

VERTICAL 2 PLAYER, 2 JOYSTICK, 2 BUTTON JAMMA COMPATIBLE CONVERSION KIT

| POWER REQUIREMENTS |               | MONITOR REQUIREMENTS  |
|--------------------|---------------|---|
| +5 VDC             | 7 amp minimum | Vertical Mount Raster Scan<br>Negative Composite Sync<br>Required for Jamma Compatibility |
| +12 VDC            | 1 amp minimum |   |
| -5 VDC             | 1 amp minimum |   |



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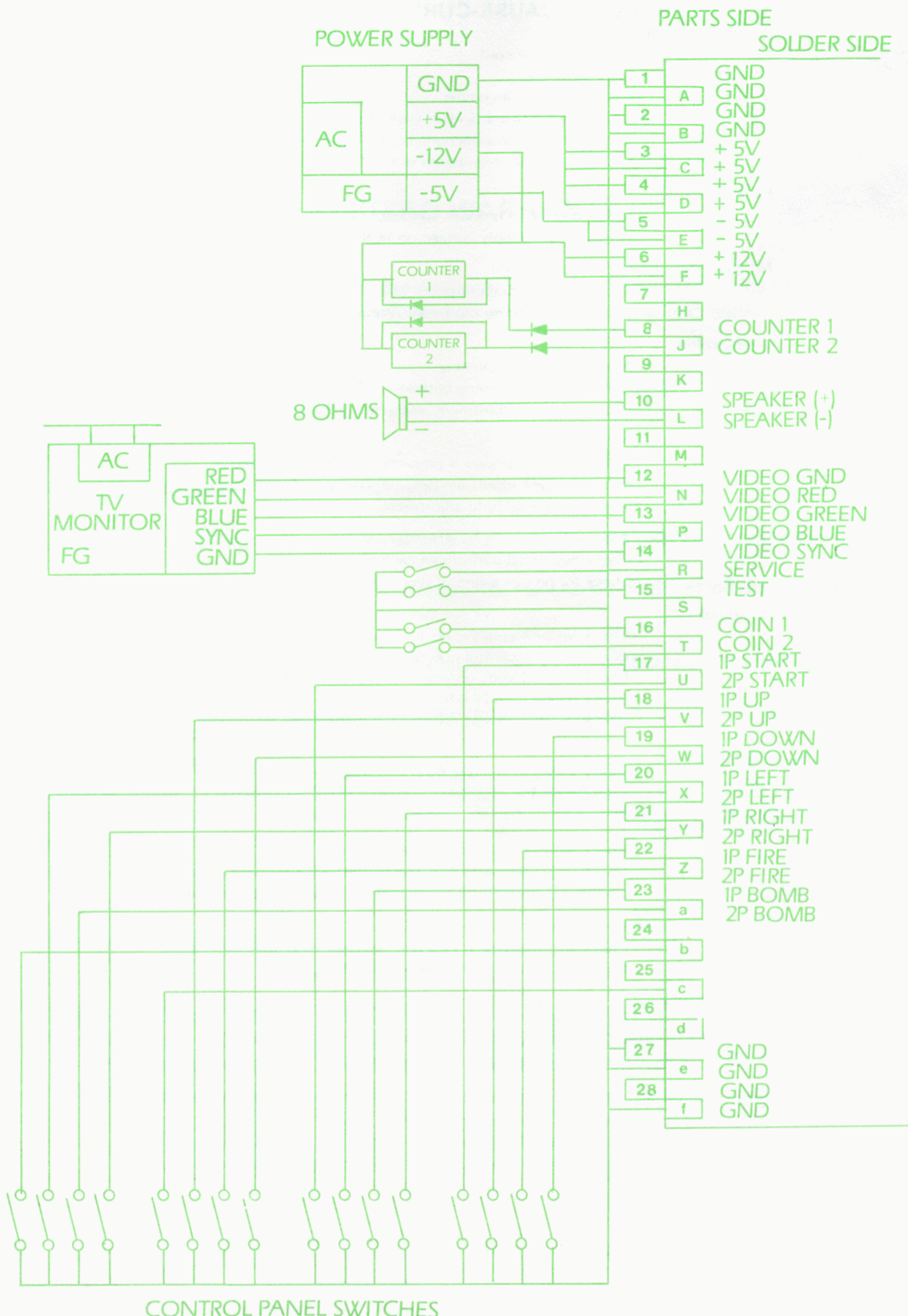
**INSTRUCTION MANUAL**



## 56 PIN EDGE CONN. PIN-OUT CHART (JAMMA COMPATIBLE)

| WIRE COLOR    | SOLDER SIDE     |   | PARTS SIDE |                 | WIRE COLOR   |
|---------------|-----------------|---|------------|-----------------|--------------|
| BLACK         | GND             | A | 1          | GND             | BLACK        |
| BLACK         | GND             | B | 2          | GND             | BLACK        |
| RED           | +5V             | C | 3          | +5V             | RED          |
| 1 RED         | +5V             | D | 4          | +5V             | RED          |
| WHITE         | -5V             | E | 5          | -5V             | WHITE        |
| YELLOW        | +12V            | F | 6          | +12V            | YELLOW       |
|               | KEY             | H | 7          | KEY             |              |
| 3 BROWN/WHITE | COIN COUNTER 2  | J | 8          | COIN COUNTER 1  | BROWN 2      |
| 5 RED/BLACK   | COIN LOCK OUT 2 | K | 9          | COIN LOCK OUT 1 | RED 4        |
| WHITE/BLACK   | SP (-)          | L | 10         | SP(+)           | WHITE        |
| OP.-BLU/BLACK | N.C.            | M | 11         | N.C.            | BLUE-OPTION  |
| GREEN         | VIDEO GREEN     | N | 12         | VIDEO RED       | RED          |
| GRAY          | VIDEO SYNC      | P | 13         | VIDEO BLUE      | BLUE         |
| 6 RED/BLACK   | SERVICE SWITCH  | R | 14         | VIDEO GND       | BLACK        |
| OP.-BRN/BLACK | TILT SW.        | S | 15         | TEST SW.        | BROWN 7      |
| 9             | COIN SW. 2 9    | T | 16         | COIN SW. 1      | WHITE 8      |
| WHITE/GRAY    | START SW. 2     | U | 17         | START SW. 1     | GRAY         |
| WHITE/VIOLET  | 2P UP           | V | 18         | 1P UP           | VIOLET       |
| WHITE/BLUE    | 2P DOWN         | W | 19         | 1P DOWN         | BLUE         |
| WHITE/GREEN   | 2P LEFT         | X | 20         | 1P LEFT         | GREEN        |
| WHITE/YELLOW  | 2P RIGHT        | Y | 21         | 1P RIGHT        | YELLOW       |
| WHITE/ORANGE  | 2P FIRE         | Z | 22         | 1P FIRE         | ORANGE       |
| WHITE/RED     | 2P BOMB         | a | 23         | 1P BOMB         | RED          |
| WHITE/BROWN   | 2P PUSH 3 *     | b | 24         | 1P PUSH 3 *     | BROWN        |
| GREEN/WHITE   | N.C.            | c | 25         | N.C.            | BLUE/WHITE   |
| YELLOW/WHITE  | N.C.            | d | 26         | N.C.            | RED/WHITE    |
| BLACK         | GND             | e | 27         | GND             | BLACK 12     |
| OPTION-BLACK  | GND             | f | 28         | GND             | BLACK-OPTION |

# JAMMA 56 PIN WIRING DIAGRAM



CONTROL PANEL SWITCHES

## CHECKPOINTS IN CASE OF DIFFICULTY PROBLEM / CAUSE-CURE

### No Raster/No Video

- Check A.C. line cord
- Check line fuse
- Check monitor brightness
- Check power switch and/or interlock switch
- Check all solder connections on line filter and transformer
- Check for proper orientation of the PCB connector

### Raster/No Video

- Check all PCB to monitor connections
- Check power supply voltage on PCB

### No Video/Game sounds can be heard

- Check monitor brightness
- Check all PCB to monitor connections

### Wrong colors

- Monitor needs degaussing
- Check for proper wiring between PCB and monitor
- Check monitor adjustment and adjust if necessary

### Wavy picture

- Check monitor ground is properly connected to monitor
- Be certain sync inputs are properly connected to monitor
- Check horizontal hold adjustment

### Horizontal/Vertical Roll

- Check horizontal and/or vertical hold adjustments
- Check for proper wiring of sync from PCB to monitor

### No sound

- Check for - 5 volts on edge connector of PCB
- Check volume control potentiometer adjustment
- Check for +12 volts on edge connector of PCB
- Check wiring from PCB to speaker
- Check speaker for low resistance between the "+" and "-" tabs

### Bad sound

- Check wiring to speaker for bad solder connections
- Check sound with another speaker

### No switch input

- Check ground connection to switch/es
- Check wiring between PCB and switch/es for proper connection
- Check switch/es with an ohmmeter to verify proper operation

### Switch operates incorrect function

- Check wiring between PCB and switches for proper orientation
- Check wiring for shorts between switch inputs

### No coin meter

- Check wiring to coin meter
- Check that +5 volts is on "+" side of meter
- Verify a +5 volt meter is used

### When coin switch is made and meter pulses, the screen blanks out and/or game resets

- Verify that a meter with a diode is used
- If no diode is built in meter a IN4004 can be used across the meter.  
Cathode to "+" side of meter and anode to "-" side of meter