ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION
(CONTROL VIEWED FROM SHAFT END)

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION
1. DC voltage measurements taken with vacuum tube voltmeter;
   AC voltages measured at 1000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a
   variation of +15% in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage
   measurements.

RESISTANCE READINGS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>TUBE</th>
<th>Pin 1</th>
<th>Pin 2</th>
<th>Pin 3</th>
<th>Pin 4</th>
<th>Pin 5</th>
<th>Pin 6</th>
<th>Pin 7</th>
<th>Pin 8</th>
<th>Pin 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>V1</td>
<td>12AX7</td>
<td>320K</td>
<td>1M</td>
<td>10K</td>
<td>120K</td>
<td>130K</td>
<td>150K</td>
<td>150K</td>
<td>1.5K</td>
<td></td>
</tr>
<tr>
<td>V2</td>
<td>12AX7</td>
<td>1M</td>
<td>120K</td>
<td>10K</td>
<td>120K</td>
<td>130K</td>
<td>150K</td>
<td>150K</td>
<td>1.5K</td>
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<tr>
<td>V3</td>
<td>6V6GT</td>
<td>NC</td>
<td>10K</td>
<td>1K</td>
<td>1K</td>
<td>10K</td>
<td>10K</td>
<td>10K</td>
<td>500K</td>
<td></td>
</tr>
<tr>
<td>V4</td>
<td>6V6GT</td>
<td>NC</td>
<td>10K</td>
<td>1K</td>
<td>1K</td>
<td>10K</td>
<td>10K</td>
<td>10K</td>
<td>500K</td>
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<tr>
<td>V5</td>
<td>6AX5GT</td>
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<td>1K</td>
<td>1K</td>
<td>10K</td>
<td>10K</td>
<td>10K</td>
<td>500K</td>
<td></td>
</tr>
</tbody>
</table>

* MEASURED FROM PIN 8 OF VS
NC NO CONNECTION

A PHOTOFACHT STANDARD NOTATION SCHEMATIC
Howard W. Sams & Co., Inc. 1958
Carolina Blues Special

V1 12AX7 pin1 153v pin2 153v
V2 12AX7 pin1 300v pin6 192v
V3 12AX7 pin1 176v pin6 225v
V4 6V6 pin3 423v pin4 406v
V5 6V6 pin3 423v pin4 406v

29.7v across 430 ohm resistor = 34.5ma

Bogen CHA-20 PT wiring
1) white and red wire - on/off
3) black wire - on/off
2) blue wire - rectifier plate
4) yellow rectifiers heater
5) orange wire - rectifier plate heater
6) ground 71 ground 81 open 10) open