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Introduction

CONGO BONGO™ is a micro-processor based coin-operated electronic game, that makes extensive use of digital integrated circuitry and television monitor concepts. This manual is intended 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 to 100 MHz oscilloscope and a logic probe would be helpful.

Technical assistance is available toll-free by calling:
1-800-854-1938 outside California
1-800-722-8576 inside California

Parts information assistance is available toll-free by calling:
1-800-854-1900 outside California
1-800-722-8575 inside California

Questions or comments concerning CONGO BONGO™ or any of our games are welcome and should be directed to:

Customer Service Manager
SEGA Electronics, Inc.
16250 Technology Drive
San Diego, California 92127-1985
Important Notes

The following note is included in compliance with FCC rules:
WARNING: This equipment generates and uses radio frequency energy and if not installed and used properly, i.e., in strict accordance with the instruction manual, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause 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 fuses with anything other than the proper value. A blown fuse indicates an overload condition within the game. Replacing fuses with a higher value can cause severe damage to internal components if an overload occurs.
ALWAYS consult the manual before attempting repairs.
SPARE PARTS will be maintained at SEGA Electronics, Inc. for a period of five (5) years after the date of manufacture of the game concerned.
Game Concept

Jungle drums pound as CONGO BONGO™, the cartoon adventure that pits man against monkey, takes you on the craziest, most action-packed safari ever! With fantastic 3-dimensional-like graphics and wonderful native sounds, SEGA's CONGO BONGO lures explorers of all ages to chase Bongo, the mischievous gorilla, through four vivid scenes of jungle fun. By use of an 8-way joystick and a jump button, the player maneuvers his hunter through the various scenes and avoids obstacles and dangers in his path.

In the first scene, Bongo roars defiantly from the top of Steep Peak as the hunter approaches. The hunter must climb the treacherous cliffside to reach the bridge above, while avoiding the bouncing coconuts Bongo throws down. Once across the bridge, the hunter must slide down a slope and knock the green monkey off the ledge. Green monkeys will block the hunter's path and if not pushed over a cliff or jumped over, the hunter cannot pass.

Next the hunter must jump over a perilous, collapsing chasm and climb the cliff to Primate Plateau. Here several friendly-looking monkeys scamper about playfully. Be careful though, as the cheerful chimps will cling to the hunter, slowing him down. By using the jump button, the player can shake the chimps off the hunter, but it must be done quickly, because if three chimps grab the hunter, they will pick the hunter up and throw him over the side and into the river. Once past the monkeys, the hunter must jump the river again and climb up to the top where a chagrined Bongo loses his smile and runs off into the jungle.

In the second scene, Bongo taunts the hunter from across Snake Lake. Immediately scorpions descend upon the hunter and he must decide which route to take quickly. Snake Lake is a maze of bridges and islands with snakes guarding every route. The hunter must avoid the snakes by jumping over them. The hunter should attempt to reach the island nearest Bongo and jump onto the back of the hippo and then safely to shore. Beware of the hippo as he dives and surfaces. Once safely to shore, Bongo gets worried and scampers off again.

The third scene opens with the hunter in a mole hole on Rhino Ridge. A herd of charging rhinos must be avoided in the hunter's attempt to capture Bongo. The hunter can avoid the rhinos by jumping over them or ducking into a mole hole. When ducking into a mole hole, the player must depress the jump button for the hunter to duck down and avoid the rhinos.
In the fourth scene, a weary Bongo naps in a chair on the far side of Lazy Lagoon. To reach Bongo, the hunter must cross Lazy Lagoon by jumping on lily pads, hippos and fish, that might sink at minute. Once across Lazy Lagoon, the hunter must dodge the last charging rhinos and climb the last bluff to capture Bongo. After Bongo is captured, the scenes repeat with increasing difficulty.

CONGO BONGO is a one or two player game with players alternating at the loss of each hunter. Each scene is timed by the bonus counter in the upper left corner of the screen. As time passes, the bonus decreases. If the bonus counter reaches zero, the player loses that hunter, the bonus counter is reset and play continues if he has other hunters available. Game ends with the loss of the last hunter.

**Scoring**

<table>
<thead>
<tr>
<th>Description</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each step taken</td>
<td>10</td>
</tr>
<tr>
<td>Jumping onto hippo, fish or lily pad</td>
<td>100</td>
</tr>
<tr>
<td>(increases by 50 each round)</td>
<td></td>
</tr>
<tr>
<td>Jumping into a mole hole</td>
<td>1000</td>
</tr>
<tr>
<td>Jumping across a chasm</td>
<td>500</td>
</tr>
</tbody>
</table>

At the successful completion of each round, the player is awarded the number of points remaining in the bonus box.
### Option Selection

<table>
<thead>
<tr>
<th>OPTION</th>
<th>SWITCH #1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1    2    3    4    5    6    7    8</td>
</tr>
<tr>
<td>UPRIGHT</td>
<td>X    X    X    X    X    X    X    OFF</td>
</tr>
<tr>
<td>TABLE</td>
<td>X    X    X    X    X    X    X    ON</td>
</tr>
<tr>
<td>SOUND ON</td>
<td>X    X    X    X    X    X    ON    X</td>
</tr>
<tr>
<td>SOUND OFF</td>
<td>X    X    X    X    X    X    OFF    X</td>
</tr>
<tr>
<td>FREE PLAY</td>
<td>X    X    X    X    OFF    OFF    X    X</td>
</tr>
<tr>
<td>5 EXTRA HUNTERS</td>
<td>X    X    X    X    OFF    ON    X    X</td>
</tr>
<tr>
<td>4 EXTRA HUNTERS</td>
<td>X    X    X    X    ON    OFF    X    X</td>
</tr>
<tr>
<td>3 EXTRA HUNTERS</td>
<td>X    X    X    X    ON    ON    X    X</td>
</tr>
<tr>
<td>DIFFICULTY: EASY</td>
<td>X    X    ON    ON    X    X    X    X</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>X    X    ON    OFF    X    X    X    X</td>
</tr>
<tr>
<td>HARD</td>
<td>X    X    OFF    ON    X    X    X    X</td>
</tr>
<tr>
<td>HARDEST</td>
<td>X    X    OFF    OFF    X    X    X    X</td>
</tr>
<tr>
<td>BONUS AT: 10,000</td>
<td>ON    ON    X    X    X    X    X    X</td>
</tr>
<tr>
<td>20,000</td>
<td>ON    OFF    X    X    X    X    X    X</td>
</tr>
<tr>
<td>30,000</td>
<td>OFF    ON    X    X    X    X    X    X</td>
</tr>
<tr>
<td>40,000</td>
<td>OFF    OFF    X    X    X    X    X    X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OPTION</th>
<th>SWITCH #2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1    2    3    4    5    6    7    8</td>
</tr>
<tr>
<td>4 COINS 1 CREDIT</td>
<td>ON    ON    ON    ON    ON    ON    ON    ON</td>
</tr>
<tr>
<td>3 COINS 1 CREDIT</td>
<td>ON    ON    ON    OFF    ON    ON    ON    OFF</td>
</tr>
<tr>
<td>2 COINS 1 CREDIT</td>
<td>ON    ON    ON    OFF    OFF    ON    ON    ON</td>
</tr>
<tr>
<td>1 COIN 1 CREDIT</td>
<td>ON    ON    OFF    OFF    OFF    ON    ON    OFF</td>
</tr>
<tr>
<td>1 COIN 2 CREDITS</td>
<td>ON    OFF    ON    ON    ON    OFF    ON    ON</td>
</tr>
<tr>
<td>1 COIN 3 CREDITS</td>
<td>ON    OFF    ON    OFF    ON    OFF    ON    ON</td>
</tr>
<tr>
<td>1 COIN 4 CREDITS</td>
<td>ON    OFF    OFF    ON    ON    OFF    ON    OFF</td>
</tr>
<tr>
<td>1 COIN 5 CREDITS</td>
<td>ON    OFF    OFF    OFF    ON    OFF    ON    OFF</td>
</tr>
<tr>
<td>1 COIN 6 CREDITS</td>
<td>OFF    ON    ON    OFF    OFF    ON    ON    ON</td>
</tr>
</tbody>
</table>
### OPTION SELECTION (cont.)

<table>
<thead>
<tr>
<th>OPTION</th>
<th>SWITCH #2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 COINS 1 CREDIT</td>
<td>OFF ON ON OFF OFF ON ON OFF</td>
</tr>
<tr>
<td>4 COINS 2 CREDITS</td>
<td></td>
</tr>
<tr>
<td>5 COINS 3 CREDITS</td>
<td></td>
</tr>
<tr>
<td>6 COINS 4 CREDITS</td>
<td></td>
</tr>
<tr>
<td>2 COINS 1 CREDIT</td>
<td>OFF ON OFF ON OFF ON ON OFF</td>
</tr>
<tr>
<td>3 COINS 2 CREDITS</td>
<td></td>
</tr>
<tr>
<td>4 COINS 3 CREDITS</td>
<td></td>
</tr>
<tr>
<td>5 COINS 6 CREDITS</td>
<td></td>
</tr>
<tr>
<td>1 COIN 1 CREDIT</td>
<td>OFF ON OFF OFF OFF ON OFF OFF</td>
</tr>
<tr>
<td>2 COINS 2 CREDITS</td>
<td></td>
</tr>
<tr>
<td>3 COINS 3 CREDITS</td>
<td></td>
</tr>
<tr>
<td>4 COINS 4 CREDITS</td>
<td></td>
</tr>
<tr>
<td>1 COIN 1 CREDIT</td>
<td>OFF OFF ON ON OFF OFF ON ON</td>
</tr>
<tr>
<td>2 COINS 2 CREDITS</td>
<td></td>
</tr>
<tr>
<td>3 COINS 3 CREDITS</td>
<td></td>
</tr>
<tr>
<td>4 COINS 5 CREDITS</td>
<td></td>
</tr>
<tr>
<td>1 COIN 1 CREDIT</td>
<td>OFF OFF ON OFF OFF OFF ON OFF</td>
</tr>
<tr>
<td>2 COINS 3 CREDITS</td>
<td></td>
</tr>
<tr>
<td>1 COIN 2 CREDITS</td>
<td>OFF OFF OFF ON OFF OFF OFF ON</td>
</tr>
<tr>
<td>2 COINS 4 CREDITS</td>
<td></td>
</tr>
<tr>
<td>3 COINS 6 CREDITS</td>
<td></td>
</tr>
<tr>
<td>4 COINS 8 CREDITS</td>
<td></td>
</tr>
<tr>
<td>5 COINS 11 CREDITS</td>
<td></td>
</tr>
<tr>
<td>1 COIN 2 CREDITS</td>
<td>OFF OFF OFF OFF OFF OFF OFF OFF</td>
</tr>
<tr>
<td>2 COINS 4 CREDITS</td>
<td></td>
</tr>
<tr>
<td>3 COINS 6 CREDITS</td>
<td></td>
</tr>
<tr>
<td>4 COINS 9 CREDITS</td>
<td></td>
</tr>
</tbody>
</table>
The Theory of Operation

CONGO BONGO™ is a "state-of-the-art" electronic microprocessor based, video game. The result of hundreds of hours of work, design, research, experiment and more work. However, as with any electronic device, component failure or other problems can result in a game that doesn't function properly, or doesn't function at all. In either case, your game is "down", and so critically, are your profits.

Your objective is to fix it as quickly as possible, and logical troubleshooting goes a long way toward that repair. Although many troubleshooting methods may be familiar to you, procedural logic is common among them, and might be stated in this order: visual inspection, symptom recognition, symptom isolation, function isolation, component isolation and repair. Familiarity with the equipment in question will allow you to bypass one or more of these steps, as any particular problem may be obvious to you, or may have happened before. In general though, these 6 steps form a good premise upon which to approach your "down" game.

An extremely important item in our procedure is the first mentioned, giving the gear the "once over". A large percentage of failures found in electronics, show themselves visually and often a great deal of time can be saved by inspecting for burnt or blown components, loose or disconnected wiring or connectors, or PCB traces burnt or pulled up. Thorough visual inspections become increasingly important the closer you get to the faulty item, and should be repeated each time another portion of the game is eliminated. Symptom recognition (as with all electronic troubleshooting) in your CONGO BONGO™ depends first, on knowing what a proper display is, and second, knowing how your display differs from a normal one. Symptom isolation follows naturally; (i.e., "I have no picture", "I have no sound", "I have no control over the ship", "the picture is scrambled"), ergo, a video, audio, input or logic problem. Function isolation, such as a sync problem with the video, requires that you consider those functions that go to make up video sync. Is it a monitor problem, or an "on-the-board" problem? A monitor input check to verify the signal will tell you. Does the board have the voltage (from the power supply) that it needs? Yes? We must have a board failure, as we've just isolated down to function. Taking our sync problem further, before we begin our search for an individual component, let's reapply that first item in
our "Logical Troubleshooting Procedure". Look at the board. Open resistors, diodes, and capacitors often give themselves away.

Noticing a trace literally burned open can save you serious "down-time". The board looks OK, so on we go. Specific component isolation relates to the specific nature of the failure, component commonality, proper inputting (both signal and power) and proper outputting (as in the case of an output held high, low, or floating by input port failure in the succeeding state). More general problems (such as a total loss of video sync) requires the more involved procedure of systematic elimination of possibilities. This operation can be expedited however, by dividing the circuit in half, establishing a "go-no/go" at that point, and again dividing the suspect circuit portion in half. The largest possible areas can be eliminated in this manner, dividing and sub-dividing until the individual component failure is found.

CONGO BONGO™ is a microprocessor based, digital-integrated circuit computer video game. The heart of the computer is the CPU (U4, Zone 7-C, Sht. 1, Control Bd., 834-5166), a Z80A (P/N 315-0041). The Alpha type device MUST ALWAYS be used, as the Z80 is not fast enough to run the programs.

Master timing is IC-driven by U122, a G501533 that provides a stable frequency for J-K flip flops U46 & U47, located on the Video Board, Zone 4-B of Sht. 2 (834-5167). The "Phase Three X" signal (03X) is applied to U-15 P-2 (Zone 3-D, Sht. 3, 834-5167) & is clocked out at pin 13 as the 1H frequency that appears thru P3 p-9 at the input to the CPU. U6 & Q10 (Zone 8-D, Sht. 1 of the Control Bd. 834-5166) polarize & reference 1H for input timing for U4 (Zone 7-C, Sht. 1, Control Board, 834-5166).

Manual system reset (Power-On) appears as a LO at P5 p-L (Zone 8-D, Sht. 2, Control Bd., 834-5166) and is then felt through filter BF8, & is applied to pin-26 of the CPU (U4, Sht. 1, Zone 7-C, Control Bd., 834-5166). Normal program interrupts (INT) are felt at pin-16 of the Z80A (an edge-triggered LO), and are the result of Input/Output activity timing 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. U5 and 7 (Zone 7-C, Sht. 1, Control Bd., 834-5166) are address bus drivers. Three of the sixteen address lines pass through U56 (Zone 5-C, Sht. 1, Control Bd., 834-5166) and subsequently drive the Chip Enable inputs of EPROM IC's 32-35 and RAM IC's 36 & 37 (Sht. 1, Control Bd., 834-5166). U48 & 9, 62 & 63 (Sht. 4, Control Bd., 834-5166) are input ports on the data bus. U64 supplies service switch, game start and coinage to the input ports. U14 and 18 input
Coin B, and U15 and 18 input Coin A. U16 & 19 input service switch, while U64 & drives player start to I/O processor U9 (Zone 5-C, Sht. 1, Control Bd., 834-5166). IC111, 112 and 114 accesses/buffers Player Left/Right data, IC111 and 113 interfaces Fire data, and Option Selection is shared by all 4 74LS244's. Located on the Control Board is the Self-Test switch. When closed, it applies a LO to U4 p-17 (Zone 7-C, Sht. 1, Control Bd., 834-5166) initiating a systems/function verification outlined on the following page:
CONGO BONGO™ is equipped with a diagnostics self-testing program that is initiated by pressing the Self-Test button located on the Control Board Assembly. The test is used to detect malfunctions in Video alignment, I/O interface and P.C.B. electronics.

The test will appear in the following order, with the words "OK" or "BAD" being displayed on the screen in accordance with the condition of the tested circuit. Self-Test step sequencing is done by pressing the Player 1 button after each individual test.
1. ROM Test

This test checks the four main program EPROMs by performing individual "check sum" tests. These EPROMs are located on the Control Board.

```
ROM TEST
  ROM 1 OK
  ROM 2 OK
  ROM 3 OK
  ROM 4 OK

RAM TEST
  RAM 1 OK
  RAM 2 OK
```

IC # 35
IC # 34
IC # 33
IC # 32

2. RAM Test

This test checks RAM 1 and RAM 2 by performing a cross-talk test between each adjacent bit in the RAMs. These RAMs are located on the Control Board.

```
ROM TEST
  ROM 1 OK
  ROM 2 OK
  ROM 3 OK
  ROM 4 OK

RAM TEST
  RAM 1 OK
  RAM 2 OK
```

IC # U34
IC # U36

3. Background Scene Test

This test checks the background displays of the game in eight (8) individual steps. Advance through the steps by pressing the Player 1 button, until the eighth display (a blank screen) is reached.

```
1  →  2  →  3  →  4
```

11
4. Target Test

Here we check the target patterns used in the game in eight (8) individual steps. Again, advance through the test with the Player 1 button, scene by scene. Movement and 180° Flip (for Cocktail Tables) are verified here as well.

5. Input Test

This test checks the input switches used for operator control, and input signals from the player controls to software.
SELF-TEST (cont.)

6. Output Test
   This test verifies output ports used to interface computer software to game hardware.

   OUTPUT TEST
   COINAER OK
   COINBER OK
   SERVCEN OK
   COUNTA OK
   COUNTB

   OUTPUT TEST
   COINAEN OK
   COINBEN OK
   SERVCEN OK
   COUNTA OK
   COUNTB OK
   FLIP

7. DIP Switches
   Operation of the DIP Switches are checked here, internally, by simultaneously turning on, and then off, all odd switch positions, followed by all even switch positions. "Test 1" is displayed at the end of the cycle. Pressing the Player 1 button initiates "Test 2" for DIP Switch 2.

8. Video RAM Test
   Here Video RAMs used for character pattern display are tested. These RAMs are located on the Video Board.

   VRAM TEST
   VRAM OK
9. Character Pattern Test

This test checks the ROMs used for character patterns and picture patterns. During this test all the patterns contained within each ROM will be displayed. Character pattern ROMs are located on the Video Board.

10. Color Control Reference Test

Character pattern and background picture color control is checked here by color reference changes with each pressing of the Player 1 button.

11. Sound Port Test

This test verifies that proper sound outputs are generated with each pressing of the Player 1 button. Twenty-nine individual sounds are generated, one at a time, sequenced by the Player 1 button, and appear in order on the following page.
11. Sound Port Test (cont.)

01  No sound
02  Gorilla lullaby
03  Player victory music
04  Player clear music
05  "Player goes to Heaven" music (in the water)
06  "Player goes to Heaven" music (other than in the water)
07  Fire
08  Player step sound
09  Player drop sound
10  Player jump sound
11  "Monkey on my back" sound
12  Held by monkey sound
13  Hit by coconuts sound
14  "Crumbling crevasse" sound
15  Passage of snake sound
16  Rush of rhino sound (A)
17  Rush of rhino sound (B)
18  Rhino screeching to a stop sound
19  Player digging sound
20  Fish sound
21  Special Bonus sound
22  Credit sound
23  Gorilla laughing
24  Hippo sinking sound
25  Background music for scene # 1
26  Background music for scene # 2
27  Background music for scene # 3
28  Background music for scene # 4
29  Bonus score up sound
Due to the striking graphics employed in CONGO BONGO™, memory requirements for background generation are significant. On the VIDEO Bd. (834-5167) there are nine (9) 2764-30 64K X 8 EPROMs that hold video character, positioning, color and timing information, in addition to the five (5) program 2764-30's on the Control Bd. Background generation accessible memory (RAM) is provided by TTL IC's U12 and U53 (Zone 7-C and 3-D respectively, Sht. 2, on the VIDEO Bd., 834-5167), in addition to U59 on Sht. 4 of the Control Board (834-5166). RGB color data is found fully processed at P5 pins w, 19 and X respectively, on the Control Board (Zone 6-D, Sheet 2, 834-5166). Video COMPSYN (Composite Synchronization) can be found at the same location. U68 (Sht. 2, Zone 4-D, 834-5166) is the primary color PROM.

Just as the microprocessor Z80A is the heart of the game computer, so too is the Sound Board equipped with its own Z80A microprocessor as well as an 8255A-C Sound Generator (Zone 4-C & 7-C, Sht. 1, 834-5168, respectively). Implying a 4.00 MHz crystal-driven (Zone 6-D, Sht. 1 834-5168) timing frequency at pin 6, U3 processes program data held by U10 & 11 to set enable parameters used by Sound Generator U1. U1 in turn processes external noise sources (Sht. 2, 834-5168) to produce an integrated sound output felt at P1 p-9 (Zone 8-C, Sht. 1, 834-5168). Back on the Control Board, P4 pin-3 (Sht. 3, Zone 5-C, 834-5166) inputs our sound to OP Amp U2, thru Volume Control pot. VR1 (Zone 8-D, Sht. 3, 834-5166) to the Audio Amplifier U1 (Zone 7-C, Sht. 3, 834-5166) & out to the speaker at P5 pins H & 7 (Zone 8-B, Sht. 3, 834-5166).
Shading indicates a Common Assembly
Parts Catalog

700-0134 Top Assembly
<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NO.</th>
<th>QTY.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>130-0002-00</td>
<td>1</td>
<td>Speaker Cover 6 x 9</td>
</tr>
<tr>
<td>2</td>
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NANA0 200 0039
COLOR DISPLAY ADJUSTABLE CONTROLS

RV401 V-HOLD
RV403 V-SIZE
RV402 V-POSITION
RV503 BRIGHT

RV104 VIDEO-BIAS

RV103 B-GAIN
RV102 G-GAIN
RV101 R-GAIN

RV301 R-BIAS
RV302 G-BIAS
RV303 B-BIAS

FOCUS
SCREEN
700-0138 Top Assembly
700-0139 Top Assembly
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Operator Control Block Assembly

Diagram showing a control block with various labels and connections.

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## PURITY SHIELD ASSY

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<td>OM R 12K Ohm 2W J</td>
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<td>V R 10K Ohm</td>
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### ZN R

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### Posistor

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<td>OM R 18K Ohm 1W J</td>
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<td>V R 2K Ohm</td>
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<td>F R 220 Ohm 1/2W K</td>
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### Capacitors
- BPE Cap 3.3 uf 50V A
- Tan cap 2.2 uf 16V K
- E cap 4.7 uf 6.3V A
- E cap 100 uf 160V A
- E cap 3.3 uf 160V A
- PP cap 5600 uf 50V J
- PP cap 2000 pf DC1500V J
- PP cap 2000 pf DC1500V J
- PP cap 2000 pf DC1500V J
- PP cap 0.53 uf DC1200V J
- BPE cap 3.3 uf 50V A
- E cap 1 uf 160V A
- M cap 0.1 uf 200V K
- PP cap 2000 pf DC1500V J
- PP cap 1500 pf DC1500V J
- E cap
- E cap 10 uf 250V A

### Coils
- 180-0024 Linarity coil
- 181-0031 Width coil
- 180-0025 Heater choke

### Transformers
- 560-0061 Hor drive transf
- 560-0097 Side pin transf

### Semiconductors
- 316-0807 IC HA11244
- 482-0177 Si transistor, 2SC1685(R)
- 482-0111 Si transistor, 2SA673(C)
- 482-0177 Si transistor, 2SC1685(R)
- 482-0111 Si transistor, 2SA673(C)
- 482-0177 Si transistor, 2SC1685(R)
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**Miscellaneous**

- Fuse 1.25A
- US fuse 3A
C.R.T. P.C.B. COMPONENT LAYOUT
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<td>2.7k Ohm, +10%, 5W WW</td>
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<td>1.2k Ohm, +10%, 1W MO</td>
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**Semiconductors**

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**VERT/HOR BOARD**

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**POWER BOARD**

**Resistors**

- 180 Ohm, ±10% 15W WW
- 100 Ohm, ±5%, 1/8W carbon
- 1k Ohm, ±5%, 1/8W carbon
- 560 Ohm, ±5%, 1/8W carbon
- 39k Ohm, ±5%, 1W MO
- 6.8k Ohm, ±5%, 1/8W carbon
- Varistor volt adj

**Capacitors**

- 10 uf, 160V electrolytic
- 1500 pf, 50V, ±10% ceramic
- 22 uf, 16V electrolytic

**Semiconductors**

- 482-0261  | Transistor, 2SC1740Q                             | TR501    |
- 482-0288  | Transistor, 2SC1454                              | TR502    |
- 481-0135  | Diode (SI) zener EQ801-06V                       | X501     |
- 481-0149  | Diode (SI) IS2473-T72                           | X502     |
<p>| <strong>Miscellaneous</strong> |                                              |          |
| Socket, 6 pin |                                              | J501     |</p>
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**NECK BOARD**

**Resistors**

- 1.8k Ohm, +5%, 1/8W carbon
- 1.8k Ohm, +5%, 1/8W carbon
- 1.8k Ohm, +5%, 1/8W carbon
- 150 Ohm, +5%, 1/8W carbon
- 220 Ohm, +5%, 1/8W carbon
- 150 Ohm, +5%, 1/8W carbon
- 390 Ohm, +5%, 1/4W carbon
- 390 Ohm, +5%, 1/4W carbon
- 4.7k Ohm, +5%, 1/8W carbon
- 4.7k Ohm, +5%, 1/8W carbon
- 12k Ohm, +5%, 2.0W metal oxide
- 12k Ohm, +5%, 2.0W metal oxide
- 12k Ohm, +5%, 2.0W metal oxide
- 2.7k Ohm, +10%, 1/2W comp
- 2.7k Ohm, +10%, 1/2W comp
- 2.7k Ohm, +10%, 1/2W comp
- 470k Ohm, +10%, 1/2W comp
- 330k Ohm, +10%, 1/2W comp
- 1.0 Ohm, +10%, 2W metal oxide
- 270 Ohm, +5%, 1/4W carbon
- 500 Ohm varistor R drive
- 500 Ohm varistor B drive
- 5k Ohm varistor R cutoff
- 5k Ohm varistor G cutoff
- 5k Ohm varistor B cutoff
- 1M Ohm varistor screen
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<td>1500 pf, 2 kV, +10% ceramic</td>
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## Resistors

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P.C. BOARD LAYOUT
FIGURE 13. NECK P.C. BOARD
### MAIN BOARD

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**MISCELLANEOUS**
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**FINAL ASSEMBLY**
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MONITOR 19" VERTICAL - WELLS GARDNER

NECK BOARD

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MISCELLANEOUS
P.C. BOARD LAYOUT

TOP VIEW

BOTTOM VIEW
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Schematics
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