

# COILS DETAILED CHART TABLE

| High Current Coils Group 1 |                             | Drive Transistor | Driver Output PCB | Power Line Color        | Power Line Connection | Power Voltage | Drive Transistor Control Line Color | D.T. Control Line Connect | Coil GA-Turn or Bulb Type |
|----------------------------|-----------------------------|------------------|-------------------|-------------------------|-----------------------|---------------|-------------------------------------|---------------------------|---------------------------|
| #1                         | TROUGH UP-KICKER            | Q1               | I/O Power Driver  | YEL-VIO                 | J10-P9/10             | 50VDC         | BRN-BLK                             | J8-P1                     | 28-1200 090-5044-ND       |
| #2                         | AUTO LAUNCH                 | Q2               |                   | YEL-VIO                 | J10-P9/10             | 50VDC         | BRN-RED                             | J8-P3                     | 23-800 090-5001-ND        |
| #3                         | PRISON DOORS ( POWER)       | Q3               |                   | YEL-VIO                 | J10-P9/10             | 50VDC         | BRN-ORG                             | J8-P4                     | DUAL WIND 090-5083-00     |
| #4                         | PRISON DOORS ( HOLD)        | Q4               |                   | YEL-VIO                 | J10-P9/10             | 50VDC         | BRN-YEL                             | J8-P5                     | DUAL WIND 090-5083-00     |
| #5                         | RAMP MAGNET DIVERTER        | Q5               |                   | YEL-VIO                 | J10-P9/10             | 50VDC         | BRN-GRN                             | J8-P6                     | 31-1500 090-5045-ND       |
| #6                         | WELL MAGNET                 | Q6               |                   | VIO-YEL                 | J10-P8                | 50VDC         | BRN-BLU                             | J8-P7                     | 22-850 511-5065-ND        |
| #7                         | PRISON MAGNET               | Q7               |                   | VIO/YEL                 | J10-P8                | 50VDC         | BRN-VIO                             | J8-P8                     | 22-850 511-5065-ND        |
| #8                         | SHAKER MOTOR (OPTIONAL)     | Q8               |                   | RED-WHT                 | J17-P7                | 16VAC         | BRN-GRY                             | J8-P9                     | 502-5027-00               |
| High Current Coils Group 2 |                             | Drive Transistor | Driver Output PCB | Power Line Color        | Power Line Connection | Power Voltage | Drive Transistor Control Line Color | D.T. Control Line Connect | Coil GA-Turn or Bulb Type |
| #9                         | LEFT POP BUMPER             | Q9               | I/O Power Driver  | YEL-VIO                 | J10-P9/10             | 50VDC         | BLU-BRN                             | J9-P1                     | 28-1200 090-5044-ND       |
| #10                        | RIGHT POP BUMPER            | Q10              |                   | YEL-VIO                 | J10-P9/10             | 50VDC         | BLU-RED                             | J9-P2                     | 28-1200 090-5044-ND       |
| #11                        | TOP POP BUMPER              | Q11              |                   | YEL-VIO                 | J10-P9/10             | 50VDC         | BLU-ORG                             | J9-P4                     | 28-1200 090-5044-ND       |
| #12                        | LEFT 3- BANK DROP TARGET    | Q12              |                   | YEL-VIO                 | J10-P9/10             | 50VDC         | BLU-YEL                             | J9-P5                     | 25-1240 090-5034-ND       |
| #13                        | LEFT SLINGSHOT              | Q13              |                   | YEL/VIO                 | J10-P9/10             | 50VDC         | BLU-GRN                             | J9-P6                     | 28-1200 090-5044-ND       |
| #14                        | RIGHT SLINGSHOT             | Q14              |                   | YEL/VIO                 | J10-P9/10             | 50VDC         | BLU-BLU                             | J9-P7                     | 28-1200 090-5044-ND       |
| #15                        | LEFT FLIPPER (50V RED/YEL)  | Q15              |                   | GRY-YEL-3A Fuse-RED-YEL | J10-P6/7              | 50VDC         | ORG-GRY                             | J9-P8                     | 22-1080 090-5032-ND       |
| #16                        | RIGHT FLIPPER (50V RED/YEL) | Q16              |                   | BLU-YEL-3A Fuse-RED-YEL | J10-P6/7              | 50VDC         | ORG-VIO                             | J9-P9                     | 22-1080 090-5032-ND       |
| Low Current Coils Group 1  |                             | Drive Transistor | Driver Output PCB | Power Line Color        | Power Line Connection | Power Voltage | Drive Transistor Control Line Color | D.T. Control Line Connect | Coil GA-Turn or Bulb Type |
| #17                        |                             | Q17              | I/O Power Driver  |                         |                       |               | VIO-BRN                             | J7-P2                     |                           |
| #18                        |                             | Q18              |                   |                         |                       |               | VIO-RED                             | J7-P3                     |                           |
| #19                        | FLASH: WELL WALKER          | Q19              |                   | ORG                     | J6-P10                | 20VDC         | VIO-ORG                             | J7-P4                     | LED 113-5034-02           |
| #20                        | FLASH: RIGHT SPINNER        | Q20              |                   | ORG                     | J6-P10                | 20VDC         | VIO-YEL                             | J7-P6                     | LED 113-5034-08           |
| #21                        | CROSSBOW MOTOR              | Q21              |                   | BRN                     | J7-P1                 | 20VDC         | VIO-GRN                             | J7-P7                     | MOTOR 041-5081-00         |
| #22                        |                             | Q22              |                   |                         |                       |               | VIO-BLU                             | J7-P8                     |                           |
| #23                        |                             | Q23              |                   |                         |                       |               | VIO-BLK                             | J7-P9                     |                           |
| #24                        | OPTIONAL (e.g. COIN METER)  | Q24              |                   | RED                     | J16-P4-8              | 5VDC          | VIO-GRY                             | J7-P10                    | COIN METER                |
| Low Current Coils Group 2  |                             | Drive Transistor | Driver Output PCB | Power Line Color        | Power Line Connection | Power Voltage | Drive Transistor Control Line Color | D.T. Control Line Connect | Coil GA-Turn or Bulb Type |
| #25                        | FLASH: POP BUMPERS          | Q25              | I/O Power Driver  | ORG                     | J6-P10                | 20VDC         | BLK-BRN                             | J6-P1                     | LED 113-5034-08           |
| #26                        | FLASH: PRISON (TOP)         | Q26              |                   | ORG                     | J6-P10                | 20VDC         | BLK-RED                             | J6-P2                     | LED 113-5034-08           |
| #27                        | FLASH: PRISON (BOTTOM) (X2) | Q27              |                   | ORG                     | J6-P10                | 20VDC         | BLK-ORG                             | J6-P3                     | LED 112-5044-02           |
| #28                        | FLASH: LEFT DOME            | Q28              |                   | ORG                     | J6-P10                | 20VDC         | BLK-YEL                             | J6-P4                     | LED 113-5034-08           |
| #29                        | FLASH: RIGHT DOME           | Q29              |                   | ORG                     | J6-P10                | 20VDC         | BLK-GRN                             | J6-P5                     | LED 113-5034-08           |
| #30                        |                             | Q30              |                   |                         |                       |               | BLK-BLU                             | J6-P6                     |                           |
| #31                        | FLASH: LEFT LOOP            | Q31              |                   | ORG                     | J6-P10                | 20VDC         | BLK-VIO                             | J6-P7                     | LED 113-5034-08           |
| #32                        | FLASH: CENTER LOOP          | Q32              |                   | ORG                     | J6-P10                | 20VDC         | BLK-GRY                             | J6-P8                     | LED 113-5034-08           |

# Backbox I/O Power Driver Board

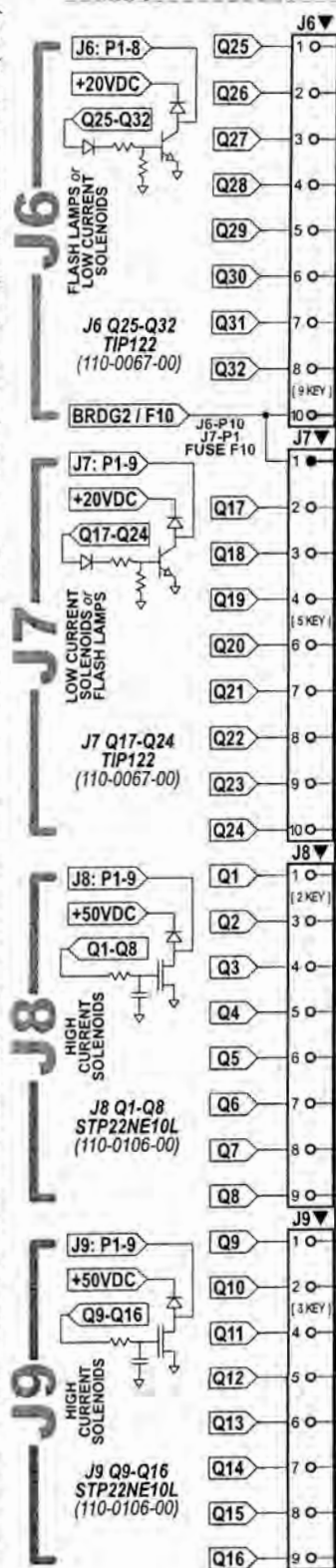
(Coils Q1-Q32)

## Detailed Wiring Diagram

Partial View (520-5249-00)

ALL FUSES RATED 250V SLO-BLO  
I/O FUSE CHART INFO IN BACKBOX & PAGE DR. 1

For complete and detailed schematics of the Connectors, Coils, Flash Lamps, Bridges and Fuses noted below, see the I/O Power Driver PCB (Sheets 1 & 2 of 4) in Section 5, Chapter 4, Printed Circuit Boards (PCBs).



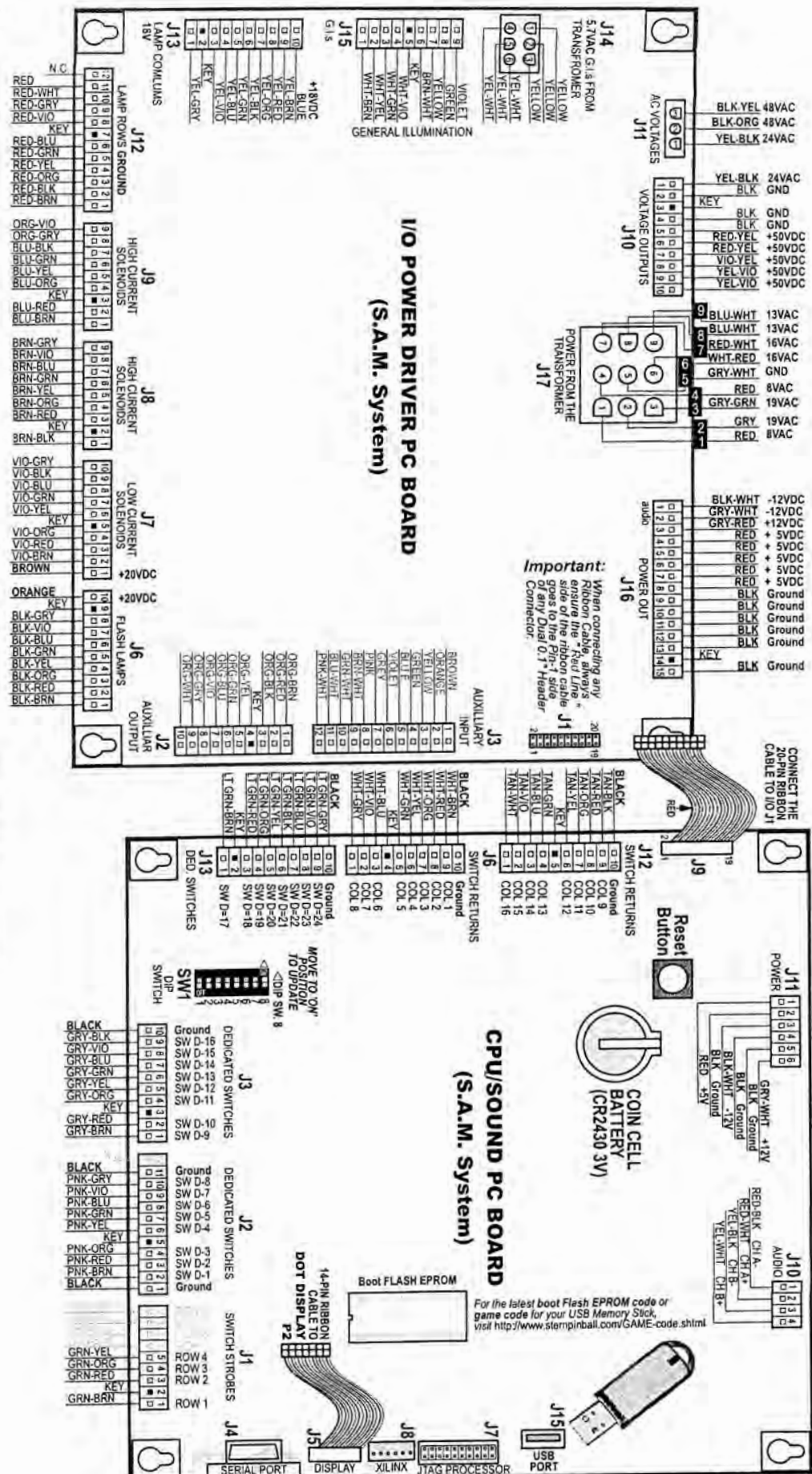
Note:  
Coil Diodes (1N4004) are integrated  
on the I/O Power Driver PC Board.

#33 - #35 Note: If this game is equipped with  
an optional Ticket Dispenser & Meter, see the  
end of Sec. 5, Chapter 4 for wiring information.  
Ensure Std. Adj. 56, Ticket Dispenser = YES.

Backbox  
Wiring



# Backbox Board Layout Wirina Diaqram



Backbox  
Wiring