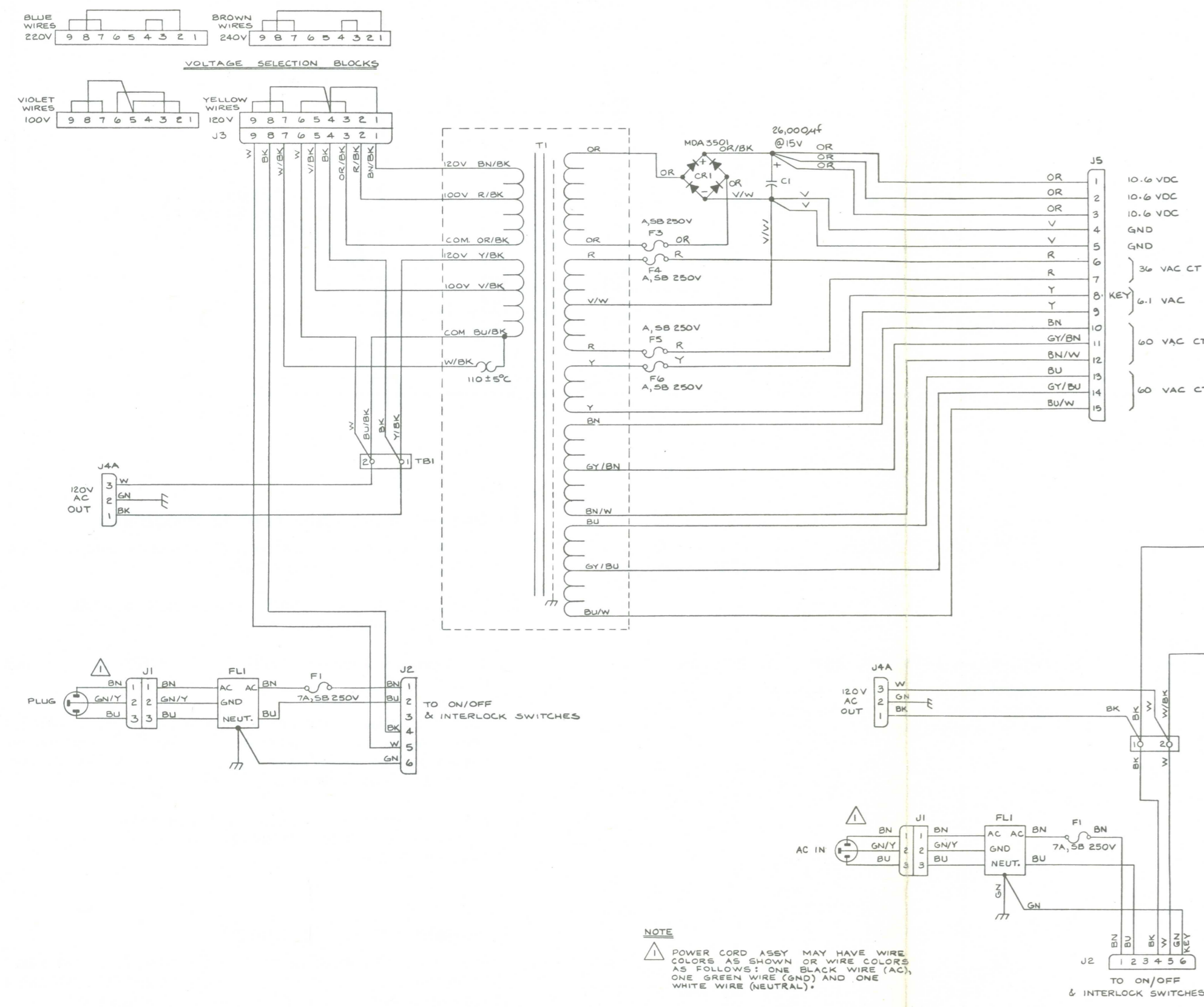
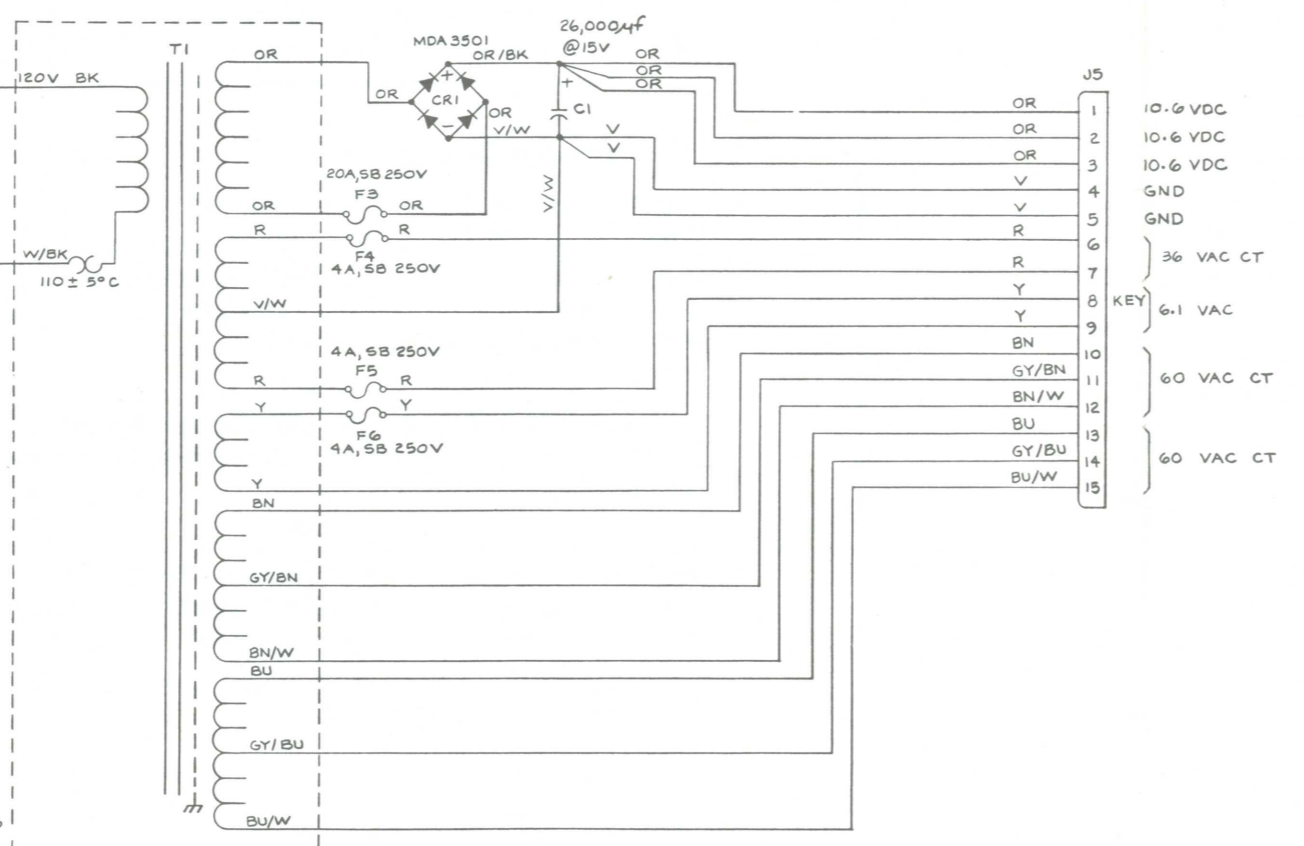


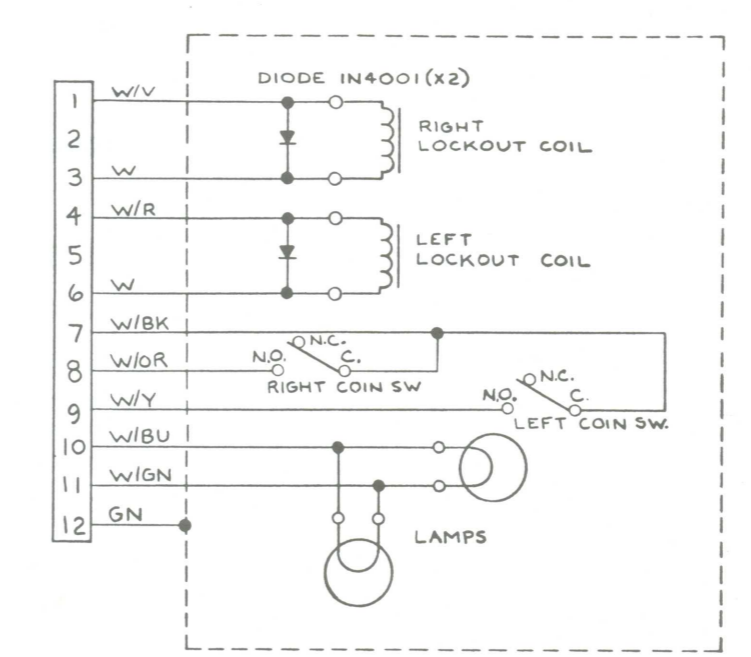
### International Power Supply Schematic (035887-01 A)



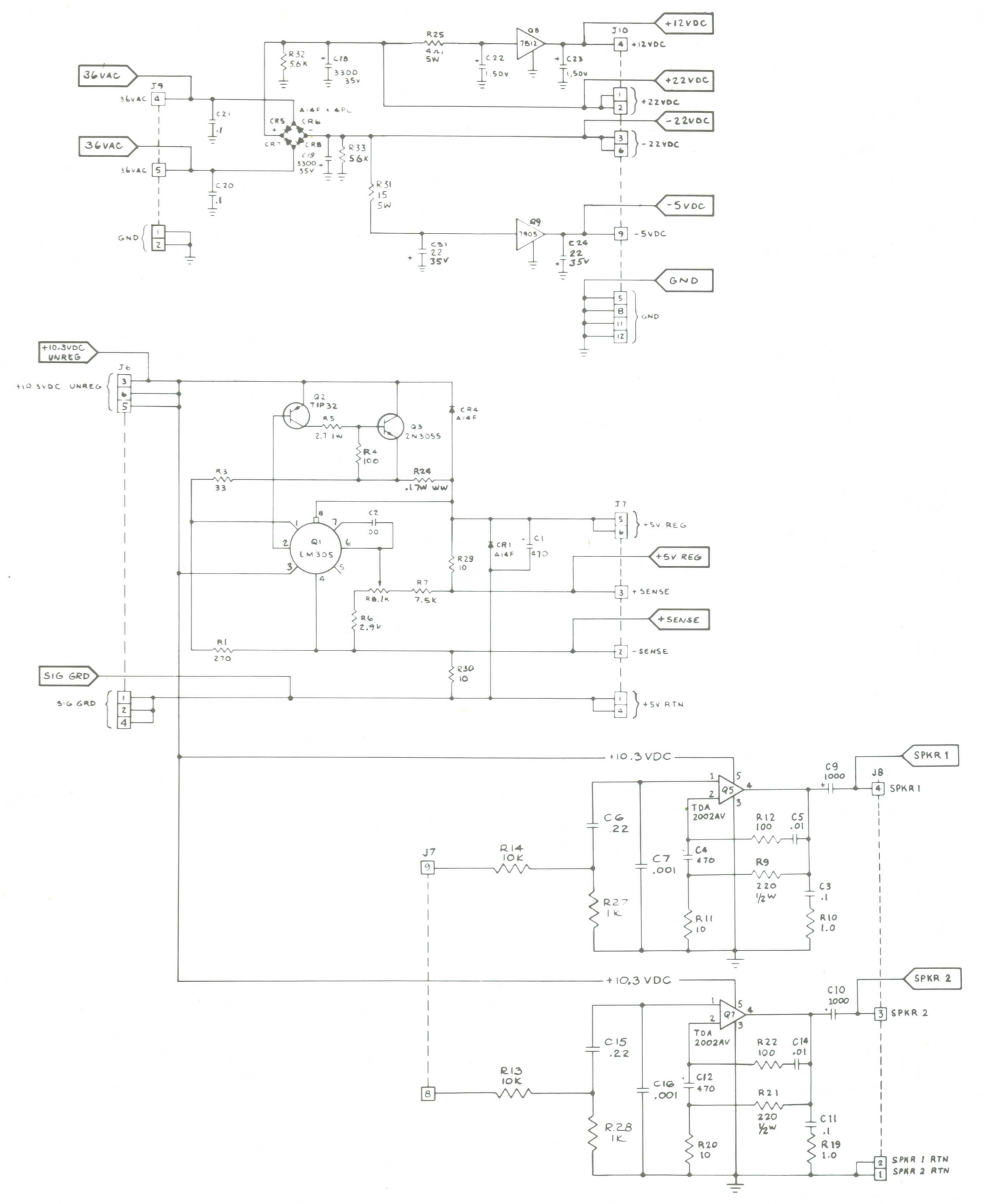
### U.S. Power Supply Schematic (036352-01A)



### Dual Coin Mech Schematic (036597-01 A)



### Regulator Audio II PCB Schematic (035435-02 C)



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Drawing Package Supplement

to

RED BARON™

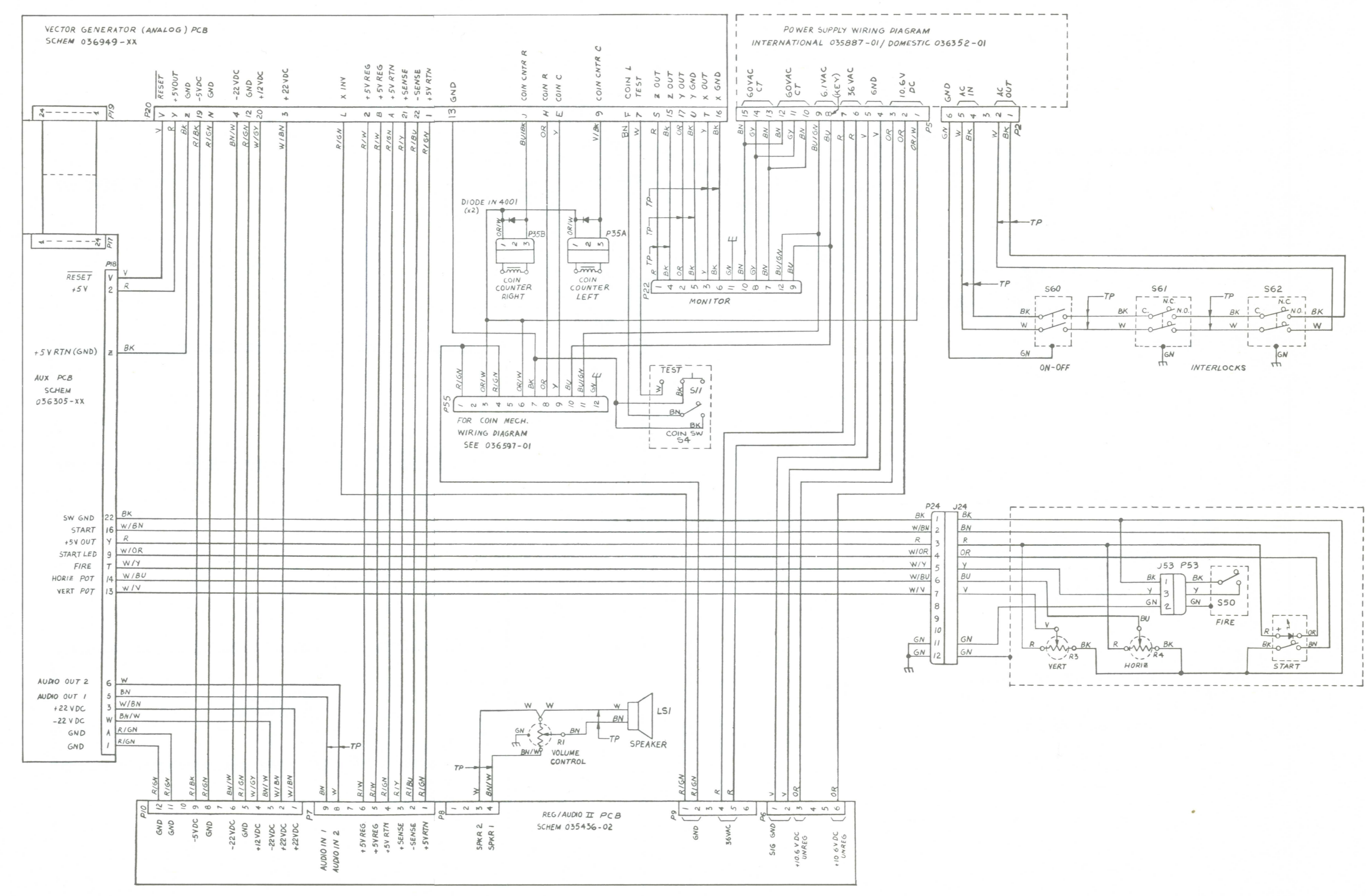
Sit-Down™

Operation, Maintenance and Service Manual

Contents of this Drawing Package

- Game Coin Door and Power Supply Wiring Diagram **Sheet 1, Side A**
- Auxiliary PCB Signature Analysis Procedures **Sheet 1, Side B**
- Microprocessor **Sheet 2, Side A**
- Analog Vector-Generator Coin Door and Switch Inputs, and Video Output **Sheet 2, Side B**
- Analog Vector Generator **Sheet 3, Side A**
- Auxiliary PCB, Control Panel Input, Audio Output and Math Box **Sheet 3, Side B**

### Red Baron Sit Down Wiring Diagram (036991-01 A)



The Regulator/Audio II PCB has the dual functions of regulating the +5 VDC logic power to the game PCB and amplifying the audio from the game PCB.

**Regulator Circuit**  
The regulator consists of voltage regulator Q1, current source power transistor Q3 and Q3's bias transistor Q2. The regulator accurately regulates the logic power input to the game PCB by monitoring the voltage through high-impedance inputs +SENSE and -SENSE. The inputs are directly from the +5 VDC and ground inputs to the game PCB. This eliminates a reduced voltage due to IR buildup on the wire harness between the regulator and the game PCB. Variable resistor R8 is adjusted for the +5 VDC on the game PCB. Once adjusted, the voltage at the input of the game PCB will remain constant at this voltage.

**Regulator Adjustment**

1. Connect a voltmeter between +5 V and GND test points of the game PCB.
2. Adjust variable resistor R8 on the Regulator/Audio II PCB for +5 VDC reading on the voltmeter.
3. Connect a voltmeter between +5 V REG and GND on the Regulator/Audio II PCB. Voltage reading must not be greater than +5.5 VDC. If greater, try cleaning edge connectors on both the game PCB and the Regulator/Audio II PCB.
4. If cleaning PCB edge connectors doesn't decrease voltage difference, connect minus lead of voltmeter to +5 REG test point on Regulator/Audio II PCB and plus lead to +5 V test point on game PCB. From this you can see which harness circuit is dropping the voltage. Troubleshoot the appropriate harness wire or harness connector.

**Audio Circuit**  
The audio circuit contains two independent audio amplifiers. Each amplifier consists of a TDA2020AV amplifier with a gain of ten.

Denotes a test point