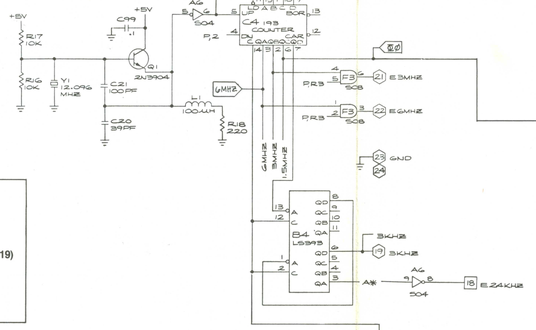
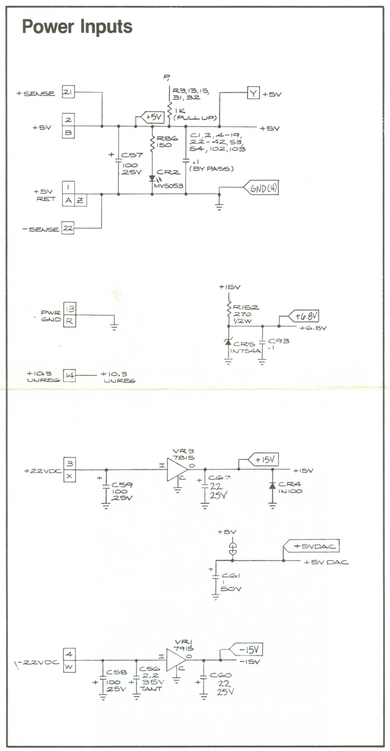
Clock Circuit



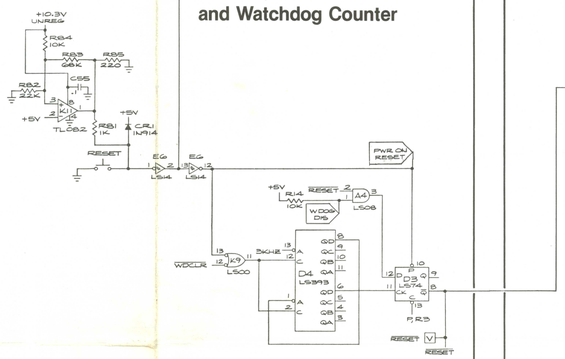
NOTE

- Indicates edge connector (J20)
- Indicates interconnect connector (J19)
- Indicates CAT Box connector
- Indicates Test Point

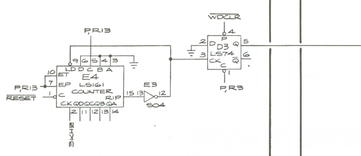
Power Inputs



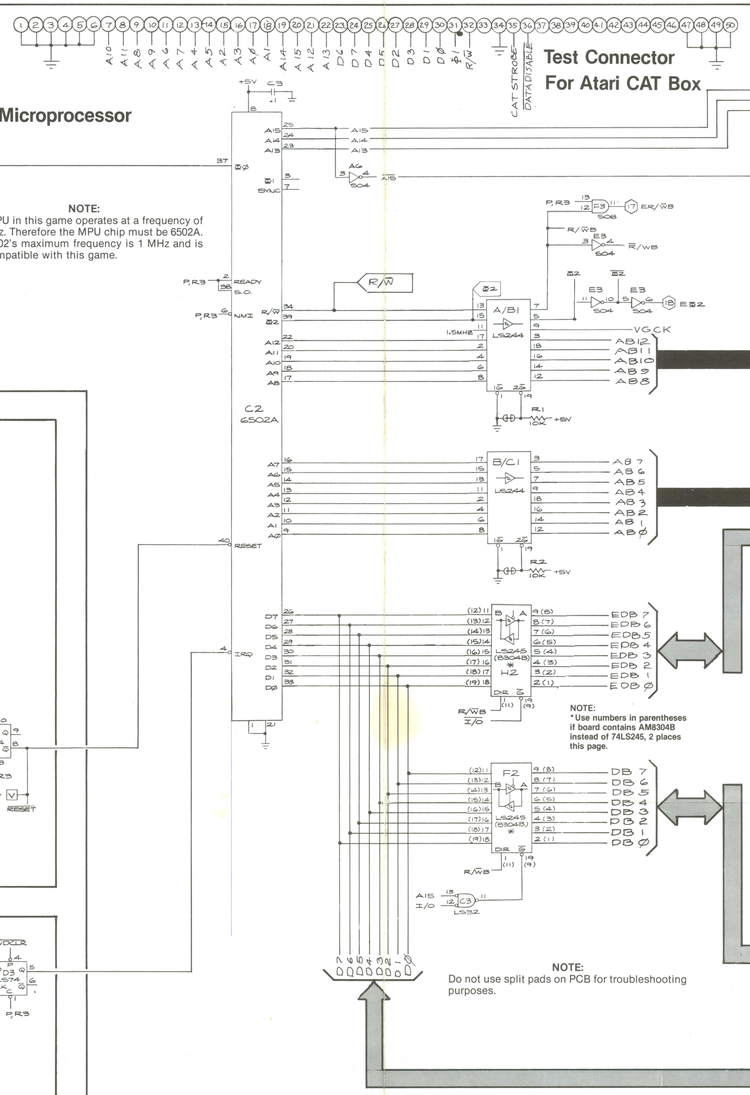
Power Reset and Watchdog Counter



IRQ Counter



Microprocessor



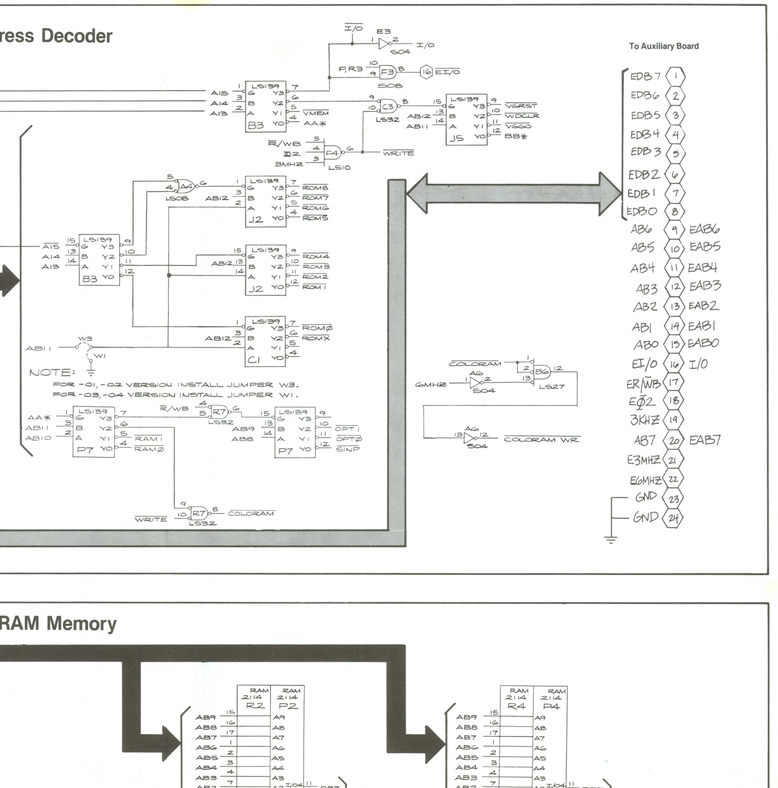
NOTE:
The MPU in this game operates at a frequency of 1.5 MHz. Therefore the MPU chip must be 6502A. The 6502's maximum frequency is 1 MHz and is not compatible with this game.

NOTE:
*Use numbers in parentheses if board contains AM8304B instead of 74LS245, 2 places this page.

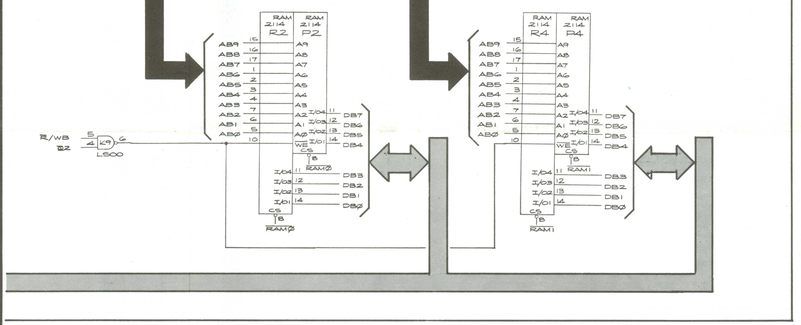
NOTE:
Do not use split pads on PCB for troubleshooting purposes.

Test Connector For Atari CAT Box

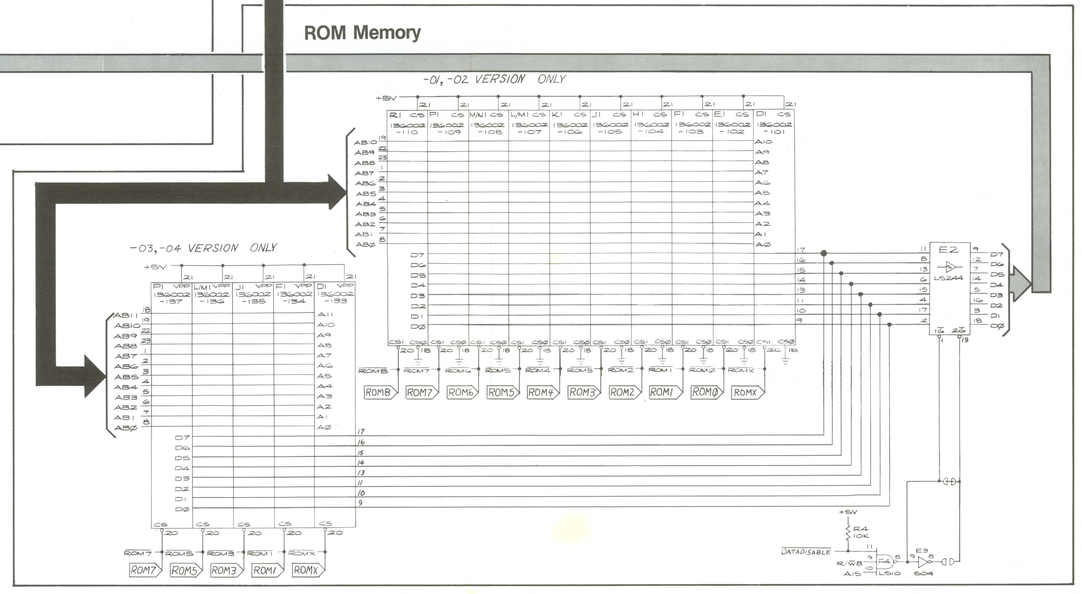
Address Decoder



RAM Memory



ROM Memory



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ATARI®

Tempest™

Sheet 2, Side A
Analog Vector-Generator PCB
Microprocessor
Address Decoding
Power Input Clock
IRQ Counter
Power Reset and Watchdog Counter
ROM Memory RAM Memory
Memory Map
Section of 037383-01 thru -04 C

Sheet 2, Side A
DP-190-02 2nd printing
Tempest™

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MEMORY MAP										
HEXA-DECIMAL ADDRESS	R/W	DATA D7	D6	D5	D4	D3	D2	D1	D0	FUNCTION
0000-7FFF	R/W	D	D	D	D	D	D	D	D	Program RAM (2K)
0800-080F	W					D	D	D	D	Color RAM
0C00	R								D	Right Coin Switch
0C00	R							D		Center Coin Switch
0C00	R						D			Left Coin Switch
0C00	R					D				Slam Switch
0C00	R				D					Self-Test Switch
0C00	R			D						Diag. Step Switch
0C00	R		D							HALT
0C00	R	D								3KHz
0D00	R	D	D	D	D	D	D	D	D	Option Switch Inputs
0E00	R	D	D	D	D	D	D	D	D	Option Switch Inputs
2000-2FFF	R/W	D	D	D	D	D	D	D	D	Vector RAM (4K)
3000-3FFF	R	D	D	D	D	D	D	D	D	Vector ROM (4K)
4000	W								D	Right Coin Counter
4000	W							D		Center Coin Counter
4000	W					D				Video Invert X
4000	W				D					Video Invert Y
4800	W									VG GO

MEMORY MAP										
HEXA-DECIMAL ADDRESS	R/W	DATA D7	D6	D5	D4	D3	D2	D1	D0	FUNCTION
5000	W									WD CLEAR
5800	W									VG Reset
6000-603F	W	D	D	D	D	D	D	D	D	EAROM Write
6040	W	D	D	D	D	D	D	D	D	EAROM Control
6040	R	D								Math Box Status
6050	R	D	D	D	D	D	D	D	D	EAROM Read
6060	R	D	D	D	D	D	D	D	D	Math Box Read
6070	R	D	D	D	D	D	D	D	D	Math Box Read
6080-609F	W	D	D	D	D	D	D	D	D	Math Box Start
60C0-60CF	R/W	D	D	D	D	D	D	D	D	Custom Audio Chip 1
60D0-60DF	R/W	D	D	D	D	D	D	D	D	Custom Audio Chip 2
60E0	R								D	One Player Start
60E0	R							D		Two Player Start
60E0	R						D			FLIP
9000-DFFF	R	D	D	D	D	D	D	D	D	Program ROM (20K)