

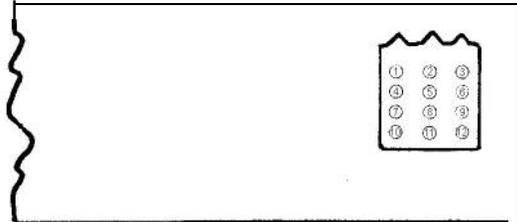
# INSTRUCTIONS FOR THE WICO X-Y MONITOR TESTER **WICO** NO. 72-4464

The Wico X-Y Pattern Generator was designed as a test instrument to aid in the repair and alignment of B/W and color X-Y monitors. This unit cannot be used on Raster scan monitors.

The Pattern Generator comes equipped with cable assemblies to fit Wells Gardner and Electrohome B/W and color X-Y monitors. The unit can be used on other monitors by building the appropriate cables. For this reason, a drawing of the output plug pin assignments is shown in Figure 1.

### Pin Assianment for Plug

1. Ground	7. No Connection
2. X B/W +-10V	8. X Color Control
3. Y B/W +-7.5V	9. Y Color Control
4. Red Drive	10. No Connection
5. Blue Drive	11. X Color Output ( <b>See Note</b> )
6. Green Drive	12. Y Color Output ( <b>See Note</b> )



**FIGURE 1**

**NOTE:** X color output swing is +-8V when pins 2 and 8 are shorted together, otherwise +-4V.

**NOTE:** Y color output swing is +-6V when pins 3 and 9 are shorted together, otherwise +-3V.

### TESTING AN X-Y MONITOR

The Wico Pattern Generator does not provide power outputs to the monitor. The cable assemblies are made so as to allow the games power supply to stay connected while the tester controls the inputs to the monitor. When testing a monitor, check the power supply first to be sure the proper voltages are present. Only if the power supply is right should the tester be plugged into the monitor.

To begin testing first find the cable that matches the plug on the monitor to be tested. Connect as shown in Fig. 2 or 3. Turn on the monitor supply and the X-Y tester. Allow a short time for the monitor to warm up. Always start with the brightness at the lowest point. This will prevent phosphor burn on a monitor with defective X or Y deflection circuits.

### COLOR

When testing a color monitor set the pattern switch to the crosshatch pattern. Set each color switch one at a time to the on position. Check that only that color is present on the screen. Now set all three color switches on, and check for a white screen. To correct any bad coloring follow the manufacturers alignment procedures for purity and convergence.

### YOKE ALIGNMENT

Set the pattern switch to the vertical or horizontal lines. Test that the lines are not angled on the screen. If so the yoke may have rotated on the neck. See mfg. instructions for procedure.

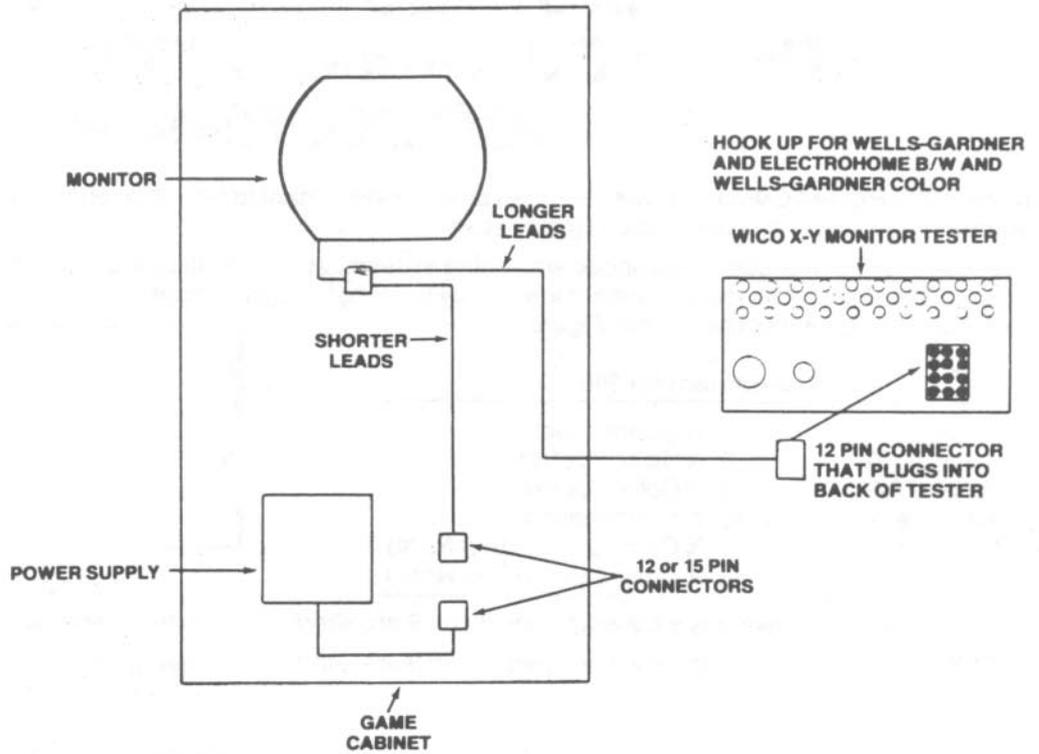
### CENTERING

Set the pattern switch for the sight pattern. Test to see that the intersection of the lines is in the center of the screen. Now turn to the box and sight pattern. The tester does not have a pincussion correction circuit and some bowing may be noticeable on 19" monitors. The box should be all visible on the screen. See mfg. procedures on centering and size adjustments.

### OUTPUT VOLTAGE SPECIFICATIONS

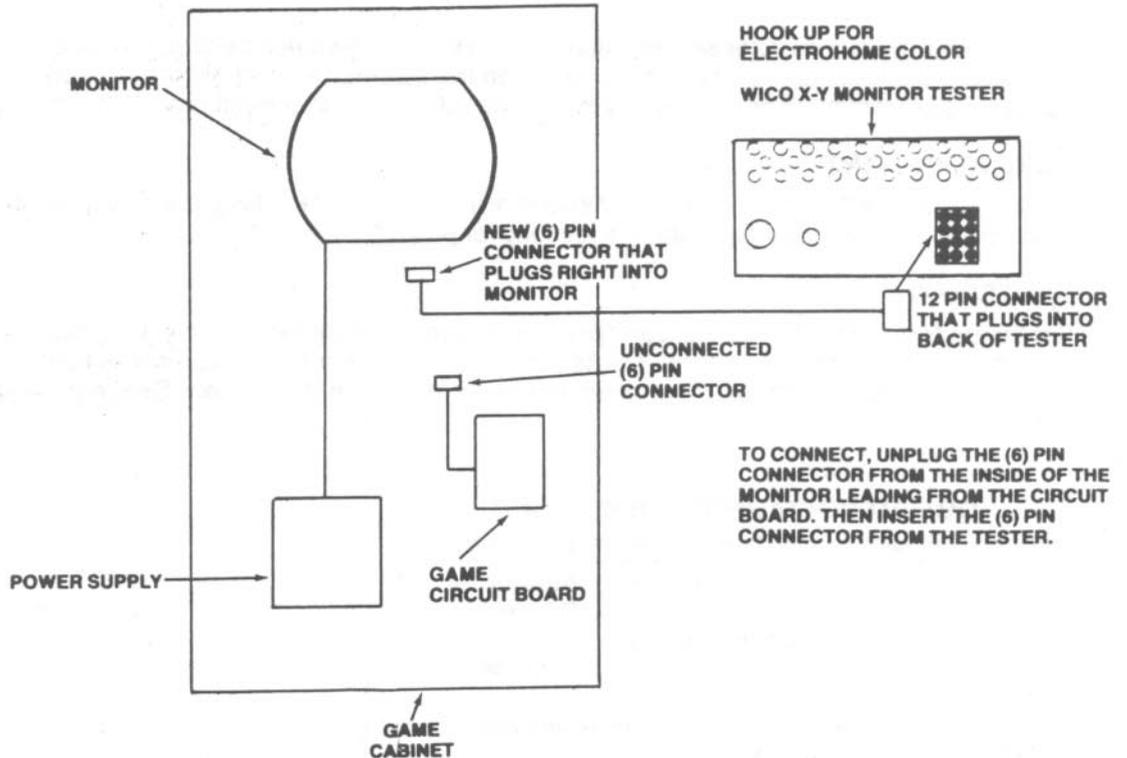
Horizontal Outputs	Vertical Outputs	Beam Outputs
+4V to -4V pin 11	+3V to -3V pin 12	0 to 4V red or B/W pin 4
+8V to -8V pin 11 with pins 2 and 8 jumped together.	+6V to -6V pin 12 with pins 9 and 3 jumped together.	0 to 4V blue pin 5
+10V to -10V pin 2 for B/W monitors.	+7.5V to -7.5V pin 3 for B/W monitors.	0 to 4V green pin 8

**FIGURE  
2**

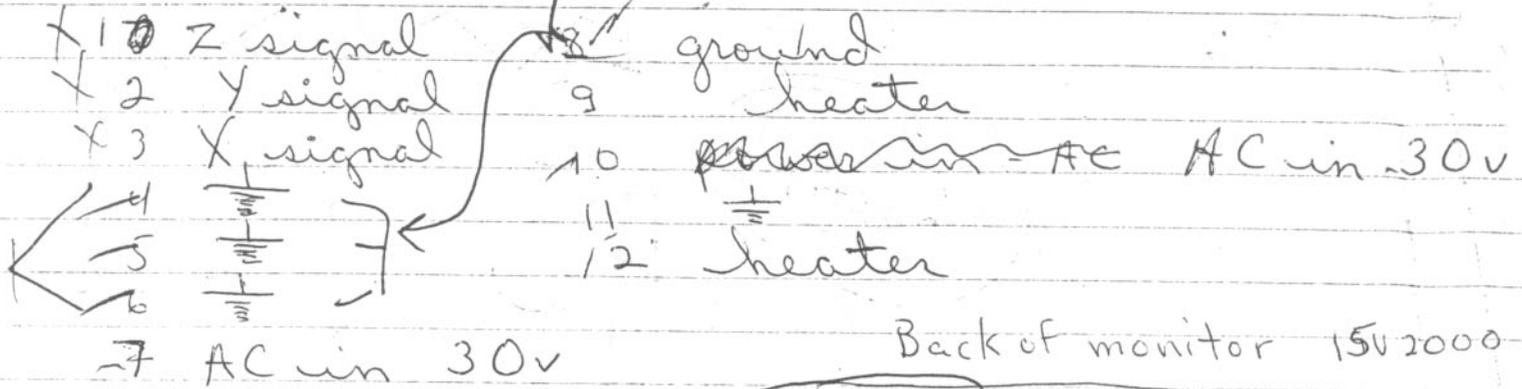


6 5 4 3 2 1

**FIGURE  
3**

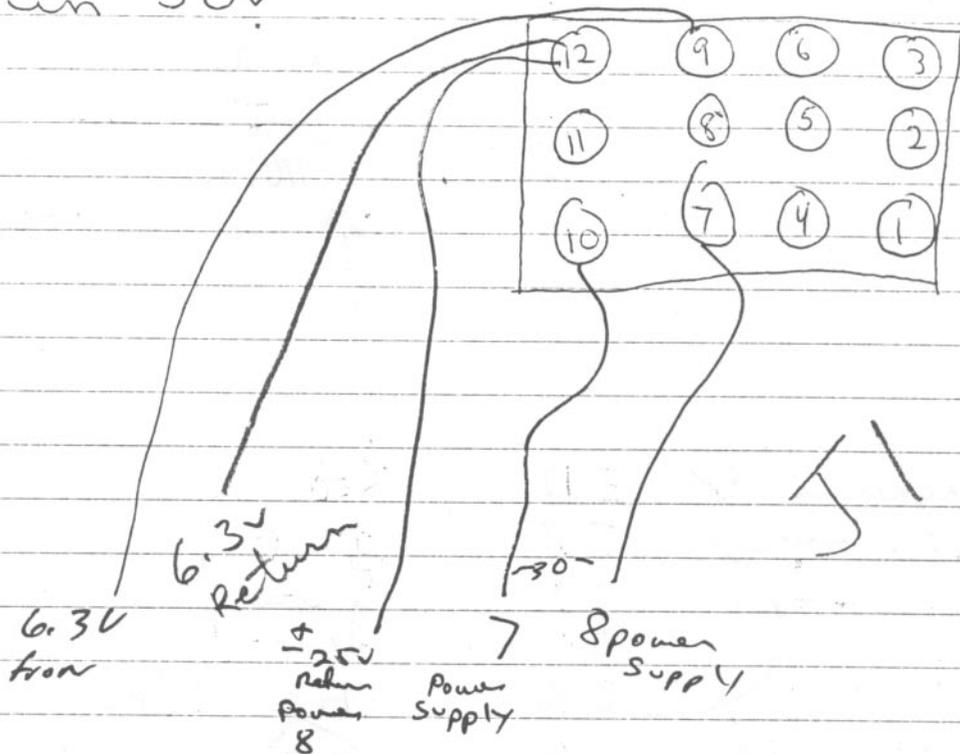


# B&W XY Monitor



Back of monitor 15U 2000

no



pin assignment  
color raster

- E1 Red
- E2 Green
- E3 Blue
- E4 Ground
- E5 Vert. Sync
- E6 Hor. Sync

X-Y

Back of unit

