

## RCA RECEIVING TUBE TYPES- Supplementary Listing

| RCA<br>TYPE             | DIMENSIONS<br>AND<br>TERMINAL<br>DIAGRAM |                    | HEATER              |                     | U<br>N<br>I<br>T | MAXIMUM RATINGS     |                      |                       |                      |                          |                     | CHARACTERISTICS |                          |                          |                      |                      |
|-------------------------|--|--------------------|---------------------|---------------------|------------------|---------------------|----------------------|-----------------------|----------------------|--------------------------|---------------------|-----------------|--------------------------|--------------------------|----------------------|----------------------|
|                         | DIM.                                     | T.D.               | E <sub>f</sub><br>V | I <sub>f</sub><br>A |                  | P <sub>b</sub><br>W | e <sub>bm</sub><br>V | i <sub>bm</sub><br>mA | I <sub>b</sub><br>mA | I <sub>b(av)</sub><br>mA | P <sub>o</sub><br>W | μ               | g <sub>m</sub>           |                          | Cutoff               |                      |
|                         |  |                    |                     |                     |                  |                     |                      |                       |                      |                          |                     |                 | g <sub>1-p</sub><br>μmho | g <sub>3-p</sub><br>μmho | E <sub>c1</sub><br>V | E <sub>c3</sub><br>V |
| □*1AY2<br>b             | K8                                       | 2-terminal<br>base | 1.25F               | 0.2                 | —                | 26000               | 50                   | —                     | 0.5                  | —                        | —                   | —               | —                        | —                        | —                    | —                    |
| ■ 1AY2A<br>b            | K8                                       | 2-terminal<br>base | 1.25F<br>1.45●      | 0.2                 | —                | 26000●              | 50                   | —                     | 0.5                  | —                        | —                   | —               | —                        | —                        | —                    | —                    |
| □*1BC2<br>b             | B15                                      | 9RG                | 1.25F               | 0.2                 | —                | 18000               | 45                   | —                     | 0.5                  | —                        | —                   | —               | —                        | —                        | —                    | —                    |
| ■ 1BC2A<br>b            | B15                                      | 9RG                | 1.25F<br>1.45F●     | 0.2                 | —                | 18000●              | 45                   | —                     | 0.5                  | —                        | —                   | —               | —                        | —                        | —                    | —                    |
| □*1BH2<br>b             | B17                                      | 9RG**              | 1.25F               | 0.2                 | —                | 18000●              | 45                   | —                     | 0.5                  | —                        | —                   | —               | —                        | —                        | —                    | —                    |
| ■ 1BY2A<br>b            | L14                                      | 12HZ               | 1.25F<br>1.45F●     | 0.2                 | —                | 26000●              | 50                   | —                     | 0.5                  | —                        | —                   | —               | —                        | —                        | —                    | —                    |
| ■ 1DG3<br>b             | F50                                      | 8ND                | 1.25F<br>1.45F●     | 0.2                 | —                | 26000●              | 50                   | —                     | 0.5                  | —                        | —                   | —               | —                        | —                        | —                    | —                    |
| ■ 1G3GTAb<br>F45        | F45                                      | 3C                 | 1.25F<br>1.45F●     | 0.2                 | —                | 26000●              | 50                   | —                     | 0.5                  | —                        | —                   | —               | —                        | —                        | —                    | —                    |
| ■ 1G3GTA/<br>1B3GT<br>b | F45                                      | 3C                 | 1.25F<br>1.45F●     | 0.2                 | —                | 26000●              | 50                   | —                     | 0.5                  | —                        | —                   | —               | —                        | —                        | —                    | —                    |

NOTE: For key to symbols, footnotes & abbreviations see end of this section.

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|-----------------------|--|------|-----------------------------|---------------------|------------------|---------------------|----------------------|-----------------------|----------------------|--------------------------|---------------------|-----------------|--------------------------|--------------------------|----------------------|----------------------|---|
|                       | DIM.                                     | T.D. | E <sub>f</sub><br>V         | I <sub>f</sub><br>A |                  | P <sub>b</sub><br>W | e <sub>bm</sub><br>V | i <sub>bm</sub><br>mA | I <sub>b</sub><br>mA | I <sub>b(av)</sub><br>mA | P <sub>o</sub><br>W | μ               | g <sub>m</sub>           |                          | Cutoff               |                      |   |
|                       |  |      |                             |                     |                  |                     |                      |                       |                      |                          |                     |                 | g <sub>1-p</sub><br>μmho | g <sub>3-p</sub><br>μmho | E <sub>c1</sub><br>V | E <sub>c3</sub><br>V |   |
| ■ 1K3A<br>b           | F45                                      | 3C   | 1.25F<br>1.45F <sup>•</sup> | 0.2                 | D                | —                   | 50                   | —                     | 0.5                  | —                        | —                   | —               | —                        | —                        | —                    | —                    | — |
| ■ 1K3A/<br>1J3<br>b   | F45                                      | 3C   | 1.25F<br>1.45 <sup>•</sup>  | 0.2                 | D                | —                   | 50                   | —                     | 0.5                  | —                        | —                   | —               | —                        | —                        | —                    | —                    | — |
| □ *1S2A/<br>DY87<br>b | B16                                      | 9DT  | 1.4<br>1.5 <sup>•</sup>     | 0.55                | D                | —                   | 40                   | —                     | 0.8                  | —                        | —                   | —               | —                        | —                        | —                    | —                    | — |
| ■ 1X2C<br>b           | B8                                       | 9Y   | 1.25F<br>1.45F <sup>•</sup> | 0.2                 | D                | —                   | 45                   | —                     | 0.5                  | —                        | —                   | —               | —                        | —                        | —                    | —                    | — |
| 2AF4B/<br>2DZ4<br>d   | A1                                       | 7DK  | 2.35 <sup>▲</sup>           | 0.6                 | T                | 25                  | —                    | —                     | -24                  | —                        | 13.5                | 6500            | —                        | —                        | —                    | —                    | — |
| ■ 2AS2A<br>b          | L6                                       | 12EW | 2.5<br>2.9 <sup>•</sup>     | 0.33                | D                | —                   | 90                   | —                     | 1.7                  | —                        | —                   | —               | —                        | —                        | —                    | —                    | — |
| 2BN4A<br>d            | A2                                       | 7EG  | 2.35 <sup>▲</sup>           | 0.6                 | T                | 2.2                 | —                    | -22                   | —                    | —                        | 43                  | 7700            | —                        | -6                       | —                    | —                    | — |
| ■ 2BU2/<br>2AH2<br>b  | L6                                       | 12JB | 2.5<br>2.9 <sup>•</sup>     | 0.33                | D                | —                   | 80                   | —                     | 1.5                  | —                        | —                   | —               | —                        | —                        | —                    | —                    | — |

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|-----------------|--|-------|---------------------|---------------------|------------------|---------------------|----------------------|-----------------------|----------------------|--------------------------|---------------------|-----------------|----------------|----------------|----------------------|----------------------|
|                 | DIM.                                     | T. D. | E <sub>f</sub><br>V | I <sub>f</sub><br>A |                  | P <sub>b</sub><br>W | e <sub>bm</sub><br>V | i <sub>bm</sub><br>mA | I <sub>b</sub><br>mA | I <sub>b(av)</sub><br>mA | P <sub>o</sub><br>W | μ               | g <sub>m</sub> |                | Cutoff               |                      |
|                 |  |       |                     |                     |                  |                     |                      |                       |                      |                          |                     |                 | 91 - p<br>μmho | 93 - p<br>μmho | E <sub>c1</sub><br>V | E <sub>c3</sub><br>V |
| 2EG4 e          | D1                                       | 12AQ  | 1.7 <sup>▲</sup>    | 0.6                 | 1.5              | —                   | —                    | —                     | —                    | —                        | 68                  | 12500           | —              | —              | —                    | —                    |
| 2HO5 e          | A2                                       | 7GM   | 2.4 <sup>▲</sup>    | 0.6                 | 2.5              | —                   | —                    | —                     | —                    | —                        | 78                  | 15000           | —              | —              | —                    | —                    |
| ■ 3A3B b        | F49                                      | 8EZ   | 3.15                | 0.22                | —                | 30000 <sup>●</sup>  | 100                  | —                     | 2.0                  | —                        | —                   | —               | —              | —              | —                    | —                    |
| ■ 3A3C b        | F46                                      | 8EZ   | 3.65 <sup>●</sup>   | 0.22                | —                | 38000 <sup>●</sup>  | 100                  | —                     | 2.0                  | —                        | —                   | —               | —              | —              | —                    | —                    |
| ■ 3AT2B b       | L20                                      | 12FV  | 3.15                | 0.22                | —                | 38000 <sup>●</sup>  | 88                   | —                     | 1.7                  | —                        | —                   | —               | —              | —              | —                    | —                    |
| ■ 3AW2A b       | L6                                       | 12HA  | 3.15                | 0.35                | —                | 38000 <sup>●</sup>  | 110                  | —                     | 2.2                  | —                        | —                   | —               | —              | —              | —                    | —                    |
| 3BC5/<br>3CE5 k | A2                                       | 7BD   | 3.15 <sup>▲</sup>   | 0.6                 | 2                | —                   | —                    | —                     | —                    | —                        | —                   | 6100            | —              | —              | —                    | —                    |
| ■ 3BN2A b       | L6                                       | 12FV  | 3.15                | 0.3                 | —                | 30000 <sup>●</sup>  | 88                   | —                     | 1.7                  | —                        | —                   | —               | —              | —              | —                    | —                    |
|                 |  |       | 3.47 <sup>●</sup>   |                     |                  |                     |                      |                       |                      |                          |                     |                 |                |                |                      |                      |

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|-----------------------------|--|------------------|---------------------------|---------------------|------------------|---------------------|----------------------|-----------------------|----------------------|--------------------------|---------------------|-----------------|--------------------------|--------------------------|----------------------|----------------------|
|                             | DIM.                                     | T.D.             | E <sub>f</sub><br>V       | I <sub>f</sub><br>A |                  | P <sub>b</sub><br>W | e <sub>bm</sub><br>V | i <sub>bm</sub><br>mA | I <sub>b</sub><br>mA | I <sub>b(av)</sub><br>mA | P <sub>o</sub><br>W | μ               | g <sub>m</sub>           |                          | Cutoff               |                      |
|                             |  |                  |                           |                     |                  |                     |                      |                       |                      |                          |                     |                 | g <sub>1-p</sub><br>μmho | g <sub>3-p</sub><br>μmho | E <sub>c1</sub><br>V | E <sub>c3</sub><br>V |
| ■ 3BW2/<br>3BS2A/<br>3BT2 b | L6                                       | 12HY             | 3.15<br>3.65 <sup>•</sup> | 0.48                | -                | 38000 <sup>•</sup>  | 110                  | -                     | 2.2                  | -                        | -                   | -               | -                        | -                        | -                    | -                    |
| ■ 3BY6 u                    | A2                                       | 7CH <sup>♦</sup> | 3.15 <sup>▲</sup>         | 0.6                 | 2.3              | -                   | -                    | -                     | -                    | -                        | -                   | 1900            | 500                      | -12                      | -15                  | -                    |
| ■ 3BZ6 j                    | A2                                       | 7CM              | 3.15 <sup>▲</sup>         | 0.6                 | 2.3              | -                   | -                    | -                     | -                    | -                        | -                   | 8000            | -                        | -19                      | -                    | -                    |
| □ * 3CA3 b                  | F21                                      | 8MH              | 3.6                       | 0.225               | -                | 30000               | 100                  | 2.0                   | -                    | -                        | -                   | -               | -                        | -                        | -                    | -                    |
| ■ 3CN3B b                   | F47                                      | 8MU              | 3.15<br>3.65 <sup>•</sup> | 0.48                | -                | 38000 <sup>•</sup>  | 110                  | 2.2                   | -                    | -                        | -                   | -               | -                        | -                        | -                    | -                    |
| 3CB6/<br>3CF6 k             | A2                                       | 7CM              | 3.15 <sup>▲</sup>         | 0.6                 | 2.3              | -                   | -                    | -                     | -                    | -                        | -                   | 8000            | -                        | -6.5                     | -                    | -                    |
| □ * 3CX3 b                  | F16                                      | 8MT              | 3.15 <sup>▲</sup>         | 0.48                | -                | 38000 <sup>•</sup>  | 110                  | 2.2                   | -                    | -                        | -                   | -               | -                        | -                        | -                    | -                    |
| ■ 3DB3/<br>3CY3 b           | F48                                      | 8MX              | 3.15<br>3.65 <sup>•</sup> | 0.245               | -                | 38000 <sup>•</sup>  | 100                  | 2.0                   | -                    | -                        | -                   | -               | -                        | -                        | -                    | -                    |
| ■ 3DC3 b                    | F49                                      | 8MZ              | 3.15<br>3.65 <sup>•</sup> | 0.28                | -                | 38000 <sup>•</sup>  | 110                  | 2.2                   | -                    | -                        | -                   | -               | -                        | -                        | -                    | -                    |
| 3HQ5 e                      | A2                                       | 7GM              | 3.0 <sup>▲</sup>          | 0.45                | 2.5              | -                   | -                    | -22                   | -                    | -                        | 78                  | 15000           | -                        | -2                       | -                    | -                    |

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|------------------------------|--|------|---------------------|---------------------|------------------|---------------------|----------------------|-----------------------|----------------------|--------------------------|---------------------|-----------------|--------------------------|--------------------------|----------------------|----------------------|
|                              | DIM.                                     | T.D. | E <sub>f</sub><br>V | I <sub>f</sub><br>A |                  | P <sub>b</sub><br>W | e <sub>bm</sub><br>V | i <sub>bm</sub><br>mA | I <sub>b</sub><br>mA | I <sub>b(av)</sub><br>mA | P <sub>o</sub><br>W | μ               | g <sub>m</sub>           |                          | Cutoff               |                      |
|                              |  |      |                     |                     |                  |                     |                      |                       |                      |                          |                     |                 | g <sub>1-p</sub><br>μmho | g <sub>3-p</sub><br>μmho | E <sub>c1</sub><br>V | E <sub>c3</sub><br>V |
| 4GJ7/<br>XCF801 <sup>t</sup> | B14                                      | 9QA  | 4.1                 | 0.6                 | 1.8              | -                   | -                    | -                     | -                    | -                        | 20                  | 9000            | -                        | -1.3<br>max.             | -                    |                      |
| 4GK5 e                       | A2                                       | 7FP  | 4 <sup>▲</sup>      | 0.3                 | 2.4              | -                   | -                    | -                     | -                    | -                        | 55<br>approx.       | 11000           | -                        | -1.3<br>max.             | -                    |                      |
| 4HQ5 e                       | A2                                       | 7GM  | 4.2 <sup>▲</sup>    | 0.3                 | 2.5              | -                   | -                    | 2.2                   | -22                  | -                        | 78                  | 15000           | -                        | 4.2                      | -                    |                      |
| 4JH6 j                       | A2                                       | 7CM  | 4.2 <sup>▲</sup>    | 0.45                | 2.3              | -                   | -                    | -                     | -                    | -                        | 78                  | 15000           | -                        | 4.2                      | -                    |                      |
| 6AD10 r                      | L3                                       | 12EZ | 6.3                 | 1.05                | 1.7              | -                   | -                    | -                     | -                    | -                        | -                   | 8000            | -                        | -19                      | -                    |                      |
| 6AV11 9                      | L1                                       | 12BY | 6.3 <sup>▲</sup>    | 0.6                 | 10               | -                   | -                    | -                     | -                    | 4.2                      | -                   | 3400            | 600                      | 4.5                      | -7                   |                      |
|                              |  |      |                     |                     | 2.75             | -                   | -                    | -                     | -20                  | -                        | 17                  | 2200            | -                        | -24                      | -                    |                      |
|                              |  |      |                     |                     | 2.75             | -                   | -                    | -                     | -20                  | -                        | 17                  | 2200            | -                        | -24                      | -                    |                      |
|                              |  |      |                     |                     | 2.75             | -                   | -                    | -                     | -20                  | -                        | 17                  | 2200            | -                        | -24                      | -                    |                      |

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|---|--|------------|-------------------------|---------------------|------------------|---------------------|----------------------|-----------------------|----------------------|--------------------------|---------------------|-----------------|--------------------------|--------------------------|----------------------|----------------------|
|   | DIM.                                     | T. D.      | E <sub>f</sub><br>V     | I <sub>f</sub><br>A |                  | P <sub>b</sub><br>W | e <sub>bm</sub><br>V | i <sub>bm</sub><br>mA | I <sub>b</sub><br>mA | I <sub>b(av)</sub><br>mA | P <sub>o</sub><br>W | μ               | g <sub>m</sub>           |                          | Cutoff               |                      |
|   |  |            |                         |                     |                  |                     |                      |                       |                      |                          |                     |                 | g <sub>1-p</sub><br>μmho | g <sub>3-p</sub><br>μmho | E <sub>c1</sub><br>V | E <sub>c3</sub><br>V |
| ■ 6BK4C/<br>6EL4A <sup>c</sup>                    | F35                                      | 8GC        | 6.3<br>6.9 <sup>•</sup> | 0.2                 | 40 <sup>•</sup>  |                     |                      |                       |                      |                          |                     |                 |                          |                          |                      |                      |
| 6BV11 <sup>m</sup><br>6DM4A/<br>6DA4 <sup>a</sup> | L3                                       | 12HB       | 6.3                     | 0.9                 | 1.7              |                     |                      |                       |                      |                          | 3700                | 400             | 3                        |                          |                      | -5.5                 |
| ■ 6EH4A <sup>c</sup><br>■ 6EJ4A <sup>c</sup>      | F16                                      | 4CG        | 6.3                     | 1.2                 | 40 <sup>•</sup>  |                     |                      |                       |                      |                          |                     |                 |                          |                          |                      |                      |
| ■ 6EL4A <sup>c</sup>                              | L21                                      | 12FA       | 6.3                     | 0.2                 | 40 <sup>•</sup>  |                     |                      |                       |                      |                          |                     |                 |                          |                          |                      |                      |
| ■ 6EL4A <sup>c</sup>                              | L21                                      | 12HC       | 6.3                     | 0.2                 | 40 <sup>•</sup>  |                     |                      |                       |                      |                          |                     |                 |                          |                          |                      |                      |
| ■ 6EL4A <sup>c</sup>                              | F34                                      | 8MW        | 6.3                     | 0.2                 | 40 <sup>•</sup>  |                     |                      |                       |                      |                          |                     |                 |                          |                          |                      |                      |
| 6HQ5 <sup>e</sup><br>6HR5 <sup>h</sup>            | A2<br>A3                                 | 7GM<br>7BZ | 6.3 <sup>▲</sup>        | 0.2<br>0.45         | 2.5<br>8         |                     |                      |                       |                      |                          | 78                  | 15000           |                          |                          |                      | -43                  |

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|--------------------|--|------|----------------|----------------|------------------|---------------------|----------------------|-----------------------|----------------------|--------------------------|---------------------|-----------------|----------------|------|--------------------------|----------------------|
|                    | DIM.                                     | T.D. | E <sub>f</sub> | I <sub>f</sub> |                  | P <sub>b</sub><br>W | e <sub>bm</sub><br>V | i <sub>bm</sub><br>mA | I <sub>b</sub><br>mA | I <sub>b(av)</sub><br>mA | P <sub>o</sub><br>W | μ               | g <sub>m</sub> |      | Cutoff                   |                      |
|                    |  |      | V              | A              |                  |                     |                      |                       |                      |                          |                     |                 | W              | μmho | g <sub>3-p</sub><br>μmho | E <sub>c1</sub><br>V |
| 6JM6A s            | L9                                       | 12FJ | 6.3            | 1.2            | B                | 17.5                | 6500<br>-1500        | -550                  | -                    | -175                     | -                   | 4.4             | 7300           | -    | -42                      | -                    |
| 6JS6C s            | L10                                      | 12FY | 6.3            | 2.25           | B                | 30                  | 7500<br>-1200        | -1200                 | -                    | -350                     | -                   | 3               | 11500          | -    | -54                      | -                    |
| 6LH6A c            | F35                                      | 8ML  | 6.3<br>6.9●    | 0.2            | T                | 40                  |                      |                       |                      |                          |                     |                 |                |      |                          |                      |
| 6LJ6A/<br>6LH6A c† | F35                                      | 8MQ  | 6.3<br>6.9●    | 0.2            | T                | 40                  |                      |                       |                      |                          |                     |                 |                |      |                          |                      |
| 6LT8 n             | B2                                       | 9RL  | 6.3▲           | 0.6            | D                | -                   | -                    | 20                    | 5                    | -                        | -                   | -               | -              | -    | -                        | -                    |
| 6MK8 m             | B4                                       | 9FG  | 6.3            | 0.3            | P                | 3.1                 | -                    | -                     | 5                    | -                        | -                   | -               | 13000          | -    | -3.5                     | -                    |
| 8LT8 n             | B2                                       | 9RL  | 8.1▲           | 0.45           | D                | 1.1                 | -                    | -                     | -12                  | -                        | -                   | -               | 1100           | 450  | -2.3                     | -3.5                 |
|                    |  |      |                |                | D                | -                   | -                    | 20                    | 5                    | -                        | -                   | -               | -              | -    | -                        | -                    |
|                    |  |      |                |                | P                | 3.1                 | -                    | -                     | -                    | -                        | -                   | -               | 13000          | -    | -3.5                     | -                    |

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|-------------|--|------|---------------------|---------------------|------------------|---------------------|----------------------|-----------------------|----------------------|--------------------------|---------------------|-----------------|--------------------------|--------------------------|----------------------|----------------------|
|             | DIM.                                     | T.D. | E <sub>f</sub><br>V | I <sub>f</sub><br>A |                  | P <sub>b</sub><br>W | e <sub>bm</sub><br>V | i <sub>bm</sub><br>mA | I <sub>b</sub><br>mA | I <sub>b(av)</sub><br>mA | P <sub>o</sub><br>W | μ               | 9m                       |                          | Cutoff               |                      |
|             |  |      |                     |                     |                  |                     |                      |                       |                      |                          |                     |                 | g <sub>1-p</sub><br>μmho | g <sub>3-p</sub><br>μmho | E <sub>c1</sub><br>V | E <sub>c3</sub><br>V |
| 9KZ8 t      | B2                                       | 9FZ  | 9.45 <sup>▲</sup>   | 0.3                 | 2.5              | -                   | -                    | -                     | -                    | -                        | 46                  | 8500            | -                        | -                        | -                    | -                    |
| 10BQ5 l     | B10                                      | 9CV  | 10.6 <sup>▲</sup>   | 0.45                | 2.5              | -                   | -                    | -                     | -                    | -                        | -                   | 7500            | -                        | -                        | -                    | -                    |
| 10EW7 f     | H1                                       | 9HF  | 9.7 <sup>▲</sup>    | 0.6                 | 12               | -                   | -                    | .65                   | -                    | 5.7                      | -                   | 11300           | -                        | -                        | -                    | -                    |
| 11LT8 n     | B2                                       | 9RL  | 11.4                | 0.315               | 1.5              | .77                 | 0                    | .22                   | -                    | -                        | 17.5                | 2000            | -                        | -                        | -                    | -                    |
| 12BV11 m    | L3                                       | 12HB | 12.6 <sup>▲</sup>   | 0.45                | 10               | .175                | 0                    | .50                   | -                    | -                        | 6                   | 7500            | -                        | -                        | -                    | -                    |
| 12DK6 k     | A2                                       | 7CM  | 12.6                | 0.15                | -                | 20                  | 5                    | -                     | -                    | -                        | -                   | -               | -                        | -                        | -                    | -                    |
| 12HL7 k     | B18                                      | 9BF  | 12.6                | 0.3                 | 3.1              | 20                  | 5                    | -                     | -                    | -                        | -                   | 13000           | -                        | -                        | -                    | -                    |
| 12MD8 g     | C18                                      | 9RQ  | 12.6 <sup>▲</sup>   | 0.45                | 1.7              | -                   | -                    | -                     | -                    | -                        | 67                  | 3700            | 400                      | -                        | -                    | -                    |
|             |  |      |                     |                     | 2.3              | -                   | -                    | -                     | -                    | -                        | -                   | 9800            | -                        | -                        | -                    | -                    |
|             |  |      |                     |                     | 10               | -                   | -                    | -                     | -                    | -                        | -                   | 21000           | -                        | -                        | -                    | -                    |
|             |  |      |                     |                     | T1               | -                   | -                    | -                     | -                    | -                        | 17                  | 3100            | -                        | -                        | -                    | -                    |
|             |  |      |                     |                     | T2               | -                   | -                    | -                     | -                    | -                        | 17                  | 3100            | -                        | -                        | -                    | -                    |
|             |  |      |                     |                     | T3               | -                   | -                    | -                     | -                    | -                        | 17                  | 3100            | -                        | -                        | -                    | -                    |

NOTE: For key to symbols, footnotes and abbreviations see end of this section.



## RCA RECEIVING TUBE TYPES- Supplementary Listing

| RCA<br>TYPE | DIMENSIONS<br>AND<br>TERMINAL<br>DIAGRAM |      | HEATER              |                     | U<br>N<br>I<br>T | MAXIMUM RATINGS     |                      |                       |                      |                          |                     | CHARACTERISTICS |                          |                          |                      |                      |
|-------------|--|------|---------------------|---------------------|------------------|---------------------|----------------------|-----------------------|----------------------|--------------------------|---------------------|-----------------|--------------------------|--------------------------|----------------------|----------------------|
|             | DIM.<br>T.D.                             | T.D. | E <sub>f</sub><br>V | I <sub>f</sub><br>A |                  | P <sub>b</sub><br>W | e <sub>bm</sub><br>V | i <sub>bm</sub><br>mA | I <sub>b</sub><br>mA | I <sub>b(av)</sub><br>mA | P <sub>o</sub><br>W | μ               | g <sub>m</sub>           |                          | Cutoff               |                      |
|             |  |      |                     |                     |                  |                     |                      |                       |                      |                          |                     |                 | g <sub>1-p</sub><br>μmho | g <sub>3-p</sub><br>μmho | E <sub>c1</sub><br>V | E <sub>c3</sub><br>V |
| 12T10 r     | L3                                       | 12EZ | 12.6 <sup>▲</sup>   | 0.45                | P                | 1.7                 | —                    | —                     | —                    | —                        | —                   | 1000            | 400                      | -4.5                     | -4.5                 |                      |
| 15LE8 m     | B10                                      | 9OZ  | 15 <sup>▲</sup>     | 0.3                 | B                | 10                  | —                    | —                     | —                    | 4.2                      | —                   | 6500            | —                        | —                        | —                    |                      |
| 16LU8A h    | L7                                       | 12DZ | 16 <sup>▲</sup>     | 0.6                 | P                | 2                   | —                    | —                     | —                    | —                        | 58                  | 5800            | 350                      | -7.2                     | -17.4                |                      |
| 17AB10/     | L2                                       | 12BT | 16.8 <sup>▲</sup>   | 0.45                | T                | 2.5                 | 400                  | -105                  | -30                  | —                        | —                   | 3600            | —                        | -6.6                     | —                    |                      |
| 17AX10 r    |  |      |                     |                     | B                | 14                  | 250                  | -260                  | -75                  | —                        | —                   | 9300            | —                        | -30                      | —                    |                      |
| 17BR3/      |  |      |                     |                     | P                | —                   | —                    | —                     | -13                  | —                        | —                   | 360             | 700                      | -4                       | -4                   |                      |
| 17RK19 a    | B20                                      | 9CB  | 16.8 <sup>▲</sup>   | 0.45                | B                | 6.5                 | —                    | —                     | —                    | 2.4                      | —                   | 8600            | —                        | —                        | —                    |                      |
| 17BW3 a     | L4                                       | 12FX | 16.8 <sup>▲</sup>   | 0.6                 | D                | 6.5                 | 5500                 | 1200                  | 200                  | —                        | —                   | —               | —                        | —                        | —                    |                      |
| 17JM6A s    | L9                                       | 12FJ | 16.8 <sup>▲</sup>   | 0.45                | D                | 6.5                 | 5000                 | 1100                  | 175                  | —                        | —                   | —               | —                        | —                        | —                    |                      |
| 18AJ10 r    | L3                                       | 12EZ | 18 <sup>▲</sup>     | 0.315               | B                | 17.5                | 6500                 | 550                   | -175                 | —                        | 4.4                 | 7300            | —                        | -42                      | —                    |                      |
|             |  |      |                     |                     | P                | 1.7                 | —                    | —                     | -60                  | —                        | —                   | 2400            | 750                      | -4                       | -3.5                 |                      |
|             |  |      |                     |                     | B                | 6                   | —                    | —                     | —                    | 1.45                     | —                   | 5600            | —                        | —                        | —                    |                      |

NOTE: For key to symbols, footnotes & abbreviations see end of this section.

# RCA RECEIVING TUBE TYPES- Supplementary Listing

| RCA<br>TYPE                             | DIMENSIONS<br>AND<br>TERMINAL<br>DIAGRAM |                     | HEATER  |                       | U<br>N<br>I<br>T  | MAXIMUM RATINGS           |  |                 |          |              |         | CHARACTERISTICS |                               |                               |                      |                      |   |
|---|--|---------------------|---|-----------------------|---|---------------------------|--|-----------------|----------|--------------|---------|-----------------|-------------------------------|-------------------------------|----------------------|----------------------|---|
|   | DIM.                                     | T.D.                | Ef<br>V   | If<br>A               |   | Pb<br>W                   | ebm<br>V                               | ibm<br>mA       | Ib<br>mA | Ib(av)<br>mA | Po<br>W | $\mu$           | gm                            |                               | Cutoff               |                      |   |
|   |  |                     |   |                       |   |                           |  |                 |          |              |         |                 | g <sub>1-p</sub><br>$\mu$ mho | g <sub>3-p</sub><br>$\mu$ mho | Ec <sub>1</sub><br>V | Ec <sub>3</sub><br>V |   |
| 19JN8/<br>19CL8A <sup>t</sup><br>20AQ3/ | B2                                       | 9FA                 | 18.9  | 0.15                  | 2.5   | -                         | -                                      | -               | -        | -            | 46      | 8500            | -                             | -                             | -8                   | -                    |   |
| LY88 a<br>22BW3 a<br>24BF11 r           | B12<br>L4<br>L3                          | 9CB<br>12FX<br>12EZ | 20.2<br>22.4 <sup>▲</sup><br>24.2 <sup>▲</sup>          | 0.45<br>0.45<br>0.315 | 5.0<br>6.5<br>1.7   | 7500<br>5000<br>-         | 550<br>1100<br>-                       | 220<br>175<br>- | -        | -            | -       | -               | -                             | -                             | -                    | -                    | - |
| 25JZ8 h                                 | L2                                       | 12DZ                | 25.2 <sup>▲</sup>                                       | 0.3                   | 6.5   | -                         | -70                                    | -               | -20      | 2.4          | 20      | 8600            | -                             | -                             | -11                  | -                    |   |
| 26LX6 s<br>30KD6 s<br>31LR8 h           | L21<br>L21<br>C21                        | 12JA<br>12GW<br>9QT | 26 <sup>▲</sup><br>30 <sup>▲</sup><br>31.5 <sup>▲</sup> | 0.6<br>0.6<br>0.3     | 1<br>7<br>33 <sup>●</sup><br>33 <sup>●</sup><br>2.5<br>14 | 2000<br>7000<br>7000<br>- | -245<br>-1400<br>-1400<br>-105<br>-260 | -               | -70      | -            | -       | 7100            | 14000                         | -                             | -25                  | -                    | - |
|   |  |                     |   |                       |   |                           |  |                 |          |              |         | 4100            | 4100                          | -                             | -6.6                 | -                    | - |
|   |  |                     |   |                       |   |                           |  |                 |          |              |         | 9200            | 9200                          | -                             | -28                  | -                    | - |

NOTE: For key to symbols, footnotes & abbreviations see end of this section.

# RCA RECEIVING TUBE TYPES- Supplementary Listing

| RCA<br>TYPE                  | DIMENSIONS<br>AND<br>TERMINAL<br>DIAGRAM |      | HEATER              |                     | MAXIMUM RATINGS  |                     |                      |                       |                      |                          | CHARACTERISTICS     |   |                          |                          |                      |                      |
|------------------------------|--|------|---------------------|---------------------|------------------|---------------------|----------------------|-----------------------|----------------------|--------------------------|---------------------|---|--------------------------|--------------------------|----------------------|----------------------|
|                              | DIM.                                     | T.D. | E <sub>f</sub><br>V | I <sub>f</sub><br>A | U<br>N<br>I<br>T | P <sub>b</sub><br>W | e <sub>bm</sub><br>V | i <sub>bm</sub><br>mA | I <sub>b</sub><br>mA | I <sub>b(av)</sub><br>mA | P <sub>o</sub><br>W | μ | g <sub>m</sub>           |                          | Cutoff               |                      |
|                              |  |      |                     |                     |                  |                     |                      |                       |                      |                          |                     |   | g <sub>1-p</sub><br>μmho | g <sub>3-p</sub><br>μmho | E <sub>c1</sub><br>V | E <sub>c3</sub><br>V |
| 34R3 <sup>a</sup>            | B11                                      | 9CB  | 34                  | 0.15                | D                | -                   | 4500                 | 150                   | -                    | -                        | -                   | - | -                        | -                        | -                    | -                    |
| 36KD6/<br>40KD6 <sup>s</sup> | L21                                      | 12GW | 36 <sup>▲</sup>     | 0.45                | B                | 33 <sup>●</sup>     | 7000                 | -1400                 | -400                 | -                        | -                   | 4 | 14000                    | -                        | -                    | -                    |

### FOOTNOTES

- a Damper Diode
  - b High-Voltage Diode
  - c High-Voltage Regulator Beam Triode
  - d Medium-Mu Triode
  - e High-Mu Triode
  - f Dual-Unit Triode
  - g Triple-Unit Triode
  - h Vertical Deflection-Amplifier Type
  - j Semiremote-Cutoff Pentode
  - k Sharp-Cutoff Pentode
  - l Power Pentode
  - m Twin Sharp-Cutoff Pentode
  - n Twin Diode-Sharp-Cutoff Pentode
  - r Sharp-Cutoff Pentode-Beam Power Tube
  - s Horizontal Deflection-Amplifier Type
  - t Medium-Mu Triode-Sharp-Cutoff Pentode
  - u Pentagrid amplifier
- Absolute-Maximum Value.  
 ▲ Heater with controlled warm-up time.  
 □ Refer to sheet *Safety Precautions (1)* for *Receiving Tubes* following this listing.  
 \* This type does not have an EIA published value for X-Radiation.  
 ■ Refer to sheet *Safety Precautions (11)* for *Receiving Tubes* following this listing.  
 ◆ Statistical Value Controlled On a Lot Sampling Basis.

# RCA RECEIVING TUBE TYPES- Supplementary Listing

| SYMBOL          | DEFINITION  | SYMBOL             | DEFINITION  |
|-----------------|---|--------------------|---|
| e <sub>bm</sub> | Peak-Pulse Plate Voltage (Beam Tubes)                 | I <sub>b(av)</sub> | Average Plate (+) or Cathode (-) Current              |
| E <sub>c1</sub> | Peak Inverse Plate Voltage (Diodes)                   | i <sub>bm</sub>    | Peak Plate (+) or Cathode (-) Current                 |
| E <sub>c3</sub> | DC Grid No. 1 Cutoff Voltage                          | I <sub>f</sub>     | DC or RMS AC Heater or Filament Current (Bogey Value) |
| E <sub>f</sub>  | DC Grid No. 3 Cutoff Voltage                          | P <sub>b</sub>     | Plate Dissipation                                     |
| g <sub>m</sub>  | DC or RMS AC Heater or Filament Voltage (Bogey Value) | P <sub>o</sub>     | Maximum-Signal Power Output                           |
| I <sub>b</sub>  | Transconductance (Mutual Conductance)                 | μ                  | Amplification Factor (Mu)                             |
|                 | DC Plate Current (Positive Values)                    |                    |   |
|                 | DC Cathode Current (Negative Values)                  |                    |   |

| ABBREVIATIONS |                         |                |              |
|---------------|-------------------------|----------------|--------------|
| A             | Ampere                  | B              | Beam Unit    |
| D             | Diode Unit              | F              | Filament     |
| mR/hr         | Milliroentgens per hour | g <sub>1</sub> | Grid No. 1   |
| W             | Watt                    | g <sub>3</sub> | Grid No. 3   |
| μmho          | Micromho                | P              | Pentode Unit |
|               |                         | p              | Plate        |
|               |                         | T              | Triode Unit  |
|               |                         | V              | Volt         |

For Key to Tube Dimensions and Terminal Diagrams, see following pages.

# RCA RECEIVING TUBE TYPES- Supplementary Listing

## KEY TO TUBE DIMENSIONS

| Symbol                | Maximum Overall Length x Diameter Inches | Symbol            | Maximum Overall Length x Diameter Inches |
|-----------------------|--|-------------------|--|
| 7-Pin Miniature Types |  | Novar Type        |  |
| A1                    | 1-3/4 x 3/4                              | C18               | 2.960 x 1.188                            |
| A2                    | 2-1/8 x 3/4                              | C21               | 3.710 x 1.562                            |
| A3                    | 2-5/8 x 3/4                              | Nuvistor Type     |  |
| 9-Pin Miniature Types |  | D1                | 0.800 0.440                              |
| B2                    | 2-3/16 x 7/8                             | Octal-Glass Types |  |
| B4                    | 2-5/8 x 7/8                              | F16               | 3-13/16 x 1-9/32                         |
| B8                    | 2-27/32 x 7/8                            | F21               | 4-1/16 x 1-9/32                          |
| B10                   | 3-1/16 x 7/8                             | F34               | 5 x 1-9/16                               |
| B11                   | 3-9/32 x 7/8                             | F35               | 5 x 1-23/32                              |
| B12                   | 3-1/2 x 7/8                              | F45               | 3.563 x 1.377                            |
| B14                   | 2 x 7/8                                  | F46               | 3-13/16 x 1-1/4                          |
| B15                   | 2.531 x .875                             | F47               | 3.812 x 1.377                            |
| B16                   | 2.913 x .875                             | F48               | 3.812 x 1.188                            |
| B17                   | 2.716 x .875                             | F49               | 3.812 x 1.281                            |
| B18                   | 2-3/8 x 7/8                              | F50               | 3.563 x 1.188                            |
| B20                   | 3.5 x .875                               |                   |  |
|                       |  | 9-Pin Bulb Type   |  |
|                       |  | H1                | 2.90 x 1.188                             |
|                       |  | Other Type        |  |
|                       |  | K8                | 3.08 x 1.188                             |
|                       |  | 12-Pin Types      |  |
| L1                    | 1.875 x 1.188                            | L1                | 1.875 x 1.188                            |
| L2                    | 2.375 x 1.188                            | L2                | 2.375 x 1.188                            |
| L3                    | 2.625 x 1.188                            | L3                | 2.625 x 1.188                            |
| L4                    | 2.875 x 1.188                            | L4                | 2.875 x 1.188                            |
| L6                    | 3.625 x 1.188                            | L6                | 3.625 x 1.188                            |
| L7                    | 2.875 x 1.563                            | L7                | 2.875 x 1.563                            |
| L9                    | 3.625 x 1.563                            | L9                | 3.625 x 1.563                            |
| L10                   | 4.125 x 1.563                            | L10               | 4.125 x 1.563                            |
| L14                   | 3.125 x 1.188                            | L14               | 3.125 x 1.188                            |
| L18                   | 4.000 x 1.563                            | L18               | 4.000 x 1.563                            |
| L20                   | 3.625 x 1.250                            | L20               | 3.625 x 1.250                            |
| L21                   | 4.625 x 1.563                            | L21               | 4.625 x 1.563                            |

# RCA RECEIVING TUBE TYPES- Supplementary Listing

## KEY: TERMINAL DIAGRAMS (Bottom Views)

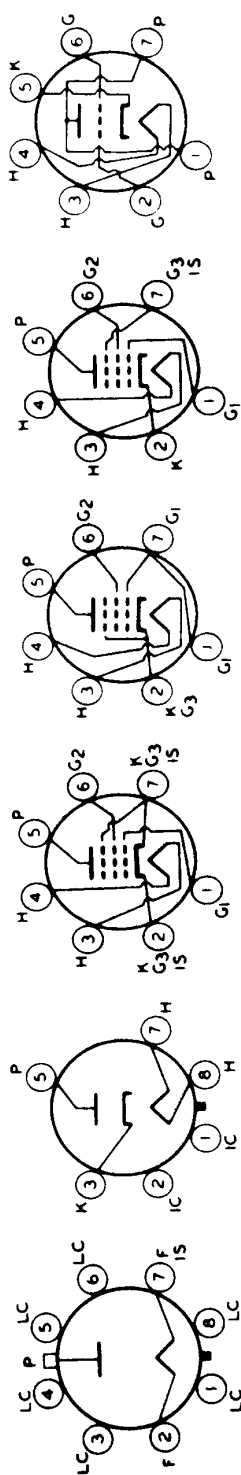
**F** = Filament End (Unpolarized)    **G<sub>3</sub>** = Grid No. 3    **IS** = Internal Shield    **NC** = No Internal Connection  
**G** = Grid (Triode)    **H** = Heater End (Unpolarized)    **K** = Cathode    **P** = Plate (Vacuum tubes)  
**G<sub>1</sub>** = Grid No. 1    **HM** = Heater Tap    **LC** = May be used only under Limited Conditions    **A** = Anode (Gas-Filled tubes)  
**G<sub>2</sub>** = Grid No. 2    **IC** = Do Not Use

## LETTER COMBINATIONS

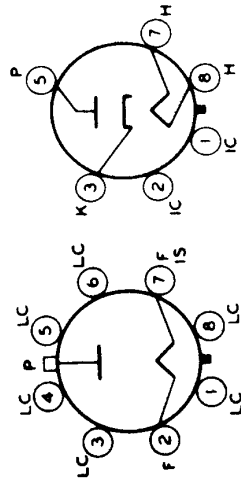
**IS** = Internal Shield  
**K** = Cathode  
**LC** = May be used only under Limited Conditions

## SUBSCRIPTS FOR MULTIUNIT TYPES

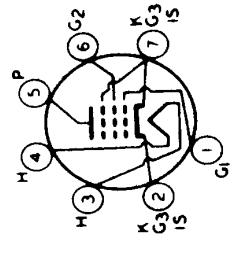
**B** = Beam Power Unit    **D** = Diode Unit    **P** = Pentode Unit    **T** = Triode Unit    1, 2, 3, = No. 1, No. 2, No. 3.



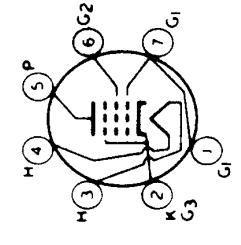
**3C**



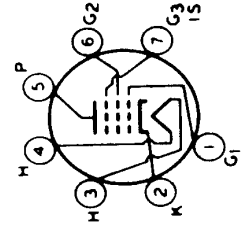
**4CG**



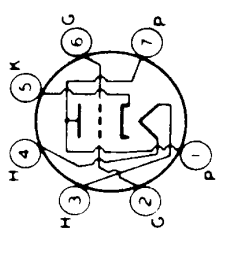
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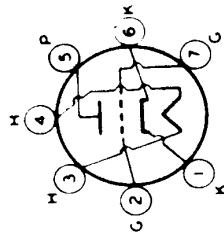
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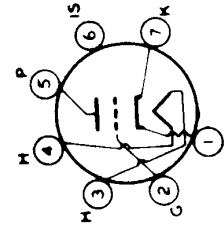
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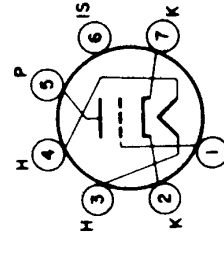
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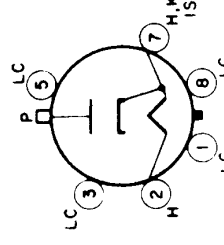
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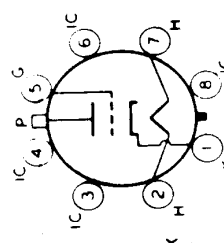
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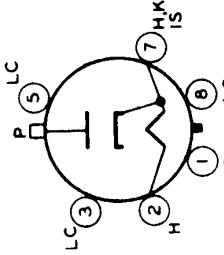
**7GM**



**8EZ**



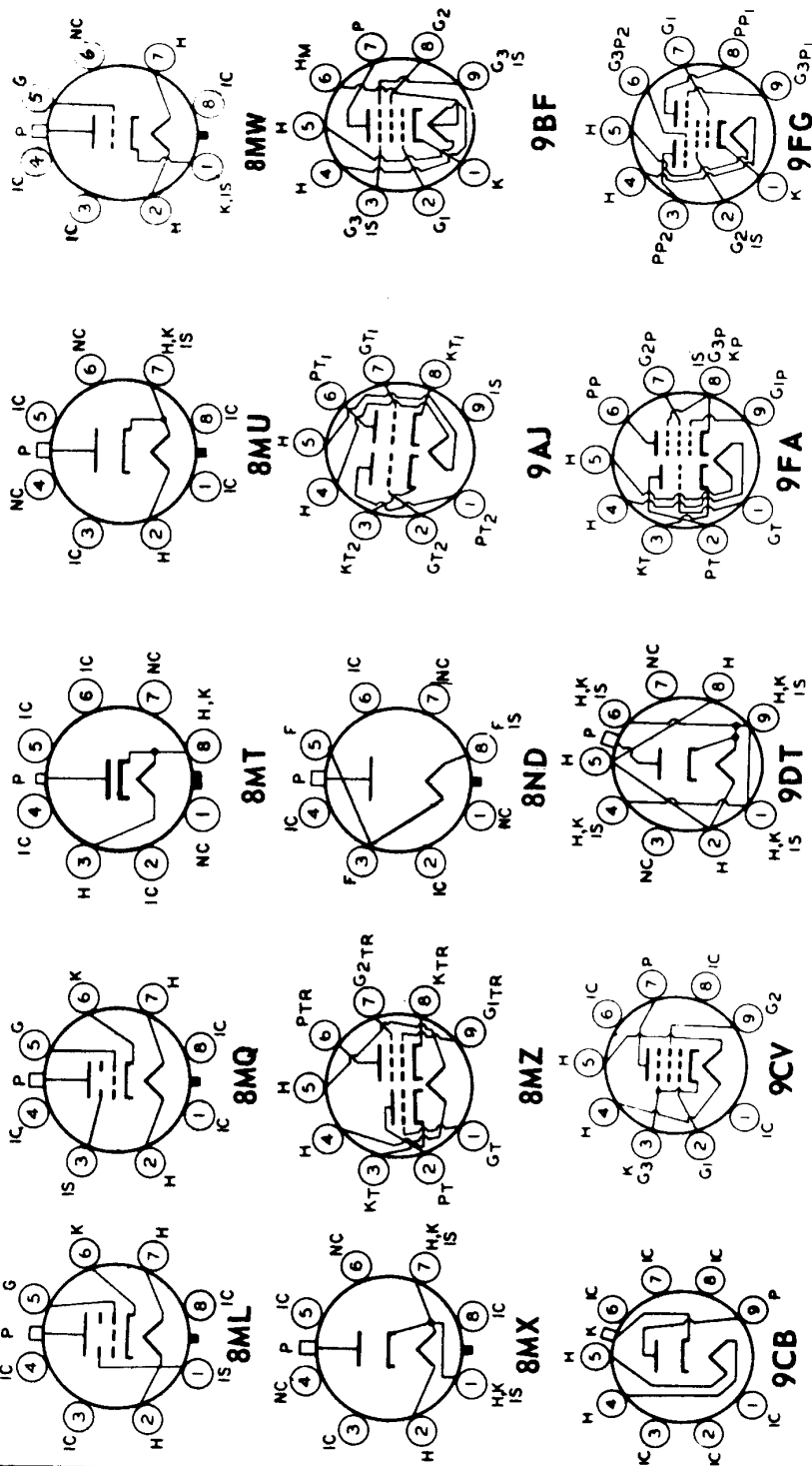
**8GC**



**8MH**

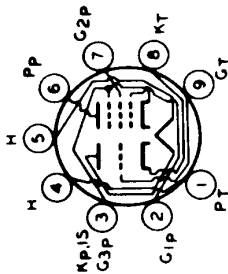
# RCA RECEIVING TUBE TYPES- Supplementary Listing

TERMINAL DIAGRAMS (Cont'd)

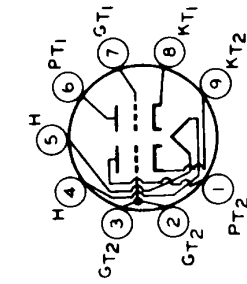


# RCA RECEIVING TUBE TYPES- Supplementary Listing

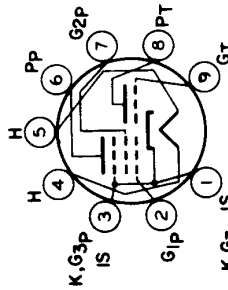
TERMINAL DIAGRAMS (Cont'd)



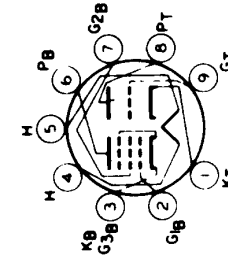
**9FZ**



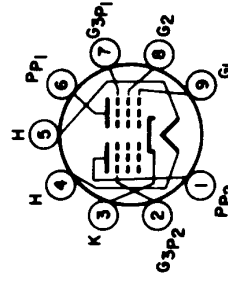
**9HF**



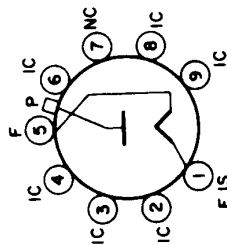
**9QA**



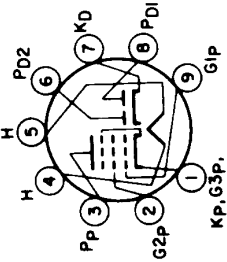
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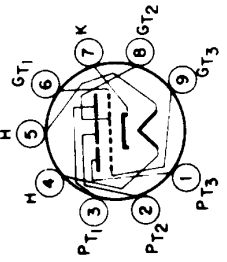
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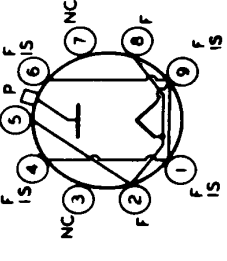
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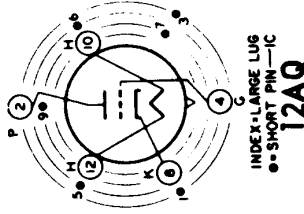
**9RL**



**9RQ**



**9Y**

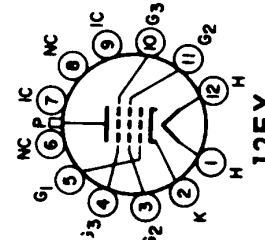
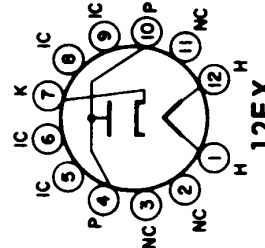
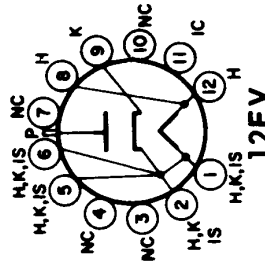
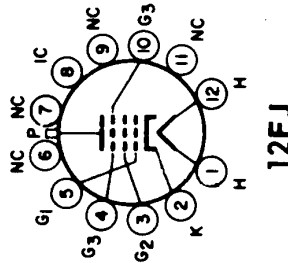
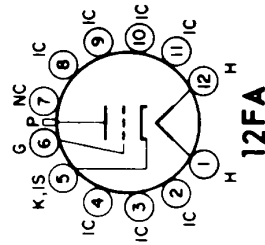
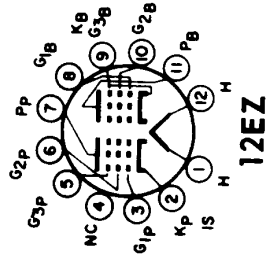
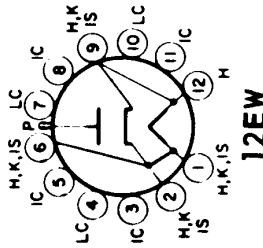
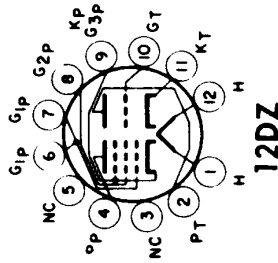
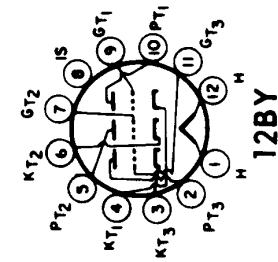
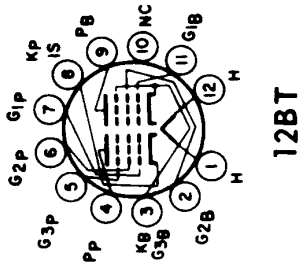


**12AQ**



# RCA RECEIVING TUBE TYPES- Supplementary Listing

**TERMINAL DIAGRAMS (Cont'd)**



# RCA RECEIVING TUBE TYPES- Supplementary Listing

TERMINAL DIAGRAMS (Cont'd)

