

## Wells-Gardner 13K7200 Monitor Repair Guide

### **GENERAL INFORMATION:**

Used in the Midway "Touchmaster 7000" dedicated countertop video game.

Markings:

WGT 1372-KOTM1

054A7201-018

"P757-D" label on main board

"P759" silkscreened on neck board

P758 Remote Adjustment board

Monitor has a 3-wire power connector.

### **MAIN BOARD CONTROLS:**

VR9 50/60Hz adjust

VR2 Horizontal Hold

VR8 High Voltage safety Shutdown

VR001 B+ voltage adjust

### **REMOTE ADJUSTMENT BOARD CONTROLS:**

VR101 Contrast 10 k

VR102 Black Level 2 k

VR103 Vertical Position 30 k

VR104 Vertical Size 200  $\Omega$

VR105 Vertical Hold 500 k

VR106 Horizontal Position 500  $\Omega$

### **FLYBACK INFORMATION:**

These markings are on the fly back: 053X0641-001, F-503, Meritron, T-50026, and 71205. Crosses to an H.R. Diemen # HR 8690

### **PICTURE TUBE INFORMATION:**

Wells-Gardner # 088X0236-001. Orion # A34JLL40X25. Test with B&K rejuvenator CRT socket adapter CR-31 and set the heater voltage to 6.3 volts.

### **CAPKIT INFORMATION:**

Neckboard:

C204 4.7 uf @ 160 volts (often found leaking, open, or damaged)

**Main board:**

C12 1 uf @ 50 volts  
C13 10 uf @ 25 volts  
C73 10 uf @ 25 volts  
C22 1 uf @ 50 volts  
C09 1 uf @ 50 volts  
C80 100 uf @ 16 volts  
C23 47 uf @ 35 volts  
C18 1 uf @ 50 volts  
C21 10 uf @ 25 volts  
C20 10 uf @ 25 volts  
C48 100 uf @ 35 volts  
C011 22 uf @ 50 volts  
C015 100 uf @ 35 volts  
C4? 1000 uf @ 16 volts (to the left of the fly back)  
C40 2200 uf @ 35 volts  
C?? 1000 uf @ 16 volts (next to LM1203 chip)  
C45 470 uf @ 16 volts  
C50 680 uf @ 35 volts  
C?? 100 uf @ 160 volts (next to IC3's heat sink)  
C101 100 uf @ 160 volts

**Important note:**

Check routing of the high voltage wire from the fly back to the picture tube. In countertop games it needs to be kept away from any other wires. Wrap it in a short section of "split-loom" tubing to help insulate it from arcing.