THIS CONFIGURATION FOR 115V

FOR LOWER LINE VOLTAGES
OR 230 VOLT OPERATION
SEE SAMPLES BELOW

JUMPERS FOR VOLTAGE VARIATION

230/218/206VOLTS
1F1 + 4A SLO BLO
1V1  + 275V VARISTOR

100/105 VOLTS
1F1 + 8A SLO BLO
1V1 + 130V VARISTOR
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*Indicates Speaker or Backbox Lamp

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**CPU BOARD**

**G.I. LAMPS**

4M/F6

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**Playfield Lamp Wiring Diagram**

51
1. RESISTOR VALUES ARE IN OHMS, 1/8 WATT, 5%.

2. RESISTOR VALUES ARE IN OHMS 1/8 WATT, 5%

NOTES UNLESS OTHERWISE SPECIFIED.

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WORKING MATERIALS AND TOOLS

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NOTE:
- ALL RESISTOR VALUES ARE IN OHMS, 1/4W, 5% UNLESS OTHERWISE SPECIFIED.
- ALL CAPACITOR VALUES ARE IN MICROFARADS, UNLESS OTHERWISE SPECIFIED.
Theory of Operation for the Solid State Flippers

- The solid state flipper board is a dual flipper solenoid driver circuit. Each solenoid driver circuit contains a one shot timer, a 50V driver, and an 8V driver.

Looking at one circuit, Schmidt NAND gates U1A, U1B, and U1D make up the one shot timer. The timer length is controlled by R10, R33, and C2. The output of the timer is gated at U1C with the buffered switch input from Q6. The output of U1C controls the 50V driver circuit consisting of Q4, Q1, Q2, Q3, and D1. As long as the flipper button is activated, Q6 will keep the 8V driver circuit, SR1, on.

The 50V provides the actuation power to the flipper solenoid while the 8V provides the holding power.

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**Solid State Flippers PCB Wiring Diagram**

**Connector CN 1**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Goes To</th>
<th>Wire Color</th>
<th>It Is</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rgt. Flipper Sw.</td>
<td>BLU-VIO</td>
<td>RGT. FLIP ENABLE</td>
</tr>
<tr>
<td>2</td>
<td>CPU CN10-1</td>
<td>WHT-GRY</td>
<td>KEY</td>
</tr>
<tr>
<td>3</td>
<td>CPU CHW-2</td>
<td>GRN-BRD</td>
<td>SW, DRV 2</td>
</tr>
<tr>
<td>4</td>
<td>CPU CHW-3</td>
<td>WHT-VIO</td>
<td>SW, DRV 2</td>
</tr>
<tr>
<td>5</td>
<td>CPU CHN-7</td>
<td>BLK</td>
<td>GND</td>
</tr>
<tr>
<td>6</td>
<td>CPU CHN-9</td>
<td>BLK</td>
<td>GND</td>
</tr>
<tr>
<td>7</td>
<td>Lft. Flipper Sw.</td>
<td>BLU-VIO</td>
<td>LFT. FLIP ENABLE</td>
</tr>
</tbody>
</table>

**Connector CN 2**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Goes To</th>
<th>Wire Color</th>
<th>It Is</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lft. Flipper Coi</td>
<td>GRY-VIO</td>
<td>LFT FLIP POWER</td>
</tr>
<tr>
<td>2</td>
<td>Rgt. Flipper Coi</td>
<td>BLU-VIO</td>
<td>RGT FLIP POWER</td>
</tr>
<tr>
<td>3</td>
<td>PS CN1-9</td>
<td>WHT</td>
<td>9 VAC</td>
</tr>
<tr>
<td>4</td>
<td>PS CN1-10</td>
<td>GRY</td>
<td>9 VAC</td>
</tr>
<tr>
<td>5</td>
<td>PPB J7-1</td>
<td>BLK-WHT</td>
<td>50 VAC</td>
</tr>
<tr>
<td>6</td>
<td>PPB J7-5</td>
<td>BLK-WHT</td>
<td>50 VAC</td>
</tr>
</tbody>
</table>

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2. Such products are properly packaged and then returned freight prepaid, to Seller's plant.

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