Tubes in the ARC 51 BX  

11 tubes of 6 different types

**Receiver and local oscillator**

1. **6205 Sharp cutoff pentode** (= 6AK5 with separate g3)
2. **6299 low-noise triode** amplifier usable up to 3GHz (do not connect getter ring)
3. **7554 cermet pencil triode** was intended as power amplifier up to 5GHz; 2.5W at 2.5GHz
4. **7077 cermet planar low-noise triode** usable up to 7.5GHz.

**Transmitter tubes**

5. **6442 rugged ceramic triode** usable up to 5GHz; 2KW peak out at 3.5GHz.
6. **6884 output tetrode** capable of operation up to 2GHz; 115W Pa
   similar to the 6816 but has 26.5V heater

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<tr>
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<th>V1</th>
<th>V2</th>
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<th>V4</th>
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<tbody>
<tr>
<td>UHF receiver preamplifier</td>
<td>6205</td>
<td>6299</td>
<td>7554</td>
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<tr>
<td>Harmonics Generator</td>
<td>7077</td>
<td>7077</td>
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<tr>
<td>Power amplifier</td>
<td>7554</td>
<td>6205</td>
<td>6442</td>
<td>6884</td>
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These 3 (UHF) modules have no transistors. Total 11 tubes of 6 different types
The other 6 modules have only transistors, no tubes.
Heaters: **6205**: 0.15A; **6299**: 0.3A; **7077**: 0.24A; **7554**: 0.225A; **6442**: 0.9A, all at 6.3V, and 0.52A at 26.5V for the **6884**.