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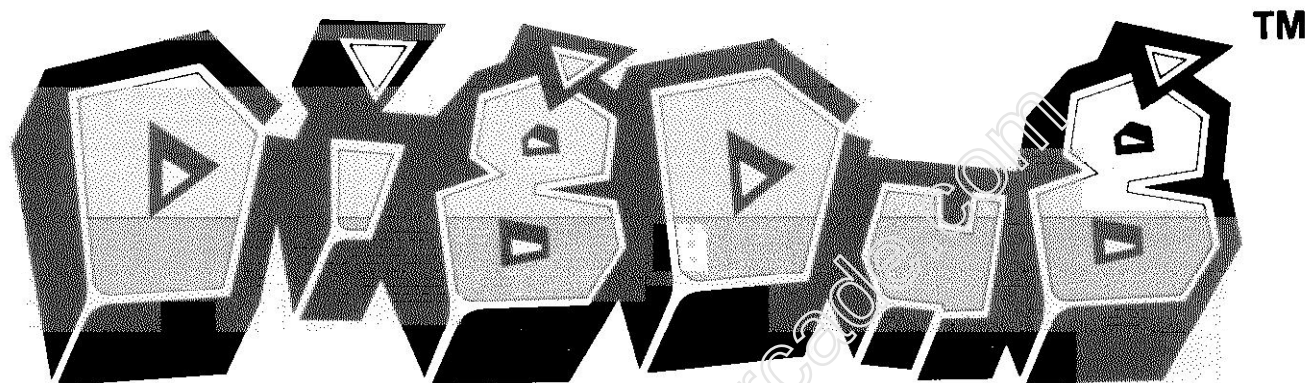
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Schematic Package Supplement to



Operation, Maintenance and Service Manual



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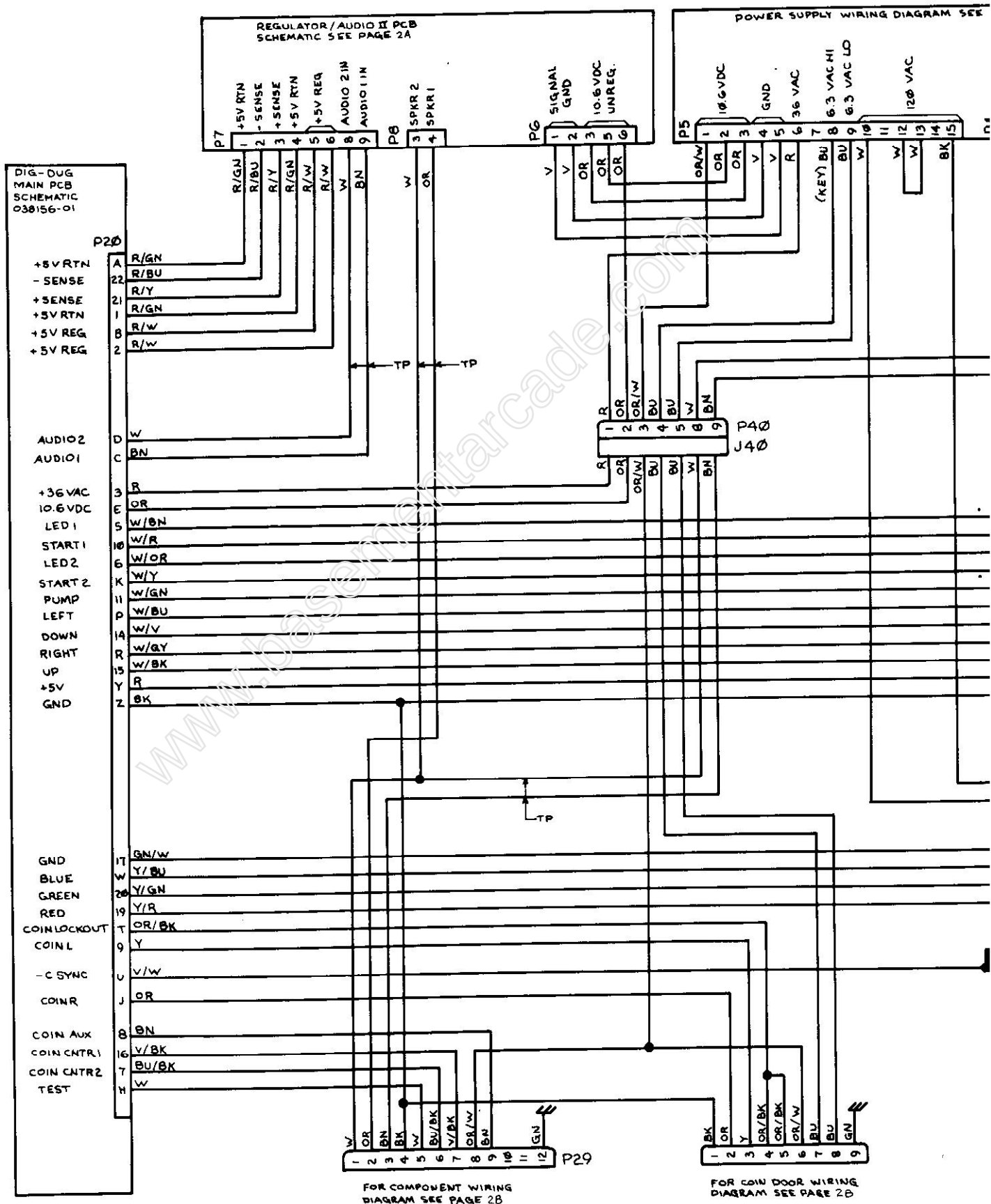
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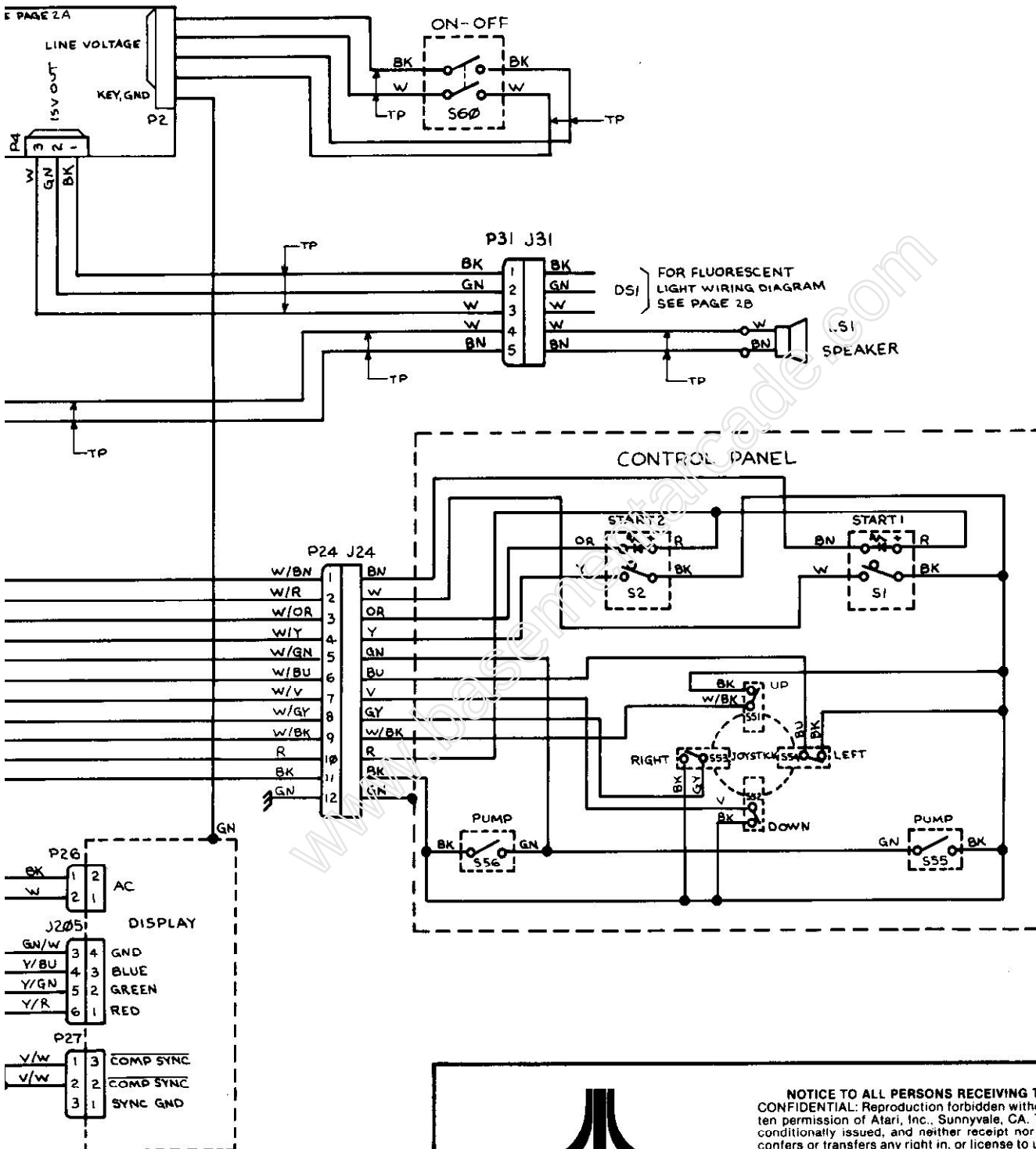
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NOTE
This staple temporarily holds the schematic package together. Remove the staple before using the schematics.

Dig Dug Upright Game Wiring Diagram





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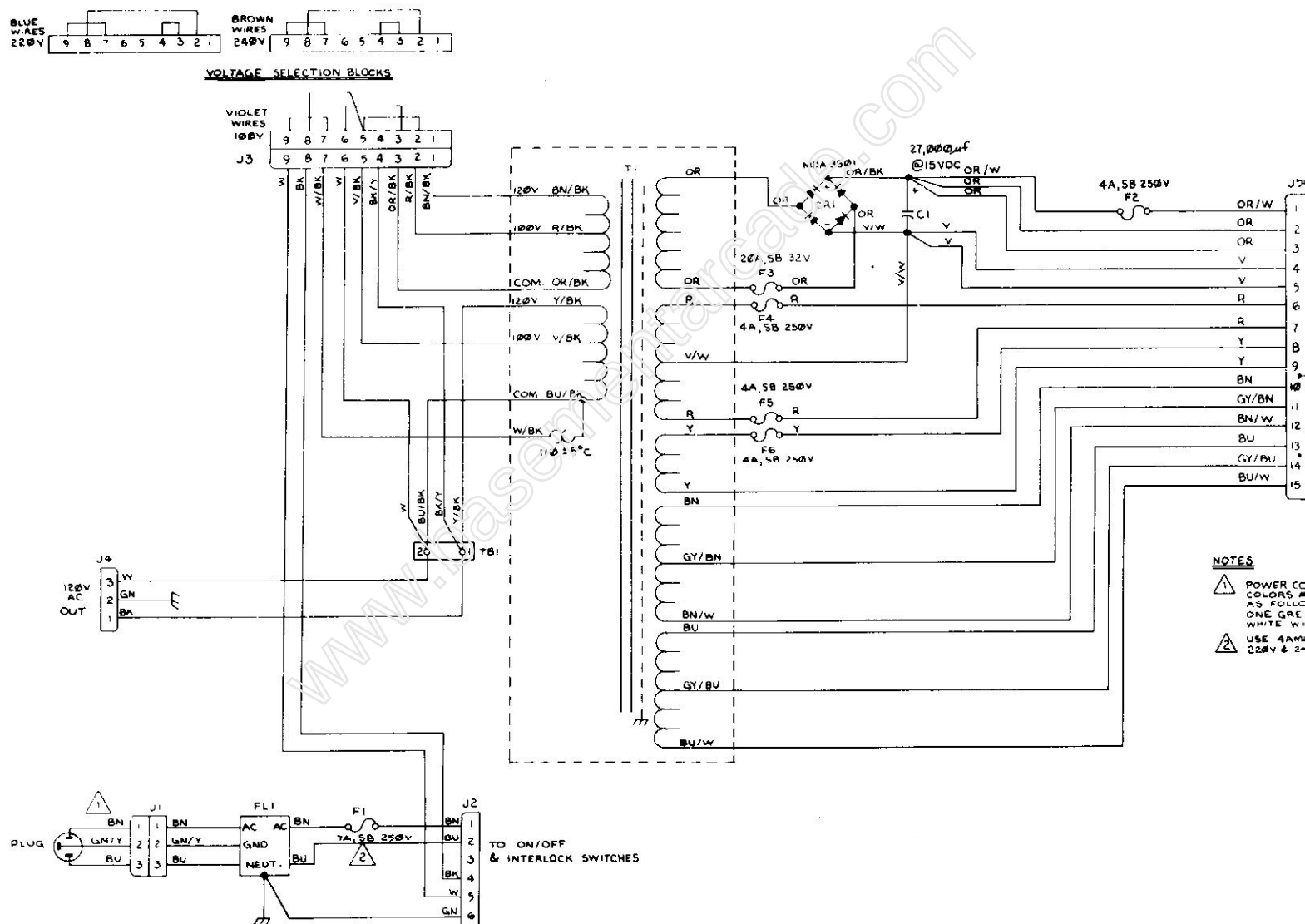
Dig Dug Game Wiring Diagram

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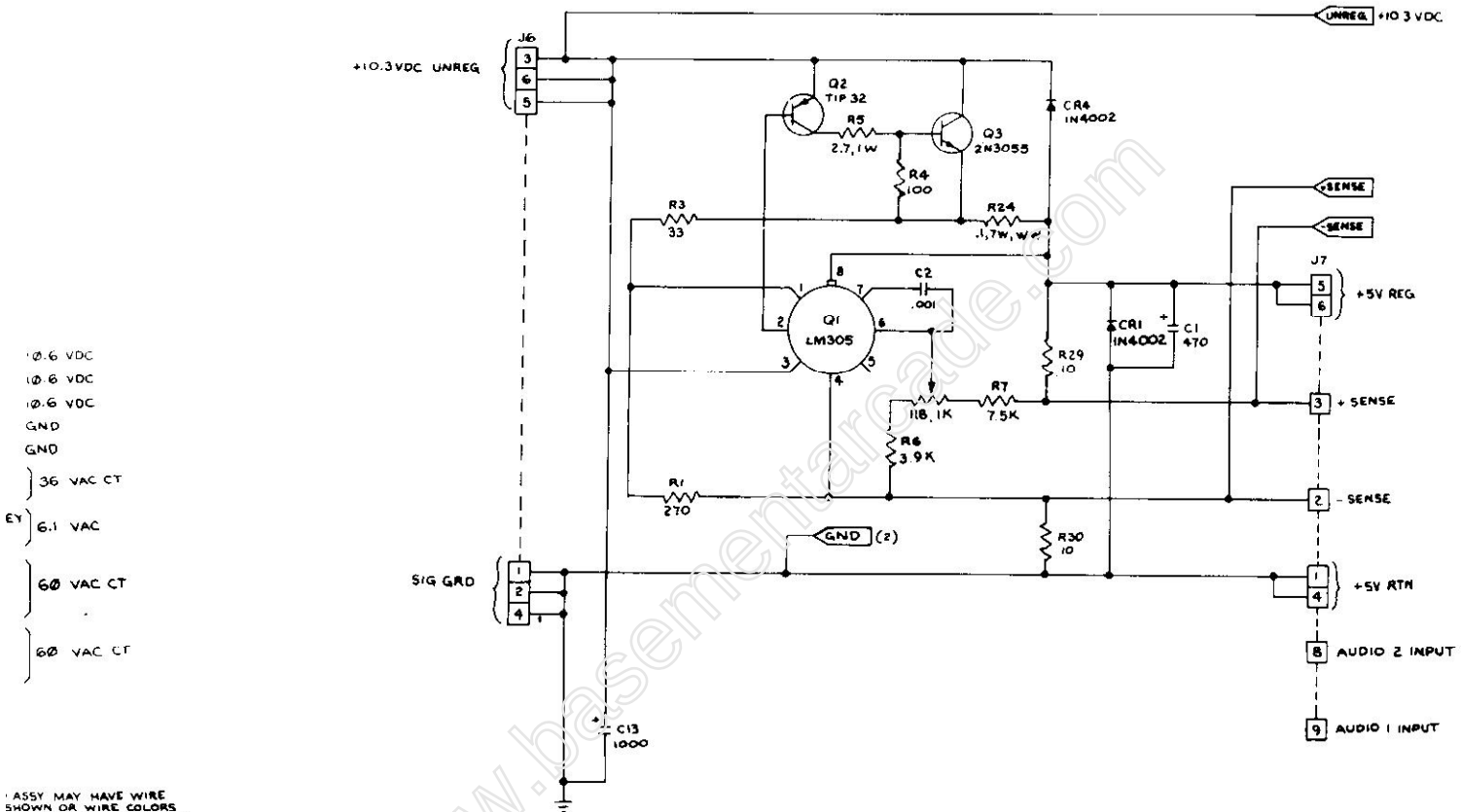
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Color Raster Power Supply Wiring Diagram



Regulator/Audio II PCB Schematic Diagram



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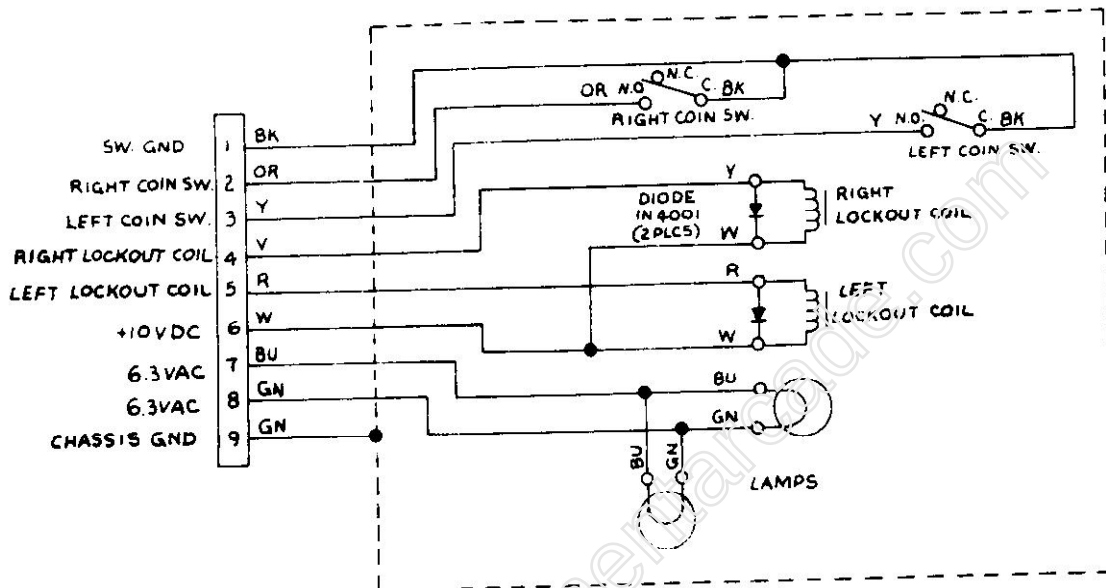
Dig Dug Power Supply and Reg/Audio II PCB

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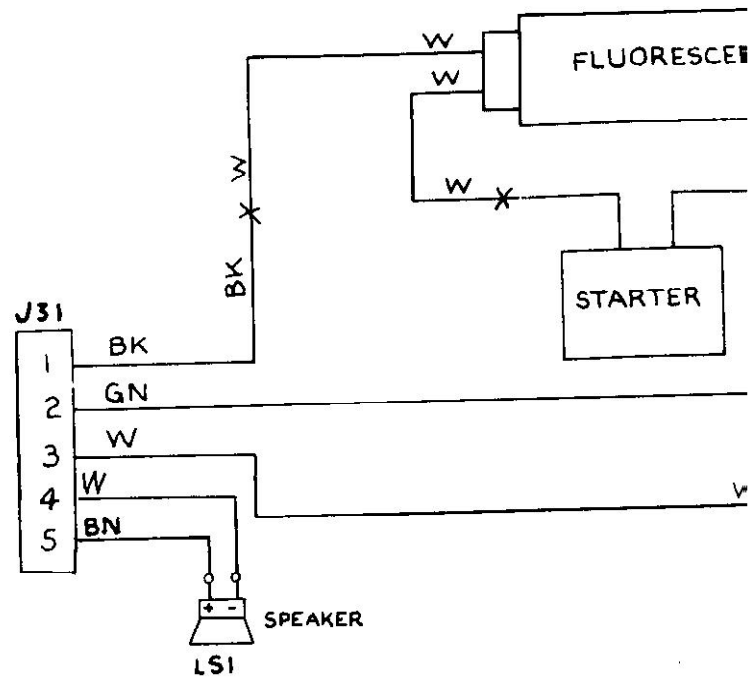
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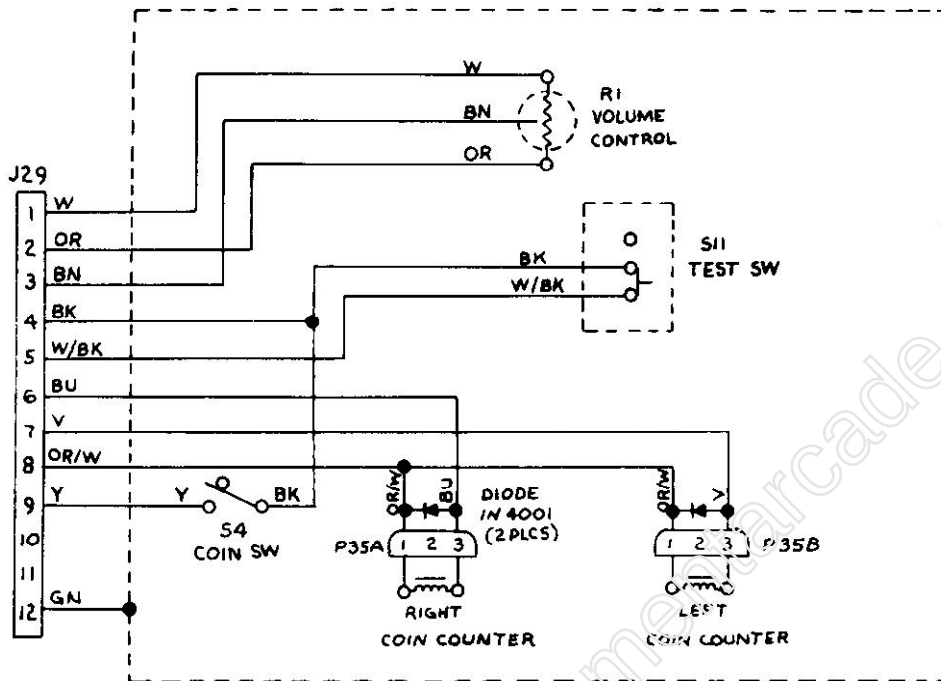
Coin Door Wiring Diagram



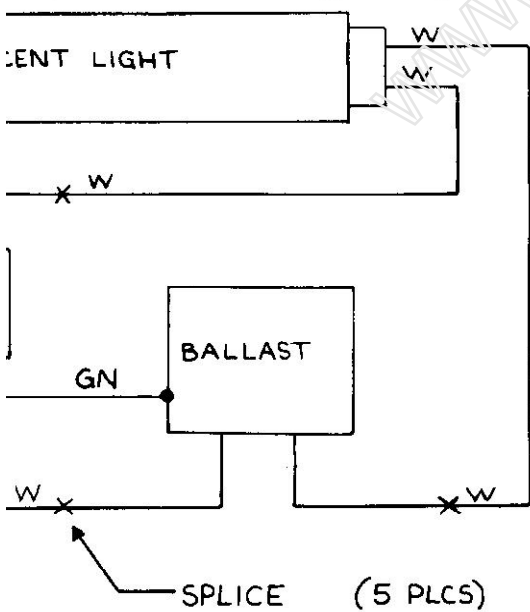
Fluorescent Light And S



Utility Panel Wiring Diagram



Speaker Wiring Diagram



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Dig Dug Game Wiring Interfaces

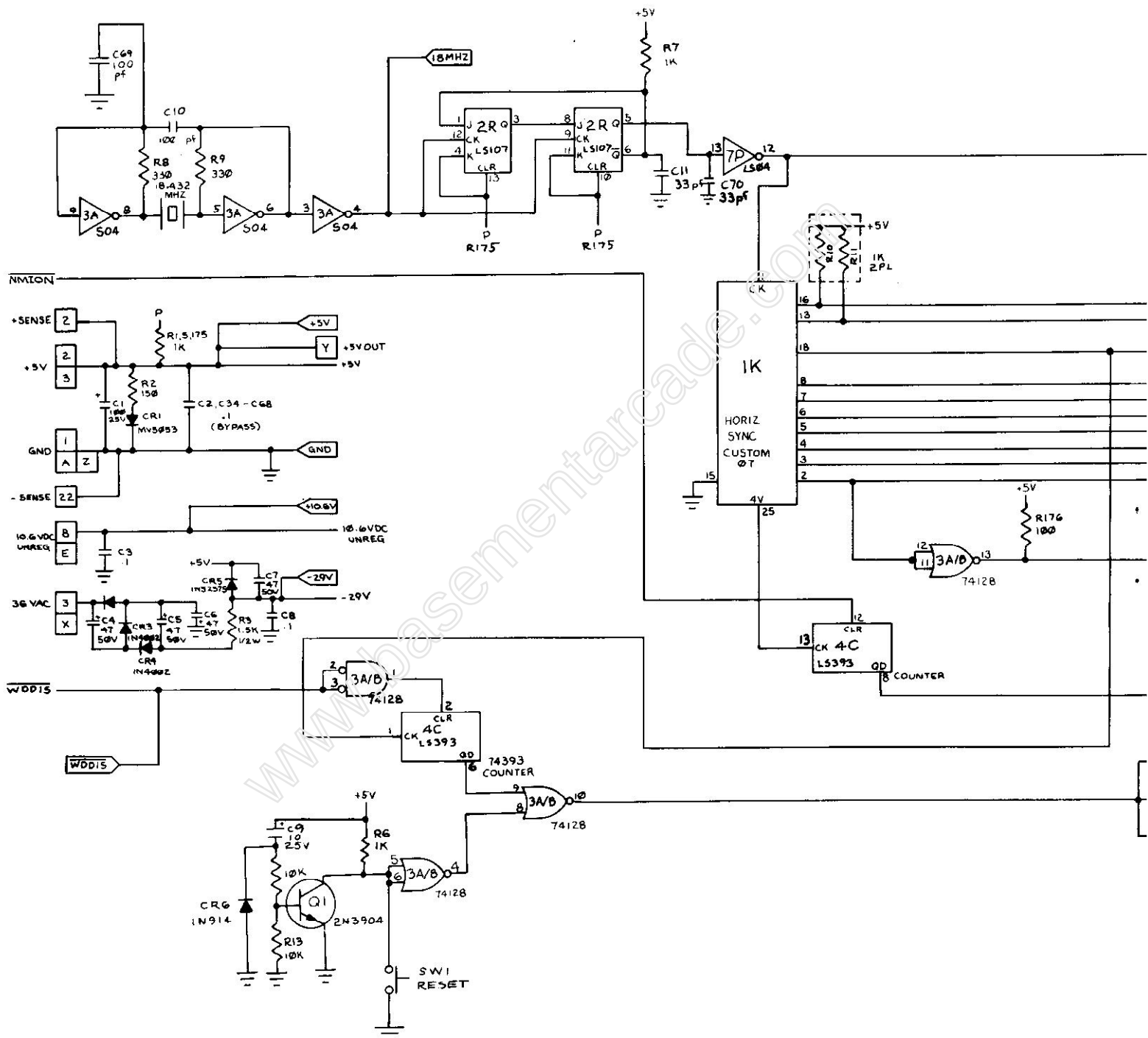
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CPU PCB Power Input, Clock, NMI, and Watchdog



MEMORY MAP

HEXA-DECIMAL ADDRESS	R/W	DATA								FUNCTION
		D7	D6	D5	D4	D3	D2	D1	D0	
0000-3FFF	R	D	D	D	D	D	D	D	D	1st Priority Z80 CPU ROM (16K)
0000-1FFF	R	D	D	D	D	D	D	D	D	2nd Priority Z80 CPU ROM (8K)
0000-0FFF	R	D	D	D	D	D	D	D	D	3rd Priority Z80 CPU ROM (4K)
6800-680F	W					D	D	D	D	Audio Control
6810-681F	W					D	D	D	D	Audio Control
6820	W								D	0 = Reset IRQ1 (Latched)
6821	W								D	0 = Reset IRQ2 (Latched)
6822	W								D	0 = Enable NMI3 (Latched)
6823	W								D	0 = Reset 2nd and 3rd Z80 CPUs (Latched)
6825	W								D	Custom Chip 53 Mode Control (Latched)
6826	W								D	Custom Chip 53 Mode Control (Latched)
6827	W								D	Custom Chip 53 Mode Control (Latched)
6830	W									Watchdog Reset
7000	R/W	D	D	D	D	D	D	D	D	Custom Chip 06—Data
7100	R/W	D	D	D	D	D	D	D	D	Custom Chip 06—Command
8000-87FF	R/W	D	D	D	D	D	D	D		2K Playfield RAM
8800-8BFF	R/W	D	D	D	D	D	D	D	D	1K Motion RAM (PIC)
9000-93FF	R/W	D	D	D	D	D	D	D	D	1K Motion RAM (HPOS, VPOS)
9800-9BFF	R/W	D	D	D	D	D	D	D	D	1K Motion RAM (FLIP)
A000	W								D	Playfield Select (Latched)
A001	W								D	Playfield Select (Latched)
A002	W								D	Playfield Color Select (Latched)
A003	W								D	Alphanumeric Color Select (Latched)
A004	W								D	Playfield Color Select (Latched)
A005	W								D	Playfield Color Select (Latched)
A007	W								D	Flip Video
B800-B83F	W	D	D	D	D	D	D	D	D	Write EAROM Address and Data
B800	R	D	D	D	D	D	D	D	D	Read EAROM Data
B840	W					D	D	D	D	Write EAROM Control



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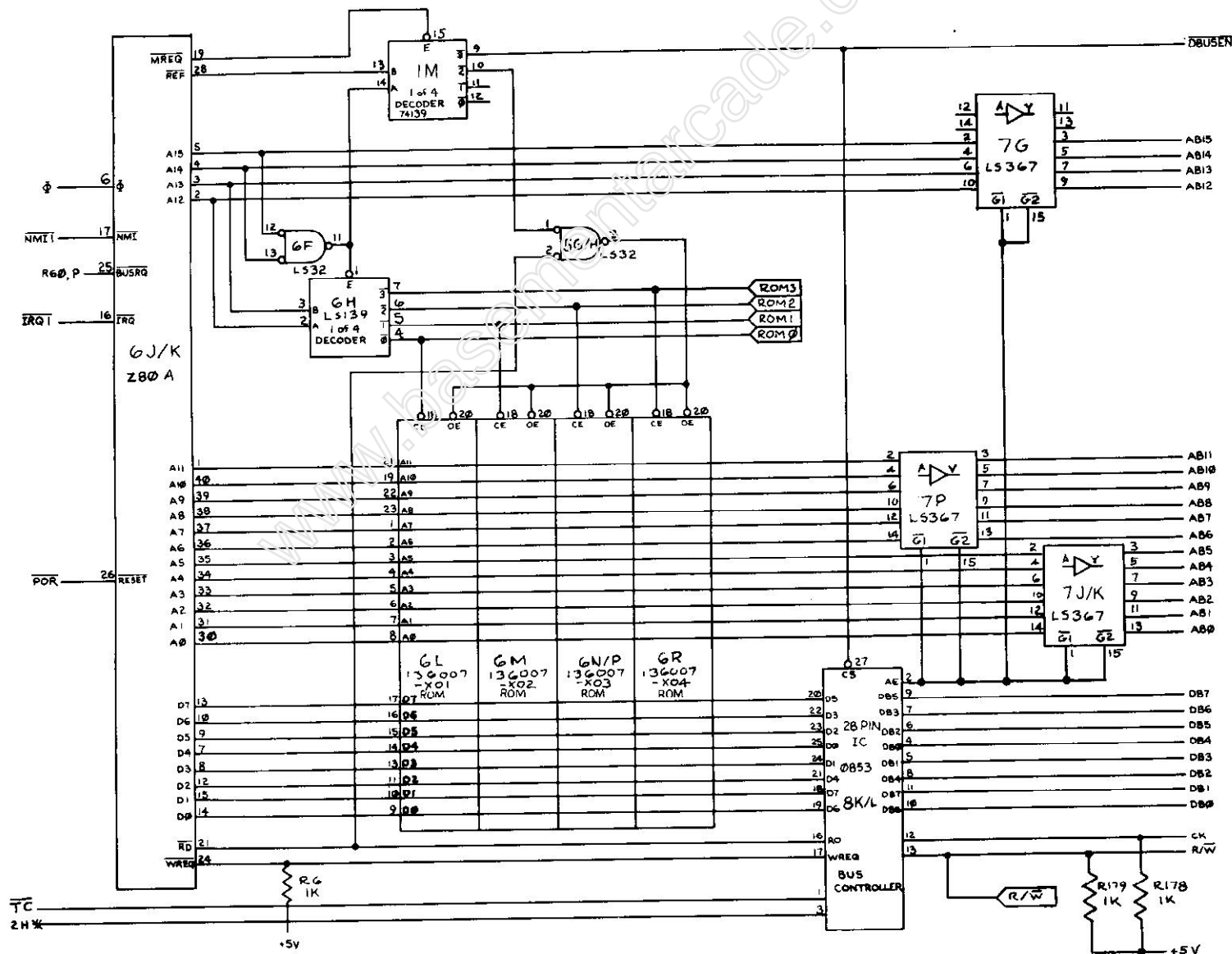
Dig Dug CPU PCB Schematic Diagram

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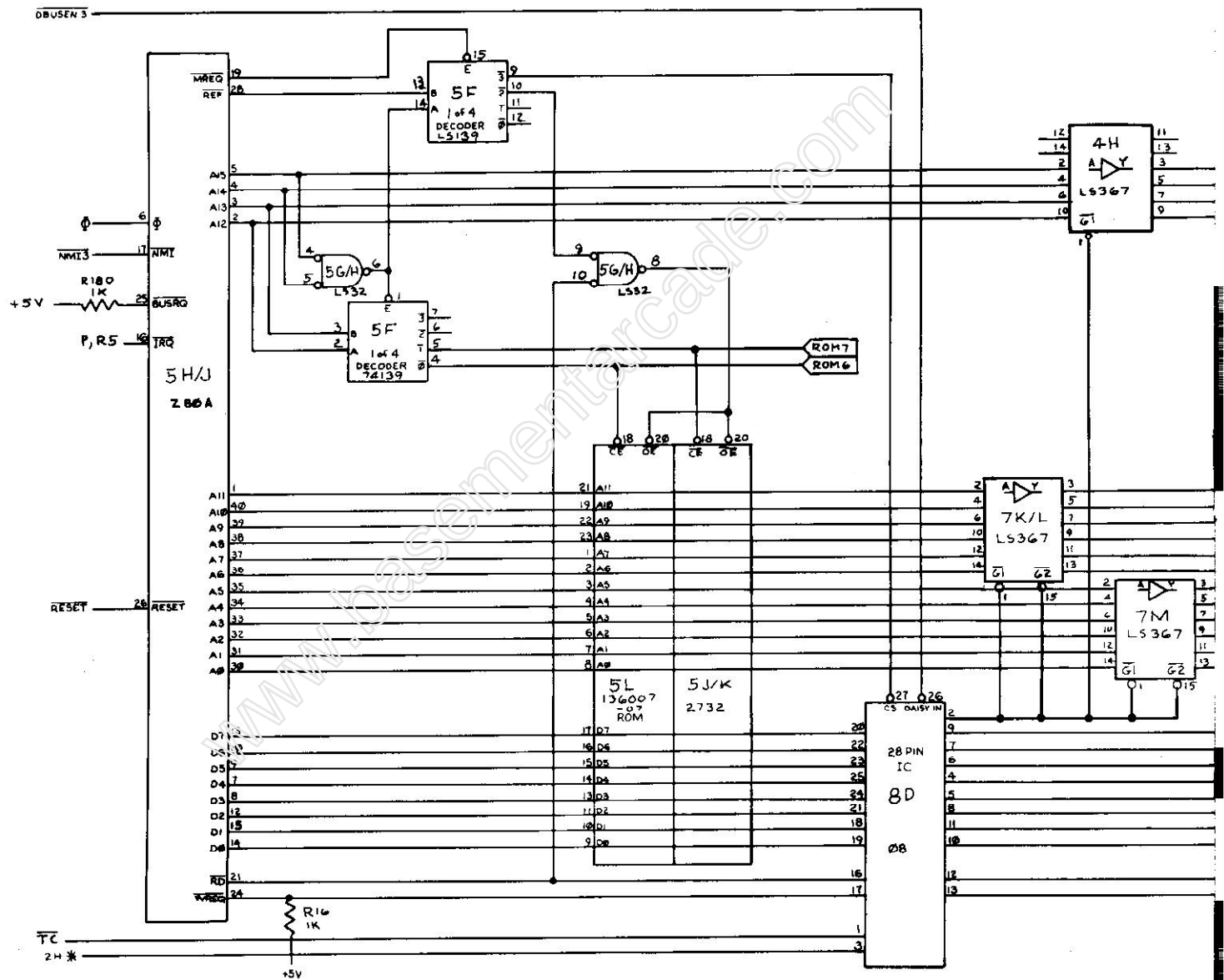
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1st Priority CPU

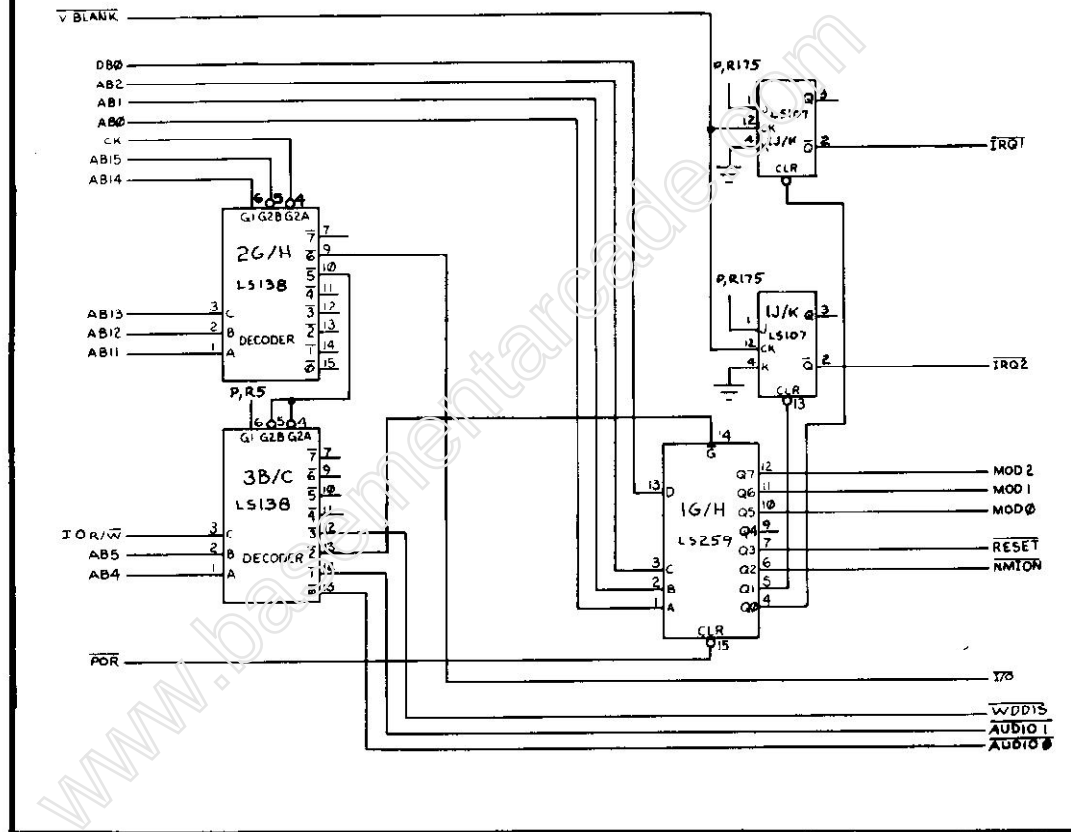


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3rd Priority CPU



CPU PCB Address Decoder



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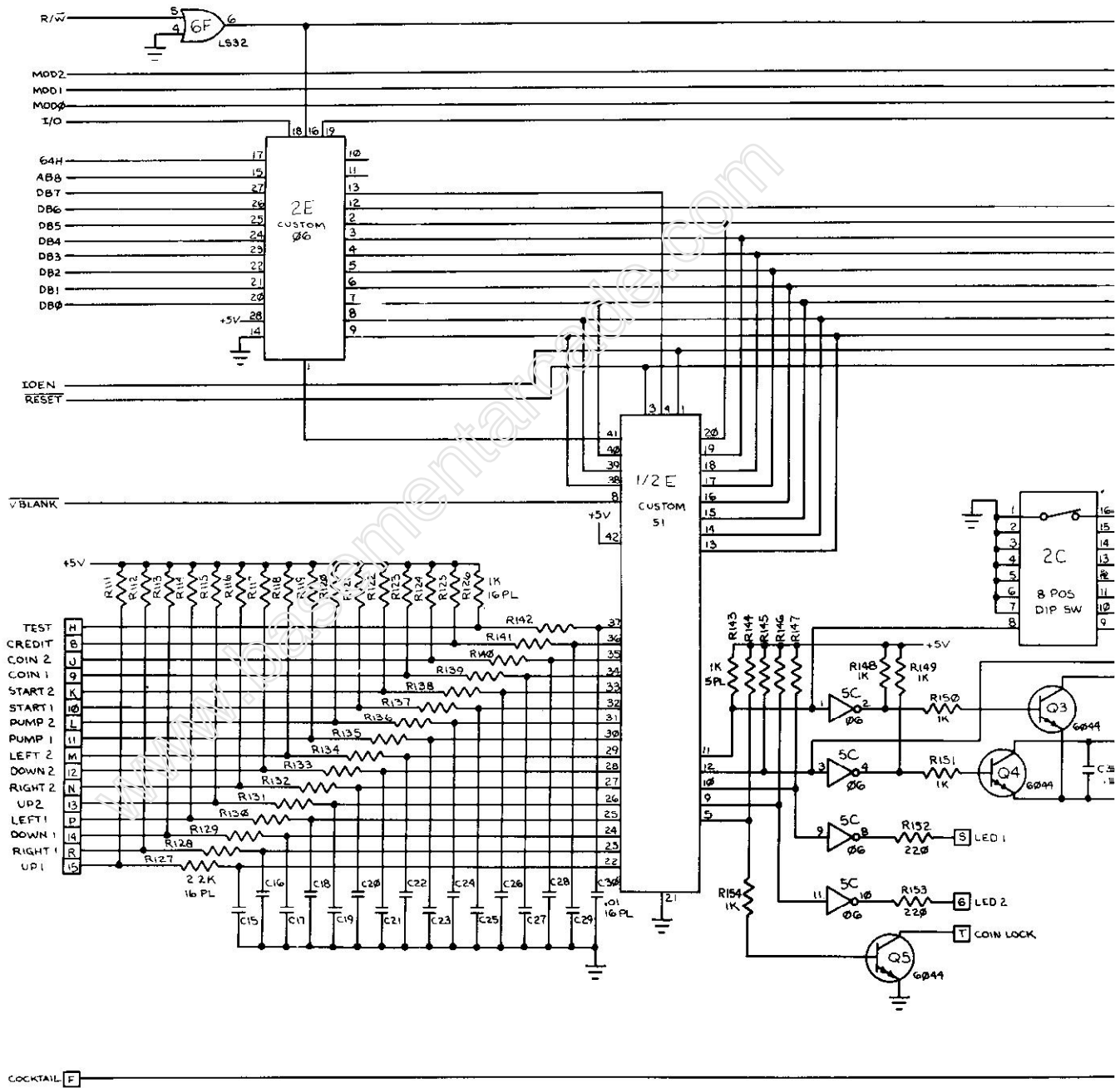
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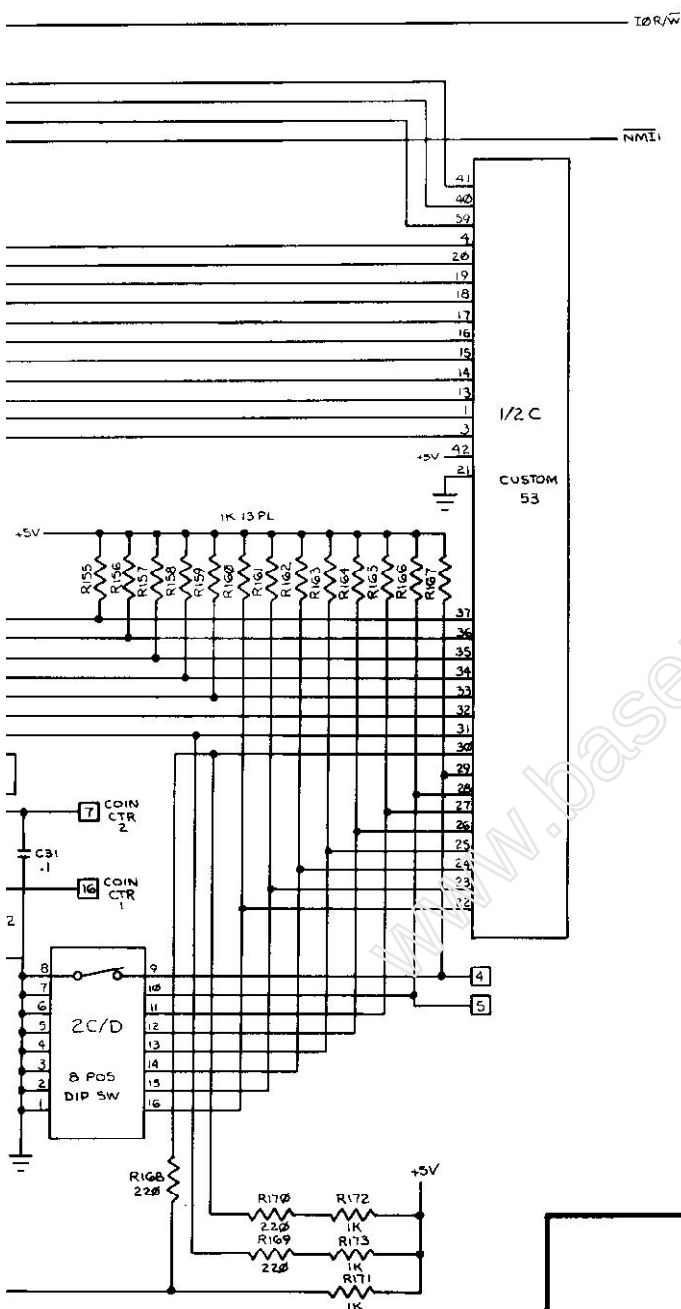
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Switch Inputs, Coin Door and Control Panel



el Outputs



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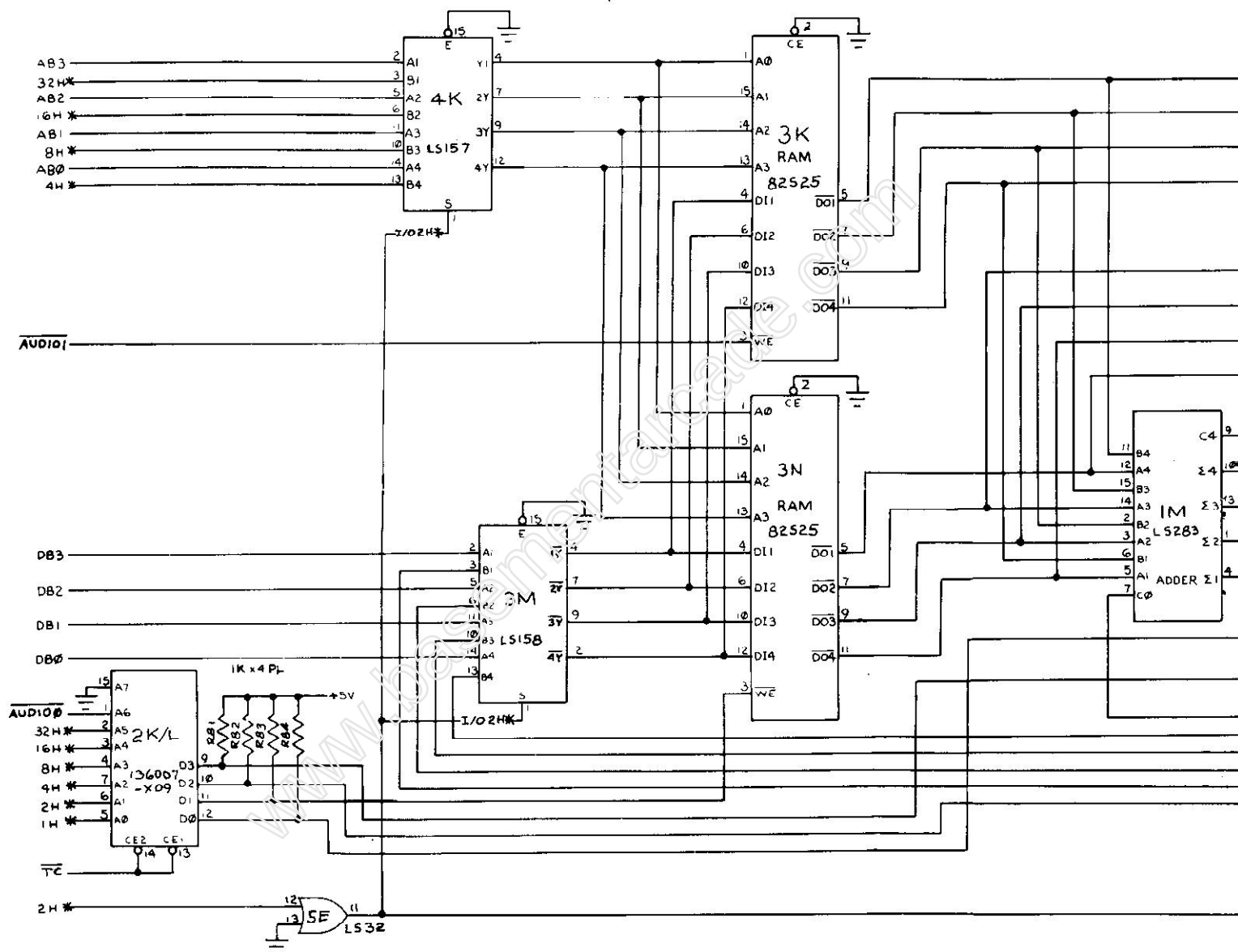
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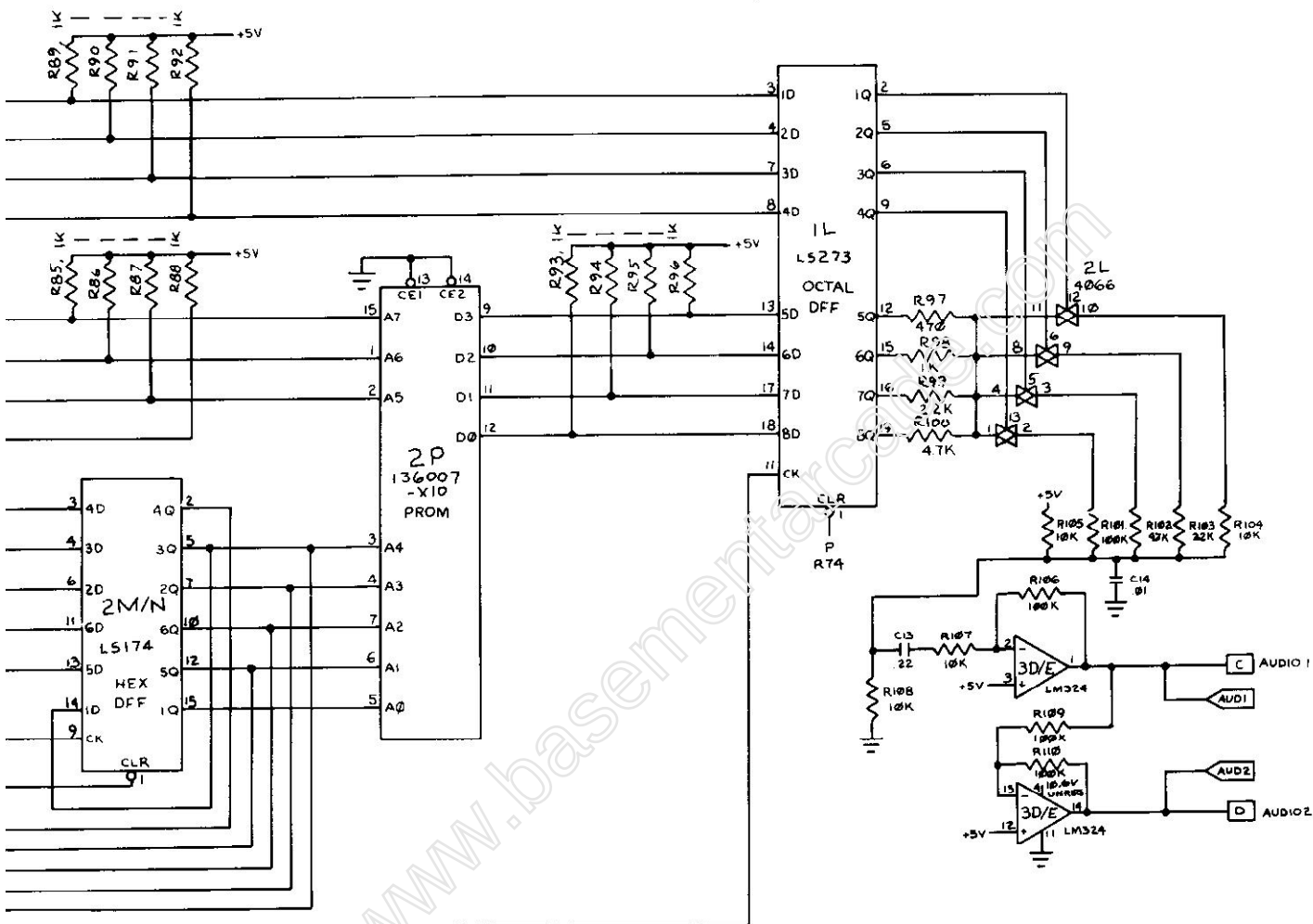
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Audio





I/O 2H*



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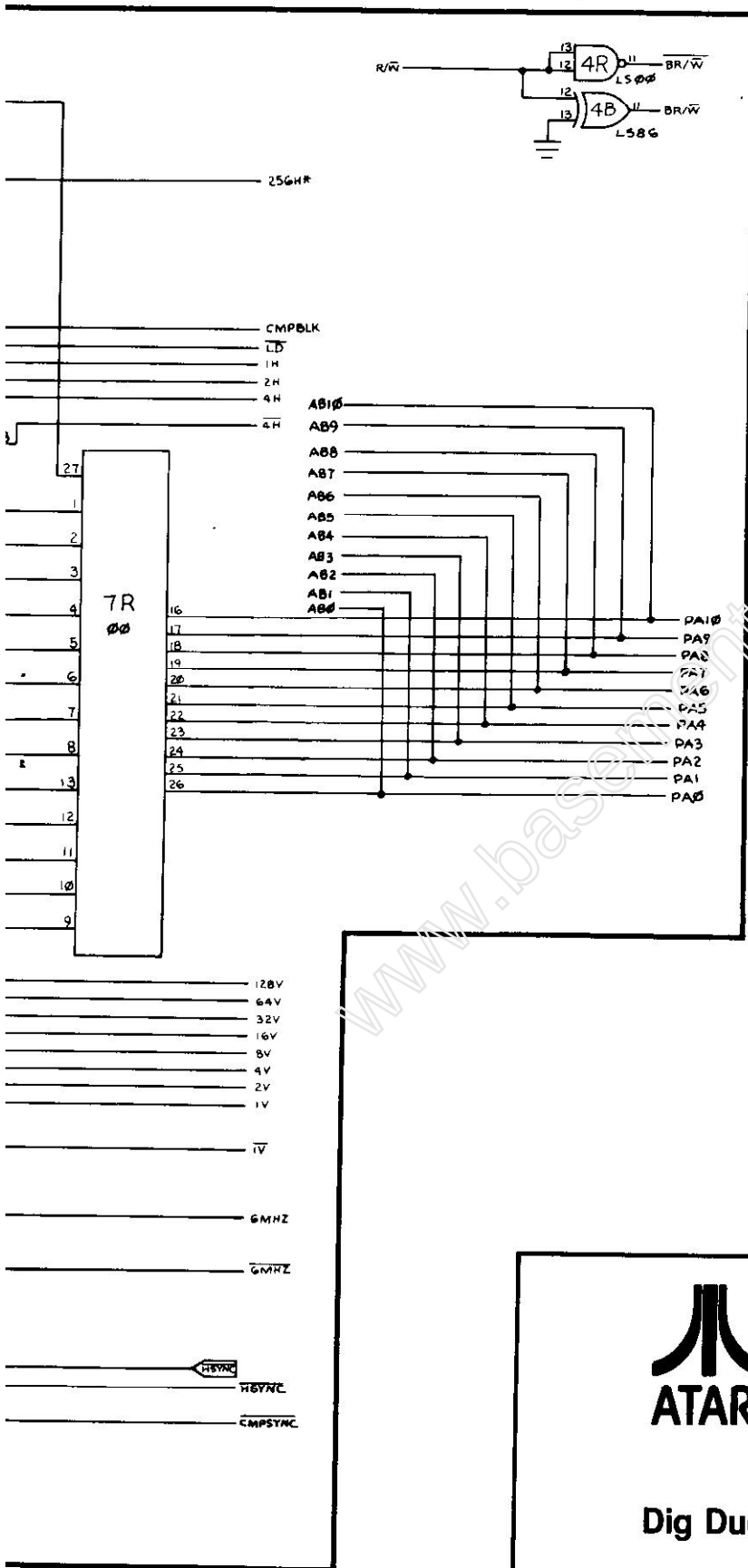
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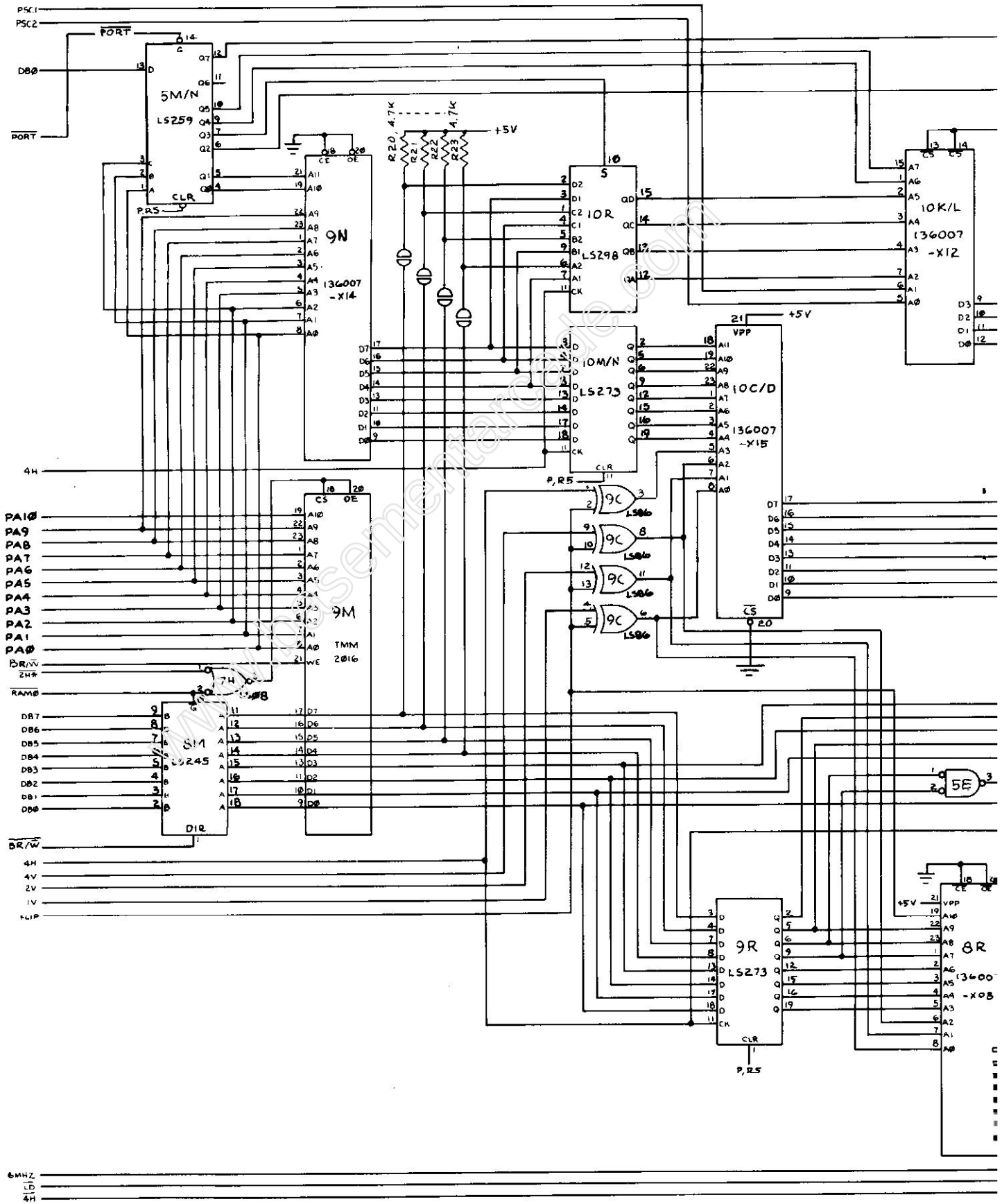
Dig Dug Video PCB Schematic Diagram

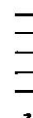
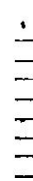
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Playfield Generator





12

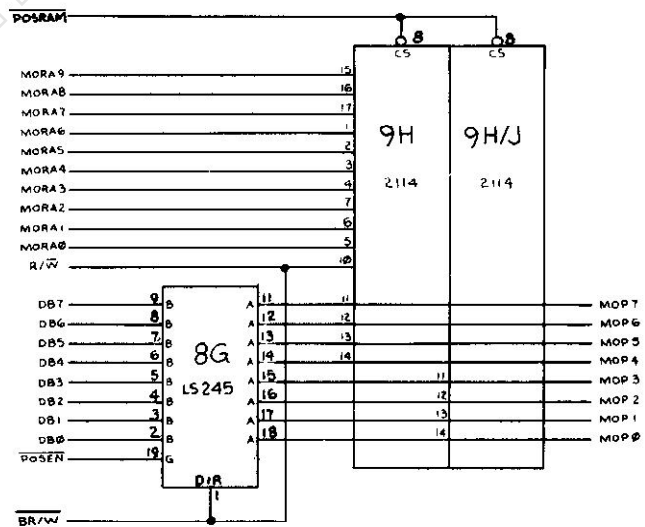
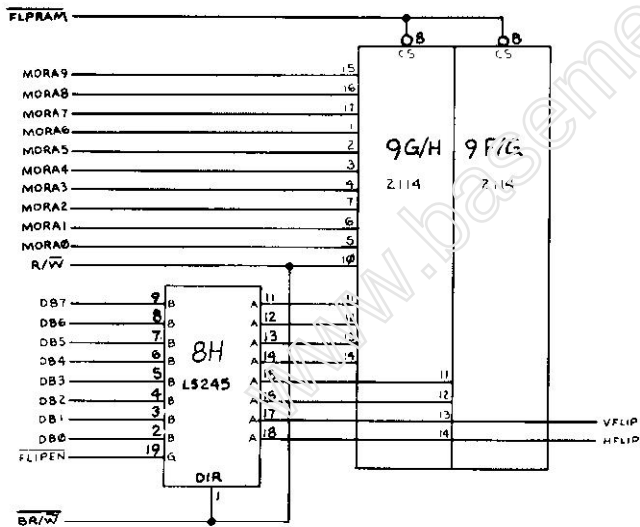
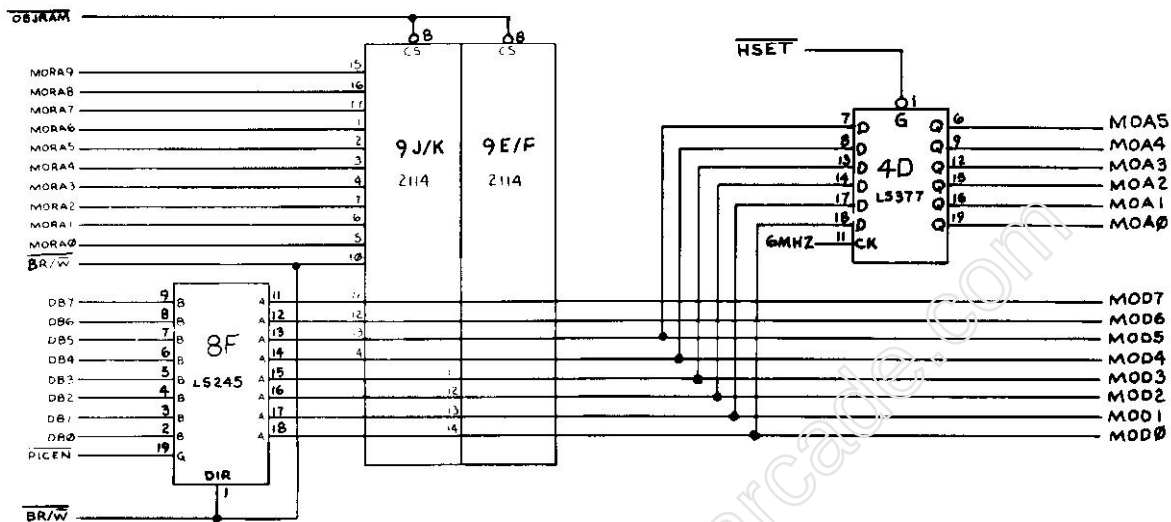
2
10
18

1
1
1
1
1
1
1

11

1

Motion Object RAM



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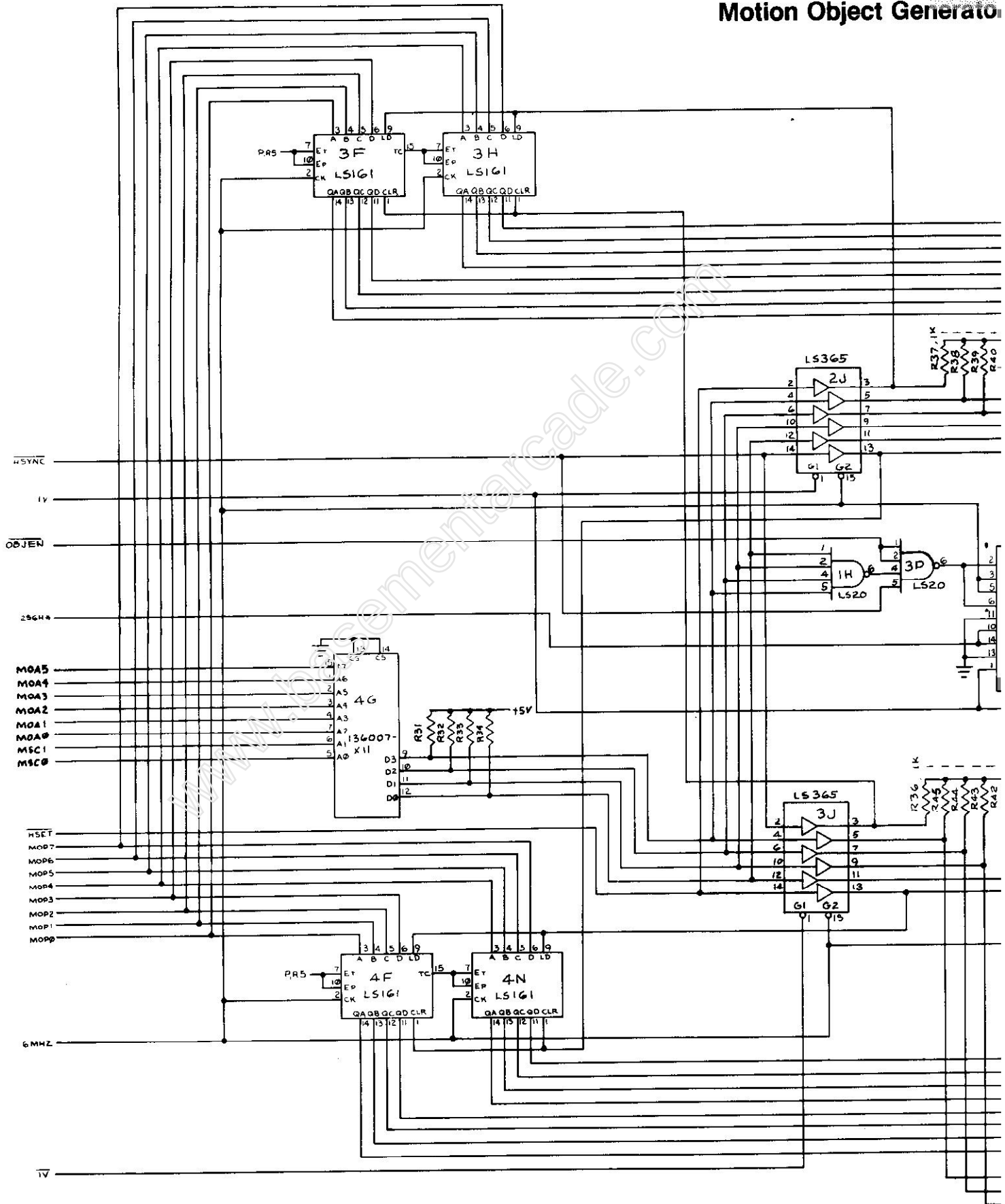
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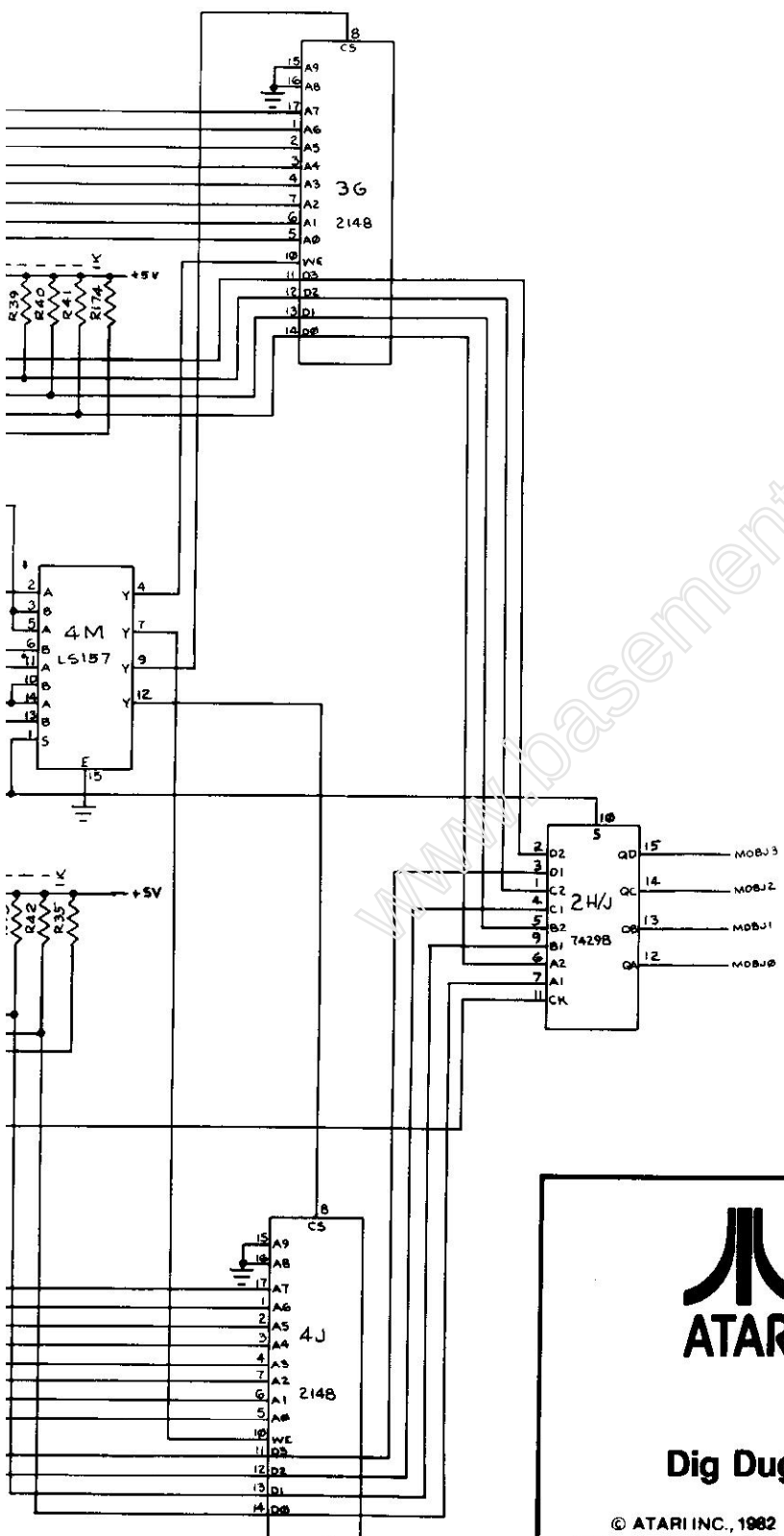
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Motion Object Generator



MOP0 through MOP7 - Motion Object
V and H Position Data.
MOBJA0 through MOBJA7 - Motion
Object Picture Address.



MOBJ0 through MOBJ3 -
Motion Object Output.



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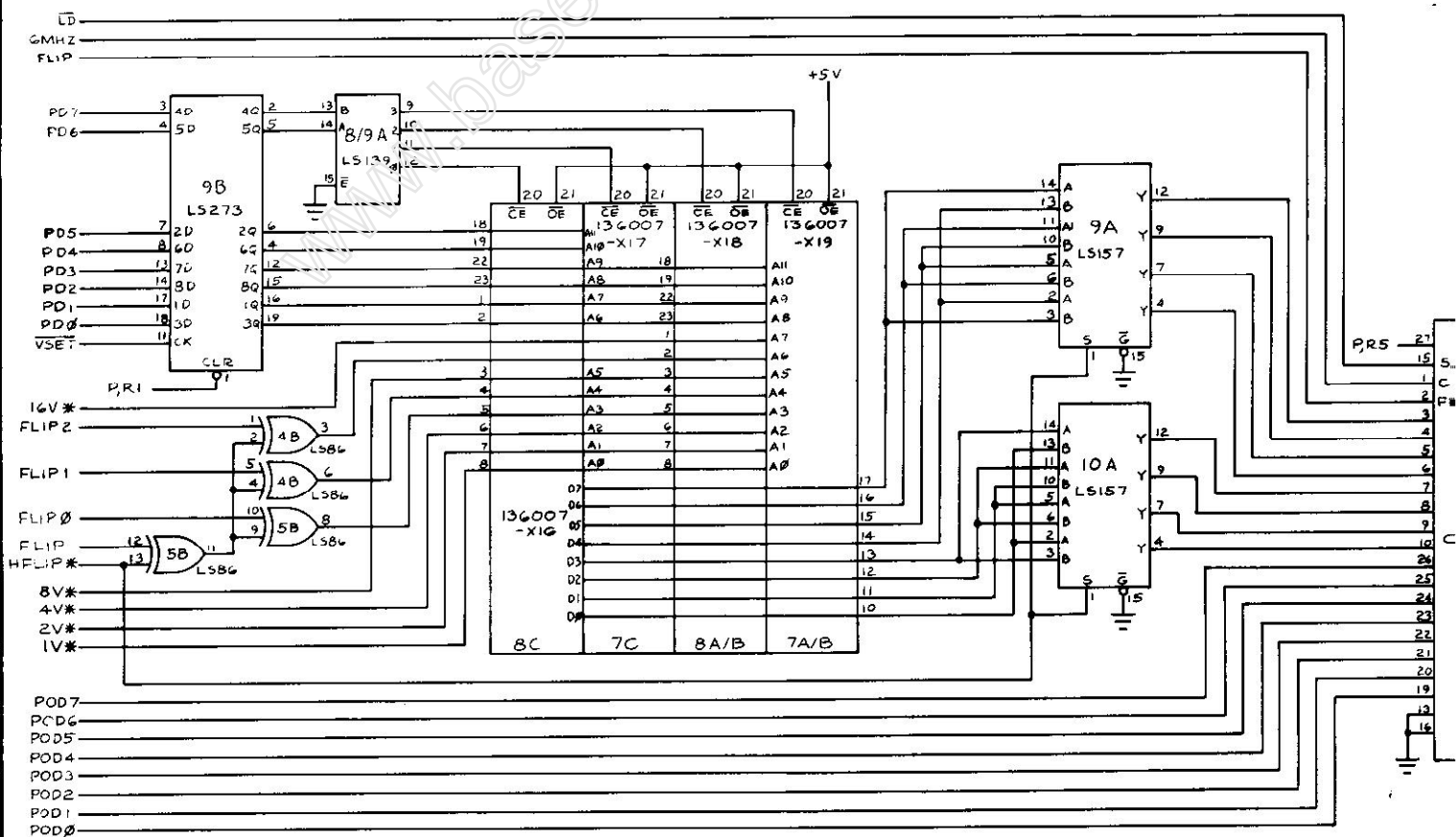
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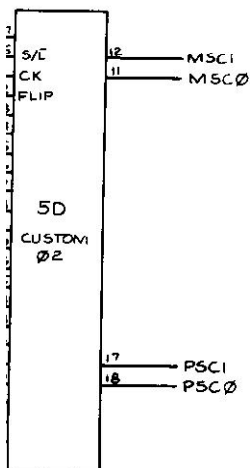
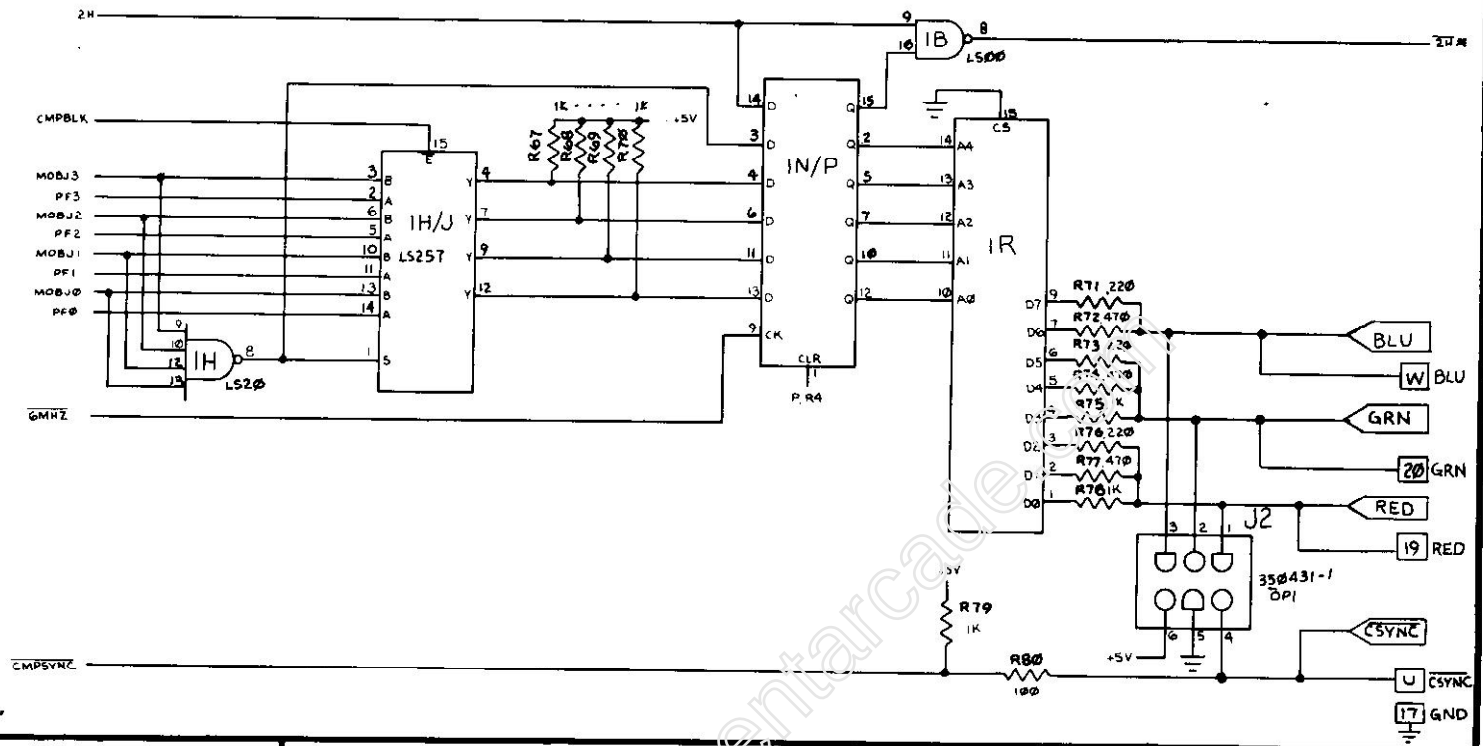
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Video Color Controller



Video Output



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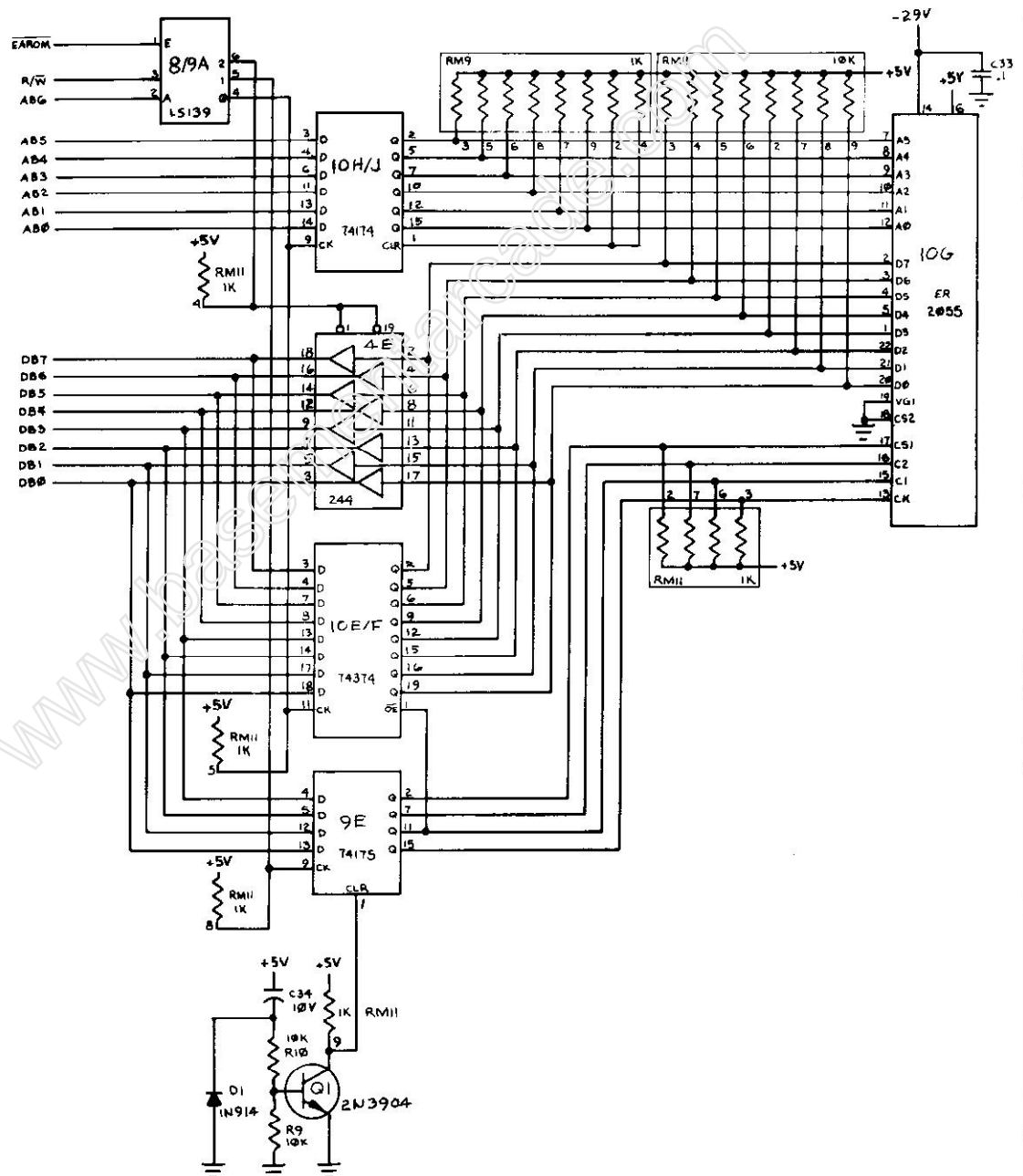
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High-Score Table



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Dig Dug Video PCB Schematic Diagram

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Color Display Schema

Schematic Notes

Unless otherwise specified

Resistance: (Ω) (K $\rightarrow$ K Ω , M $\rightarrow$ M Ω), 1/4 (W) carbon resistor

Capacitance: 1 or higher $\rightarrow$ (pF), less than 1 $\rightarrow$ (μ F)

working voltage $\rightarrow$ 50 (V)

ceramic capacitor

Inductance: (μ H)

Electrolytic Cap: Capacitance Value (μ F)/working voltage (V),
NP $\rightarrow$ non-polar (or bipolar) electrolytic cap.

Refer to the parts list for additional component information.

ϕ indicates test point connection

--- indicates chassis ground unless otherwise specified

Hz indicates cycles per second

For **safety** purposes (and continuing reliability)

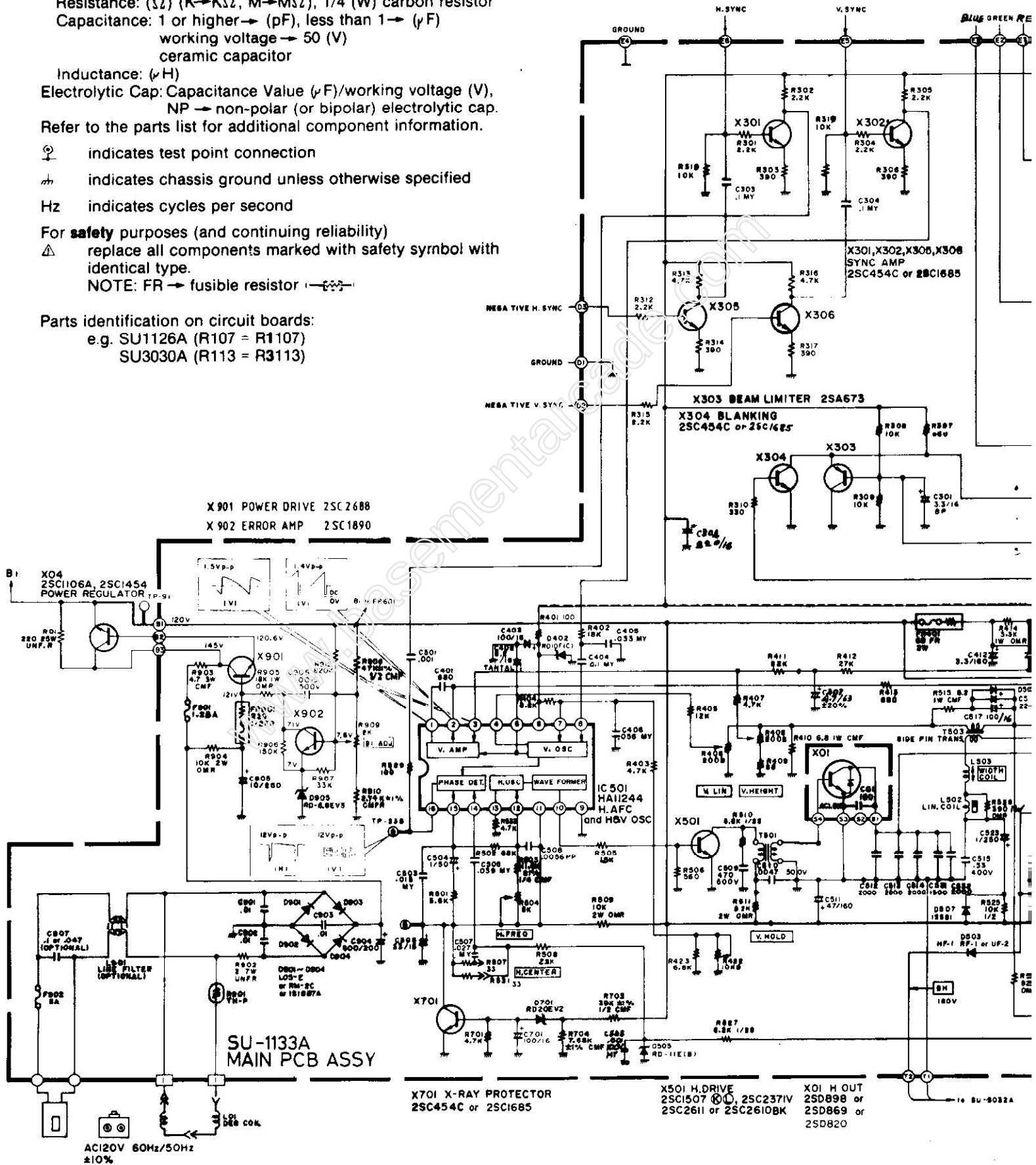
$\triangle$ replace all components marked with safety symbol with identical type.

NOTE: FR $\rightarrow$ fusible resistor

Parts identification on circuit boards:

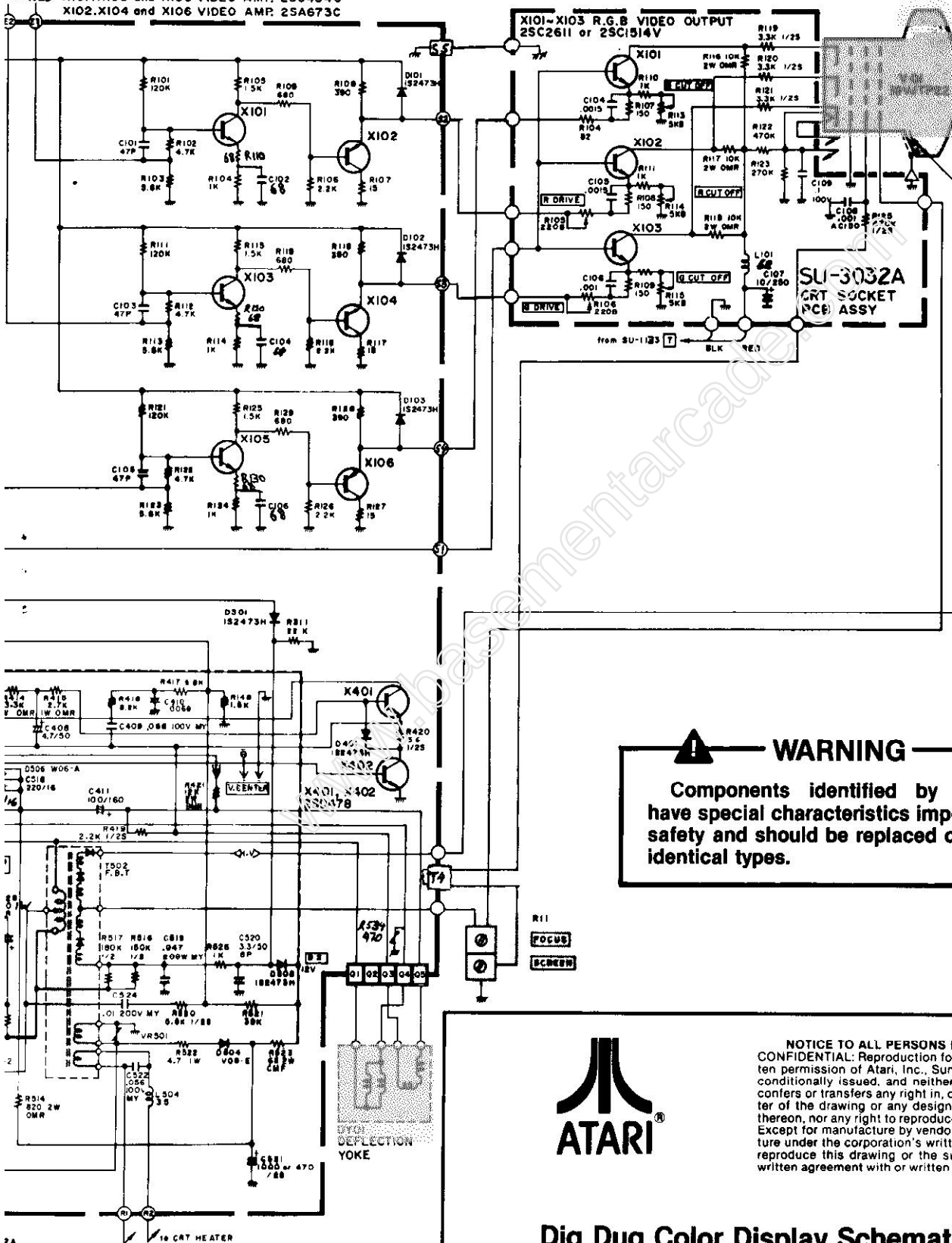
e.g. SU1126A (R107 = R1107)

SU3030A (R113 = R3113)



matic Diagram

TEEN RED X101, X103 and X105 VIDEO AMP. 25C454C
X102, X104 and X106 VIDEO AMP. 25A673C



WARNING
Components identified by shading
have special characteristics important to
safety and should be replaced only with
identical types.



Dig Dug Color Display Schematic Diagram

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