

**RCA**

**INTERCHANGEABILITY  
DIRECTORY**

**OF NON-RECEIVING ELECTRON TUBES**

- **Vacuum Power Tubes**
  - **Thyratrons**
  - **Vacuum and Gas Rectifiers**
  - **Ignitrons**
  - **Cold-Cathode (Glow-Discharge) Tubes**
  - **Phototubes**
  - **Oscillograph Tubes**
  - **Camera Tubes and Monoscopes**
  - **Special Tubes**



**RADIO CORPORATION of AMERICA**  
**TUBE DEPARTMENT** **HARRISON, N. J.**

# RCA Interchangeability Directory

This Interchangeability Directory of non-receiving electron tubes has been prepared to assist distributors, dealers, servicemen, broadcast stations, and individual users in selecting the proper RCA tube type as a replacement.

Listing 1600 type designations, this Directory covers Vacuum Power Tubes, Vacuum and Gas Rectifiers, Thyratrons, Ignitrons, Cold-Cathode (Glow-Discharge) Tubes, Phototubes, Oscillograph Tubes, Camera Tubes, and Special Types.

In using this Directory, note that the basic type designations of different manufacturers may have been assigned according to different systems. Some basic designations consist only of a number; others consist of a combination of letters and digits. In either case, the basic designation may or may not have a prefix composed of one or more letters, such as EL, GL, WL, WT, F, ML, UE, etc., which indicates the particular manufacturer. In certain cases, this prefix becomes an essential part of the type designation when as sometimes happens, two or more manufacturers utilize the same basic designation for different tube types.

Identifying information about the **Type To Be Replaced** including the manufacturer's prefix, if any, the basic type designation in bold face, symbol to designate the manufacturer, and symbol to indicate class of tube is charted in the first four columns. The next two columns show the **RCA Direct Replacement Type**, or the RCA Similar Type, respectively, when one or the other is available.

Basic designations shown in Column 2 of the tabulation are listed in numerical-alphabetical sequence. Those starting with a digit are given first; those starting with a letter appear at the end of the tabulation.

## How to Use

1. Look in Column 2 for basic designation of type to be replaced.
2. If type to be replaced has a prefix, look for that prefix in Column 1.

*For example: If type FG-17 is to be replaced, find the basic designation 17 in Column 2 and the prefix FG in Column 1.*

*For example: If type WT-T-106 is to be replaced, find the basic designation T-106 in Column 2 and the prefix WT in Column 1.*

3. Consult Column 5 for corresponding **RCA Direct Replacement Type**.

4. If no Direct RCA Replacement Type is shown, consult Column 6 for RCA Similar Type. Such a type usually is not directly interchangeable with the type to be replaced but can be substituted provided space permits and relatively minor changes are made in the socket, the cathode voltage, or in circuit adjustments.

| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| GL<br>WL            | 1B59/<br>1130B             | S    | G             | 1C21                          |                         |
|                     | 1C/3B22                    | E    | R             |                               |                         |
|                     | 1C21                       | RCA  | G             |                               |                         |
|                     | 1D21/<br>SN4               | S    | G             |                               |                         |
|                     | 1P21                       | RCA  | P             | 1P21                          |                         |
|                     | 1P22                       | RCA  | P             | 1P22                          |                         |
|                     | 1P28                       | RCA  | P             | 1P28                          |                         |
|                     | 1P29                       | RCA  | P             | 1P29                          |                         |
|                     | 1P29                       | GE   | P             | 1P29                          |                         |
|                     | 1P29                       | WL   | P             | 1P29                          |                         |
|                     | 1P32                       | C    | P             | 927                           |                         |
|                     | 1P37                       | RCA  | P             | 1P37                          |                         |
|                     | 1P37                       | GE   | P             | 1P37                          |                         |
|                     | 1P39                       | RCA  | P             | 1P39                          |                         |
|                     | 1P39                       | GE   | P             | 1P39                          |                         |
|                     | 1P40                       | RCA  | P             | 1P40                          |                         |
|                     | 1P40                       | GE   | P             | 1P40                          |                         |
|                     | 1P41                       | RCA  | P             | 1P41                          |                         |
|                     | 1P42                       | RCA  | P             | 1P42                          |                         |
|                     | 1V(A-D)                    | CE   | P             |                               |                         |
|                     | 1(A-D)                     | CE   | P             | 868, 918                      |                         |
|                     | 2AP1                       | RCA  | CR            | 2AP1-A                        |                         |
|                     | 2AP1                       | S    | CR            | 2AP1-A                        |                         |
|                     | 2AP1-A                     | GE   | CR            | 2AP1-A                        |                         |
|                     | 2BP1                       | RCA  | CR            | 2BP1                          |                         |
| GL                  | 2BP1                       | S    | CR            | 2BP1                          | 559                     |
|                     | 2BP11                      | RCA  | CR            | 2BP11                         |                         |
|                     | 2BP11                      | S    | CR            | 2BP11                         |                         |
|                     | 2B4                        | D    | T             | 885                           |                         |
| GL                  | 2B22                       | GE   | VPT           |                               |                         |
|                     | 2B23                       | GE   | VPT           |                               |                         |
| GL                  | 2C21/<br>1642              | RCA  | VPT           | 2C21/<br>1642                 |                         |
|                     | 2C22                       | RCA  | VPT           | 2C22                          |                         |

\* RCA types shown in this column are direct replacements under all circumstances for corresponding types to be replaced.

† RCA types shown in this column are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, RCA, Harrison, New Jersey.

## KEY TO SYMBOLS IN COLUMN 3

A = Amperex  
CE = Continental Electric (Cetron)  
CH = Chatham Electronics  
D = Dumont  
EE = Electronic Enterprises  
EL = Electrons Inc.  
EM = Eitel-McCullough (Eimac)  
F = Federal Telephone and Radio

GE = General Electric  
GES = General Electronics  
HK = Heinz and Kaufman  
HY = Hytron  
ML = Machlett Laboratories  
NL = National Electronics  
NU = National Union  
R = Rauland

RK = Raytheon  
S = Sylvania  
T = Taylor  
TS = Tung-Sol  
UE = United Electronics  
WE = Western Electric  
WL = Westinghouse  
WT = Weltronic

## KEY TO SYMBOLS IN COLUMN 4

CM = Camera Tube or Monoscope  
CR = Cathode-Ray Tube  
G = Glow Tube  
GA = Gauge Tube

I = Ignitron  
K = Klystron  
P = Phototube  
R = Rectifier

RT = Receiving Tube  
T = Thyatron  
VPT = Vacuum Power Tube

| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| ML<br>GL            | 2C33/<br>RX233A            | R    | T             | 2C40                          | 12AT7                   |
|                     | 2C36                       | S    | VPT           |                               |                         |
|                     | 2C37                       | S    | VPT           |                               |                         |
|                     | 2C39                       | EM   | VPT           |                               |                         |
|                     | 2C39                       | ML   | VPT           |                               |                         |
|                     | 2C39                       | GE   | VPT           |                               |                         |
|                     | 2C40                       | RCA  | VPT           |                               |                         |
|                     | 2C40                       | GE   | VPT           |                               |                         |
|                     | 2C43                       | RCA  | VPT           |                               |                         |
|                     | 2C43                       | GE   | VPT           |                               |                         |
| GL                  | 2C50                       | RK   | VPT           | 2C43                          |                         |
|                     | 2C51                       | WE   | VPT           |                               |                         |
|                     | 2D21                       | RCA  | T             |                               |                         |
|                     | 2D21                       | NU   | T             |                               |                         |
| GL<br>WL            | 2D21                       | GE   | T             | 2D21                          |                         |
|                     | 2D21                       | WL   | T             |                               |                         |
|                     | 2D21                       | CH   | T             |                               |                         |
|                     | 2D21                       |      |               |                               |                         |
| CE<br>CE            | 2V                         | CE   | P             | 2E24                          | 930, 1P40               |
|                     | 2(A-D)                     | CE   | P             |                               |                         |
|                     | 2E24                       | RCA  | VPT           |                               |                         |
|                     | 2E24                       | GE   | VPT           |                               |                         |
| GL                  | 2E24                       | RK   | VPT           | 2E24                          | 2E24                    |
|                     | 2E25                       | HY   | VPT           |                               |                         |
|                     | 2E26                       | RCA  | VPT           |                               |                         |
|                     | 2E26                       | GE   | VPT           |                               |                         |
| GL                  | 2E26                       | RK   | VPT           | 2E26                          | 5618                    |
|                     | 2E26                       | S    | VPT           |                               |                         |
|                     | 2E30                       | HY   | VPT           |                               |                         |
|                     | 2F21                       | RCA  | CM            |                               |                         |
| GL                  | 2H21                       | GE   | VPT           | 2K26                          |                         |
|                     | 2K26                       | RCA  | K             |                               |                         |
|                     | 2K56                       | RCA  | K             |                               |                         |
|                     | 2K56                       |      |               |                               |                         |
| GL                  | 2P23                       | RCA  | CM            | 2P23                          |                         |
|                     | 2P23                       | GL   | CM            |                               |                         |

| 1                   | 2                 | 3    | 4          | 5                    | 6                 |
|---------------------|-------------------|------|------------|----------------------|-------------------|
| Type To Be Replaced |                   |      |            | Replace by RCA Type* | Similar RCA Type† |
| Mfr. Prefix         | Basic Designation | Mfr. | Tube Class |                      |                   |
| GL                  | 2X2/879           | RCA  | R          | 2X2-A                |                   |
|                     | 2X2/879           | GE   | R          | 2X2-A                |                   |
|                     | 2X2A              | RCA  | R          | 2X2-A                |                   |
|                     | 2X2A              | RK   | R          | 2X2-A                |                   |
|                     | 2X2A              | TS   | R          | 2X2-A                |                   |
|                     | 2X2A              | NU   | R          | 2X2-A                |                   |
|                     | 3AP1              | RCA  | CR         | 3AP1-A               |                   |
|                     | 3AP1              | S    | CR         | 3AP1-A               |                   |
|                     | 3AP1              | D    | CR         | 3AP1-A               |                   |
|                     | 3AP1-A            | S    | CR         | 3AP1-A               |                   |
| GL                  | 3AP1-A            | D    | CR         | 3AP1-A               |                   |
|                     | 3AP1-A            | GE   | CR         | 3AP1-A               |                   |
|                     | 3A4               | RCA  | VPT        | 3A4                  |                   |
|                     | 3A4               | TS   | VPT        | 3A4                  |                   |
|                     | 3A4               | NU   | VPT        | 3A4                  |                   |
|                     | 3A5               | RCA  | VPT        | 3A5                  |                   |
|                     | 3A5               | TS   | VPT        | 3A5                  |                   |
|                     | 3A5               | HY   | VPT        | 3A5                  |                   |
|                     | 3AP1-A            | RCA  | CR         | 3AP1-A               |                   |
|                     | 3BP1              | RCA  | CR         | 3BP1-A               |                   |
| GL                  | 3BP1              | S    | CR         | 3BP1-A               |                   |
|                     | 3BP1-A            | RCA  | CR         | 3BP1-A               |                   |
|                     | 3BP1-A            | S    | CR         | 3BP1-A               |                   |
|                     | 3BP1-A            | GE   | CR         | 3BP1-A               |                   |
|                     | 3B22/1C           | WL   | R          | 3B25                 |                   |
|                     | 3B24              | R    | R          |                      |                   |
|                     | 3B25              | RCA  | R          |                      |                   |
|                     | 3B27              | EE   | R          |                      | 836               |
|                     | 3B27              | GES  | R          |                      | 836               |
|                     | 3B28              | CH   | R          |                      | 866-A             |
| EL                  | 3B28              | UE   | R          |                      | 866-A             |
|                     | 3B29              | GES  | R          |                      |                   |
|                     | 3C/4B24           | EL   | R          |                      |                   |
|                     | 3C21              | A    | VPT        |                      | 838               |
|                     | 3C22              | GE   | VPT        |                      |                   |
|                     | 3C23              | RCA  | T          | 3C23                 |                   |
|                     | 3C23              | GE   | T          | 3C23                 |                   |
|                     | 3C23              | UE   | T          | 3C23                 |                   |
|                     | 3C23              | NE   | T          | 3C23                 |                   |
|                     | 3C23              | WL   | T          | 3C23                 |                   |
| NL                  | 3C24              | EM   | VPT        |                      | 1623              |
|                     | 3C33              | RCA  | VPT        | 3C33                 |                   |
|                     | 3DP1-A            | RCA  | CR         | 3DP1-A               |                   |
|                     | 3DP1-A            | D    | S          | 3DP1-A               |                   |
|                     | 3DP1-A            | GE   | CR         | 3DP1-A               |                   |
|                     | 3DP1-S2A          | RCA  | CR         | 3DP1-S2A             |                   |
|                     | 3D22              | RCA  | T          | 3D22                 |                   |
|                     | 3D22              | NU   | T          | 3D22                 |                   |
|                     | 3E22              | RCA  | VPT        | 3E22                 |                   |
|                     | 3E29              | RCA  | VPT        | 3E29                 |                   |
| GL                  | 3E29              | NU   | VPT        | 3E29                 |                   |
|                     | 3FP7-A            | RCA  | CR         | 3FP7-A               |                   |
|                     | 3FP7-A            | S    | CR         | 3FP7-A               |                   |
|                     | 3JP1              | RCA  | CR         | 3JP1                 |                   |

| 1                   | 2                 | 3    | 4          | 5                    | 6                 |
|---------------------|-------------------|------|------------|----------------------|-------------------|
| Type To Be Replaced |                   |      |            | Replace by RCA Type* | Similar RCA Type† |
| Mfr. Prefix         | Basic Designation | Mfr. | Tube Class |                      |                   |
| GL                  | 3JP1              | S    | CR         | 3JP1                 |                   |
|                     | 3JP1              | D    | CR         | 3JP1                 |                   |
|                     | 3JP7              | RCA  | CR         | 3JP7                 |                   |
|                     | 3JP7              | S    | CR         | 3JP7                 |                   |
|                     | 3JP7              | D    | CR         | 3JP7                 |                   |
|                     | 3KP1              | RCA  | CR         | 3KP1                 |                   |
|                     | 3KP1              | S    | CR         | 3KP1                 |                   |
|                     | 3KP11             | RCA  | CR         | 3KP11                |                   |
|                     | 3MP1              | RCA  | CR         | 3MP1                 |                   |
|                     | 3MP1              | GE   | CR         | 3MP1                 |                   |
| GL                  | 3MP1              | S    | CR         | 3MP1                 |                   |
|                     | 3RP1              | RCA  | CR         | 3RP1                 |                   |
|                     | 3RP1              | S    | CR         | 3RP1                 |                   |
|                     | 3RP1-A            | D    | CR         | 3RP1                 |                   |
|                     | 4B26/2000         | RCA  | R          | 4B26/2000            |                   |
|                     | 4B26/2000         | NU   | R          | 4B26/2000            |                   |
|                     | 4B32              | UE   | R          |                      |                   |
|                     | 4C21              | GE   | VPT        |                      | 211               |
|                     | 4C22              | A    | VPT        |                      | 8005              |
|                     | 4C33              | RCA  | VPT        | 4C33                 |                   |
| WL                  | 4C35              | S    | T          |                      |                   |
|                     | 4D21/4-125A       | WL   | VPT        | 4-125A/4D21          |                   |
|                     | 4D21/4-125A       | GE   | VPT        | 4-125A/4D21          |                   |
|                     | 4D21              | RK   | VPT        | 4-125A/4D21          |                   |
|                     | 4E27/8001         | RCA  | VPT        | 4E27/8001            |                   |
|                     | 4E27A/5-125B      | RCA  | VPT        | 4E27A/5-125B         |                   |
|                     | 4E27A/5-125B      | EM   | VPT        | 4E27A/5-125B         |                   |
|                     | 4                 | CE   | P          |                      | 923               |
|                     | 4X100A            | EM   | VPT        |                      |                   |
|                     | 4X150A            | RCA  | VPT        | 4X150A               |                   |
| GL                  | 4X150A            | EM   | VPT        | 4X150A               |                   |
|                     | 4X150A            | GE   | VPT        | 4X150A               |                   |
|                     | 4X150A            | W    | VPT        | 4X150A               |                   |
|                     | 4X150G            | EM   | VPT        |                      | 4X150A            |
|                     | 4X500A            | EM   | VPT        | 4X500A               |                   |
|                     | 4X500A            | RCA  | VPT        | 4X500A               |                   |
|                     | 4X500A            | WL   | VPT        | 4X500A               |                   |
|                     | 4                 | CE   | P          |                      | 923               |
|                     | 4-V               | CE   | P          |                      |                   |
|                     | 4-65A             | RCA  | VPT        | 4-65A                |                   |
| AX                  | 4-65A             | EM   | VPT        | 4-65A                |                   |
|                     | 4-125A/4D21       | RCA  | VPT        | 4-125A/4D21          |                   |
|                     | 4-125A            | A    | VPT        | 4-125A/4D21          |                   |
|                     | 4-125A            | EM   | VPT        | 4-125A/4D21          |                   |
|                     | 4-250A            | RCA  | VPT        | 4-250A/5D22          |                   |

| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| AX                  | 4-250A                     | A    | VPT           | 4-250A/<br>5D22               | 927                     |
|                     | 4-250A                     | EM   | VPT           | 4-250A/<br>5D22               |                         |
| GL                  | 4-250A/<br>5D22            | GE   | VPT           | 4-250A/<br>5D22               |                         |
|                     | 4-400A                     | EM   | VPT           |                               |                         |
|                     | 4-1000A                    | EM   | VPT           |                               |                         |
| CE                  | 5(A-D)                     | CE   | P             |                               |                         |
| EL                  | 5BS/<br>4B22               | EL   | R             |                               |                         |
| EL                  | 5BHD/<br>4B23              | EL   | R             |                               |                         |
|                     | 5BP1                       | RCA  | CR            | 5BP1-A                        |                         |
|                     | 5BP1-A                     | RCA  | CR            | 5BP1-A                        |                         |
|                     | 5BP1-A                     | S    | CR            | 5BP1-A                        |                         |
|                     | 5BP1-A                     | D    | CR            | 5BP1-A                        |                         |
| GL                  | 5BP1-A                     | GE   | CR            | 5BP1-A                        |                         |
|                     | 5BP11-A                    | D    | CR            |                               |                         |
|                     | 5CP1                       | RCA  | CR            | 5CP1-A                        |                         |
|                     | 5CP1-A                     | RCA  | CR            | 5CP1-A                        |                         |
|                     | 5CP1-A                     | S    | CR            | 5CP1-A                        |                         |
|                     | 5CP1-A                     | D    | CR            | 5CP1-A                        |                         |
| GL                  | 5CP1-A                     | GE   | CR            | 5CP1-A                        |                         |
|                     | 5CP7                       | RCA  | CR            | 5CP7-A                        |                         |
|                     | 5CP7-A                     | RCA  | CR            | 5CP7-A                        |                         |
|                     | 5CP7-A                     | S    | CR            | 5CP7-A                        |                         |
|                     | 5CP7-A                     | GE   | CR            | 5CP7-A                        |                         |
| GL                  | 5CP7-A                     | D    | CR            | 5CP7-A                        |                         |
|                     | 5CP11-A                    | RCA  | CR            | 5CP11-A                       |                         |
|                     | 5CP11-A                    | S    | CR            | 5CP11-A                       |                         |
|                     | 5CP11-A                    | D    | CR            | 5CP11-A                       |                         |
|                     | 5FP4-A                     | RCA  | CR            | 5FP4-A                        |                         |
|                     | 5FP4-A                     | S    | CR            | 5FP4-A                        |                         |
|                     | 5FP7                       | RCA  | CR            | 5FP7-A                        |                         |
|                     | 5FP7-A                     | RCA  | CR            | 5FP7-A                        |                         |

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HY = Hytron  
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## KEY TO SYMBOLS IN COLUMN 4

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R = Rectifier

RT = Receiving Tube  
T = Thyatron  
VPT = Vacuum Power Tube

| 1                   | 2                                              | 3                             | 4                               | 5                                              | 6                       |
|---------------------|------------------------------------------------|-------------------------------|---------------------------------|------------------------------------------------|-------------------------|
| Type To Be Replaced |                                                |                               |                                 | Replace<br>by<br>RCA<br>Type*                  | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation                     | Mfr.                          | Tube<br>Class                   |                                                |                         |
| GL                  | 5FP7-A<br>5FP7-A<br>5C22                       | S<br>GE<br>S                  | CR<br>CR<br>T                   | 5FP7-A<br>5FP7-A                               | 8000<br>715-C           |
| GL                  | 5C24<br>5D21<br>5D22                           | GE<br>WE<br>UE                | VPT<br>VPT<br>VPT               | 4-250A/<br>5D22                                |                         |
| WL                  | 5D22                                           | WL                            | VPT                             | 4-250A/<br>5D22                                |                         |
|                     | 5D23/<br>RK65                                  | RK                            | VPT                             |                                                |                         |
|                     | 5R4-GY<br>5R4-GY<br>5R4-GY<br>5R4-GY<br>5R4-GY | RCA<br>RK<br>TS<br>NU<br>GE   | R<br>R<br>R<br>R<br>R           | 5R4-GY<br>5R4-GY<br>5R4-GY<br>5R4-GY<br>5R4-GY |                         |
|                     | 5UP1<br>5UP1<br>5UP7<br>5UP11<br>5WP11         | RCA<br>S<br>RCA<br>RCA<br>RCA | CR<br>CR<br>CR<br>CR<br>CR      | 5UP1<br>5UP1<br>5UP7<br>5UP11<br>5WP11         |                         |
|                     | 5WP15<br>5WP15<br>5(A-D)<br>6                  | RCA<br>S<br>CE<br>WT          | CR<br>CR<br>P<br>RT             | 5WP15<br>5WP15                                 |                         |
| CE<br>WT            | 6AG7-Y                                         | RCA                           | VPT                             | 6AG7-Y                                         |                         |
|                     | 6AS6<br>6AS6<br>6B<br>6C<br>6C22               | RCA<br>WE<br>EL<br>EL<br>F    | VPT<br>VPT<br>R<br>R<br>VPT     | 6AS6<br>6AS6                                   |                         |
| EL<br>EL            |                                                |                               |                                 |                                                |                         |
| ML                  | 6C24<br>6C24<br>6D22<br>6F4<br>6J4             | RCA<br>ML<br>RK<br>RCA<br>RCA | VPT<br>VPT<br>VPT<br>VPT<br>VPT | 6C24<br>6C24<br>6F4<br>6J4                     | 927<br>6L6              |
|                     |                                                |                               |                                 |                                                |                         |
|                     |                                                |                               |                                 |                                                |                         |
|                     |                                                |                               |                                 |                                                |                         |
|                     |                                                |                               |                                 |                                                |                         |

| 1                    | 2                 | 3    | 4          | 5                    | 6                 |
|----------------------|-------------------|------|------------|----------------------|-------------------|
| Type To Be Replaced  |                   |      |            | Replace by RCA Type* | Similar RCA Type† |
| Mfr. Prefix          | Basic Designation | Mfr. | Tube Class |                      |                   |
| GL<br>F<br>F         | 6L4               | RCA  | VPT        | 6L4                  | 5762<br>5762      |
|                      | 6SN7-GTY          | RCA  | VPT        | 6SN7-GTY             |                   |
|                      | 6Q5-G             | D    | T          | 884                  |                   |
|                      | 7BP7              | RCA  | CR         | 7BP7-A               |                   |
|                      | 7BP7-A            | S    | CR         | 7BP7-A               |                   |
|                      | 7BP7-A            | GE   | CR         | 7BP7-A               |                   |
|                      | 7C27              | F    | VPT        |                      |                   |
|                      | 7C30              | F    | VPT        |                      |                   |
|                      | 7CP1              | RCA  | CR         | 7CP1                 |                   |
|                      | 7CP1              | S    | CR         | 7CP1                 |                   |
| ML<br>F              | 7CP4              | RCA  | CR         | 7CP4                 | 5762              |
|                      | 7CP4              | S    | CR         | 7CP4                 |                   |
|                      | 7C24              | RCA  | VPT        | 7C24                 |                   |
|                      | 7C24              | ML   | VPT        | 7C24                 |                   |
|                      | 7C25              | F    | VPT        |                      |                   |
|                      | 7C26              | F    | VPT        |                      |                   |
|                      | 7D21              | GE   | VPT        |                      |                   |
|                      | 7D29              | GE   | VPT        |                      |                   |
|                      | 7MP7              | RCA  | CR         | 7MP7                 |                   |
|                      | 8                 | CE   | P          |                      |                   |
| PJ                   | 8                 | GE   |            | 5556                 | 806<br>809<br>868 |
|                      | 8D21              | RCA  | VPT        | 8D21                 |                   |
|                      | 9C21              | RCA  | VPT        | 9C21                 |                   |
|                      | 9C21              | GE   | VPT        | 9C21                 |                   |
|                      | 9C21              | A    | VPT        | 9C21                 |                   |
|                      | 9C21              | ML   | VPT        | 9C21                 |                   |
|                      | 9C22              | RCA  | VPT        | 9C22                 |                   |
|                      | 9C22              | GE   | VPT        | 9C22                 |                   |
|                      | 9C22              | A    | VPT        | 9C22                 |                   |
|                      | 9C22              | ML   | VPT        | 9C22                 |                   |
| F<br>GE<br>ML        | 9C23              | F    | VPT        |                      | 806<br>809<br>868 |
|                      | 9C24              | GE   | VPT        |                      |                   |
|                      | 9C25              | RCA  | VPT        | 9C25                 |                   |
|                      | 9C25              | M    | VPT        | 9C25                 |                   |
|                      | 9C27              | A    | VPT        | 9C27                 |                   |
|                      | 10KP7             | S    | CR         | 10KP7                |                   |
|                      | 10-Y              | RCA  | VPT        | 10-Y                 |                   |
|                      | 10-Y              | S    | VPT        | 10-Y                 |                   |
|                      | 11                | UE   | VPT        | 834                  |                   |
|                      | 11                | R    | VPT        | 1623                 |                   |
| BW<br>RK<br>CE<br>GL | 11V(A-D)          | CE   | P          | 917                  | 806<br>809<br>868 |
|                      | 12DP7             | RCA  | CR         | 12DP7-A              |                   |
|                      | 12DP7-A           | RCA  | CR         | 12DP7-A              |                   |
|                      | 12DP7-A           | S    | CR         | 12DP7-A              |                   |
|                      | 12DP7-A           | GE   | CR         | 12DP7-A              |                   |
|                      | 12K8-Y            | RCA  | VPT        | 12K8-Y               |                   |
|                      | 12L8-GT           | RCA  | VPT        | 12L8-GT              |                   |
|                      | 12L8-GT           | NU   | VPT        | 12L8-GT              |                   |
|                      | 12SW7             | RCA  | VPT        | 12SW7                |                   |
|                      | 12SX7-GT          | RCA  | VPT        | 12SX7-GT             |                   |
| HV<br>RK<br>CE       | 12SY7             | RCA  | VPT        | 12SY7                | 806<br>809<br>868 |
|                      | 12                | UE   | VPT        |                      |                   |
|                      | 12                | RK   | VPT        |                      |                   |
|                      | 13                | CE   | P          |                      |                   |

| 1                                     | 2                 | 3    | 4          | 5                    | 6                                 |
|---------------------------------------|-------------------|------|------------|----------------------|-----------------------------------|
| Type To Be Replaced                   |                   |      |            | Replace by RCA Type* | Similar RCA Type†                 |
| Mfr. Prefix                           | Basic Designation | Mfr. | Tube Class |                      |                                   |
| CE<br>EL<br>EL<br>DR<br>FG            | 13V               | CE   | P          |                      | 917<br>5557                       |
|                                       | 16B               | EL   | R          |                      |                                   |
|                                       | 16F               | EL   | R          |                      |                                   |
|                                       | 17                | GES  | R          |                      |                                   |
|                                       | 17                | GE   | T          | 5557                 |                                   |
|                                       | 17                | NU   | T          | 5557                 |                                   |
|                                       | 17                | T    | T          | 5557                 |                                   |
|                                       | 17                | CH   | T          | 5557                 |                                   |
|                                       | 18                | CE   | P          |                      |                                   |
|                                       | 18                | UE   | VPT        |                      |                                   |
| CE<br>HV<br>CE<br>FV<br>TV<br>T<br>TZ | 20                | CE   | P          | 927                  | 810<br>8000<br>810<br>1623<br>809 |
|                                       | 20                | UE   | VPT        |                      |                                   |
|                                       | 20                | T    | VPT        |                      |                                   |
|                                       | 20                | T    | VPT        |                      |                                   |
|                                       | 20                | T    | VPT        |                      |                                   |
|                                       | 20A               | RK   | VPT        | 804                  |                                   |
|                                       | 21(A-D)           | CE   | P          | 920                  |                                   |
|                                       | 21                | GE   | VPT        |                      |                                   |
|                                       | 21A               | EM   | R          |                      |                                   |
|                                       | 22(A-D)           | CE   | P          |                      |                                   |
| PJ<br>CE<br>KU<br>KU<br>PJ            | 22                | GE   | P          |                      | 5556<br>1P41<br>917               |
|                                       | 23(A-D)           | CE   | P          | 923                  |                                   |
|                                       | 23                | NU   | VPT        |                      |                                   |
|                                       | 23                | UE   | VPT        |                      |                                   |
|                                       | 23                | GE   | P          | 868                  |                                   |
|                                       | 23                | RK   | VPT        |                      |                                   |
|                                       | 23A               | RK   | VPT        |                      |                                   |
|                                       | 24-G              | A    | VPT        |                      |                                   |
|                                       | 24-G              | GES  | VPT        |                      |                                   |
|                                       | 25T               | EM   | VPT        |                      |                                   |
| CE<br>HY<br>RK<br>RK                  | 25(A-D)           | CE   | P          | 927                  | 809                               |
|                                       | 25                | HY   | VPT        |                      |                                   |
|                                       | 25                | RK   | VPT        | 802                  |                                   |
|                                       | 25B               | RK   | VPT        | 802                  |                                   |
|                                       | 26A6              | RCA  | VPT        | 26A6                 |                                   |
|                                       | 26A7-GT           | RCA  | VPT        | 26A7-GT              |                                   |
|                                       | 26C6              | RCA  | VPT        | 26C6                 |                                   |
|                                       | 26D6              | RCA  | VPT        | 26D6                 |                                   |
|                                       | 27                | RK   | VPT        |                      |                                   |
|                                       | 27A               | GE   | T          |                      |                                   |
| CE<br>RK<br>RK<br>CE                  | 28(A-D)           | CE   | P          | 928                  | 806<br>5559                       |
|                                       | 28                | RK   | VPT        | 803                  |                                   |
|                                       | 28A               | RK   | VPT        | 803                  |                                   |
|                                       | 29(A-D)           | CE   | P          | 929,<br>1P39         |                                   |
|                                       | 30(A-D)           | CE   | P          | 930,<br>1P40         |                                   |
|                                       | 30V               | CE   | P          | 925                  |                                   |
|                                       | 30                | RK   | VPT        | 800                  |                                   |
|                                       | 30Z               | HY   | VPT        |                      |                                   |
|                                       | 31V               | CE   | P          |                      |                                   |
|                                       | 32                | GE   | R          | 5558                 |                                   |
| FG<br>RK<br>WL                        | 33                | GE   | T          |                      | 809<br>919<br>1904                |
|                                       | 33                | RK   | VPT        | 2C21/<br>1642        |                                   |
|                                       | 33                | WL   | T          |                      |                                   |
|                                       | 33                | WL   | T          |                      |                                   |

| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| CE                  | 34                         | CE   | P             | 934                           |                         |
| GL                  | 35T                        | GE   | VPT           |                               | 808                     |
|                     | 35T                        | EM   | VPT           |                               | 808                     |
|                     | 35TG                       | EM   | VPT           |                               | 808                     |
| CE                  | 36(A-D)                    | CE   | P             |                               | 927                     |
| RK                  | 36                         | RK   | VPT           |                               | 806                     |
| RK                  | 37                         | RK   | VPT           |                               | 808                     |
|                     |                            |      |               |                               |                         |
| RK                  | 38                         | RK   | VPT           |                               | 806                     |
| RK                  | 39                         | RK   | VPT           | 807                           |                         |
| HY                  | 40                         | HY   | VPT           |                               | 812-A                   |
| HY                  | 40Z                        | HY   | VPT           |                               | 811-A                   |
| T                   | 40                         | T    | VPT           |                               | 812-A                   |
|                     |                            |      |               |                               |                         |
| TZ                  | 40                         | T    | VPT           |                               | 811-A                   |
| CE                  | 41                         | CE   | P             | 921                           |                         |
| WL                  | 41                         | WL   | T             |                               |                         |
| RK                  | 41                         | RK   | VPT           |                               | 807                     |
| CE                  | 42                         | CE   | P             | 922                           |                         |
|                     |                            |      |               |                               |                         |
| RK                  | 44                         | RK   | VPT           | 837                           |                         |
| RK                  | 46                         | RK   | VPT           |                               | 804                     |
| RK                  | 47                         | RK   | VPT           | 814                           |                         |
| RK                  | 48A                        | RK   | VPT           |                               | 813                     |
| UH                  | 50                         | UE   | VPT           | 834                           |                         |
|                     |                            |      |               |                               |                         |
| SR                  | 50                         | WL   | P             |                               | 917                     |
|                     | 51-A                       | HY   | VPT           |                               | 830-B                   |
| R                   | 51A                        | R    | P             | 927                           |                         |
| HY                  | 51B                        | HY   | VPT           |                               | 830-B                   |
| HY                  | 51Z                        | HY   | VPT           |                               | 838                     |
|                     |                            |      |               |                               |                         |
| RK                  | 51                         | RK   | VPT           |                               | 830-B                   |
| RK                  | 52                         | RK   | VPT           |                               | 811-A                   |
|                     | 53AWB                      | RK   | P             |                               | 927                     |
| SR                  | 53                         | WL   | P             |                               | 917                     |
| CE                  | 54                         | CE   | P             |                               |                         |
|                     |                            |      |               |                               |                         |
| HK                  | 54                         | HK   | VPT           |                               | 808                     |
| CE                  | 55                         | CE   | P             | 924                           |                         |
| T                   | 55                         | NU   | VPT           |                               | 8005                    |

\* RCA types shown in this column are direct replacements under all circumstances for corresponding types to be replaced.

† RCA types shown in this column are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, RCA, Harrison, New Jersey.

| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| T                   | 55                         | UE   | VPT           |                               | 8005                    |
| T                   | 55                         | T    | VPT           |                               | 8005                    |
|                     |                            |      |               |                               |                         |
| HY                  | 57                         | HY   | VPT           |                               | 812-A                   |
| FG                  | 57                         | GE   | T             | 5559                          |                         |
| RK                  | 57                         | RK   | VPT           | 805                           |                         |
| RK                  | 58                         | RK   | VPT           | 838                           |                         |
| R                   | 58A                        | R    | P             |                               | 927                     |
|                     |                            |      |               |                               |                         |
| CE                  | 59                         | CE   | P             | 5581                          |                         |
| R                   | 59A                        | R    | P             | 868, 918                      |                         |
| EL                  | 60B                        | EL   | R             |                               | 917                     |
| CE                  | 60                         | CE   | P             |                               | 8005                    |
| HF                  | 60                         | A    | VPT           |                               |                         |
|                     |                            |      |               |                               |                         |
| SK                  | 60                         | WL   | P             |                               | 868                     |
| T                   | 60                         | T    | VPT           |                               | 8005                    |
| R                   | 60A                        | RK   | P             | 920                           |                         |
| HY                  | 61/807                     | HY   | VPT           | 807                           |                         |
| R                   | 61A                        | R    | P             | 930                           |                         |
|                     |                            |      |               |                               |                         |
| RK                  | 63                         | RK   | VPT           |                               | 806                     |
| SK                  | 63                         | W    | P             |                               | 918                     |
| CE                  | 64                         | CE   | P             | 5583                          |                         |
| RK                  | 64                         | RK   | VPT           |                               | 807                     |
| FG                  | 67                         | GE   | T             | 1904                          |                         |
|                     |                            |      |               |                               |                         |
| HY                  | 69                         | HY   | VPT           |                               | 1624                    |
| R                   | 71A                        | R    | P             |                               | 930,                    |
|                     |                            |      |               |                               | 1P40                    |
| R                   | 71AV                       | R    | P             |                               | 925                     |
|                     | 75TH                       | EM   | VPT           |                               |                         |
|                     | 75TL                       | EM   | VPT           |                               |                         |
|                     |                            |      |               |                               |                         |
| WL                  | 81A                        | WL   | T             |                               |                         |
| R                   | 85A                        | R    | P             |                               | 928                     |
| FP                  | 85                         | GE   | R             |                               | 8020                    |
|                     | 89-Y                       | RCA  | VPT           | 89-Y                          |                         |
| CE                  | 91R                        | CE   | P             | 1P37                          |                         |
|                     |                            |      |               |                               |                         |
| FG                  | 95                         | GE   | T             | 5560                          |                         |
| CE                  | 98                         | CE   | P             | 5582                          |                         |

## KEY TO SYMBOLS IN COLUMN 3

A = Amperex  
CE = Continental Electric (Cetron)  
CH = Chatham Electronics  
D = Dumont  
EE = Electronic Enterprises  
EL = Electrons Inc.  
EM = Eitel-McCullough (Eimac)  
F = Federal Telephone and Radio

GE = General Electric  
GES = General Electronics  
HK = Heinz and Kaufman  
HY = Hytron  
ML = Machlett Laboratories  
NL = National Electronics  
NU = National Union  
R = Rauland

RK = Raytheon  
S = Sylvania  
T = Taylor  
TS = Tung-Sol  
UE = United Electronics  
WE = Western Electric  
WL = Westinghouse  
WT = Weltronic

## KEY TO SYMBOLS IN COLUMN 4

CM = Camera Tube or Monoscope  
CR = Cathode-Ray Tube  
G = Glow Tube

GA = Gauge Tube  
I = Ignitron  
P = Phototube  
R = Rectifier

RT = Receiving Tube  
T = Thyatron  
VPT = Vacuum Power Tube

| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
|                     | 100R                       | EM   | R             |                               | 8020                    |
|                     | 100TH                      | EM   | VPT           |                               | 810                     |
|                     | 100TH                      | NU   | VPT           |                               | 810                     |
|                     | 100TL                      | EM   | VPT           |                               | 8000                    |
| HF                  | 100                        | A    | VPT           |                               | 8005                    |
| ML                  | 100/5575                   | ML   | R             |                               |                         |
| ML                  | 102                        | ML   | R             |                               |                         |
| ML                  | 103                        | ML   | R             |                               |                         |
| FG                  | 104                        | GE   | R             | 5561                          |                         |
|                     | 105                        | RCA  | T             | 105                           |                         |
| FG                  | 105                        | GE   | T             | 105                           |                         |
| WL                  | 105                        | WL   | T             | 105                           |                         |
| ML                  | 106                        | ML   | R             |                               |                         |
| ML                  | 108                        | ML   | R             |                               |                         |
| ML                  | 110                        | ML   | R             |                               |                         |
|                     | 111H                       | A    | VPT           |                               | 812-A                   |
| ML                  | 115                        | ML   | R             |                               |                         |
| ML                  | 120                        | ML   | R             |                               |                         |
| HF                  | 120                        | A    | VPT           | 211                           |                         |
| ZB                  | 120                        | A    | VPT           |                               | 838                     |
| F                   | 123-A                      | F    | VPT           |                               | 806                     |
| F                   | 124-A                      | F    | VPT           |                               |                         |
| F                   | 124-R                      | F    | VPT           |                               |                         |
| HF                  | 125                        | A    | VPT           |                               | 8005                    |
| T                   | 125                        | T    | VPT           |                               | 810                     |
| F                   | 127-A                      | F    | VPT           |                               | 810                     |
| F                   | 128-A                      | F    | VPT           |                               | 851                     |
| HF                  | 130                        | A    | VPT           |                               | 835                     |
| HF                  | 140                        | A    | VPT           |                               | 211                     |
| GL                  | 146                        | GE   | VPT           |                               | 805                     |
| AB                  | 150                        | A    | VPT           |                               | 845                     |
| GL                  | 152                        | GE   | VPT           |                               | 805                     |
|                     | 152TH                      | EM   | VPT           |                               | 806                     |
|                     | 152TL                      | EM   | VPT           |                               | 806                     |
| FG                  | 154                        | GE   | T             |                               |                         |
| HK                  | 154                        | HK   | VPT           |                               | 808                     |
| T                   | 155                        | T    | VPT           |                               | 806                     |
| GL                  | 159                        | GE   | VPT           |                               |                         |
|                     | 172                        | RCA  | T             | 172                           |                         |
| FG                  | 172                        | GE   | T             | 172                           |                         |
| WL                  | 172                        | WL   | T             | 172                           |                         |
| ML                  | 200/5576                   | ML   | R             |                               |                         |
| HF                  | 200                        | A    | VPT           |                               | 8000                    |
| T                   | 200                        | T    | VPT           |                               | 806                     |
| HF                  | 200                        | ML   | VPT           |                               | 8000                    |
| DR                  | 200                        | GES  | VPT           |                               |                         |
| CE                  | 202                        | CE   | R             |                               |                         |
| CE                  | 203                        | CE   | R             |                               |                         |
|                     | 203-A                      | RCA  | VPT           | 203-A                         |                         |
| WL                  | 203-A                      | WL   | VPT           | 203-A                         |                         |
| GL                  | 203-A                      | GE   | VPT           | 203-A                         |                         |
|                     | 203-A                      | NU   | VPT           | 203-A                         |                         |
|                     | 203-A                      | UE   | VPT           | 203-A                         |                         |
|                     | 203-A                      | A    | VPT           | 203-A                         |                         |
|                     | 203-A                      | T    | VPT           | 203-A                         |                         |

| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
|                     | 203-H                      | A    | VPT           |                               | 203-A                   |
|                     | 203-Z                      | T    | VPT           |                               | 838                     |
|                     | 204-A                      | RCA  | VPT           | 204-A                         |                         |
| WL                  | 204-A                      | WL   | VPT           | 204-A                         |                         |
| GL                  | 204-A                      | GE   | VPT           | 204-A                         |                         |
| F                   | 204-A                      | F    | VPT           | 204-A                         |                         |
|                     | 204-A                      | UE   | VPT           | 204-A                         |                         |
|                     | 204-A                      | A    | VPT           | 204-A                         |                         |
| CE                  | 204-A                      | T    | VPT           | 204-A                         |                         |
|                     | 205D                       | WE   | VPT           |                               | 10-Y                    |
|                     | 205E                       | WE   | VPT           |                               | 10-Y                    |
| CE                  | 205                        | CE   | R             |                               |                         |
|                     | 206                        | CE   | R             |                               |                         |
|                     | 207                        | RCA  | VPT           | 207                           |                         |
| WL                  | 207                        | WL   | VPT           | 207                           |                         |
| GL                  | 207                        | GE   | VPT           | 207                           |                         |
| UE                  | 207                        | UE   | VPT           | 207                           |                         |
|                     | 207                        | A    | VPT           | 207                           |                         |
| ML                  | 207                        | M    | VPT           | 207                           |                         |
| WT                  | 210-0001                   | WT   | T             | 2D21                          |                         |
| WT                  | 210-0003                   | WT   | T             | 884                           |                         |
| WT                  | 210-0004                   | WT   | T             | 2050                          |                         |
| WT                  | 210-0005                   | WT   | RT            |                               |                         |
| WT                  | 210-0006                   | WT   | RT            | 6H6                           |                         |
| WT                  | 210-0007                   | WT   | RT            |                               | 6L6                     |
| WT                  | 210-0008                   | WT   | R             | 866-A                         |                         |
| WT                  | 210-0009                   | WT   | RT            | 84/6Z4                        |                         |
| WT                  | 210-0011                   | WT   | G             | 0C3                           |                         |
| WT                  | 210-0012                   | WT   | RT            | 80                            |                         |
| WT                  | 210-0013                   | WT   | RT            | 5Z3                           |                         |
| WT                  | 210-0014                   | WT   | RT            | 5W4-GT                        |                         |
| WT                  | 210-0015                   | WT   | T             | 5557                          |                         |
| WT                  | 210-0016                   | WT   | G             |                               |                         |
| WT                  | 210-0018                   | WT   | G             | 0D3                           |                         |
| WT                  | 210-0019                   | WT   | RT            | 83                            |                         |
| WT                  | 210-0021                   | WT   | RT            | 6X5                           |                         |
| WT                  | 210-0021                   | WT   | RT            | 6X5-GT                        |                         |
| WT                  | 210-0025                   | WT   | RT            | 117Z6-GT                      |                         |
| WT                  | 210-0027                   | WT   | R             | 872-A                         |                         |
| WT                  | 210-0028                   | WT   | RT            | 3Q5-GT                        |                         |
| WT                  | 210-0029                   | WT   | RT            | 6C5                           |                         |
| WT                  | 210-0030                   | WT   | RT            | 6E6                           |                         |
| WT                  | 210-0031                   | WT   | CR            | 902-A                         |                         |
| WT                  | 210-0037                   | WT   | RT            | 117L7/M7-GT                   |                         |
| WT                  | 210-0038                   | WT   | T             | 172                           |                         |
| WT                  | 210-0040                   | WT   | RT            | 6X4                           |                         |
| WT                  | 210-0042                   | WT   | RT            | 5Y3-GT                        |                         |
| WT                  | 210-0044                   | WT   | T             | 575-A                         |                         |
| WT                  | 210-0045                   | WT   | VPT           | 892                           |                         |
| WT                  | 210-0048                   | WT   | RT            | 5U4-C                         |                         |
| WT                  | 210-0052                   | WT   | CR            | 2AP1-A                        |                         |
| WT                  | 210-0053                   | WT   | CR            | 3AP1-A                        |                         |
| WT                  | 210-0056                   | WT   | T             | 5559                          |                         |



| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| WT                  | 210-0057                   | WT   | T             | 5560                          | 3C23                    |
| WT                  | 210-0058                   | WT   | T             | 676                           |                         |
| WT                  | 210-0060                   | WT   | G             | 0Z4                           |                         |
| WT                  | 210-0061                   | WT   | RT            | 117N7-GT                      |                         |
| WT                  | 210-0062                   | WT   | T             | 5557                          |                         |
| WT                  | 210-0067                   | WT   | T             |                               |                         |
| WT                  | 210-0069                   | WT   | T             | 5557                          |                         |
| WT                  | 210-0070                   | WT   | I             | 5550                          |                         |
| WT                  | 210-0071                   | WT   | I             | 5551                          |                         |
| WT                  | 210-0072                   | WT   | I             | 5552                          |                         |
| WT                  | 210-0073                   | WT   | I             | 5553                          |                         |
| WT                  | 210-0074                   | WT   | T             | 105                           |                         |
| WT                  | 210-0078                   | WT   | T             | 172                           |                         |
| WT                  | 210-0079                   | WT   | T             | 105                           |                         |
| WT                  | 210-0081                   | WT   | RT            | 6SJ7                          |                         |
| WT                  | 210-0082                   | WT   | RT            | 6V6                           |                         |
| WT                  | 210-0083                   | WT   | RT            | 7K7                           |                         |
| WT                  | 210-0084                   | WT   | RT            | 6N7                           |                         |
| WT                  | 210-0084                   | WT   | RT            | 6N7-GT                        |                         |
| WT                  | 210-0085                   | WT   | RT            | 50B5                          |                         |
| WT                  | 210-0086                   | WT   | VPT           | 833-A                         |                         |
| WT                  | 210-0087                   | WT   | RT            | 6K8                           |                         |
| WT                  | 210-0087                   | WT   | RT            | 6K8-GT                        |                         |
| WT                  | 210-0088                   | WT   | RT            | 6J5                           |                         |
| WT                  | 210-0088                   | WT   | RT            | 6J5-GT                        |                         |
| WT                  | 210-0089                   | WT   | RT            | 6G6-G                         |                         |
| WT                  | 210-0090                   | WT   | RT            | 6C6                           |                         |
| WT                  | 210-0091                   | WT   | G             | 0A4-G                         |                         |
| WL                  | 211                        | RCA  | VPT           | 211                           |                         |
| WL                  | 211                        | WL   | VPT           | 211                           |                         |
| GL                  | 211                        | GE   | VPT           | 211                           |                         |
| GL                  | 211                        | NU   | VPT           | 211                           |                         |
| UE                  | 211                        | UE   | VPT           | 211                           |                         |
| UE                  | 211                        | A    | VPT           | 211                           |                         |
| UE                  | 211                        | T    | VPT           | 211                           |                         |

| 1                   | 2                          | 3    | 4             | 5                                | 6                       |
|---------------------|----------------------------|------|---------------|----------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type*    | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                                  |                         |
| T                   | 211C                       | T    | VPT           | 211<br>211                       | 835                     |
|                     | 211C                       | A    | VPT           |                                  | 835                     |
|                     | 211D                       | WE   | VPT           |                                  |                         |
|                     | 211D                       | A    | VPT           |                                  |                         |
|                     | 211E                       | WE   | VPT           |                                  | 835                     |
|                     | 211H                       | A    | VPT           |                                  | 211                     |
| RX                  | 212                        | RK   | R             | 217-C<br>217-C<br>217-C<br>217-C |                         |
| F                   | 212E                       | F    | VPT           |                                  |                         |
| CE                  | 213                        | CE   | R             |                                  | 217-C                   |
|                     | 214E                       | WE   | R             |                                  |                         |
| CE                  | 215                        | CE   | R             |                                  |                         |
| RX                  | 215                        | RK   | R             |                                  |                         |
|                     | 217-C                      | RCA  | R             | 217-C<br>217-C<br>217-C<br>217-C |                         |
| GL                  | 217-C                      | GE   | R             |                                  |                         |
|                     | 217-C                      | NU   | R             |                                  |                         |
|                     | 217-C                      | UE   | R             |                                  |                         |
|                     | 220C                       | WE   | VPT           |                                  | 892                     |
| F                   | 222A                       | F    | VPT           |                                  |                         |
|                     | Z-225/<br>866A             | NU   | R             | 866-A                            |                         |
|                     | Z-225/<br>866A             | UE   | R             | 866-A                            |                         |
| CE                  | 225                        | CE   | R             | 4B26/<br>2000<br>5552<br>5555    | 4B26/2000               |
| CE                  | 226                        | CE   | R             |                                  |                         |
| FG                  | 235A                       | GE   | I             |                                  |                         |
| FG                  | 238B                       | GE   | I             |                                  |                         |
|                     | 241B                       | WE   | VPT           |                                  | 833-A                   |
|                     | 242A                       | WE   | VPT           |                                  |                         |
|                     | 242B                       | WE   | VPT           | 211<br>211<br>884<br>2050        | 211                     |
|                     | 242C                       | WE   | VPT           |                                  |                         |
| WT                  | 245                        | WT   | T             |                                  |                         |
| WT                  | 246                        | WT   | T             |                                  |                         |
|                     | 248-A                      | WE   | VPT           |                                  |                         |
|                     | 249A                       | WE   | R             |                                  | 866-A                   |
|                     | 249B                       | WE   | R             |                                  | 866-A                   |

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RK = Raytheon  
S = Sylvania  
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TS = Tung-Sol  
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WE = Western Electric  
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WT = Weltronic

## KEY TO SYMBOLS IN COLUMN 4

CM = Camera Tube or Monoscope  
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VPT = Vacuum Power Tube

| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| DR                  | 250R                       | EM   | VPT           |                               | 810                     |
|                     | 250TH                      | EM   | VPT           |                               |                         |
|                     | 250TH                      | GES  | VPT           |                               |                         |
|                     | 250TL                      | EM   | VPT           |                               |                         |
| HF                  | 250                        | A    | VPT           |                               | 8000                    |
|                     | 251A                       | WE   | VPT           |                               |                         |
|                     | 251A                       | A    | VPT           |                               |                         |
|                     | 251A                       | A    | VPT           |                               |                         |
| HK                  | 254B                       | WE   | VPT           |                               | 865                     |
|                     | 254                        | HK   | VPT           |                               |                         |
|                     | 255A                       | WE   | R             |                               |                         |
|                     | 255B                       | WE   | R             |                               |                         |
| HK                  | 257(B)                     | HK   | VPT           | 4E27/<br>8001                 | 869-B                   |
|                     |                            |      |               |                               |                         |
| FG                  | 258A                       | GE   | I             | 5553                          | 866-A                   |
|                     | 258B                       | WE   | R             |                               |                         |
| FG                  | 258B                       | A    | R             | 5554                          | 866-A                   |
|                     | 259B                       | GE   | I             |                               |                         |
| WT                  | 260A                       | WE   | VPT           | 6H6                           | 860                     |
|                     |                            |      |               |                               |                         |
| WT                  | 261                        | WT   | RT            | 835                           | 835                     |
|                     | 261A                       | A    | VPT           |                               |                         |
| WT                  | 261A                       | WE   | VPT           | 835                           | 866-A                   |
|                     | 262                        | WT   | R             |                               |                         |
| WT                  | 263                        | WT   | R             | 6Z4                           | 857-B                   |
|                     |                            |      |               |                               |                         |
| F                   | 266B                       | F    | R             |                               | 857-B                   |
|                     | 266B                       | WE   | R             |                               |                         |
| GL                  | 266B                       | GE   | R             |                               | 857-B                   |
|                     | 266C                       | WE   | R             |                               |                         |
|                     | 267B                       | A    | R             |                               | 872-A                   |
|                     |                            |      |               |                               |                         |
| WT                  | 267B                       | WE   | R             | 0C3                           | 872-A                   |
|                     | 269                        | WT   | G             |                               |                         |
| WT                  | 270                        | WT   | RT            | 80                            | 5Z3                     |
|                     | 270X                       | RT   | RT            |                               |                         |
| FG                  | 271                        | GE   | I             | 5551                          | 5W4-GT                  |
|                     |                            |      |               |                               |                         |
| WT                  | 271                        | WT   | RT            | 5557                          | 5557                    |
|                     | 272                        | WT   | T             |                               |                         |
| WT                  | 274                        | WT   | G             |                               | 5R4-GY                  |
|                     | 274A                       | WE   | R             |                               |                         |
|                     | 274B                       | WE   | R             | 5R4-GY                        |                         |
|                     |                            |      |               |                               |                         |
| FG                  | 280                        | GE   | R             |                               | 845                     |
|                     | 284A                       | WE   | VPT           |                               |                         |
|                     | 284B                       | WE   | VPT           |                               | 845                     |
|                     | 284D                       | WE   | VPT           |                               |                         |
| T                   | 282A                       | T    | VPT           |                               | 8000                    |
|                     |                            |      |               |                               |                         |
| WL                  | 285                        | WL   | VPT           |                               | 5557                    |
|                     | 287A                       | WE   | T             |                               |                         |
|                     | 289A                       | WE   | R             | 4B26/<br>2000                 | 203-A                   |
|                     |                            |      |               |                               |                         |
| WT                  | 294                        | WT   | G             | 0D3                           |                         |
|                     | 295A                       | WE   | VPT           |                               |                         |
|                     | 298A                       | WE   | VPT           |                               | 862-A                   |
|                     |                            |      |               |                               |                         |
| DR                  | 300                        | GES  | VPT           |                               | 806                     |
|                     | 300                        | ML   | VPT           |                               |                         |
| HF                  | 300                        | A    | VPT           |                               | 806                     |
|                     | 300                        | A    | VPT           |                               |                         |
| WT                  | 301                        | WT   | R             | 83                            | 806                     |
|                     |                            |      |               |                               |                         |
| CE                  | 302(722-A)                 | CE   | R             |                               |                         |

| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| UE                  | 303A                       | UE   | VPT           | 203-A                         |                         |
|                     | 304A                       | WE   | VPT           |                               |                         |
|                     | 304B                       | WE   | VPT           |                               |                         |
|                     | 304TH                      | RCA  | VPT           |                               |                         |
| DR                  | 304TH                      | EM   | VPT           | 304-TH                        |                         |
|                     | 304TH                      | GES  | VPT           |                               |                         |
|                     | 305                        | CE   | T             |                               |                         |
|                     | 306                        | CE   | T             |                               |                         |
| CE                  | 307A                       | CE   | T             | 207                           | 676                     |
|                     |                            | F    | VPT           |                               |                         |
| WT                  | 307A                       | WE   | VPT           | 6X5-GT                        | 807                     |
|                     | 308                        | WT   | RT            |                               |                         |
| CE                  | 309                        | CE   | T             | 5557                          | 1620                    |
|                     | 310B                       | WE   | VPT           |                               |                         |
| UE                  | 311                        | UE   | VPT           | 211                           |                         |
|                     |                            |      |               |                               |                         |
| UE                  | 311-T                      | UE   | VPT           |                               | 8003                    |
|                     | 311-CT                     | UE   | VPT           |                               |                         |
| CE                  | 311                        | CE   | T             | 3C23                          | 8003                    |
|                     | 312A                       | WE   | VPT           |                               |                         |
|                     | 313C                       | WE   | G             |                               | 828                     |
|                     |                            |      |               |                               |                         |
| F                   | 315A                       | F    | R             |                               | 1C21                    |
|                     | 315A                       | WE   | R             |                               |                         |
|                     | 315A                       | A    | R             |                               | 673                     |
|                     | 315A                       | ML   | R             |                               |                         |
| ML                  | 315A                       | ML   | R             | 217-C                         | 673                     |
|                     | 317C                       | UE   | R             |                               |                         |
| UE                  | 317C                       | UE   | R             |                               | 673                     |
|                     |                            |      |               |                               |                         |
| F                   | 318A                       | F    | R             |                               | 673                     |
|                     | 319A                       | ML   | R             |                               |                         |
| ML                  | 319A                       | F    | R             |                               | 872-A                   |
|                     | 319A                       | WE   | R             |                               |                         |
| F                   | 319A                       | F    | R             |                               | 872-A                   |
|                     | 320B                       | F    | VPT           |                               |                         |
|                     | 321A                       | WE   | R             |                               | 673                     |
|                     | 321A                       | ML   | R             |                               |                         |
| ML                  | 322A                       | WE   | VPT           | 803                           | 673                     |
|                     | 323B                       | UE   | T             |                               |                         |
| UE                  | 323B                       | NE   | T             |                               | 3C23                    |
|                     |                            |      |               |                               |                         |
| NL                  | 331A                       | WE   | VPT           | 805                           |                         |
|                     | 339A                       | WE   | VPT           |                               |                         |
|                     | 341AA                      | WE   | VPT           |                               | 807                     |
|                     | 342A                       | F    | VPT           |                               |                         |
| F                   | 343A                       | A    | VPT           |                               | 858                     |
|                     |                            |      |               |                               |                         |
|                     | 346A                       | F    | VPT           |                               | 1620                    |
|                     | 348A                       | WE   | VPT           |                               |                         |
| F                   | 350A                       | WE   | VPT           | 807                           |                         |
|                     | 350B                       | WE   | VPT           |                               |                         |
|                     | 353-A                      | F    | R             |                               | 807                     |
|                     |                            |      |               |                               |                         |
|                     | 356A                       | WE   | VPT           |                               | 872-A                   |
|                     | 356B                       | WE   | VPT           |                               |                         |
|                     | 357B                       | WE   | VPT           |                               | 806                     |
|                     | 359A                       | WE   | G             |                               |                         |
|                     | 361A                       | WE   | VPT           |                               | 833-A                   |
|                     |                            |      |               |                               |                         |
|                     | 366A                       | WE   | R             | 866-A                         | 1C21                    |
|                     | 375A                       | F    | R             |                               |                         |
| F                   | 376A                       | WE   | VPT           |                               | 835                     |
|                     | 376A                       | F    | VPT           |                               |                         |
| WT                  | 377                        | WT   | RT            | 117Z6-<br>GT                  | 835                     |
|                     |                            |      |               |                               |                         |
| WT                  | 389                        | WT   | RT            | 3Q5-GT                        |                         |

| 1                   | 2                         | 3    | 4             | 5                             | 6                       |
|---------------------|---------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                           |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>ation | Mfr. | Tube<br>Class |                               |                         |
| WT                  | 390                       | WF   | RT            | 6C5                           |                         |
|                     | 393A                      | WE   | T             |                               | 3C23                    |
| UE                  | 393A                      | UE   | T             |                               | 3C23                    |
| NL                  | 393A                      | NE   | T             |                               | 3C23                    |
| CE                  | 393A                      | CE   | T             |                               | 3C23                    |
|                     | 394A                      | CH   | T             |                               | 627                     |
|                     | 394A                      | WE   | T             |                               | 627                     |
|                     | 395A                      | WE   | T             |                               | 5823                    |
|                     | 397A                      | WE   | K             | 2K56                          |                         |
|                     | 403A                      | WE   | VPT           | 6AK5                          |                         |
|                     | 403B                      | WE   | VPT           |                               | 6AK5                    |
| FJ                  | 401                       | GE   | P             | 1P29                          |                         |
| GL                  | 411                       | GE   | R             |                               |                         |
| WL                  | 414                       | WL   | T             |                               |                         |
| GL                  | 415                       | GE   | I             | 5550                          |                         |
| GL                  | 427                       | GE   | I             |                               |                         |
| WT                  | 431                       | WT   | RT            | 6E6                           |                         |
|                     | 450TH                     | EM   | VPT           |                               |                         |
|                     | 450TL                     | EM   | VPT           |                               |                         |
| GL                  | 451                       | GE   | R             | 8020                          |                         |
| WL                  | 456                       | WL   | R             |                               | 806                     |
| WL                  | 463                       | WL   | VPT           |                               | 810                     |
| WL                  | 468                       | WL   | VPT           |                               | 8013-A                  |
| WL                  | 481                       | WL   | R             |                               |                         |
| WL                  | 471                       | WL   | VPT           |                               | 8003                    |
|                     | 502-A                     | RCA  | T             | 502-A                         |                         |
| GL                  | 502-A                     | GE   | T             | 502-A                         |                         |
| WL                  | 502-A                     | WL   | T             | 502-A                         |                         |
| GL                  | 546                       | GE   | T             |                               | 5696                    |
|                     | 559                       | RCA  | VPT           | 559                           |                         |
|                     | 575-A                     | RCA  | R             | 575-A                         |                         |
| WL                  | 575-A                     | WL   | R             | 575-A                         |                         |
| GL                  | 575-A                     | GE   | R             | 575-A                         |                         |
| F                   | 575-A                     | F    | R             | 575-A                         |                         |
| ML                  | 575-A                     | ML   | R             | 575-A                         |                         |

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|---------------------|---------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                           |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>ation | Mfr. | Tube<br>Class |                               |                         |
| DR                  | 575-A                     | GES  | R             | 575-A                         |                         |
|                     | 575-A                     | A    | R             | 575-A                         |                         |
|                     | 575-A                     | NU   | R             | 575-A                         |                         |
|                     | 575-A                     | EE   | R             | 575-A                         |                         |
| GL                  | 592                       | GE   | VPT           |                               |                         |
|                     | 579-B                     | RCA  | R             | 579-B                         |                         |
| WL                  | 579-B                     | WL   | R             | 579-B                         |                         |
| NL                  | 600                       | NE   | R             |                               |                         |
| NL                  | 602                       | NE   | R             |                               |                         |
| NL                  | 604                       | NE   | R             |                               |                         |
| WT                  | 606                       | WT   | T             | 2D21                          |                         |
| NL                  | 615                       | NE   | R             |                               | 5558                    |
|                     | 627                       | RCA  | T             | 627                           |                         |
| NL                  | 627                       | NE   | T             | 627                           |                         |
| KU                  | 627                       | WL   | T             | 627                           |                         |
| GL                  | 627                       | GE   | T             | 627                           |                         |
|                     | 629                       | RCA  | T             | 629                           |                         |
| WL                  | 629                       | WL   | T             | 629                           |                         |
| WL                  | 630                       | WL   | T             | 2050                          |                         |
| WL                  | 631                       | WL   | T             | 5559                          |                         |
| WL                  | 632A                      | WL   | T             |                               | 5560                    |
| WL                  | 632B                      | WL   | T             |                               | 5560                    |
| KU                  | 634                       | WL   | T             | 677                           |                         |
| NL                  | 635                       | NE   | R             |                               |                         |
| NL                  | 649/5834                  | NE   | R             |                               |                         |
| WL                  | 651/656                   | WL   | I             | 5552                          |                         |
| WL                  | 652/657                   | WL   | I             | 5551                          |                         |
| WL                  | 653B                      | WL   | I             | 5555                          |                         |
| NL                  | 653/5835                  | NE   | R             |                               |                         |
| WL                  | 655/658                   | WL   | I             | 5553                          |                         |
|                     | 672                       | RCA  | T             | 672-A                         |                         |
| GL                  | 672                       | GE   | T             | 672-A                         |                         |
| WL                  | 672                       | WL   | T             | 672-A                         |                         |
|                     | 672-A                     | RCA  | T             | 672-A                         |                         |
| WL                  | 672-A                     | WL   | T             | 672-A                         |                         |
|                     | 673                       | RCA  | R             | 673                           |                         |

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|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| GL                  | 673                        | GE   | R             | 673                           |                         |
|                     | 676                        | RCA  | T             | 676                           |                         |
| KU                  | 676                        | WL   | T             | 676                           |                         |
|                     | 677                        | RCA  | T             | 677                           |                         |
| WL                  | 677                        | WL   | T             | 677                           |                         |
| WL                  | 678                        | WL   | T             |                               | 5563                    |
| GL                  | 678                        | GE   | T             |                               | 5563                    |
| WL                  | 679                        | WL   | I             | 5554                          |                         |
| WL                  | 681/686                    | WL   | I             | 5550                          |                         |
| WT                  | 699                        | WT   | RT            | 117L7/<br>M7-GT               |                         |
| NL                  | 710                        | NL   | T             |                               | 676                     |
| NL                  | 714                        | NL   | T             |                               | 5557                    |
| NL                  | 715/5557                   | NL   | T             | 5557                          |                         |
|                     | 715-C                      | RCA  | VPT           | 715-C                         |                         |
| RK                  | 715C                       | RK   | VPT           | 715-C                         |                         |
| DR                  | 715C                       | GES  | VPT           | 715-C                         |                         |
| WL                  | 734                        | WL   | P             |                               | 917                     |
| WL                  | 735                        | WL   | P             | 868                           |                         |
| WL                  | 739                        | WL   | P             |                               | 927                     |
| WL                  | 741                        | WL   | P             |                               | 923                     |
|                     | 750TL                      | EM   | VPT           |                               |                         |
| T                   | 756                        | T    | VPT           |                               | 809                     |
| WL                  | 759                        | WL   | T             |                               |                         |
| WL                  | 787                        | WL   | VPT           |                               |                         |
|                     | 800                        | RCA  | VPT           | 800                           |                         |
| GL                  | 800                        | GE   | VPT           | 800                           |                         |
|                     | 801                        | RCA  | VPT           | 801-A                         |                         |
|                     | 801-A/<br>801              | S    | VPT           | 801-A                         |                         |
|                     | 801-A/<br>801              | HY   | VPT           | 801-A                         |                         |
|                     | 801-A                      | RCA  | VPT           | 801-A                         |                         |
| DR                  | 801-A                      | GES  | VPT           | 801-A                         |                         |
|                     | 801-A                      | A    | VPT           | 801-A                         |                         |
| WL                  | 801-A                      | WL   | VPT           | 801-A                         |                         |
| GL                  | 801-A                      | GE   | VPT           | 801-A                         |                         |
|                     | 801-A                      | NU   | VPT           | 801-A                         |                         |
|                     | 802                        | RCA  | VPT           | 802                           |                         |
| WL                  | 802                        | A    | VPT           | 802                           |                         |
|                     | 802                        | WL   | VPT           | 802                           |                         |
| GL                  | 802                        | GE   | VPT           | 802                           |                         |
|                     | 802                        | NU   | VPT           | 802                           |                         |
|                     | 803                        | RCA  | VPT           | 803                           |                         |
| DR                  | 803                        | GES  | VPT           | 803                           |                         |
|                     | 803                        | A    | VPT           | 803                           |                         |
| WL                  | 803                        | WL   | VPT           | 803                           |                         |
| GL                  | 803                        | GE   | VPT           | 803                           |                         |
| T                   | 803                        | T    | VPT           | 803                           |                         |
|                     | 803                        | NU   | VPT           | 803                           |                         |
|                     | 804                        | RCA  | VPT           | 804                           |                         |
|                     | 804                        | NU   | VPT           | 804                           |                         |
|                     | 805                        | RCA  | VPT           | 805                           |                         |
| ML                  | 805                        | ML   | VPT           | 805                           |                         |
|                     | 805                        | A    | VPT           | 805                           |                         |

| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| UE                  | 805                        | UE   | VPT           | 805                           |                         |
| GL                  | 805                        | GE   | VPT           | 805                           |                         |
| DR                  | 805                        | GES  | VPT           | 805                           |                         |
| WL                  | 805                        | WL   | VPT           | 805                           |                         |
| T                   | 805                        | T    | VPT           | 805                           |                         |
|                     | 805                        | NU   | VPT           | 805                           |                         |
|                     | 806                        | RCA  | VPT           | 806                           |                         |
|                     | 806                        | A    | VPT           | 806                           |                         |
| WL                  | 806                        | WL   | VPT           | 806                           |                         |
| GL                  | 806                        | GE   | VPT           | 806                           |                         |
|                     | 807                        | RCA  | VPT           | 807                           |                         |
|                     | 807                        | NU   | VPT           | 807                           |                         |
|                     | 807                        | A    | VPT           | 807                           |                         |
| WL                  | 807                        | WL   | VPT           | 807                           |                         |
| GL                  | 807                        | GE   | VPT           | 807                           |                         |
|                     | 807                        | TS   | VPT           | 807                           |                         |
|                     | 807                        | RK   | VPT           | 807                           |                         |
| DR                  | 807                        | GES  | VPT           | 807                           |                         |
|                     | 808                        | NU   | VPT           | 808                           |                         |
|                     | 808                        | RCA  | VPT           | 808                           |                         |
| DR                  | 808                        | GES  | VPT           | 808                           |                         |
| WL                  | 808                        | WL   | VPT           | 808                           |                         |
| EE                  | 808                        | EE   | VPT           | 808                           |                         |
|                     | 809                        | RCA  | VPT           | 809                           |                         |
|                     | 809                        | NU   | VPT           | 809                           |                         |
| WL                  | 809                        | WL   | VPT           | 809                           |                         |
| GL                  | 809                        | GE   | VPT           | 809                           |                         |
|                     | 809                        | S    | VPT           | 809                           |                         |
| DR                  | 809                        | GES  | VPT           | 809                           |                         |
|                     | 810                        | RCA  | VPT           | 810                           |                         |
|                     | 810                        | NU   | VPT           | 810                           |                         |
| ML                  | 810                        | ML   | VPT           | 810                           |                         |
| T                   | 810                        | T    | VPT           | 810                           |                         |
|                     | 810                        | S    | VPT           | 810                           |                         |
| WL                  | 810                        | WL   | VPT           | 810                           |                         |
| DR                  | 810                        | GES  | VPT           | 810                           |                         |
|                     | 810                        | A    | VPT           | 810                           |                         |
| UE                  | 810                        | UE   | VPT           | 810                           |                         |
| GL                  | 810                        | GE   | VPT           | 810                           |                         |
|                     | 811                        | RCA  | VPT           | 811-A                         |                         |
|                     | 811                        | NU   | VPT           | 811-A                         |                         |
|                     | 811                        | A    | VPT           | 811-A                         |                         |
| WL                  | 811                        | WL   | VPT           | 811-A                         |                         |
| GL                  | 811                        | GE   | VPT           | 811-A                         |                         |
|                     | 811                        | S    | VPT           | 811-A                         |                         |
| DR                  | 811                        | GES  | VPT           | 811-A                         |                         |
|                     | 811-A                      | RCA  | VPT           | 811-A                         |                         |
|                     | 812                        | RCA  | VPT           | 812-A                         |                         |
|                     | 812                        | NU   | VPT           | 812-A                         |                         |
|                     | 812                        | A    | VPT           | 812-A                         |                         |
| WL                  | 812                        | WL   | VPT           | 812-A                         |                         |
| GL                  | 812                        | GE   | VPT           | 812-A                         |                         |
|                     | 812                        | S    | VPT           | 812-A                         |                         |
| DR                  | 812                        | GES  | VPT           | 812-A                         |                         |
|                     | 812-A                      | RCA  | VPT           | 812-A                         |                         |

# RCA INTERCHANGEABILITY DIRECTORY

ML-813 to 834

| 1                   | 2                 | 3    | 4          | 5                    | 6                 |
|---------------------|-------------------|------|------------|----------------------|-------------------|
| Type To Be Replaced |                   |      |            | Replace by RCA Type* | Similar RCA Type† |
| Mfr. Prefix         | Basic Designation | Mfr. | Tube Class |                      |                   |
| ML                  | 813               | M    | VPT        | 813                  |                   |
|                     | 813               | RCA  | VPT        | 813                  |                   |
|                     | 813               | NU   | VPT        | 813                  |                   |
| T                   | 813               | T    | VPT        | 813                  |                   |
| RK                  | 813               | RK   | VPT        | 813                  |                   |
| WL                  | 813               | WL   | VPT        | 813                  |                   |
| DR                  | 813               | GES  | VPT        | 813                  |                   |
|                     | 813               | A    | VPT        | 813                  |                   |
| GL                  | 813               | GE   | VPT        | 813                  |                   |
|                     | 813               | S    | VPT        | 813                  |                   |
|                     | 814               | RCA  | VPT        | 814                  |                   |
|                     | 814               | NU   | VPT        | 814                  |                   |
| WL                  | 814               | WL   | VPT        | 814                  |                   |
| GL                  | 814               | GE   | VPT        | 814                  |                   |
| RK                  | 814/RK47          | RK   | VPT        | 814                  |                   |
| T                   | 814               | T    | VPT        | 814                  |                   |
|                     | 815               | RCA  | VPT        | 815                  |                   |
|                     | 815               | NU   | VPT        | 815                  |                   |
| WL                  | 815               | WL   | VPT        | 815                  |                   |
| GL                  | 815               | GE   | VPT        | 815                  |                   |
|                     | 815               | S    | VPT        | 815                  |                   |
|                     | 816               | RCA  | R          | 816                  |                   |
|                     | 816               | NU   | R          | 816                  |                   |
| DR                  | 816               | GES  | R          | 816                  |                   |
|                     | 816               | A    | R          | 816                  |                   |
| WL                  | 816               | WL   | R          | 816                  |                   |
| GL                  | 816               | GE   | R          | 816                  |                   |
|                     | 816               | S    | R          | 816                  |                   |
|                     | 826               | RCA  | VPT        | 826                  |                   |
|                     | 826               | NU   | VPT        | 826                  |                   |
| ML                  | 826               | ML   | VPT        | 826                  |                   |
| DR                  | 826               | GES  | VPT        | 826                  |                   |
| WL                  | 826               | WL   | VPT        | 826                  |                   |
| GL                  | 826               | GE   | VPT        | 826                  |                   |
|                     | 827-R             | RCA  | VPT        | 827-R                |                   |
|                     | 828               | NU   | VPT        | 828                  |                   |

\* RCA types shown in this column are direct replacements under all circumstances for corresponding types to be replaced.

| 1                   | 2                 | 3    | 4          | 5                    | 6                 |
|---------------------|-------------------|------|------------|----------------------|-------------------|
| Type To Be Replaced |                   |      |            | Replace by RCA Type* | Similar RCA Type† |
| Mfr. Prefix         | Basic Designation | Mfr. | Tube Class |                      |                   |
| ML                  | 828               | RCA  | VPT        | 828                  |                   |
| WL                  | 828               | ML   | VPT        | 828                  |                   |
| GL                  | 828               | WL   | VPT        | 828                  |                   |
|                     | 828               | GE   | VPT        | 828                  |                   |
|                     | 829               | RCA  | VPT        | 829-B                |                   |
|                     | 829-A             | RCA  | VPT        | 829-B                |                   |
|                     | 829-B             | RCA  | VPT        | 829-B                |                   |
|                     | 829-B             | NU   | VPT        | 829-B                |                   |
| ML                  | 829-B             | ML   | VPT        | 829-B                |                   |
| WL                  | 829-B             | WL   | VPT        | 829-B                |                   |
|                     | 829-B             | A    | VPT        | 829-B                |                   |
| GL                  | 829-B             | GE   | VPT        | 829-B                |                   |
| RK                  | 829-B             | RK   | VPT        | 829-B                |                   |
| UE                  | 830               | UE   | VPT        | 830-B                |                   |
|                     | 830-B             | RCA  | VPT        | 830-B                |                   |
|                     | 830-B             | A    | VPT        | 830-B                |                   |
|                     | 830-B             | NU   | VPT        | 830-B                |                   |
| UE                  | 830-B             | UE   | VPT        | 830-B                |                   |
| GL                  | 830-B             | GE   | VPT        | 830-B                |                   |
| T                   | 830-B             | T    | VPT        | 830-B                |                   |
|                     | 832               | RCA  | VPT        | 832-A                |                   |
|                     | 832-A             | RCA  | VPT        | 832-A                |                   |
|                     | 832-A             | NU   | VPT        | 832-A                |                   |
| ML                  | 832-A             | ML   | VPT        | 832-A                |                   |
| DR                  | 832-A             | GES  | VPT        | 832-A                |                   |
| WL                  | 832-A             | WL   | VPT        | 832-A                |                   |
| GL                  | 832-A             | GE   | VPT        | 832-A                |                   |
| RK                  | 832-A             | RK   | VPT        | 832-A                |                   |
|                     | 833               | RCA  | VPT        | 833-A                |                   |
|                     | 833-A             | RCA  | VPT        | 833-A                |                   |
| ML                  | 833-A             | ML   | VPT        | 833-A                |                   |
| DR                  | 833-A             | GES  | VPT        | 833-A                |                   |
|                     | 833-A             | A    | VPT        | 833-A                |                   |
| WL                  | 833-A             | WL   | VPT        | 833-A                |                   |
|                     | 834               | RCA  | VPT        | 834                  |                   |
|                     | 834               | A    | VPT        | 834                  |                   |

† RCA types shown in this column are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, RCA, Harrison, New Jersey.

## KEY TO SYMBOLS IN COLUMN 3

A = Amperex  
 CE = Continental Electric (Cetron)  
 CH = Chatham Electronics  
 D = Dumont  
 EE = Electronic Enterprises  
 EL = Electrons Inc.  
 EM = Eitel-McCullough (Eimac)  
 F = Federal Telephone and Radio

GE = General Electric  
 GES = General Electronics  
 HK = Heinz and Kaufman  
 HY = Hytron  
 ML = Machlett Laboratories  
 NL = National Electronics  
 NU = National Union  
 R = Rauland

RK = Raytheon  
 S = Sylvania  
 T = Taylor  
 TS = Tung-Sol  
 UE = United Electronics  
 WE = Western Electric  
 WL = Westinghouse  
 WT = Weltronic

## KEY TO SYMBOLS IN COLUMN 4

CM = Camera Tube or Monoscope  
 CR = Cathode-Ray Tube  
 G = Glow Tube

GA = Gauge Tube  
 I = Ignitron  
 P = Phototube  
 R = Rectifier

RT = Receiving Tube  
 T = Thyatron  
 VPT = Vacuum Power Tube

| 1                   | 2                 | 3    | 4          | 5                    | 6                 |
|---------------------|-------------------|------|------------|----------------------|-------------------|
| Type To Be Replaced |                   |      |            | Replace by RCA Type* | Similar RCA Type† |
| Mfr. Prefix         | Basic Designation | Mfr. | Tube Class |                      |                   |
| UE                  | 834               | UE   | VPT        | 834                  |                   |
|                     | 834               | NU   | VPT        | 834                  |                   |
|                     | 835               | RCA  | VPT        | 835                  |                   |
|                     | 835               | A    | VPT        | 835                  |                   |
| GL                  | 835               | GE   | VPT        | 835                  |                   |
|                     | 836               | RCA  | R          | 836                  |                   |
|                     | 836               | NU   | R          | 836                  |                   |
|                     | 836               | A    | R          | 836                  |                   |
| WL                  | 836               | WL   | R          | 836                  |                   |
| GL                  | 836               | GE   | R          | 836                  |                   |
| EE                  | 836               | EE   | R          | 836                  |                   |
|                     | 837               | RCA  | VPT        | 837                  |                   |
| DR                  | 837               | GES  | VPT        | 837                  |                   |
|                     | 837               | NU   | VPT        | 837                  |                   |
|                     | 837               | A    | VPT        | 837                  |                   |
| WL                  | 837               | WL   | VPT        | 837                  |                   |
| GL                  | 837               | GE   | VPT        | 837                  |                   |
|                     | 837               | S    | VPT        | 837                  |                   |
| RK                  | 837               | RK   | VPT        | 837                  |                   |
|                     | 837               | HY   | VPT        | 837                  |                   |
| DR                  | 838               | GES  | VPT        | 838                  |                   |
|                     | 838               | RCA  | VPT        | 838                  |                   |
|                     | 838               | NU   | VPT        | 838                  |                   |
|                     | 838               | A    | VPT        | 838                  |                   |
| UE                  | 838               | UE   | VPT        | 838                  |                   |
| WL                  | 838               | WL   | VPT        | 838                  |                   |
| GL                  | 838               | GE   | VPT        | 838                  |                   |
| T                   | 838               | T    | VPT        | 838                  |                   |
|                     | 841               | RCA  | VPT        | 841                  |                   |
|                     | 841               | A    | VPT        | 841                  |                   |
|                     | 841               | HY   | VPT        | 841                  |                   |
|                     | 842               | RCA  | VPT        | 842                  |                   |
|                     | 842               | A    | VPT        | 842                  |                   |
| GL                  | 842               | GE   | VPT        | 842                  |                   |
|                     | 843               | RCA  | VPT        | 843                  |                   |
|                     | 843               | NU   | VPT        | 843                  |                   |
| GL                  | 843               | GE   | VPT        | 843                  |                   |
|                     | 843               | A    | VPT        | 843                  |                   |
|                     | 845               | RCA  | VPT        | 845                  |                   |
|                     | 845               | NU   | VPT        | 845                  |                   |
|                     | 845               | A    | VPT        | 845                  |                   |
| UE                  | 845               | UE   | VPT        | 845                  |                   |
| WL                  | 845               | WL   | VPT        | 845                  |                   |
| GL                  | 845               | GE   | VPT        | 845                  |                   |
| T                   | 845               | T    | VPT        | 845                  |                   |
| ML                  | 846               | ML   | VPT        | 846                  |                   |
|                     | 846               | RCA  | VPT        | 846                  |                   |
|                     | 846               | A    | VPT        | 846                  |                   |
| UE                  | 846               | UE   | VPT        | 846                  |                   |
|                     | 846               | GE   | VPT        | 846                  |                   |
| GL                  | 846               | RCA  | VPT        | 849                  |                   |
| F                   | 849               | F    | VPT        | 849                  |                   |
|                     | 849               | A    | VPT        | 849                  |                   |
| GL                  | 849               | GE   | VPT        | 849                  |                   |
| ML                  | 849               | ML   | VPT        | 849                  |                   |

| 1                   | 2                 | 3    | 4          | 5                    | 6                 |
|---------------------|-------------------|------|------------|----------------------|-------------------|
| Type To Be Replaced |                   |      |            | Replace by RCA Type* | Similar RCA Type† |
| Mfr. Prefix         | Basic Designation | Mfr. | Tube Class |                      |                   |
| WL                  | 849               | WL   | VPT        | 849                  |                   |
|                     | 849A              | A    | VPT        |                      | 849               |
|                     | 849H              | A    | VPT        |                      | 849               |
| DR                  | 851               | GES  | VPT        | 851                  |                   |
|                     | 851               | RCA  | VPT        | 851                  |                   |
|                     | 851               | A    | VPT        | 851                  |                   |
| WL                  | 851               | WL   | VPT        | 851                  |                   |
| GL                  | 851               | GE   | VPT        | 851                  |                   |
|                     | 857               | RCA  | R          | 857-B                |                   |
|                     | 857-B             | RCA  | R          | 857-B                |                   |
| DR                  | 857-B             | GES  | R          | 857-B                |                   |
| F                   | 857-B             | F    | R          | 857-B                |                   |
| WL                  | 857-B             | WL   | R          | 857-B                |                   |
| ML                  | 857-B             | ML   | R          | 857-B                |                   |
|                     | 857-B             | A    | R          | 857-B                |                   |
| GL                  | 857-B             | GE   | R          | 857-B                |                   |
|                     | 858               | RCA  | VPT        | 858                  |                   |
| F                   | 858               | F    | VPT        | 858                  |                   |
|                     | 858               | A    | VPT        | 858                  |                   |
| GL                  | 858               | GE   | VPT        | 858                  |                   |
|                     | 859               | A    | VPT        |                      | 893-A             |
|                     | 860               | RCA  | VPT        | 860                  |                   |
| WL                  | 860               | WL   | VPT        | 860                  |                   |
|                     | 861               | RCA  | VPT        | 861                  |                   |
| DR                  | 861               | GES  | VPT        | 861                  |                   |
| WL                  | 861               | WL   | VPT        | 861                  |                   |
|                     | 862               | RCA  | VPT        | 862-A                |                   |
|                     | 862-A             | RCA  | VPT        | 862-A                |                   |
| F                   | 862-A             | F    | VPT        | 862-A                |                   |
| WL                  | 862-A             | WL   | VPT        | 862-A                |                   |
| GL                  | 862-A             | GE   | VPT        | 862-A                |                   |
|                     | 864               | RCA  | VPT        | 864                  |                   |
|                     | 865               | RCA  | VPT        | 865                  |                   |
|                     | 865               | NU   | VPT        | 865                  |                   |
|                     | 866               | RCA  | R          | 866-A                |                   |
|                     | 866-A             | RCA  | R          | 866-A                |                   |
|                     | 866-A             | RCA  | R          | 866-A                |                   |
|                     | 866               | HY   | R          | 866-A                |                   |
| WL                  | 866-A/866         | WL   | R          | 866-A                |                   |
|                     | 866-A             | EM   | R          | 866-A                |                   |
| ML                  | 866-A             | ML   | R          | 866-A                |                   |
|                     | 866-A             | CE   | R          | 866-A                |                   |
|                     | 866-A             | A    | R          | 866-A                |                   |
| DR                  | 866-A             | GES  | R          | 866-A                |                   |
|                     | 866-A             | NU   | R          | 866-A                |                   |
| UE                  | 866-A             | UE   | R          | 866-A                |                   |
| GL                  | 866-A             | GE   | R          | 866-A                |                   |
|                     | 866-A             | S    | R          | 866-A                |                   |
|                     | 866-A             | CH   | R          | 866-A                |                   |
| RK                  | 866-A             | RK   | R          | 866-A                |                   |
| EE                  | 866-A             | EE   | R          | 866-A                |                   |
| T                   | 866-A             | T    | R          | 866-A                |                   |
|                     | 866-JR            | NU   | R          |                      | 816               |
|                     | 866-JR            | CH   | R          |                      | 816               |

**T866-JR to ML-889R-A**

| Type To Be Replaced |                           |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
|---------------------|---------------------------|------|---------------|-------------------------------|-------------------------|
| Mfr.<br>Prefix      | Basic<br>Design-<br>ation | Mfr. | Tube<br>Class |                               |                         |
| T                   | 866-JR                    | T    | R             |                               |                         |
|                     | 868                       | RCA  | P             | 868                           |                         |
|                     | 869-A                     | RCA  | R             | 869-B                         |                         |
|                     | 869-B                     | RCA  | R             | 869-B                         |                         |
| F                   | 869-B                     | F    | R             | 869-B                         |                         |
| WL                  | 869-B                     | WL   | R             | 869-B                         |                         |
| ML                  | 869-B                     | ML   | R             | 869-B                         |                         |
|                     | 869-B                     | A    | R             | 869-B                         |                         |
| GL                  | 869-B                     | GE   | R             | 869-B                         |                         |
| DR                  | 869-B                     | GES  | R             | 869-B                         |                         |
|                     | 872                       | RCA  | R             | 872-A                         |                         |
|                     | 872-A/<br>872             | RCA  | R             | 872-A                         |                         |
| ML                  | 872-A/<br>872             | ML   | R             | 872-A                         |                         |
| WL                  | 872-A<br>872              | WL   | R             | 872-A                         |                         |
| RK                  | 872-A/<br>872             | RK   | R             | 872-A                         |                         |
|                     | 872-A                     | RCA  | R             | 872-A                         |                         |
| GL                  | 872-A                     | GE   | R             | 872-A                         |                         |
|                     | 872-A                     | EM   | R             | 872-A                         |                         |
| DR                  | 872-A                     | GES  | R             | 872-A                         |                         |
|                     | 872-A                     | CE   | R             | 872-A                         |                         |
|                     | 872-A                     | A    | R             | 872-A                         |                         |
| EE                  | 872-A                     | EE   | R             | 872-A                         |                         |
| UE                  | 872-A                     | UE   | R             | 872-A                         |                         |
|                     | 872-A                     | S    | R             | 872-A                         |                         |
|                     | 872-A                     | CH   | R             | 872-A                         |                         |
| F                   | 872-A                     | F    | R             | 872-A                         |                         |
|                     | 872-A                     | NU   | R             | 872-A                         |                         |
| DR                  | 873                       | GES  | R             |                               |                         |
|                     | 874                       | RCA  | G             | 874                           |                         |
| GL                  | 874                       | GE   | G             | 874                           |                         |
| T                   | 875-A                     | T    | R             | 575-A                         |                         |
|                     | 876                       | RCA  | G             | 876                           |                         |

\* RCA types shown in this column are direct replacements under all circumstances for corresponding types to be replaced.

| Type To Be Replaced |                           |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
|---------------------|---------------------------|------|---------------|-------------------------------|-------------------------|
| Mfr.<br>Prefix      | Basic<br>Design-<br>ation | Mfr. | Tube<br>Class |                               |                         |
|                     | 878                       | RCA  | R             | 878                           |                         |
|                     | 879                       | RCA  | R             | 2X2-A                         |                         |
|                     | 880                       | RCA  | VPT           | 880                           |                         |
| ML                  | 880                       | M    | VPT           | 880                           |                         |
| WL                  | 880                       | WL   | VPT           | 880                           |                         |
| UE                  | 880                       | UE   | VPT           | 880                           |                         |
| GL                  | 880                       | GE   | VPT           | 880                           |                         |
|                     | 884                       | RCA  | T             | 884                           |                         |
|                     | 884                       | NU   | T             | 884                           |                         |
|                     | 884                       | A    | T             | 884                           |                         |
| WL                  | 884                       | WL   | T             | 884                           |                         |
| GL                  | 884                       | GE   | T             | 884                           |                         |
|                     | 884                       | CH   | T             | 884                           |                         |
| RX                  | 884                       | RK   | T             | 884                           |                         |
| DR                  | 884                       | GES  | T             | 884                           |                         |
|                     | 885                       | NU   | T             | 885                           |                         |
|                     | 885                       | NU   | T             | 885                           |                         |
|                     | 885                       | A    | T             | 885                           |                         |
| WL                  | 885                       | WL   | T             | 885                           |                         |
| GL                  | 885                       | GE   | T             | 885                           |                         |
|                     | 885                       | CH   | T             | 885                           |                         |
| RX                  | 885                       | RK   | T             | 885                           |                         |
|                     | 886                       | RCA  | G             | 886                           |                         |
|                     | 889                       | RCA  | VPT           | 889-A                         |                         |
|                     | 889-A                     | RCA  | VPT           | 889-A                         |                         |
| F                   | 889-A                     | F    | VPT           | 889-A                         |                         |
| ML                  | 889-A                     | ML   | VPT           | 889-A                         |                         |
| GL                  | 889-A                     | GE   | VPT           | 889-A                         |                         |
|                     | 889-A                     | A    | VPT           | 889-A                         |                         |
| UE                  | 889-A                     | UE   | VPT           | 889-A                         |                         |
| WL                  | 889-A                     | WL   | VPT           | 889-A                         |                         |
|                     | 889R                      | RCA  | VPT           | 889R-A                        |                         |
|                     | 889R-A                    | RCA  | VPT           | 889R-A                        |                         |
| F                   | 889R-A                    | F    | VPT           | 889R-A                        |                         |
| GL                  | 889R-A                    | GE   | VPT           | 889R-A                        |                         |
| ML                  | 889R-A                    | ML   | VPT           | 889R-A                        |                         |

† RCA types shown in this column are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, RCA, Harrison, New Jersey.

KEY TO SYMBOLS IN COLUMN 3

A = Ampere  
CE = Continental Electric (Cetron)  
CH = Chatham Electronics  
D = Dumont  
EE = Electronic Enterprises  
EL = Electronics Inc.  
EM = Eitel-McCullough (Eimac)  
F = Federal Telephone and Radio

GE = General Electric  
GES = General Electronics  
HK = Heinz and Kaufman  
HY = Hytron  
ML = Machlett Laboratories  
NL = National Electronics  
NU = National Union  
R = Rauland

**RK = Raytheon**  
**S = Sylvania**  
**T = Taylor**  
**TS = Tung-Sol**  
**UE = United Electronics**  
**WE = Western Electric**  
**WL = Westinghouse**  
**WT = Weltronic**

**KEY TO SYMBOLS IN COLUMN 4**

CM = Camera Tube or Monoscope  
CR = Cathode-Ray Tube  
G = Glow Tube

GA = Gauge Tube  
I = Ignitron  
P = Phototube  
R = Rectifier

RT = Receiving Tube  
T = Thyatron  
VPT = Vacuum Power Tube

| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| UE                  | 889R-A                     | A    | VPT           | 889R-A                        |                         |
| WL                  | 889R-A                     | UE   | VPT           | 889R-A                        |                         |
|                     | 889R-A                     | WL   | VPT           | 889R-A                        |                         |
| F                   | 891                        | RCA  | VPT           | 891                           |                         |
| GL                  | 891                        | F    | VPT           | 891                           |                         |
| ML                  | 891                        | GE   | VPT           | 891                           |                         |
|                     | 891                        | ML   | VPT           | 891                           |                         |
|                     | 891                        | A    | VPT           | 891                           |                         |
| UE                  | 891                        | UE   | VPT           | 891                           |                         |
| WL                  | 891                        | WL   | VPT           | 891                           |                         |
|                     | 891-R                      | RCA  | VPT           | 891-R                         |                         |
| F                   | 891-R                      | F    | VPT           | 891-R                         |                         |
| GL                  | 891-R                      | GE   | VPT           | 891-R                         |                         |
| ML                  | 891-R                      | ML   | VPT           | 891-R                         |                         |
|                     | 891-R                      | A    | VPT           | 891-R                         |                         |
| UE                  | 891-R                      | UE   | VPT           | 891-R                         |                         |
| WL                  | 891-R                      | WL   | VPT           | 891-R                         |                         |
|                     | 892                        | RCA  | VPT           | 892                           |                         |
| F                   | 892                        | F    | VPT           | 892                           |                         |
| GL                  | 892                        | GE   | VPT           | 892                           |                         |
| ML                  | 892                        | ML   | VPT           | 892                           |                         |
|                     | 892                        | A    | VPT           | 892                           |                         |
| UE                  | 892                        | UE   | VPT           | 892                           |                         |
| WL                  | 892                        | WL   | VPT           | 892                           |                         |
|                     | 892-R                      | RCA  | VPT           | 892-R                         |                         |
| F                   | 892-R                      | F    | VPT           | 892-R                         |                         |
| DR                  | 892-R                      | GES  | VPT           | 892-R                         |                         |
| GL                  | 892-R                      | GE   | VPT           | 892-R                         |                         |
| ML                  | 892-R                      | ML   | VPT           | 892-R                         |                         |
|                     | 892-R                      | A    | VPT           | 892-R                         |                         |
| UE                  | 892-R                      | UE   | VPT           | 892-R                         |                         |
| WL                  | 892-R                      | WL   | VPT           | 892-R                         |                         |
|                     | 893                        | RCA  | VPT           | 893-A                         |                         |
|                     | 893-A                      | RCA  | VPT           | 893-A                         |                         |
| F                   | 893-A                      | F    | VPT           | 893-A                         |                         |
| GL                  | 893-A                      | GE   | VPT           | 893-A                         |                         |
| ML                  | 893-A                      | ML   | VPT           | 893-A                         |                         |
|                     | 893-A                      | A    | VPT           | 893-A                         |                         |
| UE                  | 893-A                      | UE   | VPT           | 893-A                         |                         |
| WL                  | 893-A                      | WL   | VPT           | 893-A                         |                         |
|                     | 893A-R                     | RCA  | VPT           | 893A-R                        |                         |
| F                   | 893A-R                     | F    | VPT           | 893A-R                        |                         |
| ML                  | 893A-R                     | ML   | VPT           | 893A-R                        |                         |
|                     | 893A-R                     | A    | VPT           | 893A-R                        |                         |
| WL                  | 893A-R                     | WL   | VPT           | 893A-R                        |                         |
| GL                  | 893A-R                     | GE   | VPT           | 893A-R                        |                         |
| ML                  | 895                        | ML   | VPT           |                               |                         |
| WL                  | 895                        | WL   | VPT           |                               |                         |
| GL                  | 895                        | GE   | VPT           |                               |                         |
|                     | 895                        | A    | VPT           |                               |                         |
| ML                  | 895-R                      | ML   | VPT           |                               |                         |
| WL                  | 895-R                      | WL   | VPT           |                               |                         |
| GL                  | 895-R                      | GE   | VPT           |                               |                         |
|                     | 895-R                      | A    | VPT           |                               |                         |
|                     | 898-A                      | RCA  | VPT           | 898-A                         |                         |

| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| F                   | 898-A                      | F    | VPT           | 898-A                         |                         |
|                     | 898-A                      | A    | VPT           | 898-A                         |                         |
| GL                  | 898-A                      | GE   | VPT           | 898-A                         |                         |
|                     | 902                        | RCA  | CR            | 902-A                         |                         |
|                     | 902-A                      | RCA  | CR            | 902-A                         |                         |
|                     | 905                        | RCA  | CR            | 905-A                         |                         |
| UE                  | 905                        | UE   | VPT           | 805                           |                         |
|                     | 905-A                      | RCA  | CR            | 905-A                         |                         |
|                     | 906-P1                     | RCA  | CR            | 3AP1-A                        |                         |
|                     | 908                        | RCA  | CR            | 908-A                         |                         |
|                     | 908-A                      | RCA  | CR            | 908-A                         |                         |
|                     | 912                        | RCA  | CR            | 912                           |                         |
|                     | 913                        | RCA  | CR            | 913                           |                         |
|                     | 914                        | RCA  | CR            | 914-A                         |                         |
| GL                  | 914-A                      | GE   | CR            | 914-A                         |                         |
|                     | 917                        | RCA  | P             | 917                           |                         |
| WL                  | 917                        | WL   | P             | 917                           |                         |
| GL                  | 917                        | GE   | P             | 917                           |                         |
|                     | 918                        | RCA  | P             | 918                           |                         |
| WL                  | 918                        | WL   | P             | 918                           |                         |
| GL                  | 918                        | GE   | P             | 918                           |                         |
|                     | 919                        | RCA  | P             | 919                           |                         |
| WL                  | 919                        | WL   | P             | 919                           |                         |
| GL                  | 919                        | GE   | P             | 919                           |                         |
|                     | 920                        | RCA  | P             | 920                           |                         |
| WL                  | 920                        | WL   | P             | 920                           |                         |
| GL                  | 920                        | GE   | P             | 920                           |                         |
|                     | 921                        | RCA  | P             | 921                           |                         |
| WL                  | 921                        | WL   | P             | 921                           |                         |
| GL                  | 921                        | GE   | P             | 921                           |                         |
|                     | 922                        | RCA  | P             | 922                           |                         |
| WL                  | 922                        | WL   | P             | 922                           |                         |
| GL                  | 922                        | GE   | P             | 922                           |                         |
|                     | 923                        | RCA  | P             | 923                           |                         |
| WL                  | 923                        | WL   | P             | 923                           |                         |
| GL                  | 923                        | GE   | P             | 923                           |                         |
|                     | 924                        | RCA  | P             | 924                           |                         |
| WL                  | 924                        | WL   | P             | 924                           |                         |
|                     | 925                        | RCA  | P             | 925                           |                         |
| WL                  | 925                        | WL   | P             | 925                           |                         |
|                     | 926                        | RCA  | P             | 926                           |                         |
| WL                  | 926                        | WL   | P             | 926                           |                         |
|                     | 927                        | RCA  | P             | 927                           |                         |
| WL                  | 927                        | WL   | P             | 927                           |                         |
| GL                  | 927                        | GE   | P             | 927                           |                         |
|                     | 928                        | RCA  | P             | 928                           |                         |
| WL                  | 928                        | WL   | P             | 928                           |                         |
|                     | 929                        | RCA  | P             | 929                           |                         |
| WL                  | 929                        | WL   | P             | 929                           |                         |
| GL                  | 929                        | GE   | P             | 929                           |                         |
|                     | 930                        | RCA  | P             | 930                           |                         |
| WL                  | 930                        | WL   | P             | 930                           |                         |
| GL                  | 930                        | GE   | P             | 930                           |                         |
| UE                  | 930B                       | UE   | VPT           | 830-B                         |                         |
|                     | 931                        | RCA  | P             | 931-A                         |                         |



| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| WL                  | 931-A                      | WL   | P             | 931-A                         |                         |
| GL                  | 931-A                      | GE   | P             | 931-A                         |                         |
|                     | 934                        | RCA  | P             | 934                           |                         |
|                     | 935                        | RCA  | P             | 935                           |                         |
| GL                  | 935                        | GE   | P             | 935                           |                         |
| UE                  | 938                        | UE   | VPT           | 838                           |                         |
| UE                  | 945                        | UE   | VPT           | 845                           |                         |
| UE                  | 949                        | UE   | VPT           | 849                           |                         |
|                     | 954                        | RCA  | VPT           | 954                           |                         |
| GL                  | 954                        | GE   | VPT           | 954                           |                         |
|                     | 954                        | TS   | VPT           | 954                           |                         |
| RK                  | 954                        | RK   | VPT           | 954                           |                         |
|                     | 954                        | HY   | VPT           | 954                           |                         |
|                     | 955                        | RCA  | VPT           | 955                           |                         |
|                     | 955                        | NU   | VPT           | 955                           |                         |
| GL                  | 955                        | GE   | VPT           | 955                           |                         |
|                     | 955                        | TS   | VPT           | 955                           |                         |
| RK                  | 955                        | RK   | VPT           | 955                           |                         |
|                     | 955                        | HY   | VPT           | 955                           |                         |
|                     | 956                        | RCA  | VPT           | 956                           |                         |
| GL                  | 956                        | GE   | VPT           | 956                           |                         |
|                     | 956                        | TS   | VPT           | 956                           |                         |
| RK                  | 956                        | RK   | VPT           | 956                           |                         |
|                     | 957                        | RCA  | VPT           | 957                           |                         |
| GL                  | 957                        | GE   | VPT           | 957                           |                         |
| RK                  | 957                        | RK   | VPT           | 957                           |                         |
|                     | 958-A                      | RCA  | VPT           | 958-A                         |                         |
| GL                  | 959                        | GE   | VPT           | 959                           |                         |
| UE                  | 966                        | UE   | R             | 866-A                         |                         |
| UE                  | 966-A                      | UE   | R             | 866-A                         |                         |
| UE                  | 967                        | UE   | T             | 5557                          |                         |
|                     | 967                        | NU   | T             | 5557                          |                         |
| UE                  | 972                        | UE   | R             | 872-A                         |                         |
| UE                  | 972-A                      | UE   | R             | 872-A                         |                         |
| UE                  | 975-T                      | UE   | R             |                               | 575-A                   |
|                     | 975-A                      | NU   | R             | 575-A                         |                         |
|                     | 991                        | RCA  | G             | 991                           |                         |
| WL                  | 1000T                      | WL   | VPT           |                               |                         |
|                     | 1000T                      | EM   | VPT           |                               |                         |
| R                   | 1111                       | S    | GA            |                               | 1947                    |
| R                   | 1111-M                     | S    | GA            |                               | 1947                    |
| E                   | 1148                       | HY   | VPT           |                               | 2C22                    |
|                     | 1237                       | S    | R             |                               |                         |
|                     | 1266                       | S    | G             |                               | 5823                    |
|                     | 1267                       | S    | G             |                               | 0A4-G                   |
| GL                  | 1367                       | GE   | T             |                               | 5696                    |
|                     | 1603                       | RCA  | VPT           | 1603                          |                         |
|                     | 1603                       | TS   | VPT           | 1603                          |                         |
| GL                  | 1603                       | GE   | VPT           | 1603                          |                         |
|                     | 1608                       | RCA  | VPT           | 1608                          |                         |
|                     | 1609                       | RCA  | VPT           | 1609                          |                         |
|                     | 1610                       | RCA  | VPT           | 1610                          |                         |
|                     | 1612                       | RCA  | VPT           | 1612                          |                         |
| GL                  | 1612                       | GE   | VPT           | 1612                          |                         |
|                     | 1613                       | RCA  | VPT           | 1613                          |                         |

For footnotes, see page 19.

| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| GL                  | 1613                       | GE   | VPT           | 1613                          |                         |
|                     | 1614                       | RCA  | VPT           | 1614                          |                         |
|                     | 1614                       | GE   | VPT           | 1614                          |                         |
|                     | 1616                       | RCA  | R             | 1616                          |                         |
|                     | 1616                       | NU   | R             | 1616                          |                         |
| GL                  | 1616                       | GE   | R             | 1616                          |                         |
|                     | 1616                       | A    | R             | 1616                          |                         |
| DR                  | 1616                       | GES  | R             | 1616                          |                         |
|                     | 1616                       | HY   | R             | 1616                          |                         |
|                     | 1616                       | S    | R             | 1616                          |                         |
|                     | 1619                       | RCA  | VPT           | 1619                          |                         |
|                     | 1619                       | NU   | VPT           | 1619                          |                         |
|                     | 1620                       | RCA  | VPT           | 1620                          |                         |
| GL                  | 1620                       | GE   | VPT           | 1620                          |                         |
|                     | 1620                       | NU   | VPT           | 1620                          |                         |
|                     | 1621                       | RCA  | VPT           | 1621                          |                         |
|                     | 1621                       | NU   | VPT           | 1621                          |                         |
| GL                  | 1621                       | GE   | VPT           | 1621                          |                         |
|                     | 1622                       | RCA  | VPT           | 1622                          |                         |
|                     | 1622                       | NU   | VPT           | 1622                          |                         |
| GL                  | 1622                       | GE   | VPT           | 1622                          |                         |
|                     | 1623                       | RCA  | VPT           | 1623                          |                         |
| WL                  | 1623                       | WL   | VPT           | 1623                          |                         |
| GL                  | 1623                       | GE   | VPT           | 1623                          |                         |
|                     | 1624                       | RCA  | VPT           | 1624                          |                         |
|                     | 1624                       | NU   | VPT           | 1624                          |                         |
| GL                  | 1624                       | GE   | VPT           | 1624                          |                         |
|                     | 1625                       | RCA  | VPT           | 1625                          |                         |
| GL                  | 1625                       | GE   | VPT           | 1625                          |                         |
|                     | 1625                       | NU   | VPT           | 1625                          |                         |
|                     | 1625                       | A    | VPT           | 1625                          |                         |
| DR                  | 1625                       | GES  | VPT           | 1625                          |                         |
|                     | 1625                       | HY   | VPT           | 1625                          |                         |
| RK                  | 1625                       | RK   | VPT           | 1625                          |                         |
|                     | 1625                       | TS   | VPT           | 1625                          |                         |
|                     | 1625                       | S    | VPT           | 1625                          |                         |
|                     | 1626                       | RCA  | VPT           | 1626                          |                         |
|                     | 1626                       | A    | VPT           | 1626                          |                         |
|                     | 1626                       | HY   | VPT           | 1626                          |                         |
|                     | 1626                       | TS   | VPT           | 1626                          |                         |
|                     | 1626                       | S    | VPT           | 1626                          |                         |
|                     | 1629                       | RCA  | G             | 1629                          |                         |
|                     | 1629                       | TS   | G             | 1629                          |                         |
| GL                  | 1629                       | GE   | G             | 1629                          |                         |
|                     | 1631                       | RCA  | VPT           | 1631                          |                         |
|                     | 1632                       | RCA  | VPT           | 1632                          |                         |
|                     | 1633                       | RCA  | VPT           | 1633                          |                         |
| GL                  | 1633                       | GE   | VPT           | 1633                          |                         |
|                     | 1634                       | RCA  | VPT           | 1634                          |                         |
|                     | 1635                       | RCA  | VPT           | 1635                          |                         |
|                     | 1642                       | RCA  | VPT           | 2C21/<br>1642                 |                         |
|                     | 1644                       | RCA  | VPT           | 1644                          |                         |
|                     | 1654                       | RCA  | R             | 1654                          |                         |
|                     | 1654                       | NU   | R             | 1654                          |                         |

For key to symbols in columns 3 and 4, see page 19.

| Type To Be Replaced |                           |      |               | Replace<br>by<br>RCA<br>Type*        | Similar<br>RCA<br>Type† |
|---------------------|---------------------------|------|---------------|--------------------------------------|-------------------------|
| Mfr.<br>Prefix      | Basic<br>Design-<br>ation | Mfr. | Tube<br>Class |                                      |                         |
| GL                  | 1701                      | A    | T             | 5BP1-A<br>7CP1                       | 5557<br>5563            |
|                     | 1702                      | A    | T             |                                      |                         |
|                     | 1802-P1                   | RCA  | CR            |                                      |                         |
|                     | 1811-P1                   | RCA  | CR            |                                      |                         |
|                     | 1816-P4                   | RCA  | CM            |                                      |                         |
|                     | 1847                      | RCA  | CM            | 1816-P4                              | 5527                    |
|                     | 1848                      | RCA  | CM            |                                      |                         |
|                     | 1849                      | RCA  | CM            |                                      |                         |
|                     | 1850                      | RCA  | CM            |                                      |                         |
|                     | 1850-A                    | RCA  | CM            |                                      |                         |
|                     | 1850-A                    | GE   | CM            | 1848<br>1850-A<br>1850-A<br>1851     | 2F21                    |
|                     | 1851                      | RCA  | VPT           |                                      |                         |
|                     | 1899                      | RCA  | CM            |                                      |                         |
|                     | 1904                      | RCA  | T             |                                      |                         |
|                     | 1904                      | RCA  | T             |                                      |                         |
|                     | 1945                      | RCA  | GA            | 1945<br>1946<br>1947<br>1949<br>1950 |                         |
|                     | 1946                      | RCA  | GA            |                                      |                         |
|                     | 1947                      | RCA  | GA            |                                      |                         |
|                     | 1949                      | RCA  | GA            |                                      |                         |
|                     | 1950                      | RCA  | GA            |                                      |                         |
| 2000                | RCA                       | R    | 4B26/<br>2000 |                                      |                         |
| RK                  | 2050                      | RCA  | T             | 2050                                 |                         |
|                     | 2050                      | RK   | T             | 2050                                 |                         |
|                     | 2050                      | A    | T             | 2050                                 |                         |
|                     | 2050                      | CH   | T             | 2050                                 |                         |
| WL<br>GL            | 2050                      | NU   | T             | 2050                                 |                         |
|                     | 2050                      | WL   | T             | 2050                                 |                         |
|                     | 2050                      | GE   | T             | 2050                                 |                         |
|                     | 2051                      | RCA  | T             | 2050                                 |                         |
| RK                  | 2051                      | A    | T             | 2050                                 |                         |
|                     | 2051                      | RK   | T             | 2050                                 |                         |
|                     | 2051                      | CH   | T             | 2050                                 |                         |
|                     | 2051                      | NU   | T             | 2050                                 |                         |
| ZB                  | 2051                      | GE   | T             | 2050                                 |                         |
|                     | 3000                      | A    | VPT           |                                      |                         |
|                     | ZB<br>F                   | 3200 | A             | VPT                                  |                         |
|                     |                           | 5303 | F             | VPT                                  |                         |
| 5331                |                           | A    | VPT           |                                      |                         |
| 5332                |                           | A    | VPT           |                                      |                         |
| CK                  | 5514                      | HY   | VPT           |                                      |                         |
|                     | 5516                      | HY   | VPT           |                                      |                         |
|                     | 5517/<br>CK-1013          | RK   | R             |                                      |                         |
|                     | 5527                      | RCA  | CM            | 5527                                 |                         |
| ML                  | 5530                      | ML   | VPT           | 5527                                 | 3762                    |
| ML                  | 5541                      | ML   | VPT           |                                      |                         |
| GL                  | 5544                      | GE   | T             | 5550<br>5550<br>5550                 |                         |
| GL                  | 5545                      | GE   | T             |                                      |                         |
| GL                  | 5550                      | RCA  | I             |                                      |                         |
| GL                  | 5550/<br>GL-415           | GE   | I             |                                      |                         |
| WL                  | 5550/681                  | WL   | I             | 5550                                 |                         |
| GL                  | 5551                      | RCA  | I             | 5551                                 |                         |
|                     | 5551/<br>FG-271           | GE   | I             | 5551                                 |                         |

| Type To Be Replaced |                           |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
|---------------------|---------------------------|------|---------------|-------------------------------|-------------------------|
| Mfr.<br>Prefix      | Basic<br>Design-<br>ation | Mfr. | Tube<br>Class |                               |                         |
| WL                  | 5551/652                  | WL   | I             | 5551                          |                         |
| GL                  | 5552                      | RCA  | I             | 5552                          |                         |
|                     | 5552/<br>FG-235A          | GE   | I             | 5552                          |                         |
| WL                  | 5552/651                  | WL   | I             | 5552                          |                         |
| GE                  | 5553                      | RCA  | I             | 5553                          |                         |
|                     | 5553/<br>FG-258A          | GE   | I             | 5553                          |                         |
| WL                  | 5553/655                  | WL   | I             | 5553                          |                         |
| GL                  | 5554                      | RCA  | I             | 5554                          |                         |
|                     | 5554/<br>FG-259B          | GE   | I             | 5554                          |                         |
| WL                  | 5554/679                  | WL   | I             | 5554                          |                         |
| GL                  | 5555                      | RCA  | I             | 5555                          |                         |
|                     | 5555/<br>FG-238B          | GE   | I             | 5555                          |                         |
| WL                  | 5555/<br>653B             | WL   | I             | 5555                          |                         |
| GL                  | 5556                      | RCA  | VPT           | 5556                          |                         |
|                     | 5556/PJ-8                 | GE   | VPT           | 5556                          |                         |
| GL                  | 5557                      | RCA  | T             | 5557                          |                         |
|                     | 5557/<br>FG-17            | GE   | T             | 5557                          |                         |
| WL                  | 5557/17                   | WL   | T             | 5557                          |                         |
| GL                  | 5558                      | RCA  | R             | 5558                          |                         |
|                     | 5558/<br>FG-32            | GL   | R             | 5558                          |                         |
| WL                  | 5558/32                   | WL   | R             | 5558                          |                         |
| GL                  | 5559                      | RCA  | T             | 5559                          |                         |
|                     | 5559/<br>FG-57            | GE   | T             | 5559                          |                         |
| WL                  | 5559/57                   | WL   | T             | 5559                          |                         |
| GL                  | 5560                      | RCA  | T             | 5560                          |                         |
|                     | 5560/<br>FG-95            | GE   | T             | 5560                          |                         |
| GL                  | 5561                      | RCA  | R             | 5561                          |                         |
|                     | 5561/<br>FG-104           | GE   | R             | 5561                          |                         |
| WL                  | 5561/104                  | WL   | R             | 5561                          |                         |
| F                   | 5563                      | RCA  | T             | 5563                          |                         |
|                     | 5563                      | F    | T             | 5563                          |                         |
| GL                  | 5581                      | RCA  | P             | 5581                          |                         |
|                     | 5582                      | RCA  | P             | 5582                          |                         |
| GL                  | 5583                      | RCA  | P             | 5583                          |                         |
|                     | 5584                      | RCA  | P             | 5584                          |                         |
| ML                  | 5588                      | RCA  | VFT           | 5588                          |                         |
|                     | 5588                      | GE   | VPT           | 5588                          |                         |
| ML                  | 5588                      | ML   | VPT           | 5588                          |                         |
|                     | 5591                      | WE   | VPT           | 5592                          |                         |
| 5592                | RCA                       | VPT  |               |                               |                         |
| ML                  | 5592                      | ML   | VPT           | 5592                          |                         |
| GL                  | 5593                      | GE   | R             |                               |                         |
| ML                  | 5604                      | ML   | VPT           | 889R-A                        |                         |
| WL                  | 5604                      | WL   | VPT           |                               |                         |
| ML                  | 5606                      | ML   | VPT           |                               |                         |
| ML                  | 5609                      | ML   | VPT           |                               |                         |

| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| RK<br>GL            | 5618                       | RCA  | VPT           | 5618                          | 6AK5<br>6AK5            |
|                     | 5651                       | RCA  | G             | 5651                          |                         |
|                     | 5652                       | RCA  | P             | 5652                          |                         |
|                     | 5653                       | RCA  | P             | 5653                          |                         |
|                     | 5653                       | CE   | P             | 5653                          |                         |
| GL                  | 5654                       | RK   | VPT           |                               | 880                     |
|                     | 5654                       | GE   | VPT           |                               |                         |
| GL                  | 5655                       | RCA  | CM            | 5655                          | 889-A                   |
|                     | 5655                       | GE   | CM            | 5655                          |                         |
| ML                  | 5658                       | ML   | VPT           |                               | 889R-A                  |
| GL                  | 5662                       | GE   | T             |                               |                         |
| ML                  | 5666                       | ML   | VPT           |                               | 892                     |
| ML                  | 5667                       | ML   | VPT           |                               |                         |
| F                   | 5667                       | F    | VPT           |                               | 892-R                   |
| ML                  | 5668                       | ML   | VPT           |                               |                         |
| ML                  | 5669                       | ML   | VPT           |                               | 676<br>5763             |
| GL                  | 5670                       | GE   | VPT           |                               |                         |
| ML                  | 5671                       | RCA  | VPT           | 5671                          | 5691                    |
|                     | 5671                       | ML   | VPT           | 5671                          |                         |
| WL                  | 5671                       | WL   | VPT           | 5671                          | 5691                    |
| F                   | 5675                       | RCA  | VPT           | 5675                          |                         |
|                     | 5680                       | F    | VPT           |                               | 5691                    |
| WL                  | 5685                       | WL   | T             |                               |                         |
| RK                  | 5686                       | RK   | VPT           |                               | 5691                    |
| GL                  | 5691                       | RCA  | VPT           | 5691                          |                         |
|                     | 5691                       | GE   | VPT           | 5691                          | 5691                    |
| WL                  | 5691                       | WL   | VPT           | 5691                          |                         |
| GL                  | 5691                       | S    | VPT           | 5691                          | 5691                    |
|                     | 5692                       | RCA  | VPT           | 5692                          |                         |
| WL                  | 5692                       | GE   | VPT           | 5692                          | 5691                    |
|                     | 5692                       | WL   | VPT           | 5692                          |                         |
| GL                  | 5692                       | S    | VPT           | 5692                          | 5693                    |
|                     | 5693                       | RCA  | VPT           | 5693                          |                         |
| WL                  | 5693                       | GE   | VPT           | 5693                          | 5693                    |
| WL                  | 5693                       | WL   | VPT           | 5693                          |                         |

\* RCA types shown in this column are direct replacements under all circumstances for corresponding types to be replaced.

† RCA types shown in this column are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, RCA, Harrison, New Jersey.

| 1                   | 2                          | 3    | 4             | 5                             | 6                       |
|---------------------|----------------------------|------|---------------|-------------------------------|-------------------------|
| Type To Be Replaced |                            |      |               | Replace<br>by<br>RCA<br>Type* | Similar<br>RCA<br>Type† |
| Mfr.<br>Prefix      | Basic<br>Design-<br>nation | Mfr. | Tube<br>Class |                               |                         |
| EE                  | 5693                       | S    | VPT           | 5693                          | 816                     |
|                     | 5695                       | EE   | R             |                               |                         |
| CK                  | 5696                       | RCA  | T             | 5696                          | 6AS6                    |
|                     | 5713                       | RCA  | VPT           | 5713                          |                         |
|                     | 5725                       | RK   | VPT           |                               |                         |
|                     | 5728                       | GE   | T             | 1904                          |                         |
|                     | 5734                       | RCA  | VPT           | 5734                          |                         |
| WL                  | 5736                       | WL   | VPT           |                               | 5762<br>5762            |
|                     | 5736                       | ML   | VPT           |                               |                         |
| ML                  | 5762                       | RCA  | VPT           | 5762                          | 579-B                   |
|                     | 5763                       | RCA  | VPT           | 5763                          |                         |
|                     | 5769                       | RCA  | CM            | 5769                          |                         |
|                     | 5770                       | RCA  | VPT           | 5770                          |                         |
|                     | 5771                       | RCA  | VPT           | 5771                          |                         |
| WL                  | 5771                       | ML   | VPT           | 5771                          | 579-B                   |
|                     | 5786                       | RCA  | VPT           | 5786                          |                         |
|                     | 5794                       | RCA  | VPT           | 5794                          |                         |
|                     | 5819                       | RCA  | P             | 5819                          |                         |
|                     | 5820                       | RCA  | CM            | 5820                          |                         |
| WL                  | 5823                       | RCA  | T             | 5823                          | 579-B                   |
|                     | 5825                       | RCA  | R             | 5825                          |                         |
|                     | 5826                       | RCA  | CM            | 5826                          |                         |
|                     | 5831                       | RCA  | VPT           | 5831                          |                         |
|                     | 5879                       | RCA  | VPT           | 5879                          |                         |
| ML                  | 5890                       | RCA  | VPT           | 5890                          | 579-B                   |
|                     | 5934                       | WL   | R             |                               |                         |
|                     | 7193                       | RCA  | VPT           | 2C22                          |                         |
|                     | 8000                       | RCA  | VPT           | 8000                          |                         |
|                     | 8000                       | ML   | VPT           | 8000                          |                         |
| GL                  | 8000                       | GE   | VPT           | 8000                          | 579-B                   |
|                     | 8000                       | WL   | VPT           | 8000                          |                         |
|                     | 8003                       | RCA  | VPT           | 8003                          |                         |
|                     | 8003                       | GES  | VPT           | 8003                          |                         |
|                     | 8003                       | WL   | VPT           | 8003                          |                         |
| WL                  | 8003                       | WL   | VPT           | 8003                          | 579-B                   |
|                     | 8005                       | RCA  | VPT           | 8005                          |                         |
|                     | 8005                       | NU   | VPT           | 8005                          |                         |

## KEY TO SYMBOLS IN COLUMN 3

A = Amperex  
CE = Continental Electric (Cetron)  
CH = Chatham Electronics  
D = Dumont  
EE = Electronic Enterprises  
EL = Electrons Inc.  
EM = Eitel-McCullough (Eimac)  
F = Federal Telephone and Radio

GE = General Electric  
GES = General Electronics  
HK = Heinz and Kaufman  
HY = Hytron  
ML = Machlett Laboratories  
NL = National Electronics  
NU = National Union  
R = Rauland

RK = Raytheon  
S = Sylvania  
T = Taylor  
TS = Tung-Sol  
UE = United Electronics  
WE = Western Electric  
WL = Westinghouse  
WT = Weltronic

## KEY TO SYMBOLS IN COLUMN 4

CM = Camera Tube or Monoscope  
CR = Cathode-Ray Tube  
G = Glow Tube

GA = Gauge Tube  
I = Ignitron  
P = Phototube  
R = Rectifier

RT = Receiving Tube  
T = Thyatron  
VPT = Vacuum Power Tube