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1. INTRODUCTION

Digital Controls, Inc. proudly introduces you to the new "COUNTERCADE" convertible color video game machine.

"COUNTERCADE" arrives fully assembled, pre-tested, and ready for use. "COUNTERCADE" can be installed on a bar, a table top, or any location because of the unique swivel base feature which allows for base of accessibility, mounting and theft protection.

2. DESCRIPTION

COUNTERCADE is a complete convertible bar-top or table-top video game system. It's 13" full color monitor can be mounted either vertically or horizontally. The major components of the COUNTERCADE system are the top assembly, the base plate assembly and the game board cavity. Each of these are described in further detail below.

2.1 TOP ASSEMBLY

The top assembly (plastic cabinet) serves to protect the unit and also contains the coin mechanism, the switchplate and miscellaneous hardware. The entire assembly is removable by taking out the 4 button head allen bolts on the rear of the unit and 8 more allen bolts on the bottom. The cabinet lifts straight up and includes enough cabling to allow the coin mechanism and switchplate to remain with the cabinet.

2.3 BASEPLATE ASSEMBLY

The baseplate assembly is the structural framework for the COUNTERCADE unit consisting of 0.090 inch aluminum. The baseplate contains the 13" full-color CRT and monitor board, D.C. power supply, coin counter, cash box, wiring harness and miscellaneous hardware. The baseplate assembly also contains the game board cavity which is accessible from the bottom of the unit.

2.4 GAMEBOARD CAVITY

The gameboard cavity consists of the game board holders (one fixed, one adjustable), two speakers, and the connector board. The gameboard cavity will accept game board sets up to 13 inches, wide, 16.5 inches long in a triple stack.

The gameboard cavity is accessible by removing the 6 phillips head 8-32 x 1/4" machine screws.

3. FAX VIDEO GAME

3.1 Operation and Play

The FAX video game is basically a trivia game for one or two players. FAX contains over 5,000 questions, covering 4 different topics (sports, history, entertainment, grab-bag) on 3 difficulty levels. Points are scored according to correct answers and the time it takes to answer.

Refer to the following illustration and table concerning operator selectable coinage, game time, bonus time and volume settings.*

* Audio volume is set at maximum at the factory; a volume control is accessible through the service door (rear of unit, upper right corner). Volume control is located on the lower left side of the service door opening.

3.2. DIAGNOSTICS

On the initial power up, the first display seen will be the program and data EPROM CRC test. This is time consuming and can be eliminated by depressing the one player and two player buttons. The FAX game will then do a complete audio and memory check prior to setting the game for play.

Additionally, a color test pattern and switch test can be called up. This is done by depressing and holding the service switch (located inside the cash box cavity, accessible through the top to the extreme front and left). Each switch, when depressed, will identify itself on the screen. Also, color blocks of white, red, green and blue are displayed for color purity adjustments if necessary.*

*Color CRT adjustments are accessible through the service door. CRT focus and high voltage adjustments are accessible inside the game board cavity, just behind the cooling fan.

4. CONVERSION

Countercade is designed to allow conversion from one game to another in approximately 20 minutes.

Unless the color CRT needs to change position (example: from horizontal to vertical), the top assembly need not be removed.

The conversion procedure is as follows:

1. Remove A.C. power from COUNTERCADE.
2. Lay COUNTERCADE on its side.
3. Remove the 6 phillips head screws from the bottom of the unit and lay the game board cavity alongside the unit.
4. Unplug the wiring harness adaptor card from the connector card (refer to the connector card illustration).
5. Remove old game board from circuit board holders.
6. Insert new game board, with wiring harness supplied by DIGITAL CONTROLS, INC. and adjust moveable card guide if necessary
7. Plug new adaptor card into P1 of connector card.
8. If switchplate change is necessary, remove connector J5, remove the 8

button head allen screw, and remove the old switchplate.

9. Install new switchplate and connector at J5 (supplied by DIGITAL CONTROLS, INC.) The new gameboard is ready for checkout.

10. Re-install gameboard cavity - COUNTERCADE is now ready for play.

NOTE: If CRT position must be changed, the top must be removed. Remove the 4 10-32 nuts securing the CRT, rotate and re-install CRT in new position. NOTE: High voltage and anode on CRT must be either on the top or the right side of CRT. Also, the inside bezel of the top unit must be rotated to align with the CRT. This is done by removing the 4 button head allen screws holding the inside bezel, rotating and re-installing.

FAX GAME

DIP SWITCH SETTINGS

<u>COINAGE:</u>	
F/S	1 coin - 1 credit
	2 coins - 1 credit
	1 coin - 2 credits
	1 coin - 3 credits
	1 coin - 4 credits

<u>SWITCH</u>		
4	5	8
Off	Off	Off
Off	On	Off
On	Off	Off
Off	On	On
On	On	Off

<u>GAME TIMES</u>			
	game	approx.	bonus
	clock	play	time
	time	time	time
	:32	2:08	:24
F/S	:48	3:12	:36
	1:04	4:16	:48
	1:12	4:48	1:04

<u>SWITCH</u>	
6	7
Off	Off
On	Off
Off	On
On	On

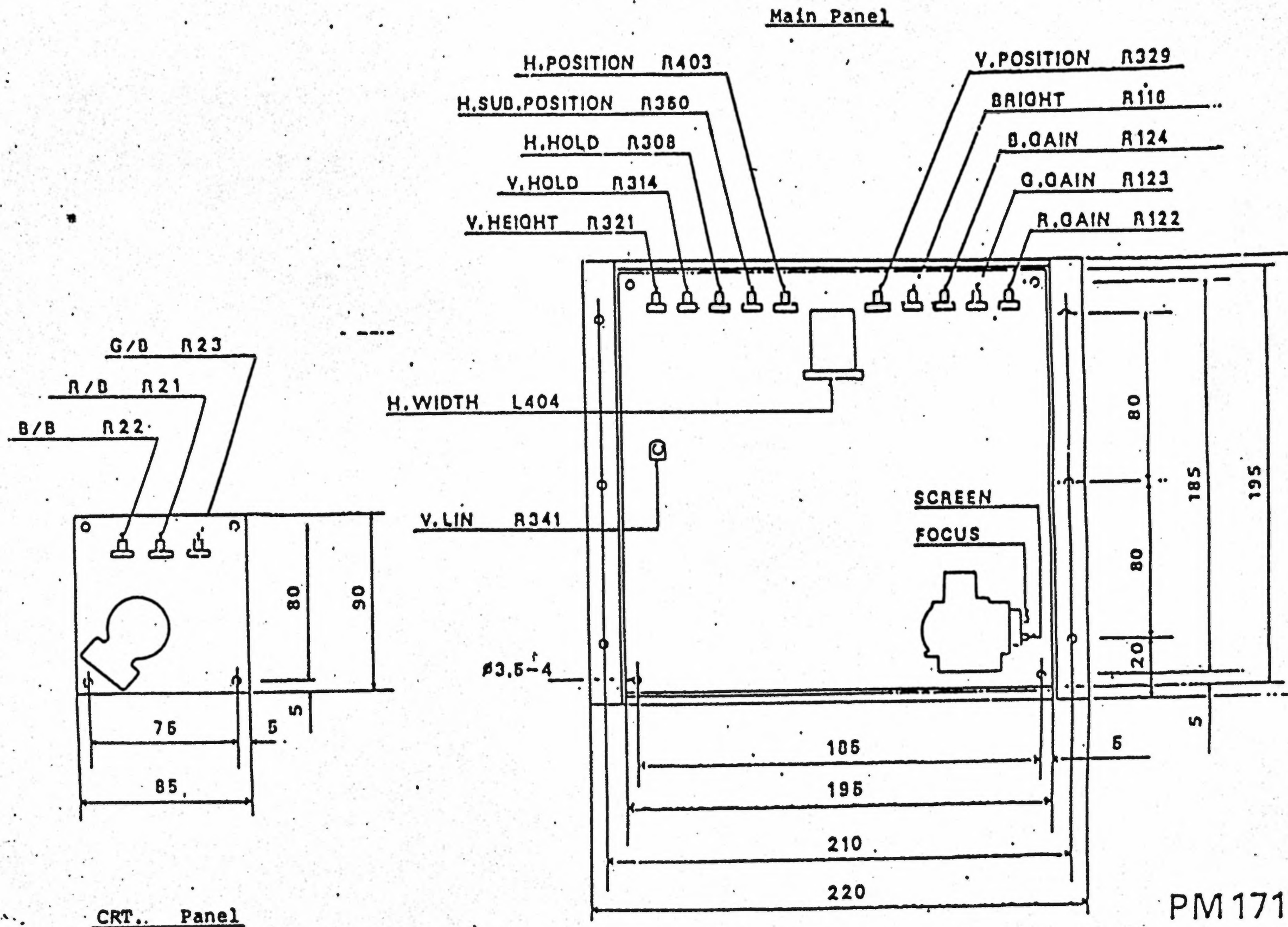
<u>BONUS TIME</u>	
(extra time awarded when selectable points are made - maximum of 2)	
	8000
F/S	13000
	18000
	25000

<u>SWITCH</u>	
2	3
Off	Off
On	Off
Off	On
On	On

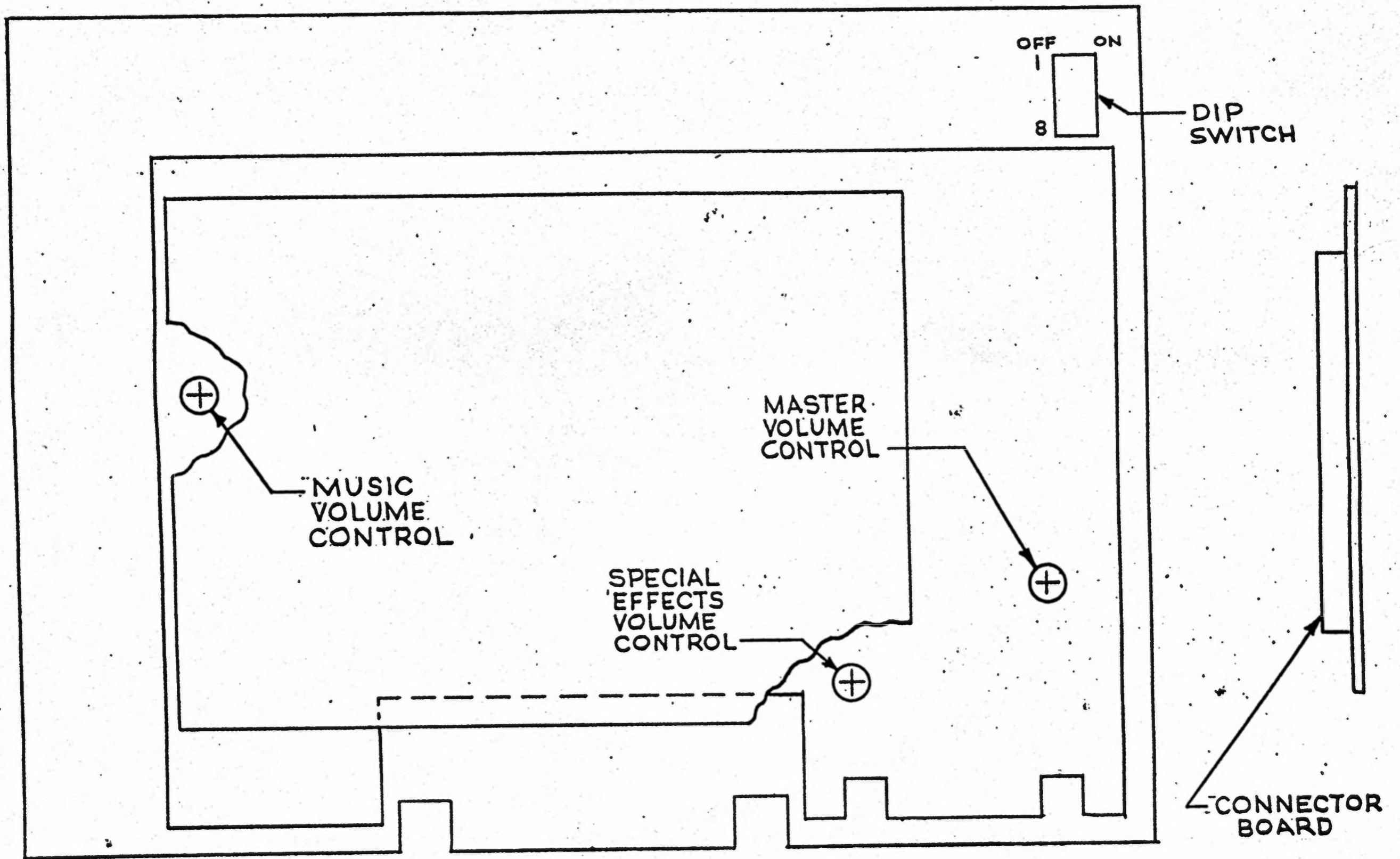
F/S = Factory Setting

Switch 1 is not used and should be off.

Dimensions of the Panel and the Location of the Controls

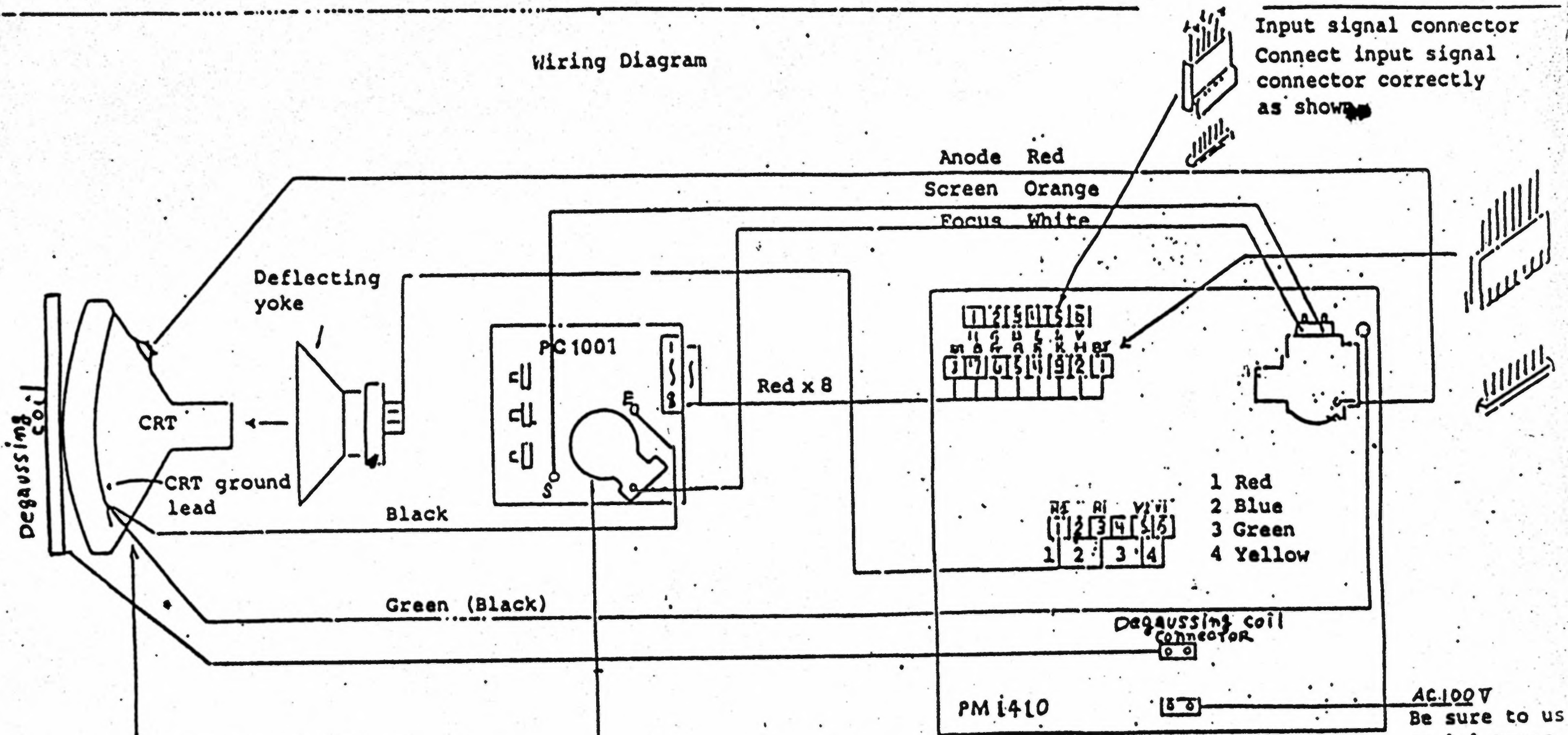


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FAX GAME BOARD - TOP VIEW

Wiring Diagram

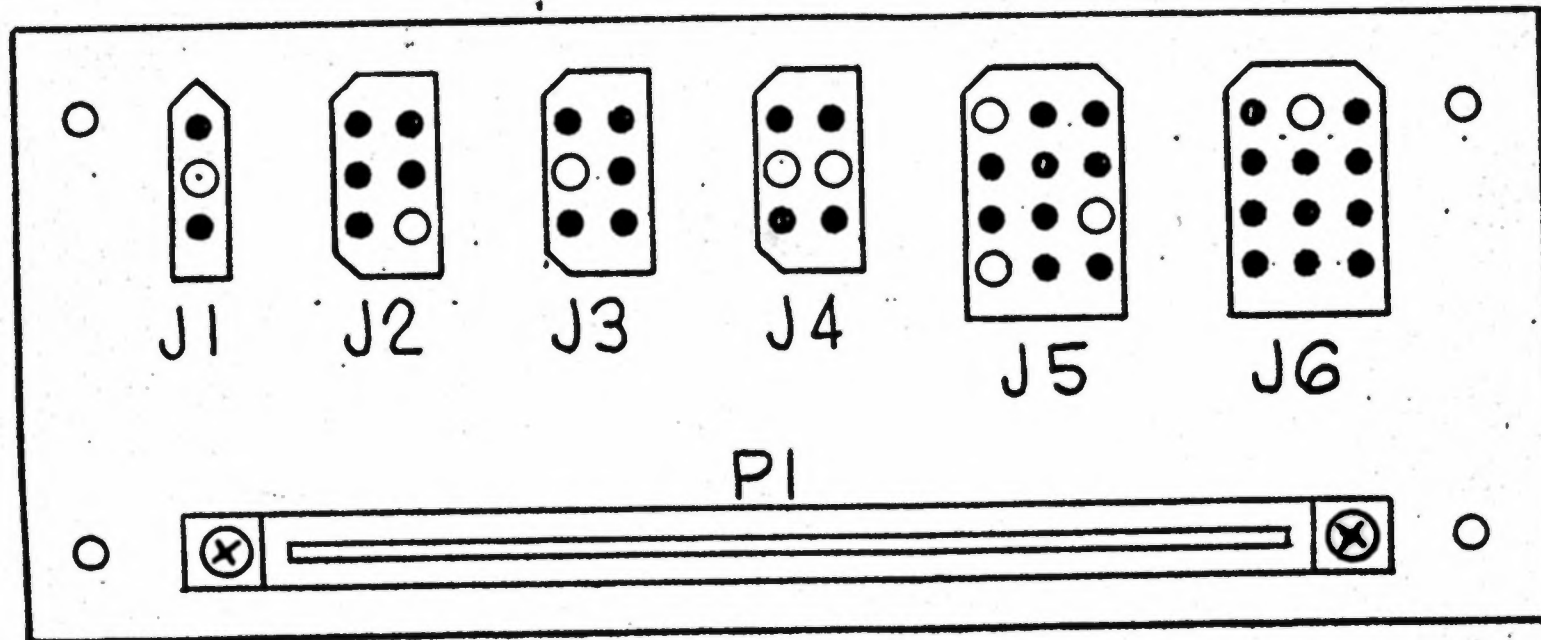


Input signal connector
Connect input signal connector correctly as shown

Connect CRT ground lead to E terminal of CRT socket printed board (PC 1001) and main printed board (PM).

When installing socket to CRT, be careful not to bend base pins.

AC 100V
Be sure to use an 1:1 transformer.



COUNTERCADE CONNECTOR CARD

- J1 - Speaker Connector
- J2 - Coin Mechanism / Service Switch Connector
- J3 - D. C. Power Supply Connector
- J4 - Color Monitor Connector
- J5 - Front Panel Switchplate Connector
- J6 - Coin Counter and Optional Accessories Connector