
020000-037776	001 A A A A A A A A A A A A	R/W	DDDDDDDDDDDDDDDDDDPDDDDDDDDDDDDDDDDDDD	
020000-037776	001AAAAAAAAAA	R/W		
040000-057776	010AAAAAAAAAA	l R	DDDDDDDDDDDDDDDDDPPAged Program (Page 0	
060000-077776	011 A A A A A A A A A A A A A A	l R	DDDDDDDDDDDDDDDDDPPDD Paged Program (Page 1	
100000–177776	1 A A A A A A A A A A A A A A A	l R	DDDDDDDDDDDDDDDPProgram ROM	(16KW)

NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.



Super Sprint[™] Main Microprocessor Memory Map

> SP-290 Sheet 4A 1st printing

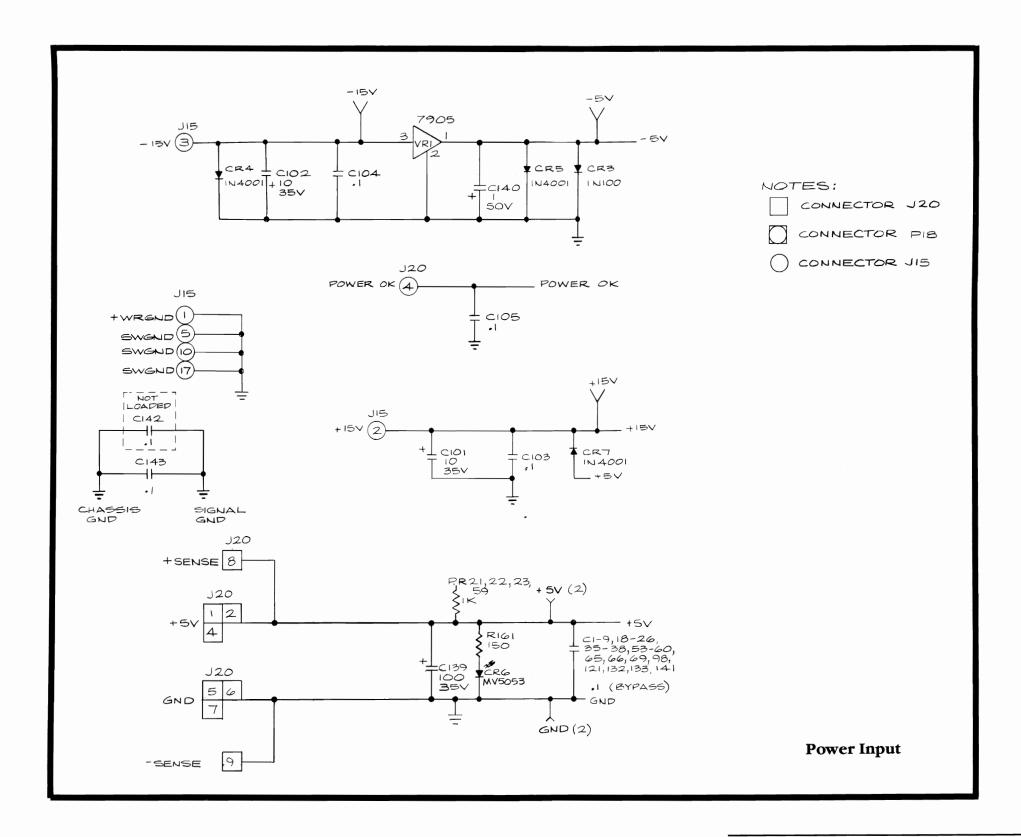
Sound Microprocessor (6502) Memory Map

					$\boldsymbol{\Gamma}$	А	Α	Α	Α	Α	Α	A.	A.	A A	A I		1 I	ם כ	D	D	D	D	D	ש	
	1 1	1																				0			İ
	54															R/W								Ō	Function and Size
	<u> </u>	<u> </u>	<u> </u>	_	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>			=			<u>'</u> '	<u>_</u>		·		_	_		
0000-0FFF	0 0	0	0	Α	Α	Α	Α	Á	Α	Α	Α	Α.	A	A Z	A	R/W	[) D	D	D	D	D	D	D	Program RAM (4KB)
1000-1 7 FF	0 0	0	1	0	Α	Α	Α	Α	Α	Α	Α	Α.	A.	A Z	A	R/W	[D	D	D	D	D	D	D	EEROM (2KB)
1800-180F	0 0		1	1					0	0	0	Α.	A	A Z	A	R/W	[D	D	D	D	D	D	D	POKEY 1 (16B)
1810-1813	0 0		1	1					0	0	1			A Z	A	R	[D	D	D	D	D	D	D	LETA
1830-183F	0 0		1	1					0	1	1	A.	A Z	A	A	R/W	[D	D	D	D	D	D	D	POKEY 2 (16B)
1840	0 0		1	1					1	0	0				1	R								\mathbf{D}^{T}	T-11 Talk (Active High)
1840	0 0		1	1					1	0	0				- 1	R							D		6502 Talk (Active High)
1840	0 0		1	1					1	0	0					R	1					D			TI READY (Active High)
1840	0 0		1	1					1	0	0					R					D				
1840	0 0		1	1					1	0	0				- 1	R				D					Self-Test Switch (Active Low)
1840	0 0		1	1					1	0	0				1	R			D						Auxiliary Coin Switch (Active Low)
1840	0 0		1	1					1	0	0				- 1	R	1	D)						Left Coin Switch (Active Low)
1840	0 0		1	1					1	0	0					R	1)							Right Coin Switch (Active Low)
1850-1851	0 0		1	1					1	0	1			7	A	R	I	D	D	D	D	D	D	D	Yamaha Sound Chip
1860	0 0		1	1					1	1	0				1	R	ľ	D	D	D	D	D	D	D	Communications Port Read
1870	0 0		1	1					1	1	1	0	0	0	1	W	[D	D	D	D	D	D	D	TI Data
1872-1873	0 0		1	1					1	1	1	0	0	1 2	Αl	W	1								TI Write Enable
1874	0 0		1	1					1	1	1	0	1	0		W	ľ	D	D	D	D	D	D	D	Communications Port Write
1876	0 0		1	1					1	1	1	0	1	1	1	W								D	Right Coin Counter (Active High)
1876	0 0		1	1					1	1	1	0	1	1	1	W							D		Left Coin Counter (Active High)
1878	0 0		1	1					1	1	1	1 (0	0	1	W	1								IRQ Clear
187 A	0 0		1	1					1	1	1	1 (0	1		W						D	D	D	Yamaha Mixer
187A	0 0		1	1					1	1	1	1	0	1	- 1	W	1			D	D				POKEY Mixer
187A (0 0		1	1					1	1	1	1	0 :	1	-	W	[D	D						TI Sound Mixer
187C (0 0		1	1					1	1	1	1	1 (0	-	W	1					D			LED 1
187C (0 0		1	1					1	1	1	1	1 (0	1	W					D				LED 2
187C (0 0		1	1					1	1	1	1	1 (0	1	W				D					LETA Resolution
187C (0 0		ŀ	1					1	1	1	1	1 (0		W			D						TI Frequency Select
187E (0 0		1	1					1	1	1	1	1	1	1	W								D	Sound Enable (Active High)
4000-7FFF (0 1	Α	Α	Α	A	Α	Α	Α	Α	Α	Α	Α.	A Z	A A	Αl	R	I	D	D	D	D	D	D	D	Program ROM (16KB)
8000-FFFF	1 A	Α	Α	A	A	Α	A	A	A	A	Α	A .	A Z	A Z	A	R	I	D	D	D	D	D	D	D	Program ROM (32KB)

NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, CA. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of
the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except
for manufacture by vendors of Atari Games
Corporation's written license, no right is
granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the
corporation.



Super Sprint[™] Sound Microprocessor Memory Map

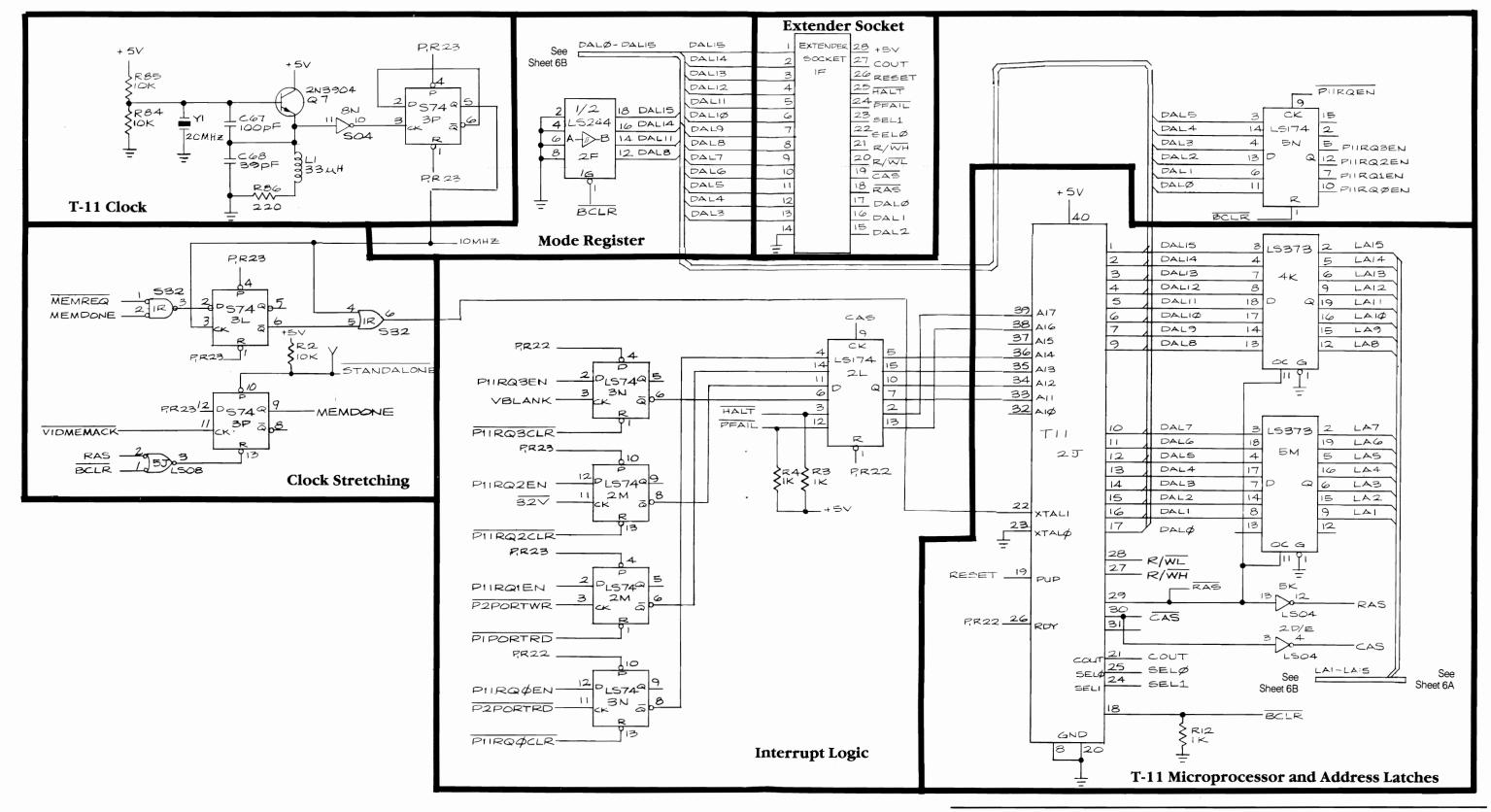


NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.



Super Sprint™ CPU PCB Schematic Diagram

SP-290 Sheet 5A 1st printing © 1985, 1986 Atari Games Corporation

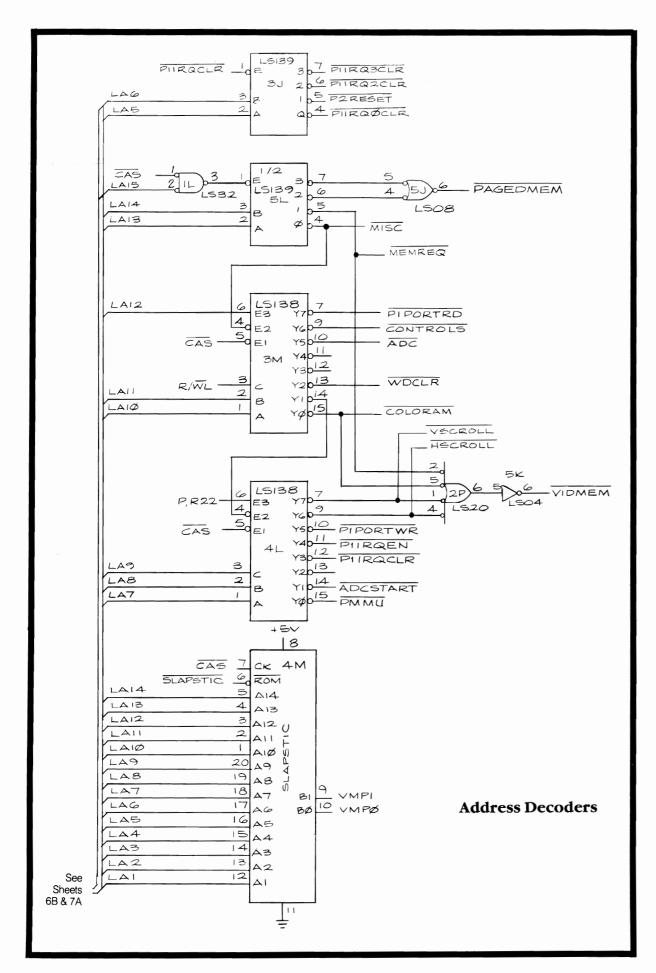


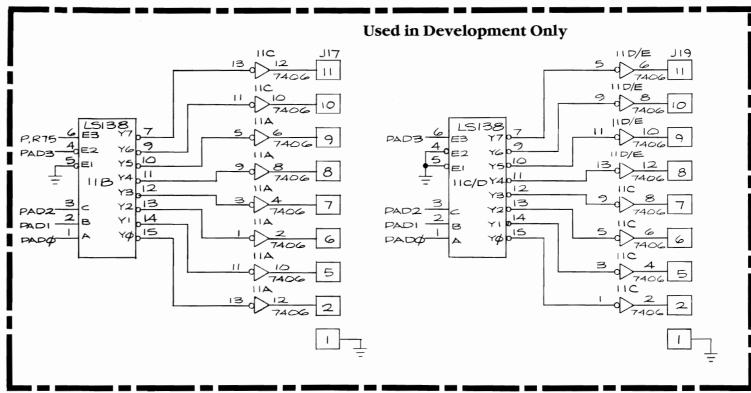
NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, CA. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of
the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except duce this drawing or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the sub-ject matter thereof, unless by written agree-ment with or written permission from the corporation.

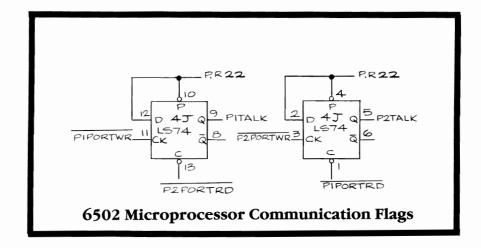


Super Sprint™ CPU PCB Schematic Diagram

SP-290 Sheet 5B 1st printing





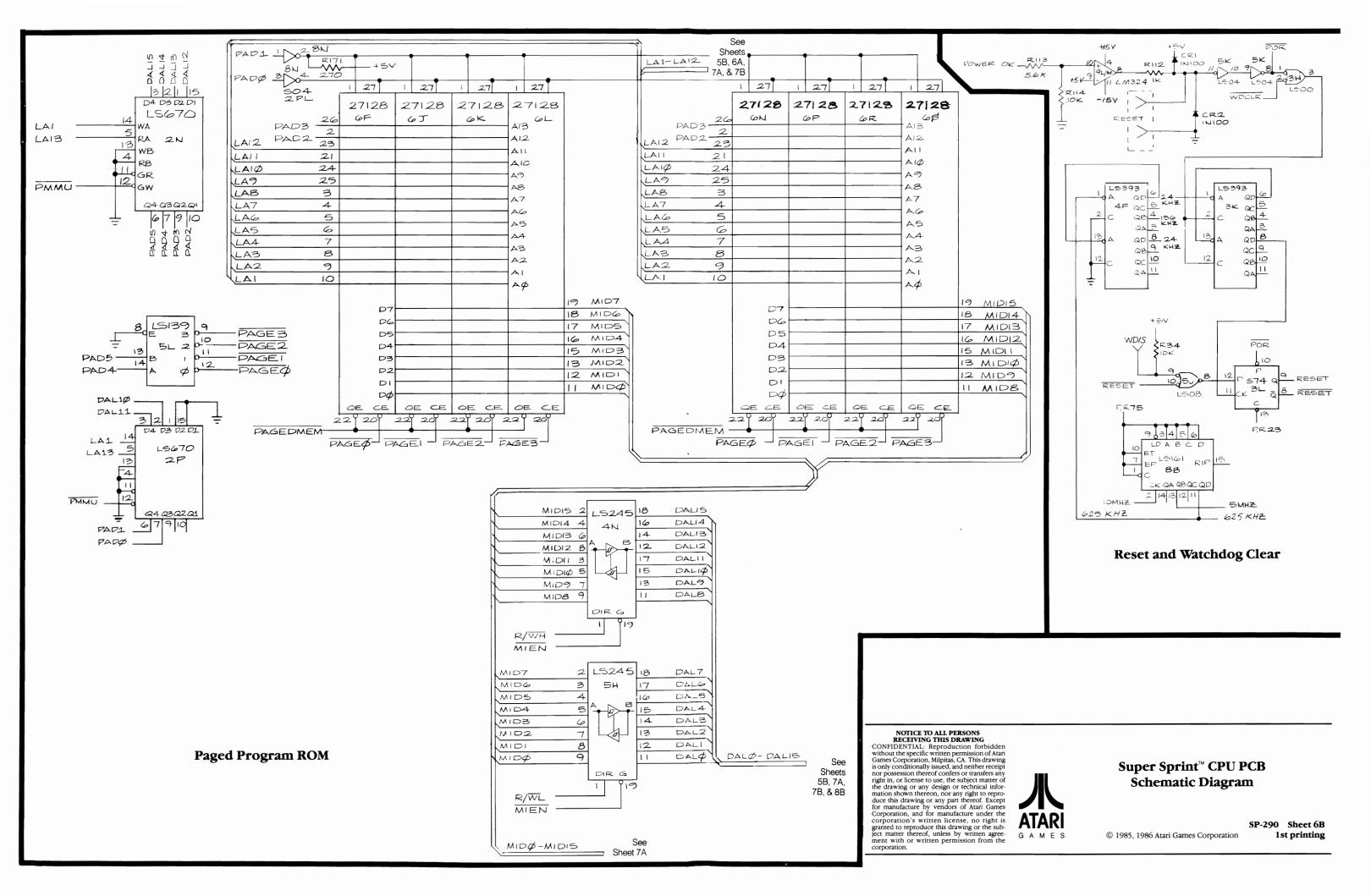


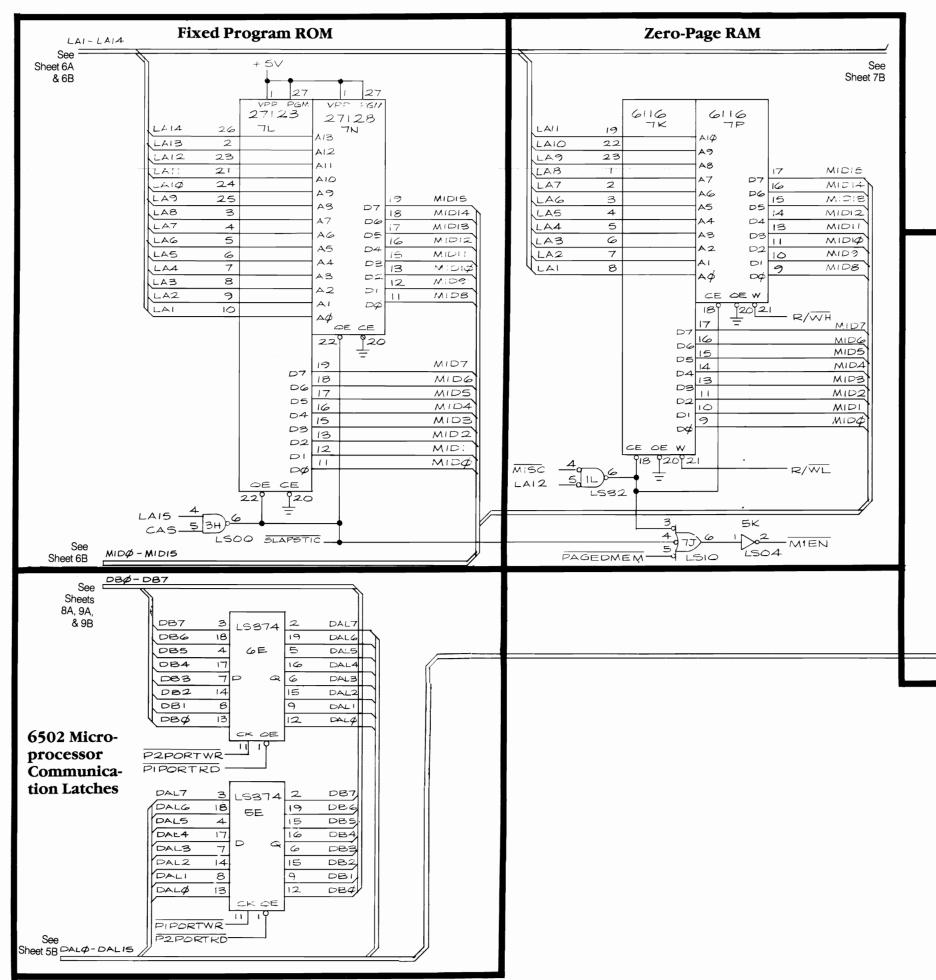
NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, Ca. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of
the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except
for manufacture by vendors of Atari Games
Corporation, and for manufacture under the
corporation's written license, no right is
granted to reproduce this drawing or the subgranted to reproduce this drawing or the sub-ject matter thereof, unless by written agree-ment with or written permission from the corporation.

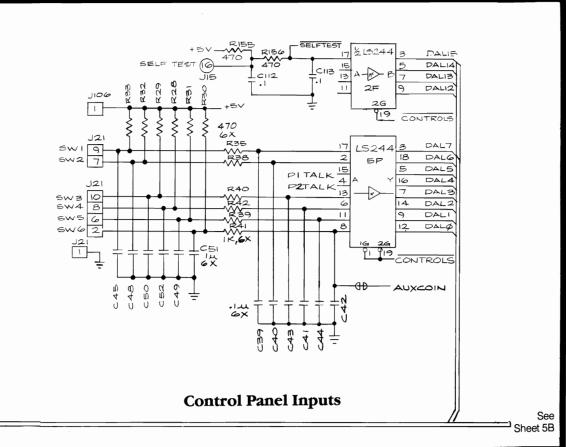


Super Sprint[™] **CPU PCB Schematic Diagram**

SP-290 Sheet 6A © 1985, 1986 Atari Games Corporation 1st printing





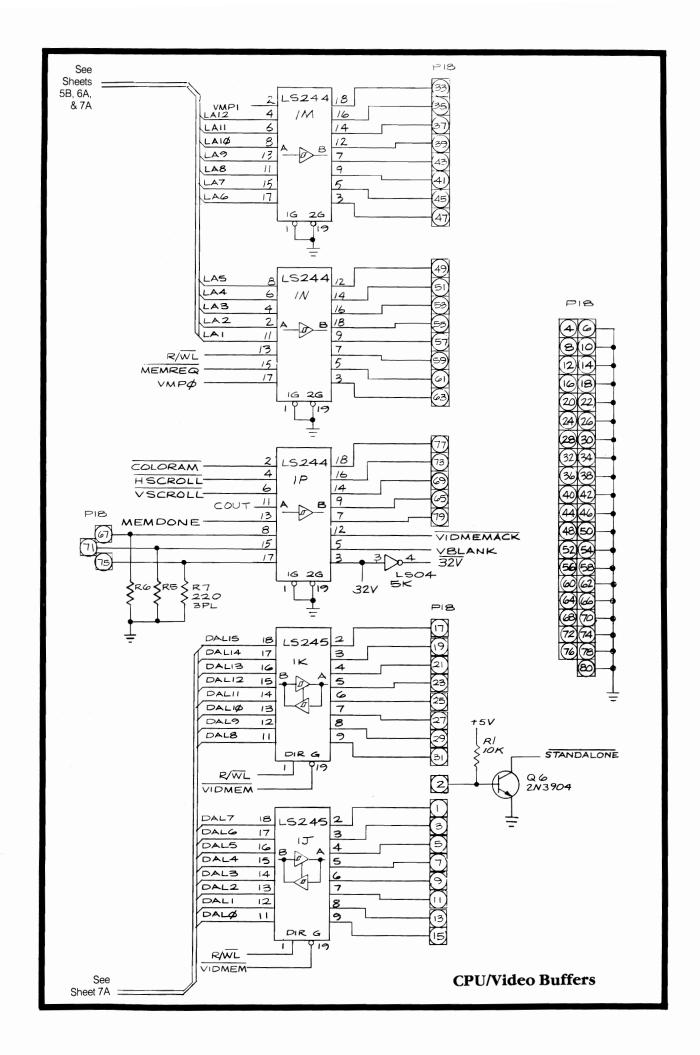


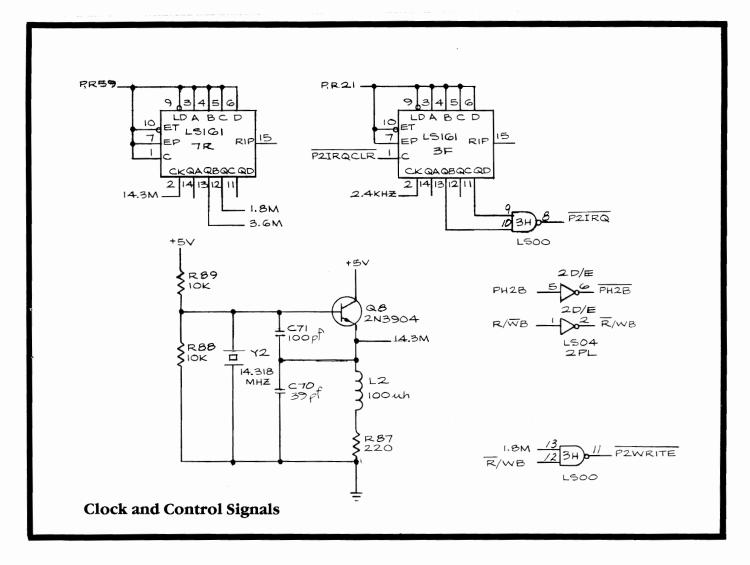
NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, CA. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of
the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except
for manufacture by vendors of Atari Games
Corporation, and for manufacture under the
corporation's written license, no right is corporation's written license, no right is granted to reproduce this drawing or the sub-ject matter thereof, unless by written agree-ment with or written permission from the

Super Sprint™ CPU PCB Schematic Diagram

SP-290 Sheet 7A 1st printing

© 1985, 1986 Atari Games Corporation





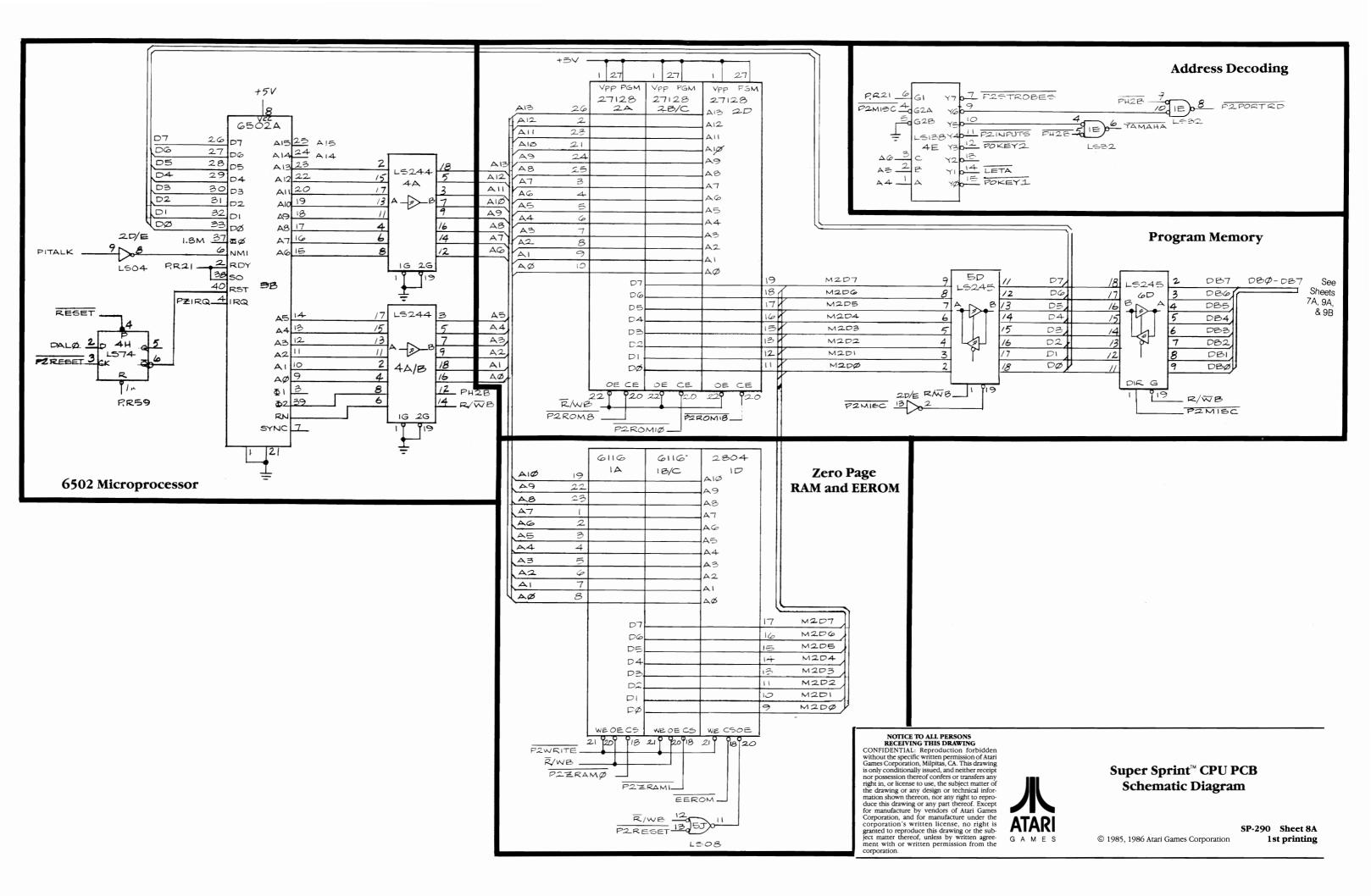
NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, Ca. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of
the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except
for manufacture by vendors of Atari Games
Corporation, and for manufacture under the
corporation's written license, no right is
granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the
corporation.

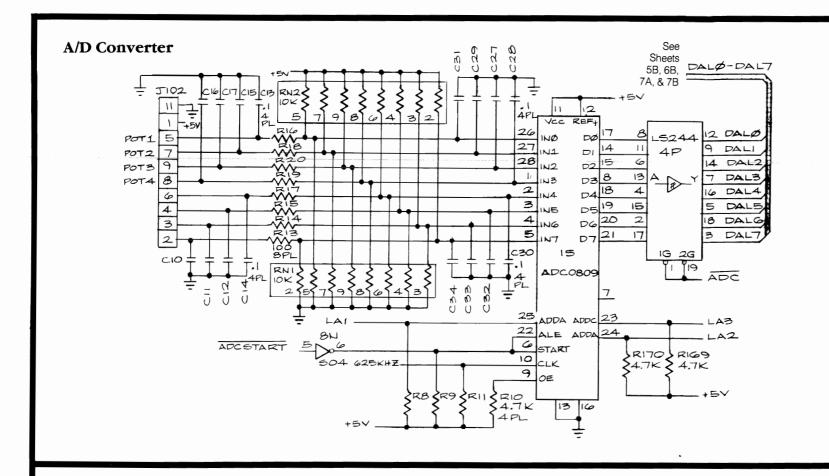


Super Sprint™ CPU PCB Schematic Diagram

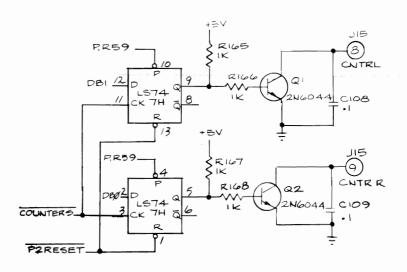
1st printing

SP-290 Sheet 7B © 1985, 1986 Atari Games Corporation

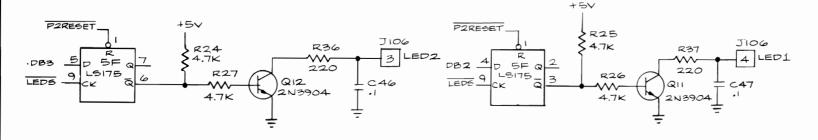




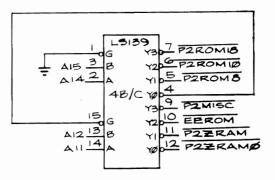
Coin Counters



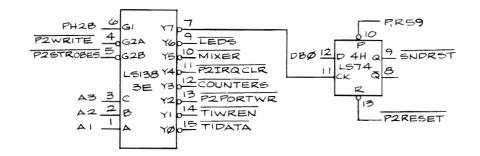
LED Drivers



Address Decoding



Address Decoding

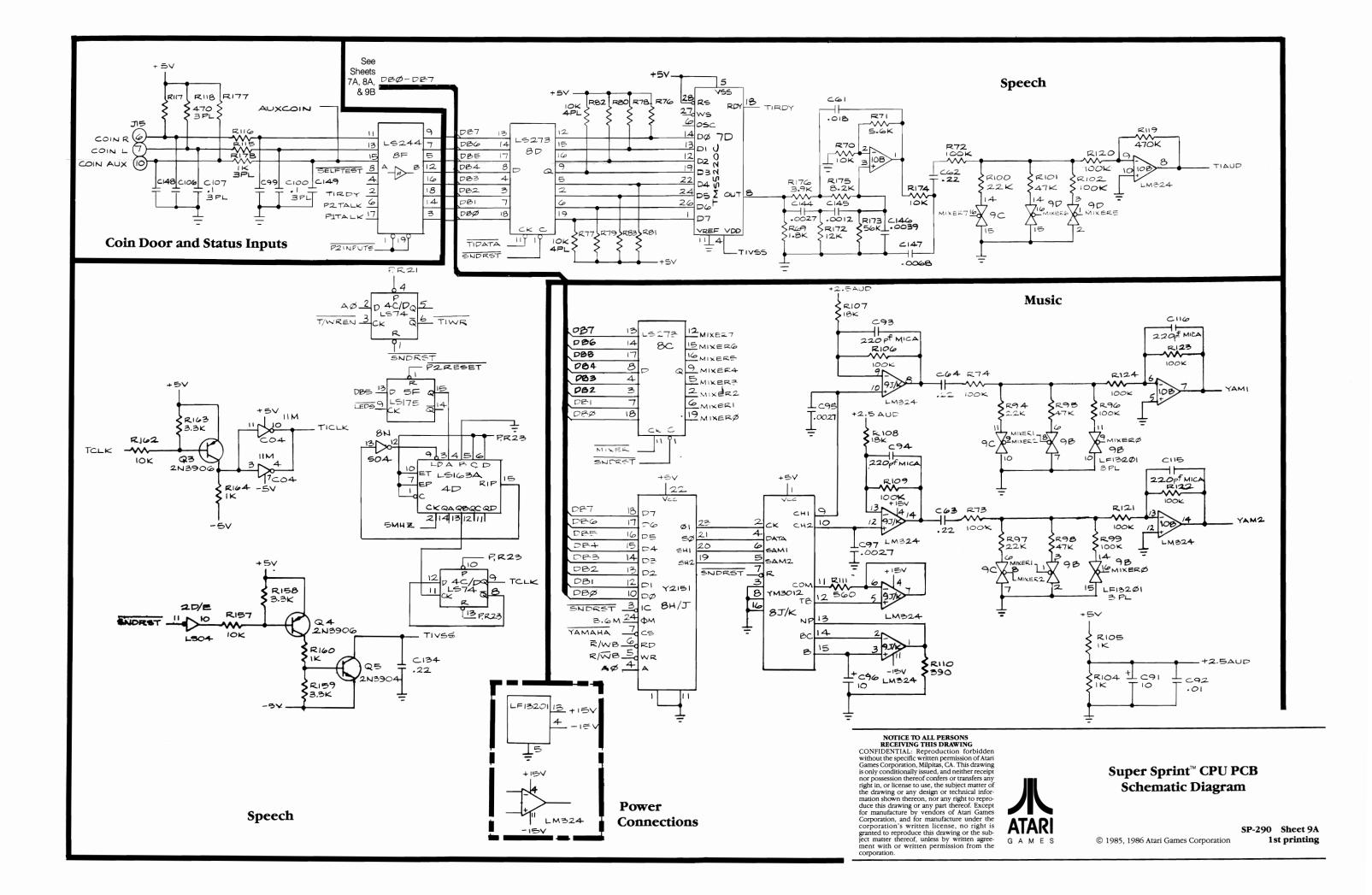


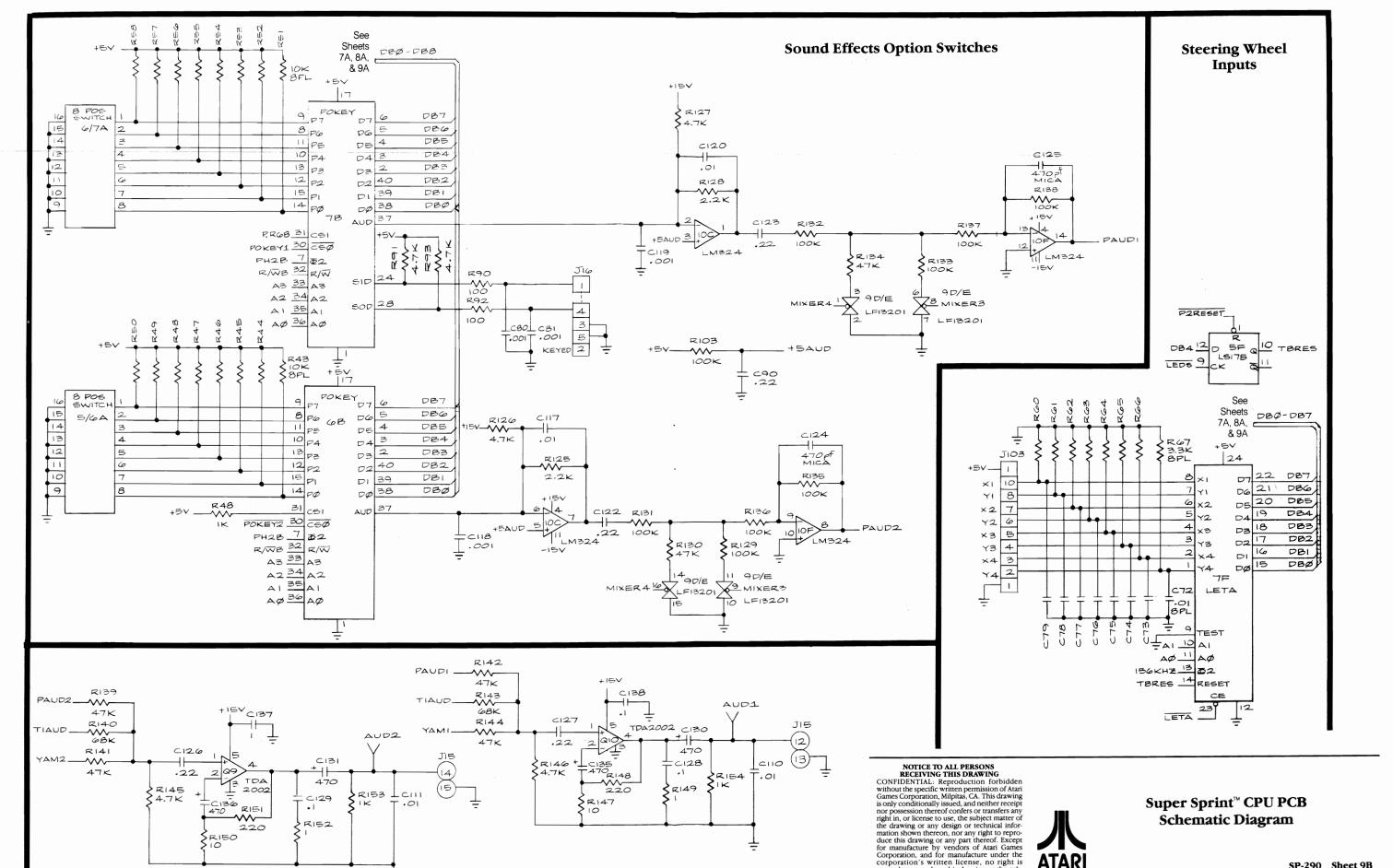
NOTICE TO ALL PERSONS RECEIVING THIS DRAWING CONFIDENTIAL: Reproduction forbidden CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.



Super Sprint™ CPU PCB Schematic Diagram

SP-290 Sheet 8B © 1985, 1986 Atari Games Corporation 1st printing

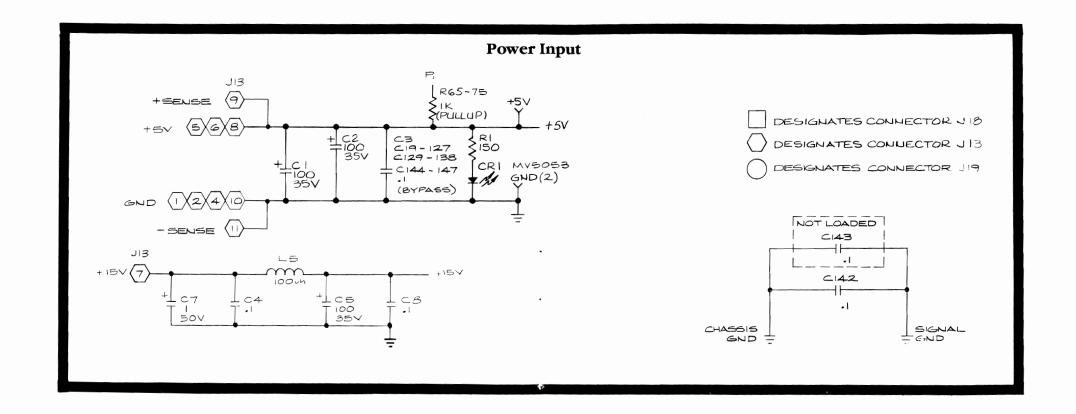




Audio Output Drivers

granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the © 1985, 1986 Atari Games Corporation

SP-290 Sheet 9B
1st printing

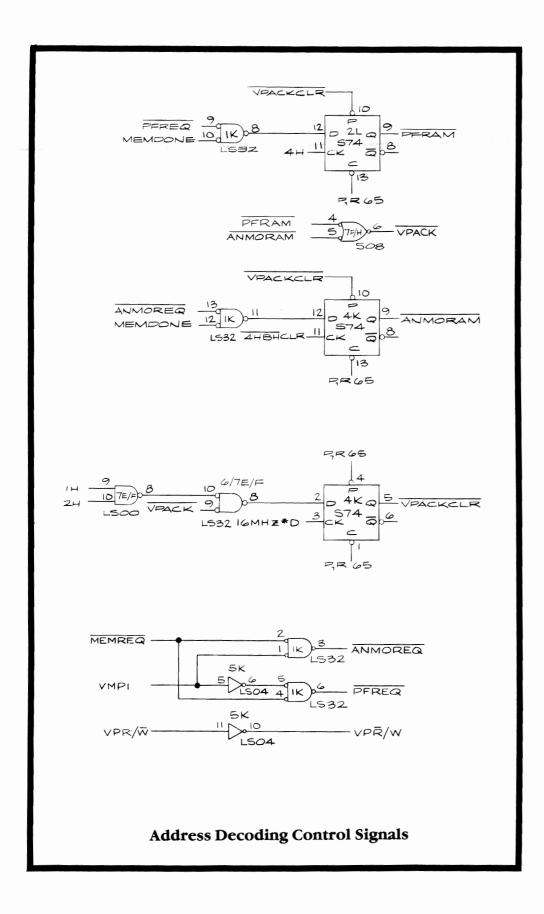


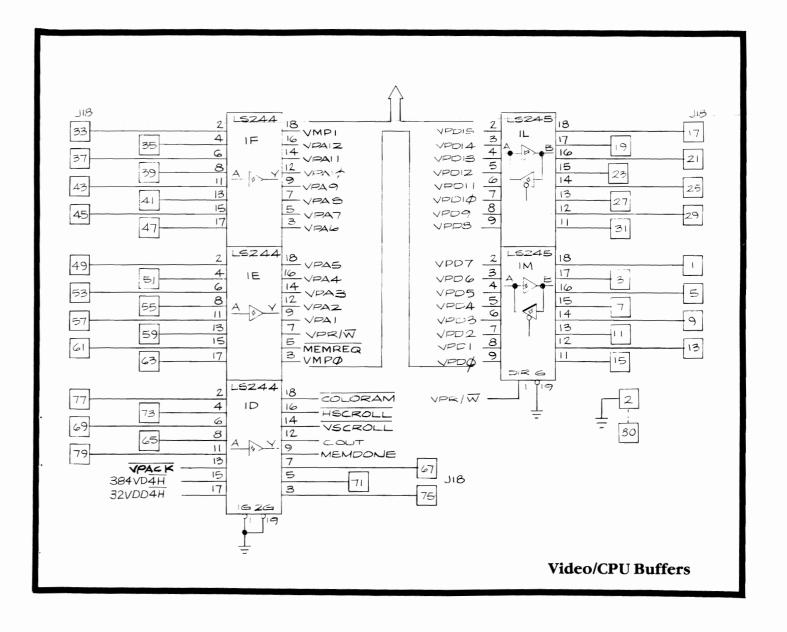
NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.



Super Sprint™ Video PCB Schematic Diagram

SP-290 Sheet 10A 1st printing



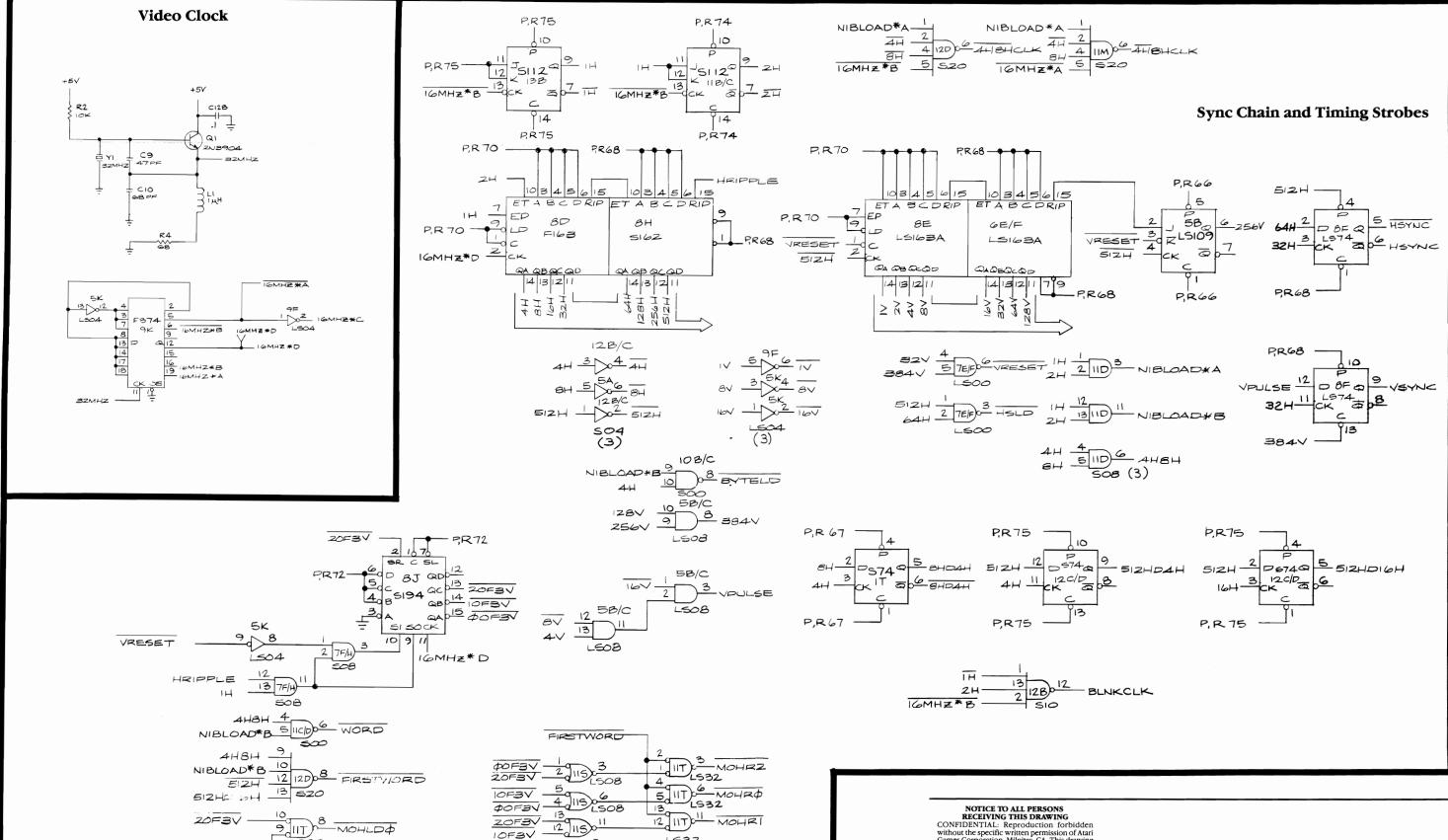


NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, CA. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in or license to use the subject moster of nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.



Super Sprint™ Video PCB Schematic Diagram

SP-290 Sheet 10B © 1985, 1986 Atari Games Corporation 1st printing



L532

10F3V

L532

2 11R 03

13 11R D-

L532

LS32

MOHLDI

MOI+LDZ

ΦOF3V-

10=3V

WORD

MOHLDIS

13 2T

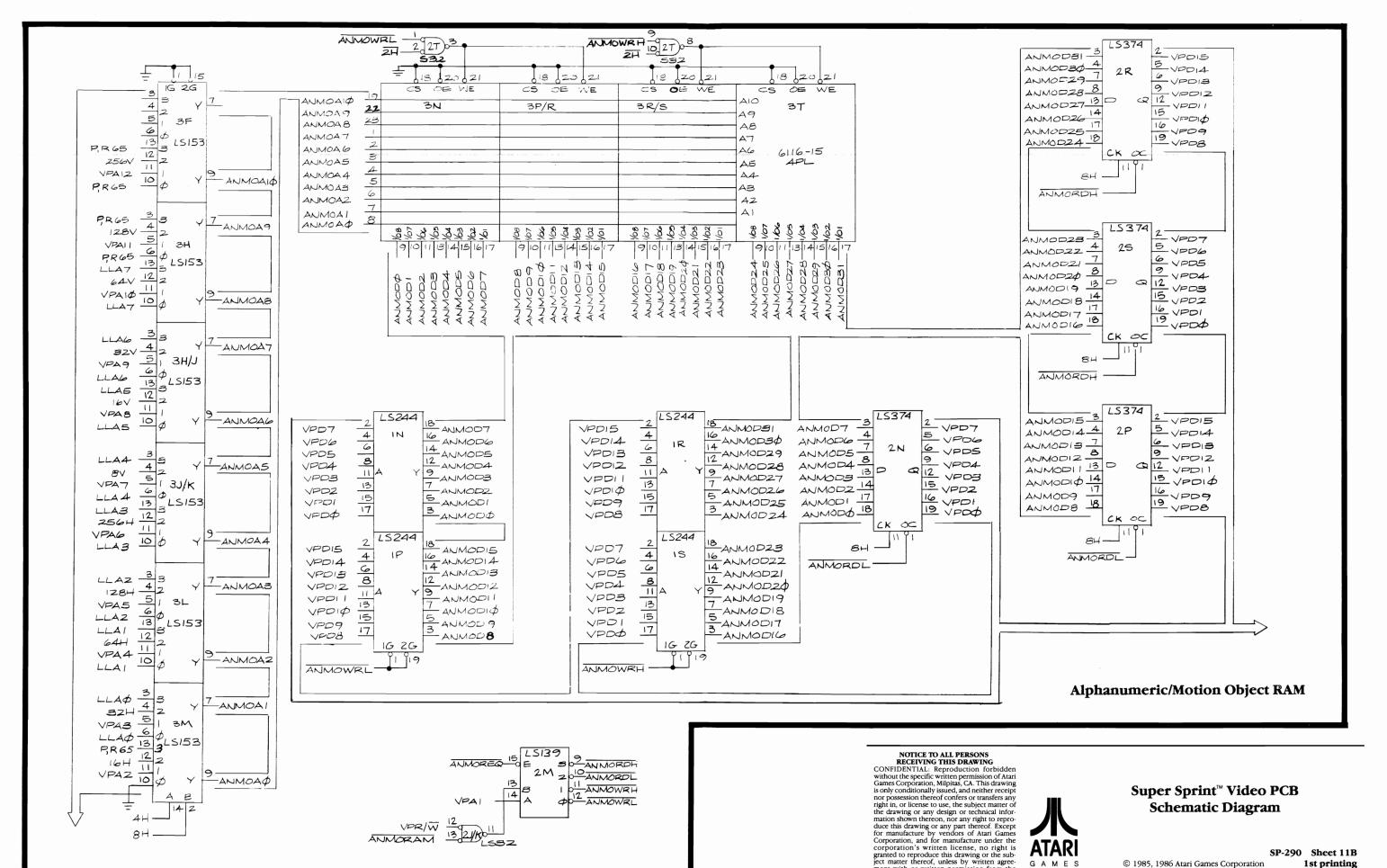
L508

NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, CA. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of
the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except
for manufacture by vendors of Atari Games
Corporation, and for manufacture under the
corporation's written license, no right is corporation's written license, no right is granted to reproduce this drawing or the sub-ject matter thereof, unless by written agree-ment with or written permission from the corporation.



Super Sprint™ Video PCB Schematic Diagram

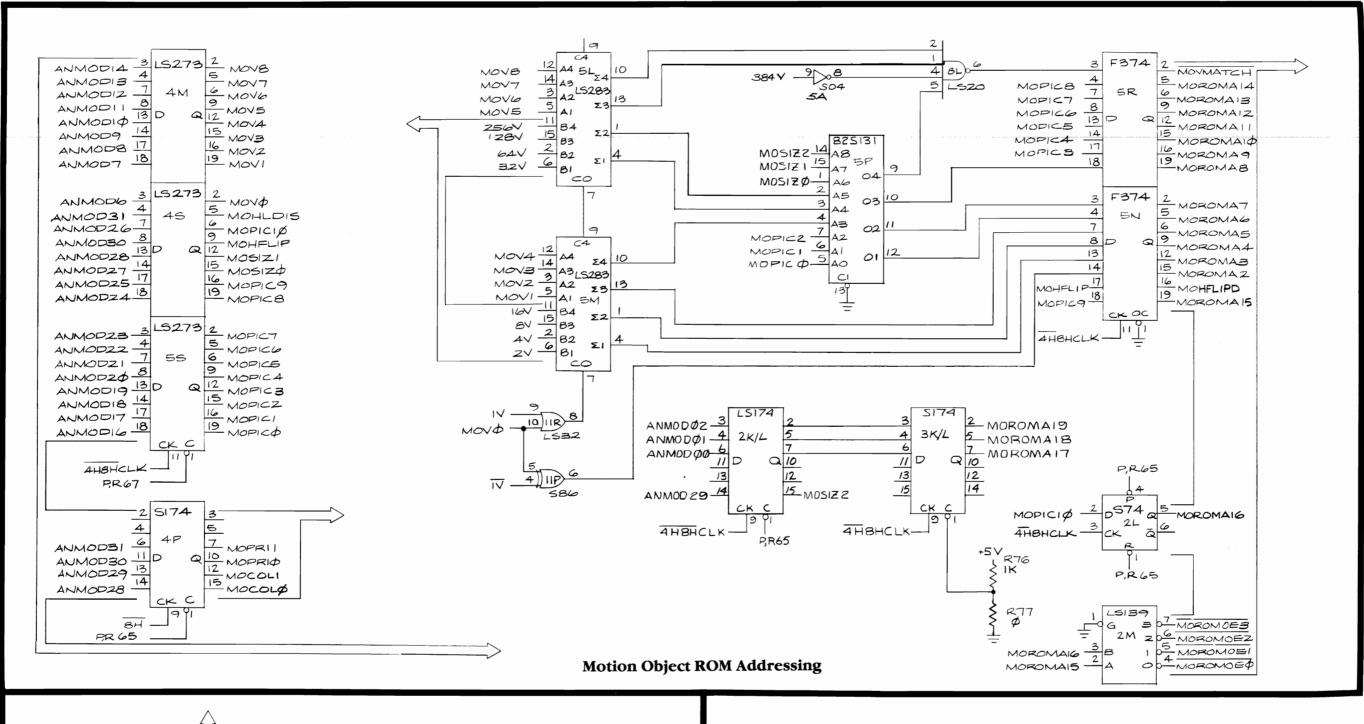
SP-290 Sheet 11A 1st printing

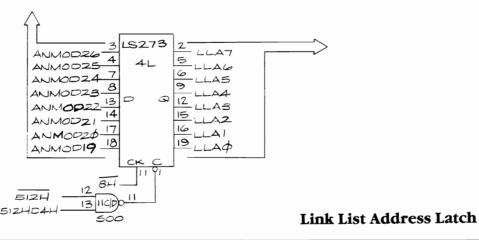


SP-290 Sheet 11B © 1985, 1986 Atari Games Corporation 1st printing

GAMES

ment with or written permission from the





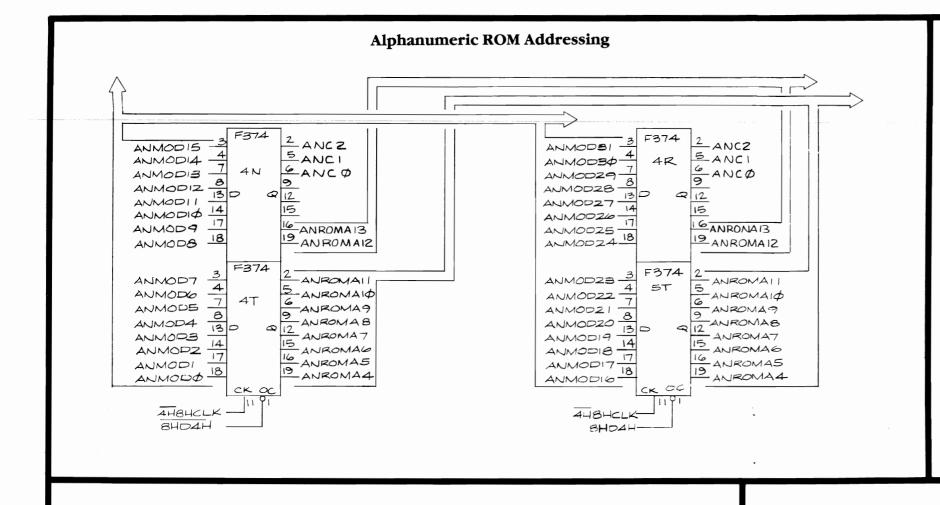
NOTICE TO ALL PERSONS RECEIVING THIS DRAWING

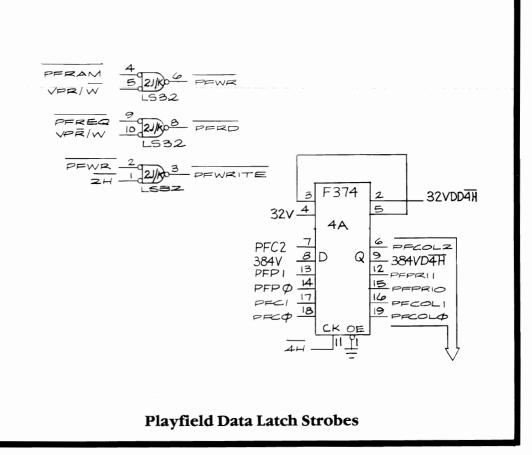
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, CA. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of
the drawing or any design or technical information shown thereon por any right to repromation shown thereon, nor any right to repro-duce this drawing or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the sub-ject matter thereof, unless by written agree-ment with or written permission from the

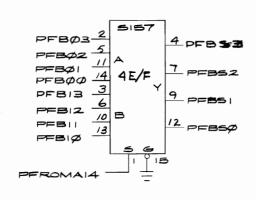


Super Sprint™ Video PCB Schematic Diagram

SP-290 Sheet 12A 1st printing







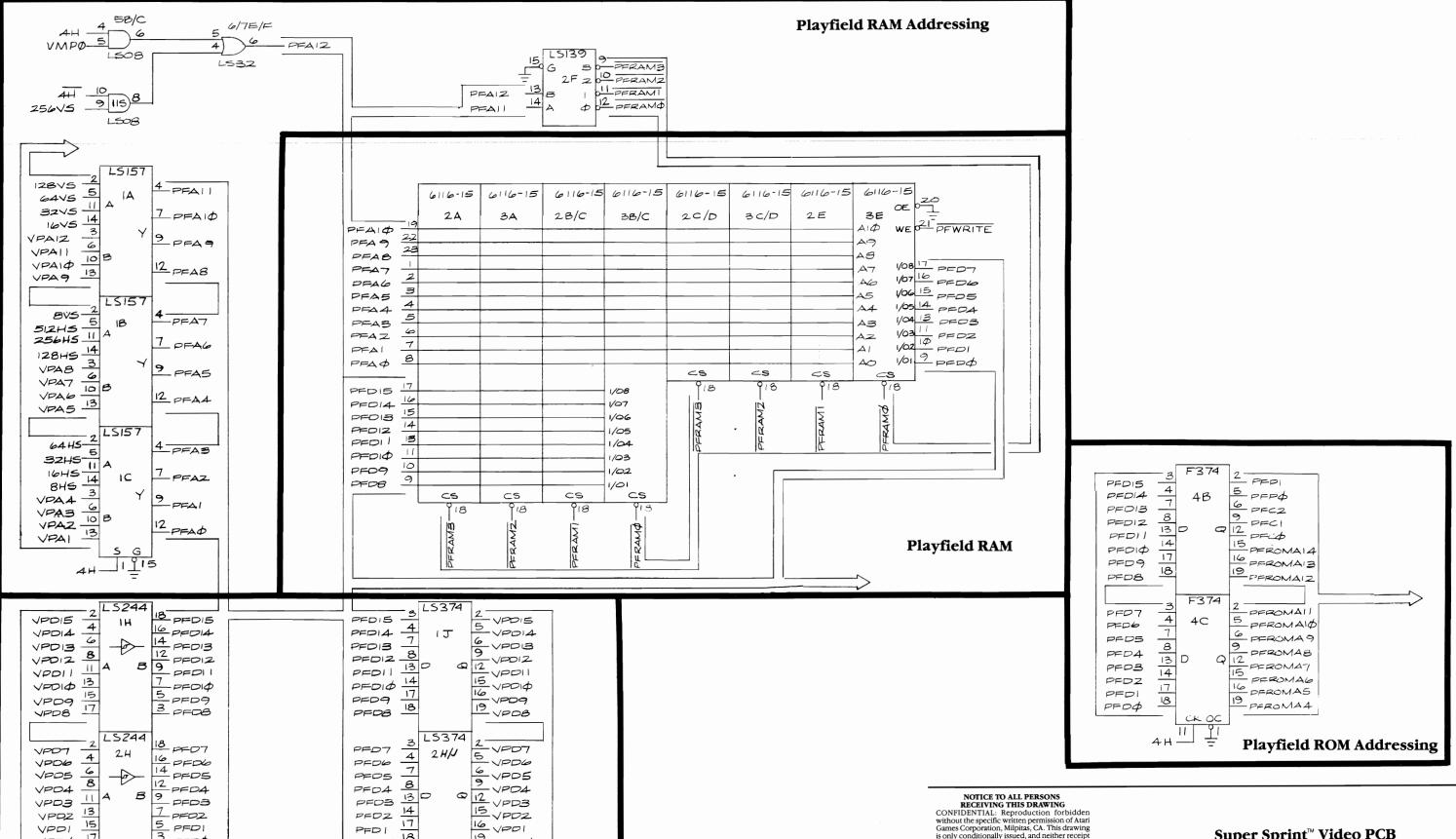
Playfield Bank Select

NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.



Super Sprint $^{\mathsf{TM}}$ **Video PCB Schematic Diagram**

SP-290 Sheet 12B © 1985, 1986 Atari Games Corporation 1st printing



19 VPDØ

18

4H —

PFDØ

PERD

17

PEDO

Playfield Data Latches

VPDØ

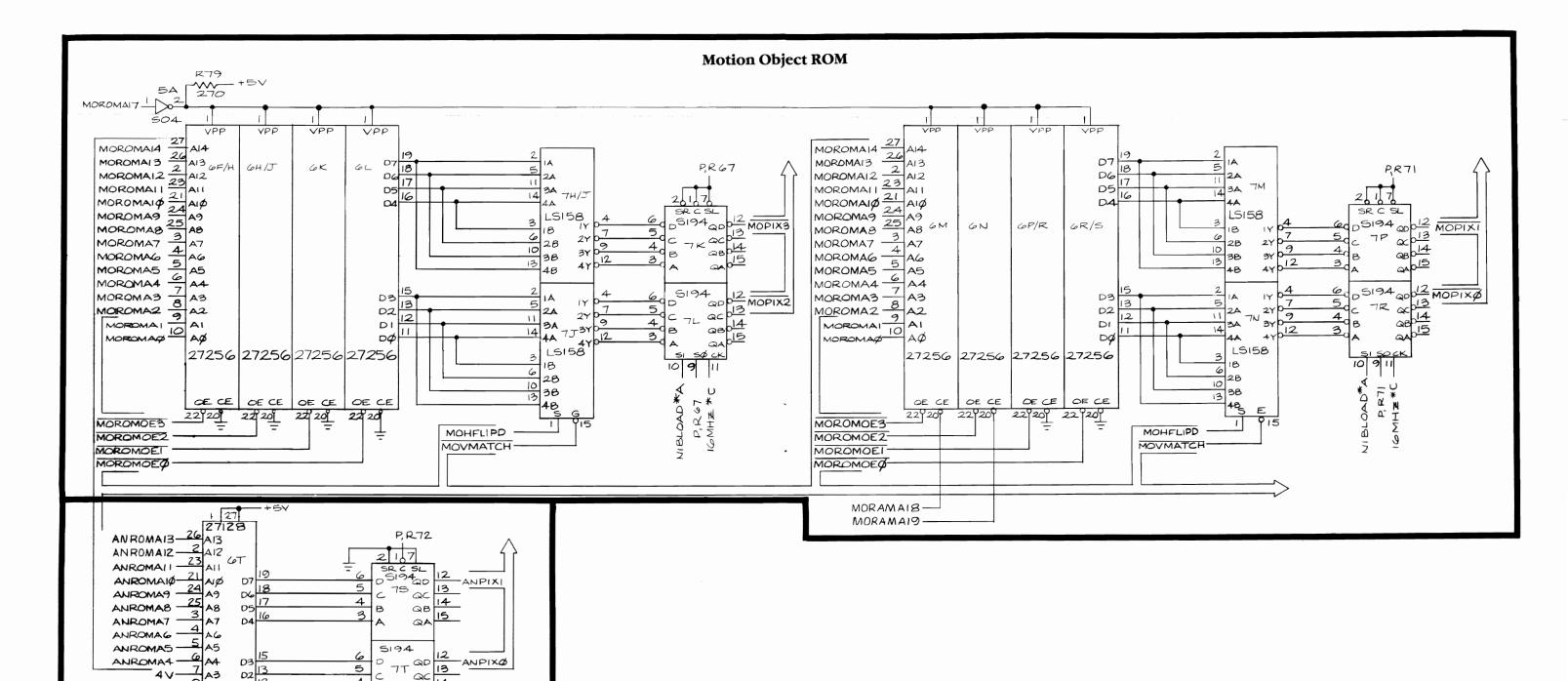
PFWR

NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the



Super Sprint™ Video PCB Schematic Diagram

SP-290 Sheet 13A 1st printing



14_

QB QA

В

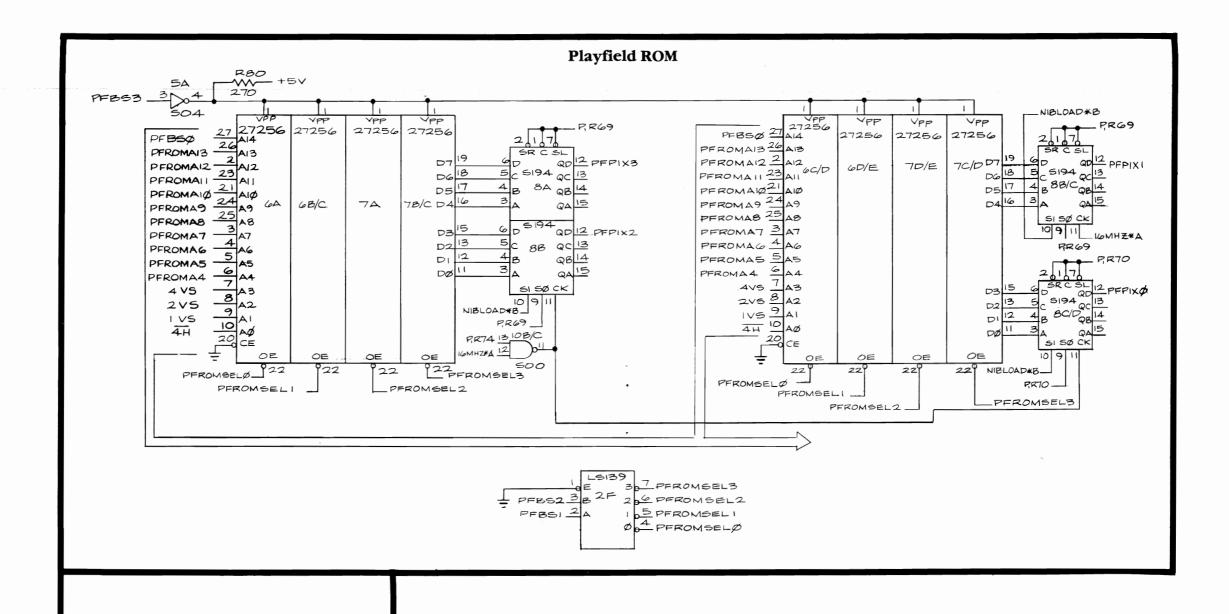
Alphanumeric ROM

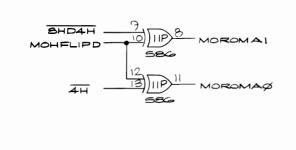
NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, CA. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of
the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except
for manufacture by vendors of Atari Games
Corporation, and for manufacture under the
corporation's written license, no right is corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the



Super Sprint™ Video PCB Schematic Diagram

SP-290 Sheet 13B 1st printing





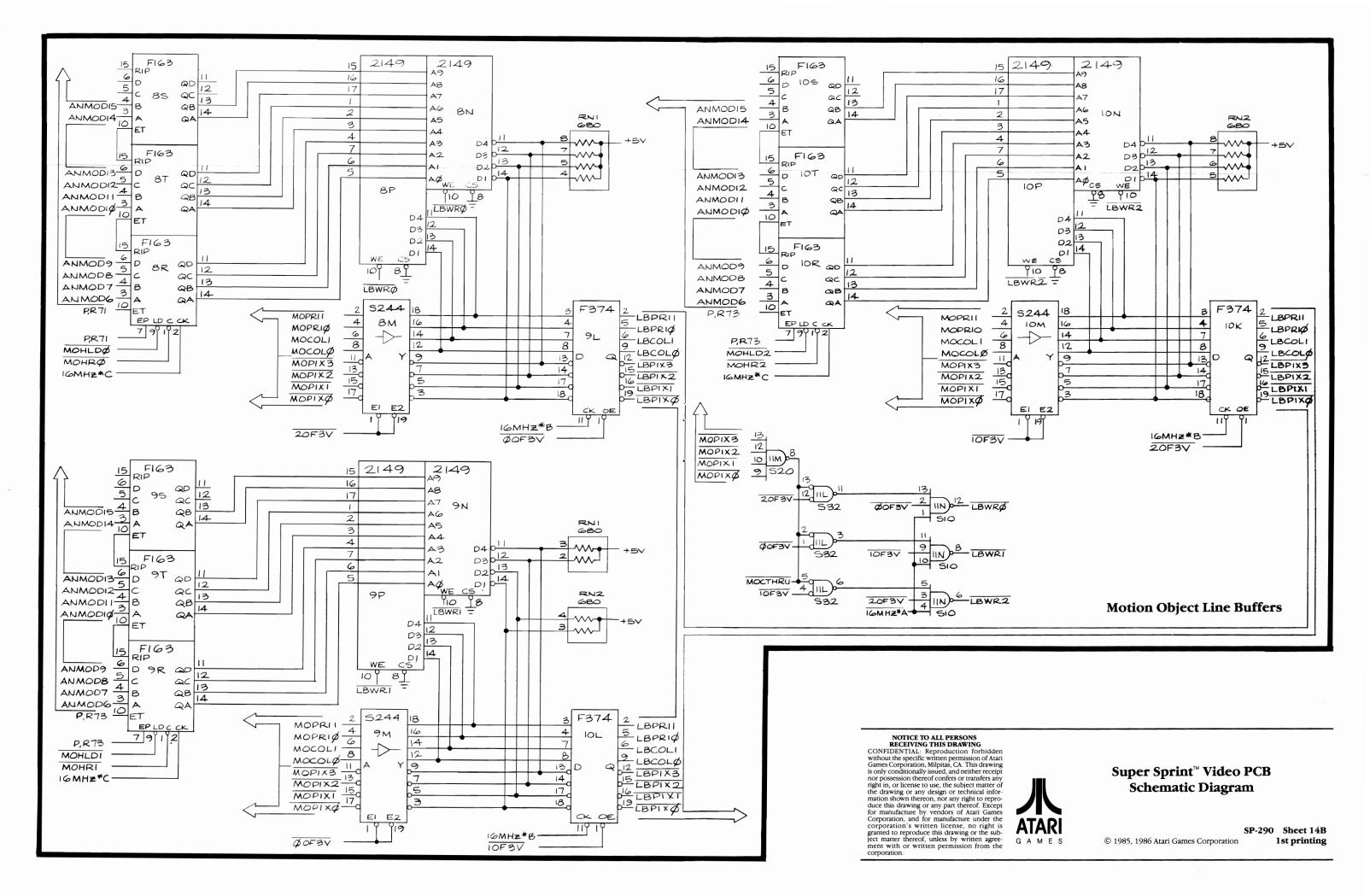
Motion Object ROM Addressing

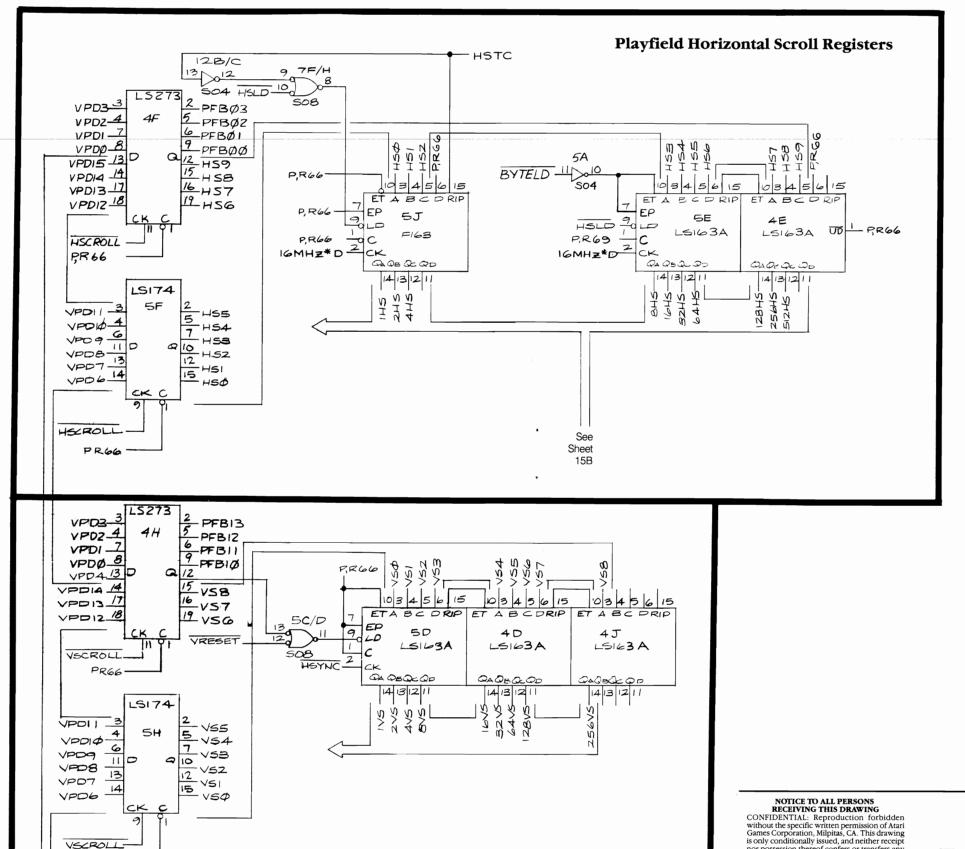
NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, CA. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of
the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except mation shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.



Super Sprint $^{\mathsf{TM}}$ **Video PCB Schematic Diagram**

SP-290 Sheet 14A © 1985, 1986 Atari Games Corporation 1st printing





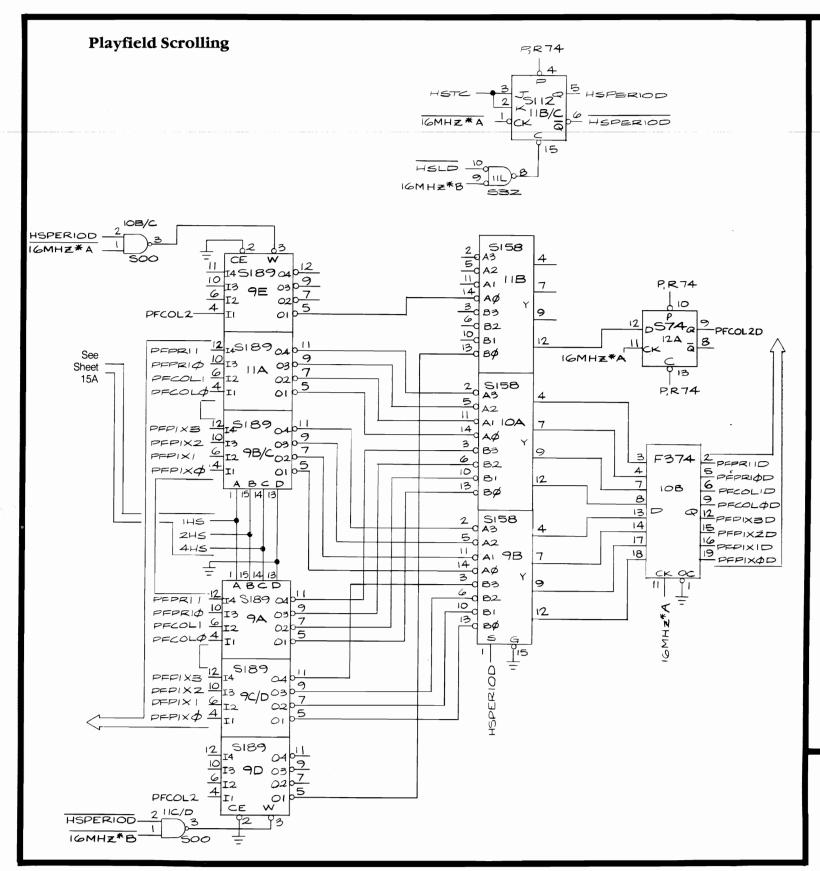
Playfield Vertical Scroll Registers

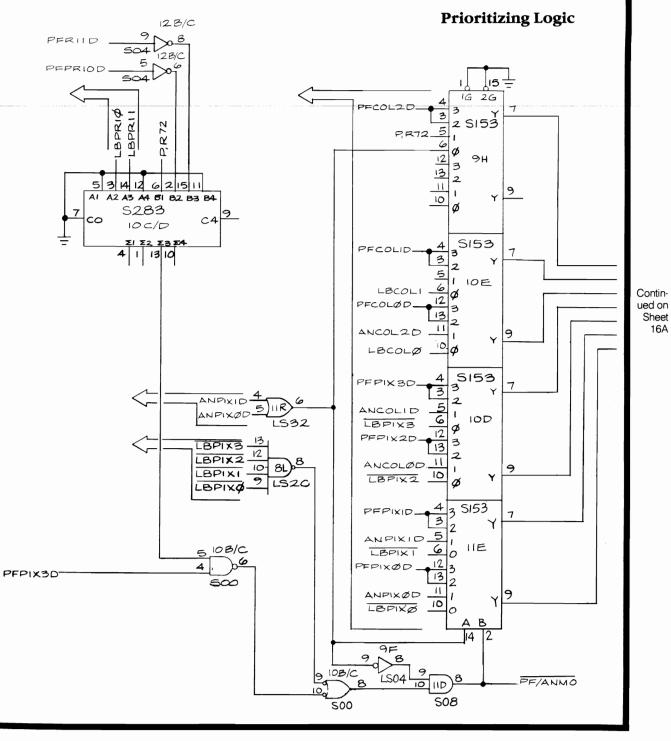
NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, CA. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of
the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except
for manufacture by vendors of Atari Games
Corporation, and for manufacture under the
corporation's written license, no right is
granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the
corporation.



Super Sprint™ Video PCB Schematic Diagram

© 1985, 1986 Atari Games Corporation SP-290 Sheet 15A 1st printing



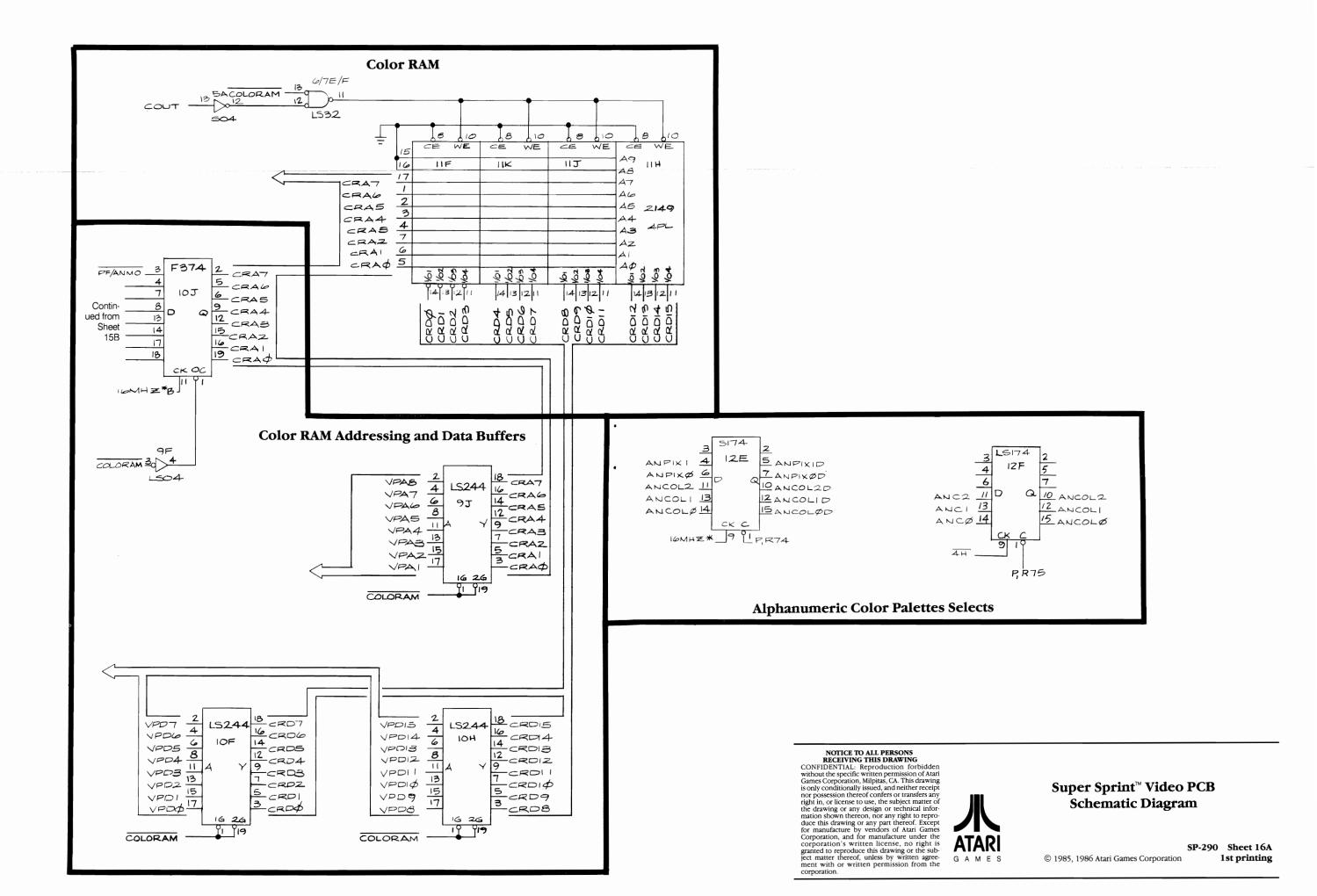


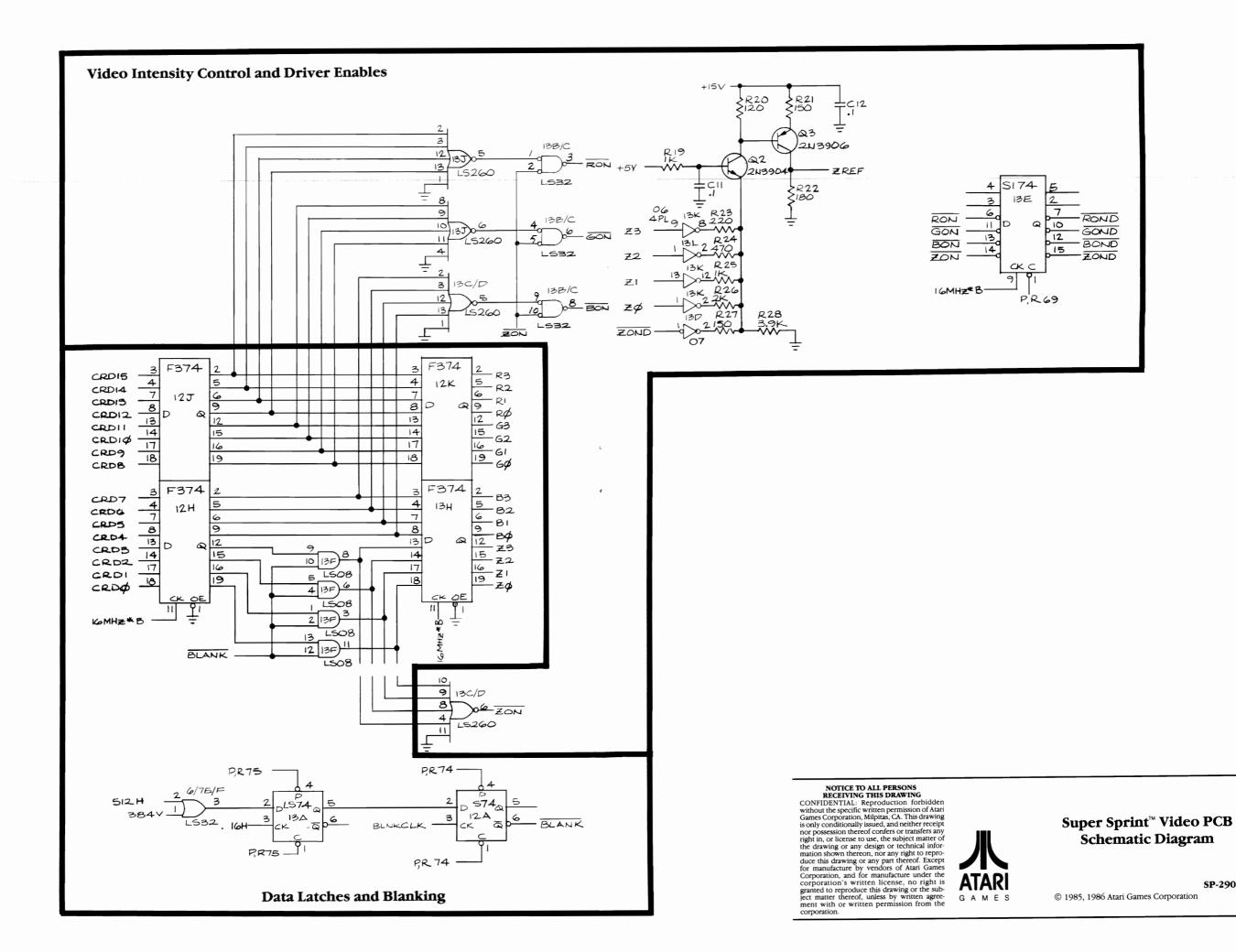
NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, Ca. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of
the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except
for manufacture by vendors of Atari Games
Corporation, and for manufacture under the
corporation's written license, no right is corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.



Super Sprint™ Video PCB Schematic Diagram

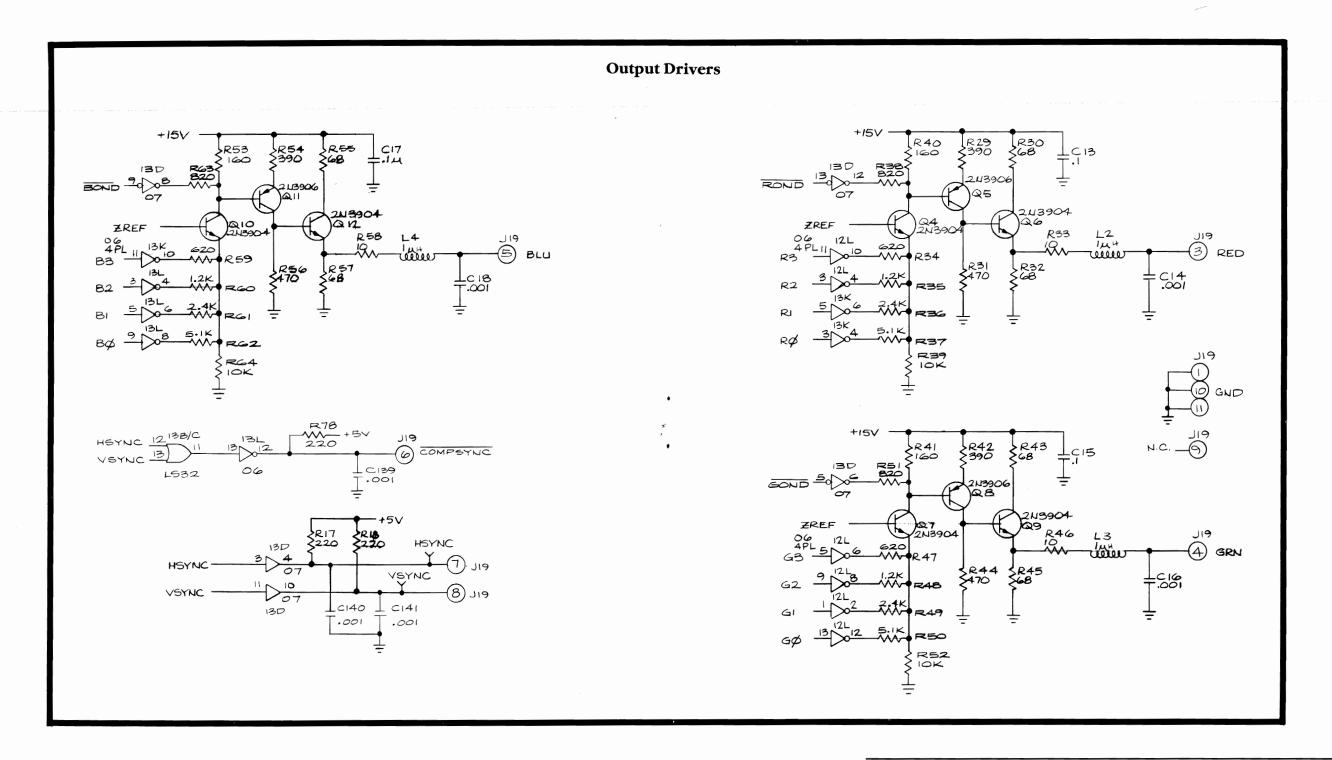
SP-290 Sheet 15B © 1985, 1986 Atari Games Corporation 1st printing





SP-290 Sheet 16B

1st printing



NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden
without the specific written permission of Atari
Games Corporation, Milpitas, CA. This drawing
is only conditionally issued, and neither receipt
nor possession thereof confers or transfers any
right in, or license to use, the subject matter of
the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except
for manufacture by vendors of Atari Games
Corporation's written license, no right is
granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the
corporation.



Super Sprint™ Video PCB Schematic Diagram

SP-290 Sheet 17A © 1985, 1986 Atari Games Corporation 1st printing