INTRODUCTION

ZAXXON is a microprocessor based coin-operated electronic game, that makes extensive use of digital integrated circuitry and television monitor concepts. This manual is designed for the use of maintenance technicians who possess a general working knowledge of solid-state circuitry, and video monitor theory. Any individual NOT knowledgeable in these areas SHOULD NOT attempt repair of the electronic portions of the game.

In addition to this manual and training in electronics, troubleshooting and repair will be facilitated by access to general electronic-type handtools, a multimeter, a 50 or 100 MHz oscilloscope and a logic probe would be helpful.

Technical assistance is available by calling (800) 854-1938. Questions or comments concerning ZAXXON or any of our games are welcome and should be directed to:

Technical Editor
SEGA/Gremlin
16250 Technology Drive
San Diego, California 92127
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IMPORTANT NOTES

The following note is included in compliance with FCC rules:
WARNING: This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. As temporarily permitted by regulation, it has not been tested for compliance with the limits for Class A computing devices pursuant to Subpart J of Part 15 FCC Rules, which are designed to provide reasonable protection against interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

OTHER NOTES

NEVER replace any components with anything other than exact replacement parts.

NEVER remove circuit board connections while power is on.

DO NOT replace the fuse with anything other than the proper value. A blown fuse indicates an overload condition within the game. Replacing the fuse with a higher value can cause severe damage to internal components if an overload occurs.

ALWAYS consult the manual before attempting repairs.
GAME CONCEPT

ZAXXON is a unique isometric perspective, in which you find yourself piloting an "attack-shuttle" spacecraft, strafing the enemy's "asteroid city" in an attempt to destroy fuel tanks, gun implacements, missiles, fighters and the dreaded enemy robot. With the aid of an altimeter that constantly monitors your height, you control your ship with an aircraft-style joystick, barnstorming your way through wall openings, under electronic barriers, dodging rockets, and in a later round, dueling with the insidious enemy robot. A successful attack-run across ZAXXON leads us to a deep-space dogfight with enemy planes. As you climb, turn and dive, a "cross-hair" appears on the screen to indicate exact positioning for a laser hit on incoming craft. Notice the buffeting as you fly near "proximity explosions." In addition to your altitude, a running count is displayed of your score, number of ships remaining to you, number of enemy ships remaining to be destroyed, and fuel remaining. Fuel bonuses, as well as points, are awarded for destroying fuel tanks, but your ship crashes if you run out of fuel between rounds.

After a specified number of enemy ships are destroyed, the robot appears, launching seeker-missiles. Destruction of the robot requires six direct hits on the robot's missile launcher, after which the round changes with greater difficulty. Number of player ships and bonus point levels are operator selectable. Game play ends with the loss of your last ship.

Unique and beautiful graphics combined with the challenging new perspective and fast paced game play result in what appears to be another popular and profitable investment from SEGA/Gremlin.
## Scoring

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Radar Tower</td>
<td>1000</td>
</tr>
<tr>
<td>Fuel Tanks</td>
<td>300</td>
</tr>
<tr>
<td>Gun Implacements</td>
<td>200 or 500 (random)</td>
</tr>
<tr>
<td>Base Missiles</td>
<td>150</td>
</tr>
<tr>
<td>Enemy Planes</td>
<td>100</td>
</tr>
<tr>
<td>(Increases by 50 each round)</td>
<td></td>
</tr>
<tr>
<td>Satellite</td>
<td>300</td>
</tr>
<tr>
<td>Robot Missile</td>
<td>200</td>
</tr>
<tr>
<td>Robot</td>
<td>1000</td>
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**OPTIONS SELECTION**

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<thead>
<tr>
<th>Game Options</th>
<th>Switch 1</th>
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<tr>
<td>Extra Ship @ 10,000</td>
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<td>20,000</td>
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<td>30,000</td>
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<td>40,000</td>
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<td>Free Ships</td>
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<td>5 Ships</td>
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<td>3 Ships</td>
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<td>Sound Off</td>
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<td>Upright</td>
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<tr>
<td>Cocktail Table</td>
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<table>
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<th>Coin Options</th>
<th>Coin Mech B</th>
<th>Coin Mech A</th>
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<tr>
<td>Coin/Credit</td>
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<tr>
<td>4 coins/1 credit</td>
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</tr>
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<td>3 coins/1 credit</td>
<td>ON, ON, ON, OFF, ON, ON, ON, OFF</td>
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</tr>
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<td>2 coins/1 credit</td>
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<td>1 coin/2 credits</td>
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<tr>
<td>1 coin/3 credits</td>
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<td></td>
</tr>
<tr>
<td>1 coin/4 credits</td>
<td>ON, OFF, OFF, ON, ON, OFF, ON, ON</td>
<td></td>
</tr>
<tr>
<td>1 coin/5 credits</td>
<td>ON, OFF, OFF, OFF, ON, OFF, OFF, OFF</td>
<td></td>
</tr>
<tr>
<td>Coin Options</td>
<td>Coin Mech B</td>
<td>Coin Mech A</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Coin/Credit</td>
<td>1 2 3 4 5 6 7 8</td>
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</tr>
<tr>
<td>1 coin/6 credits</td>
<td>OFF ON ON ON OFF ON ON ON</td>
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<tr>
<td>2 coins/1 credit</td>
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<td>4 coins/2 credits</td>
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<tr>
<td>5 coins/3 credits</td>
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<tr>
<td>6 coins/4 credits</td>
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<tr>
<td>2 coins/1 credit</td>
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<tr>
<td>4 coins/3 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 coin/1 credit</td>
<td>OFF ON OFF OFF OFF ON OFF OFF</td>
<td></td>
</tr>
<tr>
<td>2 coins/2 credits</td>
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<tr>
<td>3 coins/3 credits</td>
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<td>4 coins/4 credits</td>
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<tr>
<td>5 coins/6 credits</td>
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<td></td>
</tr>
<tr>
<td>1 coin/1 credit</td>
<td>OFF OFF ON ON OFF OFF ON ON ON</td>
<td></td>
</tr>
<tr>
<td>2 coins/2 credits</td>
<td></td>
<td></td>
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<tr>
<td>3 coins/3 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 coins/5 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 coin/1 credit</td>
<td>OFF OFF ON OFF OFF OFF ON OFF</td>
<td></td>
</tr>
<tr>
<td>2 coins/3 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 coin/2 credits</td>
<td>OFF OFF OFF ON OFF OFF OFF ON ON</td>
<td></td>
</tr>
<tr>
<td>2 coins/4 credits</td>
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<td>3 coins/6 credits</td>
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<td>4 coins/8 credits</td>
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<tr>
<td>5 coins/11 credits</td>
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<td></td>
</tr>
<tr>
<td>Coin Options</td>
<td>Coin Mech B</td>
<td>Coin Mech A</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Coin/Credit</td>
<td>1 2 3 4</td>
<td>5 6 7 8</td>
</tr>
<tr>
<td>1 coin/2 credits</td>
<td>OFF OFF OFF</td>
<td>OFF OFF OFF</td>
</tr>
<tr>
<td>2 coins/4 credits</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>3 coins/6 credits</td>
<td></td>
<td>OFF</td>
</tr>
<tr>
<td>4 coins/9 credits</td>
<td></td>
<td>OFF</td>
</tr>
</tbody>
</table>
ZAXXON™ Joystick

Maintenance Specifications

1. The 834-0236 Assy is an eight-way joystick handle, trigger and LED Fire indicator.

2. "Eight-way" is a reference to the fact that any two (of four total) adjacent microswitches may be closed simultaneously (i.e., Up/Right, Down/Left), for eight possible combinations.

3. Electrical verification of both Up/Down/Right/Left, and Fire input information is available in the Self-Test sequence, Step 6.

4. At 6 month intervals, lubrication of those spots indicated by an arrow, is recommended. Most silicon-based lubricants are suitable, although caution should be exercised not to over-use any lubricant.

5. During disassembly, please note those fasteners that are "locked" with silicon-rubber adhesive. Vibration and hard use of these joysticks makes conscientious reuse of an adhesive worthwhile.

6. Should it become necessary to replace the LED, wire routing, use of shrink-tube, and staggering of connector pins MUST be faithfully reproduced, both to ease mechanical fitting, and to avoid failures resulting from chafe.
7. All joystick assemblies, manufactured after 4/26/82, contain new tamper-proof screws, which require special wrenches to remove. Refer to the parts list for screw locations. Wrenches are available either from Gremlin or from Qualtoll, Inc., 1020 Burnell Road, Mastland, FL 32751, (305) 834-5800. Listed below are the Gremlin part numbers for the screws and associated wrenches and also the Qualtoll part numbers for the wrenches:

<table>
<thead>
<tr>
<th>Gremlin Part Number</th>
<th>Gremlin Part Number</th>
<th>Qualtoll Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw 111-1050</td>
<td>Wrench 540-0006</td>
<td>Wrench 69-T-20</td>
</tr>
<tr>
<td>Screw 111-1051</td>
<td>Wrench 540-0007</td>
<td>Wrench 69-T-25</td>
</tr>
</tbody>
</table>
ZAXXON
FUNCTIONAL BLOCK DIAGRAM

ASSY IC BRD A
Z80A
ROM 1-3
ROM 14,15
RAM U37,38
U70,71

ASSY IC BRD B
ROM 4-13
RAM U17
U36
U42
U46

PLAYER CONTROL PANEL

LIGHT PANEL
AC IN

OPERATOR PANEL
RESET
SERVICE SW
ZAXXON™ CIRCUIT DESCRIPTION

ZAXXON is a microprocessor based, digital-integrated circuit computer video game. The heart of the computer is the CPU (U24), a Z80A located on the 834-0214 Assy IC Board A. The Alpha type chip MUST ALWAYS be used, as the Z80 is not fast enough to run the programs.

Master timing is crystal-driven at 48.66 MHz, (X1, Zone 6-D, Sht. 7, Assy. IC Bd. B, 834-0211) through Q1, Q2, T1, U19, U38, U41, and frequency dividers U1, U2, and U21. CPU timing (1H) is taken from U1 p-14, through U45, U9, applied to Bus Driver U94 p-6 (Zone 8-D, Sht. 8, Assy. IC Bd. B, 834-0211), through P3 p-9 to the "A" Board (Zone 1-A, Sht. 14, Assy. IC Bd. A, 834-0214) is referenced by U25 and Q14 (Zone 8-D, Sht. 14, Assy. IC Bd. A, 834-0214) and finally applied to pin-6 of the CPU (U24). Back at U45 (Zone 4-A, Sht. 7, Assy. IC Bd. B, 834-0211) the H pulse is used to clock the Octal Flip-Flops U16 and U25 (Sht. 6, 834-0211).

Manual system reset comes from the operator panel through P5 p-L, appears as a LO at U53 p-1 (Zone 4-D, Sht. 13, Assy. IC Bd. A, 834-0214) and is then felt at pin-26 of the CPU (Zone 8-C, Sht. 14, 834-0214). Normal program interrupts (INT) are felt at pin-16 of the Z80A (an edge-triggered LO), and are the result of Input/Output activity times with vertical blanking (an approx. 2 msec. instruction interrupt). The WAIT signal is used to synchronize that I/O activity during an interrupt to the CPU. U33 (Zone 6-D, Sht. 14, Assy. IC Bd. A) is an address bus controller. Three of the sixteen address lines pass through U33 and subsequently drive the Chip Enable inputs of ROMs 1, 2, and 3 (U27, U28, and U29), and RAMs U37 and U38. U81, U82, U86, U87, and U88 (Sht. 13, Assy. IC Bd. A, 834-0214) are input ports on the data.
bus. Connector P5 supplies player input information, CPU reset, service switch, game start and coinage to the input ports. U101, U66, U84, and U51 input COIN B, and U101, U65, U84, and U89 input COIN A, together with Player 1 and 2 start, to data bus buffer U88. U82 accesses/buffers Player 1 and 2 Left/Right data, U81 buffers Player 1 and 2 Up/Down data, U86 buffers Player 1 and 2 fire data, and U87 serves for Option Selection data. SW3 is the self-test switch. When closed, it applies a LO to pin-17 (NMI) of the Z80A, initiating a systems/function verification as follows:

ZAXXON Self-Test

1. ROM Test
   Both results are displayed simultaneously.

2. Work RAM Test
   ROM TEST
   ROM 1 OK or NG
   ROM 2 OK or NG
   ROM 3 OK or NG
   RAM TEST
   RAM 1 OK or NG
   RAM 2 OK or NG

- The ROM Test sum-check is made for the 3K bytes which contain a part of this test program, out of 4K bytes in ROM 1 (2532), and for ROM 2 and 3 (2564). The sum-check adds each byte of each ROM, retains only the last 16 bits (hexadecimal 4 digits), and compares this value with the value stored in ROM 1.

- The Work RAM Test is made for two Work RAMs (2K bytes each). Each RAM is loaded with the hexadecimal "55", reads 1 byte at
a time, and checks if it is a hexadecimal "55", repeating this process with the hexadecimal "A". This test is made to check interference between adjacent bits.

* - Press the PLAYER 1 START BUTTON to advance the test step.

3. Scroll Screen Test

* 1) no display
* 2) enemy base entrance wall in the 2nd pattern (7 bricks high)
* 3) between the 1st wall and 2nd wall (3 bricks high)
* 4) between the 2nd wall and 3rd wall (5 bricks high)
* 5) between the 3rd wall and 4th wall (1 brick high)
* 6) between the 4th wall and 5th wall (3 bricks high)
* 7) behind the 5th wall
* 8) hexagonal pattern floor
* 9) space background: 1 large star
* 10) space background: 2 large stars
* 11) enemy base entrance wall in the 1st pattern (7 bricks high)
* 12) behind the 1st wall: tanks and pipe lines
* 13) wall in half-way (1 brick high): 5 pipe lines are seen
* 14) pipe lines are seen with tanks overhead
* 15) runway entrance
* 16) middle of runway
* 17) end of runway
* 18) exit wall in the 1st pattern
* 19) space with no star: end of base can be seen at the left

4. Target Pattern Test

1) Player ship - 12
   Bullet - 4
* Enemy Ship - 8
2) Ship-1, Rocket-2, Missile-2
   Target-1, Explosion-2, Barrier-1
   Wall-2, Artillery-1, Tank-1
   Radar-1, Enemy Ship-1, Bullet-1
   * Wreck-1, Explosion-6
3) Explosion-4, Satellite-1, Building-8
   * Score-3 (200, 500, 1000)

5. Video RAM and Object (Target) RAM Test
   VRAM TEST
   VRAM OK or NG
   ORAM TEST
   * ORAM OK or NG
   - This test is made for the VRAM character pattern display, and
     the ORAM target pattern display. The check method is the same
     as described in step 2.

6. Input Switch Test
   - Press each of the specified switches in the order displayed. OK
     is displayed if the switch is operating normally.
   INPUT TEST
   MAIN (Player 1 input ports)
   RG
   LF
   UP
   DN
   FR
   SUB (Player 2 input ports)
   RG
   LF
7. Software Output Port Test
   - Tests if signals are sent from the software to the hardware.

   OUTPUT TEST
   CAEN
   CBEN
   SVEN

* CNTA
* CNTB
* REVERSE (180° flip is displayed)
* RETURN (displays FLIP IS OK)

   - Enables are automatically checked at the falling edge of the
     input signal.

8. DIP Switch Test
   - Tests the connection between the DIP switches and the software.

   Test the two DIP switches both with every other bit on, then test
   by reversing ON and OFF. Thus interference between adjacent bits
   can be checked at the same time.

   TEST 1
   * TEST 2
9. Character Pattern Test
   - Displays the character patterns and picture patterns in the same ROM.
   - Letters, numbers, and patterns like A to Z, 0 to 9, and are displayed.
   - * Changes color.

10. Color Reference Test
    - For character patterns and background pictures, check that the color reference changes each time the Player 1 Start button is pressed.

    *

11. Sound Port Test
    - Verify that sound is emitted each time the * button is pressed.
    - Bit 1, 2, 3, 9, 10, 11, 12, 15, 18, 21, 22, 23, and 24 do not emit sound.
    - 1) flying sounds [tone changes in 1)-5]).
    - 2) flying sounds
    - 3) flying sounds
    - 4) flying sounds
    - 5) flying sounds
    - 6) no sound [reset]
    - 7) homing missile
    - 8) missile firing
    - 9) barrier
    - 10) robot
    - 11) explosion [small]
    - 12) explosion [large]
Due to the striking isometric perspective used in ZAXXON, memory requirements for background generation are significant. On Assy IC Board B (834-0211), EPROM's 4-15 contain a total of 672K bits of video character, positioning, color, and timing information. Background generation accessible memory is provided by TTL Isoplaner RAMs U42, U64 (Zone 6-B, Sht. 8, Assy. 1C Bd. B), and U46 (Zone 2-D, Sht. 6, Assy. 1C Bd. B), in addition to the 1024 x 4 bit RAMs U17 and U36. Composite synchronization is taken from pin-4 of U11 (Zone 2-C, Sht. 7, Bd. B) applied to pin-5 of U93 (Zone 7-A, Sht. 13, Assy. 1C Bd. A), selectably polarized by switch SW4 and put on pin-20 of P5, for input to the monitor, in addition to W, 19, and X. 180° video FLIP for cocktail models is latched into the data bus by SW1 position 8 through U87 (Zone 3-B, Sht. 13, Assy. 1C Bd. A).

Just as the microprocessor Z80A is the heart of the game computer, so too is the 8255AC-5 (U23, Zone 8-C, Sht. 12, Assy. 1C Bd. A) the center of activity in the Sound area. Called a Sound Generator, U23 interfaces data and address bus, enabling specific sound processing circuits. These circuits consist of individual sounds for Player Ship Flying Sounds, Homing Missile, Base Missile, Barrier, Robot, Small-explosion, Large-explosion, Laser, Enemy Shot, Target, and Fuel. Those complete sounds not originating within the 8255A, are enabled by the Sound Generator Chip through a device called a Quad Switch/Driver (4016B) U17. U11 and VR1 (Volume Control, found on the Assy. A
Board) set input biasing for Audio Amplifier U1, at an 8 ohm load. Speaker connections are made at P4 pins-3 and 4.

PLEASE NOTE - The following logic charts are for use as a general reference only, and are not intended to be all inclusive. Remember, good troubleshooting technique begins with a thorough VISUAL examination, keeping power supply and harnessing considerations in mind as well.
PLAYER CONTROL FAILURE

INITIATE SELF-TEST

CHECK P5, PIN OF INDICATED LINE FAILURE.
5VDC WHEN OPEN,
0VDC WHEN CLOSED

YES

REPLACE BUTTON/JOYSTICK

NO

CHECK INPUT PIN OF ASSOCIATED DATA LATCH (U81, 82, 86, 87) FOR 5VDC-O, 0VDC-C

YES

REPLACE DATA LATCH

NO

CHECK PULL-UP NETWORK (i.e. R240, C119) FOR OPENS, OR SHORTED CAP.
SOUND FAILURE

IS VOLUME CONTROL VR1 TURNED UP?

YES

ARE ALL SOUNDS MISSING?

NO

ADJUST VOLUME

NO

VERIFY A SIGNAL INPUT TO U11 p.2

NO

REPLACE U23

YES

ON 834-0210 ASSY VERIFY U23 OUTPUT THAT CORRESPONDS TO MISSING SOUND

NO

REPLACE U23

YES

VERIFY &/OR REPLACE VR1, U1, Q1, Q2, D1

ISOLATE SPECIFIC COMPONENT FAILURE BY VERIFYING OUTPUTS SYSTEMATICALLY DOWN THE CIRCUIT
<table>
<thead>
<tr>
<th>IC No.</th>
<th>Part No.</th>
<th>Location No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>Z80A</td>
<td>315-0041</td>
<td>U24(A)</td>
<td>Microprocessor</td>
</tr>
<tr>
<td>2114</td>
<td>315-0046</td>
<td>U70,U71(A)</td>
<td>RAM 1024 x 4 BIT</td>
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<tr>
<td>2532</td>
<td>316-1475</td>
<td>U29(A)</td>
<td>EPROM-1475 8 x 32 BIT</td>
</tr>
<tr>
<td>2564</td>
<td>316-1456</td>
<td>U93(B)</td>
<td>EPROM-1456 8 x 64 BIT</td>
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<td></td>
<td>316-1457</td>
<td>U92(B)</td>
<td>EPROM-1457</td>
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<td>316-1459</td>
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<td>316-1460</td>
<td>U113(B)</td>
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<td>316-1473</td>
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<td>315-0155</td>
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<td>314-0001</td>
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<td>Timer</td>
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<td>74LS259</td>
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<td>U55, U56(A)</td>
<td>8-BIT Addressable Latch</td>
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<td>4-BIT Binary Full-Adder, look ahead carry</td>
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<td>74LS374</td>
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PLEASE NOTE: (A) or (B) following the Location No. indicates that number can be found on Assy. IC Bd. A, or Assy. IC Bd. B, respectively.
ASSEMBLY PARTS

Assembly J-Box
800-3244

Assembly Fluorescent Lamp
800-0147

Assembly Harness Ground Interface
800-0232

Assembly Monitor
-00, -03) 800-0362
-01, -04) 800-0363
-02) 800-0366

Assembly Fan Cord
800-0322

Assembly Monitor
Power Harness
800-0369

Assembly Harness Video Interface
800-0361

Assembly Power Supply
800-0367

Assembly Operator
Block
800-0368

Assembly Ground Strap
800-0370

Assembly SEG A
Power Supply
834-0070

NOTE: Top Assembly No.'s 700-0087 -00, -01, and -02 utilize Assy. Component Shelf 834-3243 -00, and Top Assembly No.'s 700-0087 -03 and -04 utilize Assy. Component Shelf 834-3243 -01.
PARTS BREAK-DOWN

TOP ASSEMBLY
700-0087

-01 | -02 | -03 | -04

Assembly Coin Counter
800-0280

Assembly Harness Ground Monitor
800-0330

Assembly Harness Master
800-3239

Assembly Component Shelf
800-3243

Assembly Ground Strap Control Panel
800-0290

Assembly Control Panel
800-3241

Assembly Operator Control Block
800-0364

Assembly Game Electronics
834-0213
834-0256

Assembly Joystick With Trigger
834-0236

Assembly Harness Control Panel
800-3240

Assembly IC Board A
834-0214

Assembly IC Board B
834-0211

Assembly IC Board B
834-0257

NOTE: Assembly Game Electronics 834-0213 consists of IC Board A (834-0214) and IC Board B (834-0211). Assembly Game Electronics 834-0256 consists of IC Board A (834-0214) and IC Board B (834-0257).
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## ASSEMBLY OPERATOR CONTROL BLOCK

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</tbody>
</table>
### Part No. | Description                              | Ref. Des. |
------------|------------------------------------------|-----------|
240 Ohm, ±10%, 2W carbon                  | R651      |
6/8k Ohm, ±10%, 1/2W carbon               |           |

**Semiconductors**

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<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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482-0262  | Transistor, 2SC1893                      | TR601     |
481-0214  | Rectifier, (SI)RM-2AV 600V               | X601      |
481-0214  | Rectifier, (SI)RM-2AV 600V               | X602      |
481-0214  | Rectifier, (SI) RM-2AV 600V              | X603      |
481-0214  | Rectifier, (SI) RM-2AV 600V              | X604      |
481-0215  | Diode (HS) SB-2CGL 1200V min             | X605      |
481-0149  | Diode (SI) IS2473-772                    | X606      |
481-0216  | Diode (HS) RC-2V 0.8 US                  | X607      |
481-0217  | Diode (HS) RU-2V                         | X608      |
481-0217  | Diode (HS) RU-2V                         | X609      |
481-0218  | Rectifier, power (SI) 500V PIV           | X610      |
481-0218  | Rectifier, power (SI) 500V PIV           | X611      |
481-0218  | Rectifier, power (SI) 500V PIV           | X612      |

**Transformers & Coils**

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180-0020  | Coil, line filter R-3                    | L601      |
180-0014  | Coil, filter, 10uuh                      | L602      |
560-0094  | Transformer, hor drive                   | T602      |
560-0095  | Transformer, side PC                     | T603      |
180-0015  | Width coil                               | L702      |
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<td>2200 pf, 125V ceramic</td>
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<td>2200 pf, Z5F, ±10% ceramic</td>
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**Miscellaneous**

- Fuse (UL/CSA) 3A-125: F601
- Socket, 6 pin: J607
- Plug, 3 pin (GT): P602
- Plug, 4 pin (NM): P604
- Plug, 6 pin (GT): P607
- Plug, 3 pin (NM): P608
- Plug, 2 pin (NM): P611
- Thermistor: TH601
- Plug, 6 pin: P201
- Plug, 6 pin: P202

**Resistors**

- 820 Ohm, ±5%, 1/8W carbon: R301
- 12k Ohm, ±5%, 1/8W carbon: R302
- 15k Ohm, ±5%, 1/8W carbon: R303
- 10k Ohm, ±5%, 1/8W carbon: R304
- 330k Ohm, ±5%, 1/8W carbon: R305
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<td>470k Ohm, ±5%, 1/8W</td>
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<tr>
<td>56k Ohm, ±5%, 1/8W carbon</td>
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#### Miscellaneous

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#### Transformers & Coils

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#### POWER BOARD

#### Resistors

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<td>Plug, 6 pin</td>
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<td>100 pf, 12kv, ±10% ceramic</td>
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<td>482-0155 Transistor, 2SC1514 (G output)</td>
<td>TR402</td>
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<td>482-0155 Transistor, 2SC1514 (B output)</td>
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<td>22k Ohm, ±10%, 1/4W carbon</td>
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<tr>
<td>330 Ohm, ±10%, 1/2W carbon</td>
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<td>2.2k Ohm, ±5%, 1/4W carbon</td>
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<td>2.2k Ohm, ±5%, 1/4W carbon</td>
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<td>Part No.</td>
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<tr>
<td>150 Ohm, ±5%, 1/4W carbon</td>
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<tr>
<td>100 Ohm, ±5%, 1/4W carbon</td>
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<tr>
<td>680 Ohm, ±5%, 1/2W carbon</td>
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<td>1k Ohm, 5%, 1/2W carbon</td>
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<td>8.2k Ohm, 5%, 1/4W carbon</td>
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<td>390 Ohm, 5%, 1/2W carbon</td>
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<tr>
<td>1.5k Ohm black level control</td>
<td>VR201</td>
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<tr>
<td>10k Ohm horizontal centering</td>
<td>VR202</td>
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**Capacitors**

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<td>470 uf, 16V lytic</td>
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<td>.022 uf, 10% 100V</td>
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<td>680 pf, 10%, Z5F</td>
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<tr>
<td>.01 uf, 10%, 100V</td>
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**Monitor 19" Vertical - Wells Gardner 19K 4675**

**Drawing Number 200-0019**
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<td>22k Ohm, ±10%, 1/4W carbon</td>
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<td>1k Ohm, ±5%, 1/2W carbon</td>
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<td>100 Ohm, ±5%, 1/4W carbon</td>
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<tr>
<td></td>
<td>100k Ohm, ±5%, 1/4W carbon</td>
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</tr>
<tr>
<td></td>
<td>330 Ohm, ±10%, 1/2W carbon</td>
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<td>2.2k Ohm, ±5%, 1/4W carbon</td>
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<td>2.2k Ohm, ±5%, 1/4W carbon</td>
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<td>100k Ohm, ±5%, 1/4W carbon</td>
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<td>1k Ohm, 5%, 1/2W carbon</td>
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<td>200 Ohm, 5%, 1/2W carbon</td>
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<td>Part No.</td>
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<td>680k Ohm, 5%, 1/2W carbon</td>
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<td>8.2k Ohm, 5%, 1/4W carbon</td>
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<td>390 Ohm, 5%, 12W carbon</td>
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<td>1.5k Ohm black level control</td>
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<tr>
<td></td>
<td>10k Ohm horizontal centering</td>
<td>VR202</td>
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</table>

Capacitors

|          | 1000 uf, 16V electrolytic                | C201      |
|          | 470 uf, 16V electrolytic                 | C202      |
|          | .022 uf, 10% 100V                       | C203      |
|          | 680 pf, 10%, Z5F                        | C204      |
|          | .01 uf, 10%, 100V                       | C205      |

Semiconductors

<p>|        | Transistor (NPN) 2N3904                  | TR201     |
|        | Transistor (NPN) 2N3904                  | TR202     |
|        | Transistor (NPN) 2N3904                  | TR203     |
|        | Transistor (PNP) MPS-A70                 | TR204     |
|        | Transistor (PNP) MPS-A70                 | TR205     |
|        | Transistor (PNP) MPS-A70                 | TR206     |
|        | Transistor (NPN) 2N3904                  | TR207     |
|        | Transistor (NPN) 2N3904                  | TR208     |
|        | Transistor (NPN) 2N3904                  | TR209     |
|        | Transistor (NPN) 2N3904                  | TR210     |</p>
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<td>Diode, zener 3.9V, 5%, 0.5W IN5228B</td>
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**Miscellaneous**

- Socket, 6 pin                        | J201      |
- Socket, 6 pin                        | J202      |
- Plug, 4 pin                          | P203      |
- Plug, 3 pin                          | P204      |
- Plug, 6 pin                          | P205      |
<table>
<thead>
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<td>HVR</td>
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- C ceramic DD104-63B 271K 50V | C306
- C ceramic D6705-B 102K 1kV | C309

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- 482-0257 | Transistor 2SC2688 | Q303
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Wiring Diagrams

Control Panel
800-3241

Junction Box
800-3244