

**TB 11-6625-316-12/1**

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

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**TEST DATA FOR  
TEST SETS,  
ELECTRON TUBE TV-2/U,  
TV-2A/U, TV-2B/U,  
AND TV-2C/U**

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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TECHNICAL BULLETIN }  
No. 11-6625-316-12/1 }

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DEPARTMENT OF THE ARMY  
WASHINGTON, D. C., 22 June 1966

## TEST DATA FOR TEST SETS, ELECTRON TUBE TV-2/U, TV-2A/U, TV-2B/U, AND TV-2C/U

*Note.* This bulletin supplements the data contained on the tube test data roll charts on the covers of Test Sets, Electron Tube TV-2/U, TV-2A/U, and TV-2B/U.

**1. Tube Test Data.** The tube test data provides information necessary to test some of the electron tubes that are not listed on the tube test data roll chart. The column headings in this bulletin duplicate the column headings on the tube test data roll chart housing. For a complete explanation of each column heading, refer to TM 11-6625-316-12.

**2. Abbreviations.** The letters "FS" and "RL" in the SIG VR column represent "full scale" and "red line," respectively. The letters "CCW" in the BIAS column, under METER SETTING, represent "counter-clockwise."

**3. Test Data.** The tube types appear in numerical and alphabetical order. The test data is listed from left to right in the order in which the controls should be set.

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\*This bulletin supersedes TB 11-2661-1, 27 January 1960, including C 1 26 July 1960; C 2, 30 March 1961; C 3, 26 October 1961; and C 4, 1 June 1962

**TB 11-6625-316-1/1**

| Tube type | Test | Function | Selectors<br>(L. to R.) |     | Range  |      |        |           |   |
|-----------|------|----------|-------------------------|-----|--------|------|--------|-----------|---|
|           |      |          |                         |     | Flamen | Bias | PI SCR | Grid Stop |   |
| OC2       | VR   | VR       | 00                      | 005 | 70     | OFF  | 5      | G         | F |
| OC2       | VR   | VR       | 00                      | 005 | 70     | OFF  | 5      | G         | F |
| OG3       | VR   | VR       | 00                      | 001 | 20     | OFF  | 5      | L         | F |
| OG3       | VR   | VR       | 00                      | 005 | 40     | OFF  | 5      | L         | F |
| OZ4A      | EM   | T        | 00                      | 030 | 80     | OFF  | 5      | G         | A |
| OZ4A      | EM   | T        | 00                      | 050 | 80     | OFF  | 5      | G         | A |
| OZ4G      | EM   | T        | 00                      | 030 | 80     | OFF  | 5      | G         | A |
| OZ4G      | EM   | T        | 00                      | 050 | 80     | OFF  | 5      | G         | A |
| 1AB6      | 3M   | T        | 17                      | 435 | 02     | 1.5  | 5      | Q         | E |
| 1AC5      | 3M   | T        | 45                      | 278 | 00     | 1.1  | 10     | N         | E |
| 1AC6      | 3M   | T        | 17                      | 432 | 65     | 1.5  | 5      | Q         | D |
| 1AD5      | GM   | T        | 45                      | 278 | 00     | 1.1  | 5      | N         | E |
| 1AF4      | 3M   | T        | 17                      | 623 | 00     | 1.5  | 5      | N         | D |
| 1AF5      | 3M   | T        | 17                      | 654 | 00     | 1.5  | 5      | N         | E |
| 1AF5      | EM   | T        | 17                      | 030 | 00     | 1.5  | 5      | S         | C |
| 1AG4      | 3M   | T        | 35                      | 412 | 00     | 1.1  | 5      | Q         | D |
| 1AG5      | GM   | T        | 46                      | 512 | 00     | 1.1  | 5      | Q         | E |
| 1AG5      | EM   | T        | 46                      | 030 | 00     | 1.1  | 5      | S         | C |
| 1AJ4      | GM   | T        | 71                      | 623 | 00     | 1.5  | 5      | N         | D |
| 1AJ5      | GM   | T        | 46                      | 512 | 00     | 1.1  | 5      | Q         | E |
| 1AJ5      | EM   | T        | 46                      | 030 | 00     | 1.1  | 5      | S         | R |
| 1AK4      | GM   | T        | 35                      | 412 | 00     | 1.1  | 5      | Q         | E |
| 1AK5      | GM   | T        | 46                      | 512 | 00     | 1.1  | 5      | Q         | E |
| 1AK5      | EM   | T        | 46                      | 030 | 00     | 1.1  | 5      | S         | C |
| 1C3       | GM   | T        | 17                      | 420 | 00     | 1.5  | 5      | N         | E |
| 1DN5      | GM   | T        | 17                      | 623 | 00     | 1.5  | 5      | N         | E |
| 1DN5      | EM   | T        | 17                      | 040 | 00     | 1.5  | 5      | S         | C |
| 1E3       | GM   | T        | 45                      | 180 | 00     | 1.1  | 10     | G         | C |
| 1H2       | EM   | VR       | 12                      | 00A | 00     | 1.5  | 5      | K         | F |
| 1M3       | ER   | T        | 45                      | 180 | 00     | 1.5  | 50     | P         | A |
| 1S2A      | EM   | VR       | 12                      | 00A | 00     | 1.5  | 5      | L         | C |
| 1T6       | GM   | T        | 45                      | 318 | 00     | 1.1  | 5      | N         | E |
| 1T6       | EM   | T        | 45                      | 060 | 00     | 1.1  | 5      | S         | E |
| 1U6       | GM   | T        | 17                      | 453 | 26     | 1.5  | 5      | N         | E |
| 1V6       | GM   | T        | 45                      | 760 | 8C     | 1.1  | 5      | Q         | E |
| 1V6       | GM   | T        | 45                      | 210 | 3C     | 1.1  | 5      | Q         | E |
| 1W4       | GM   | T        | 45                      | 782 | 1C     | 1.5  | 50     | N         | D |
| 1Z2       | EM   | T        | 17                      | 0B0 | 0C     | 1.1  | 5      | G         | A |
| 2AF4      | GM   | T        | 34                      | 210 | 5C     | 2.5  | C      | N         | V |

| Meter setting |      |        |        | Shunt | Press to test | Minimum limits | Notes                          |
|---------------|------|--------|--------|-------|---------------|----------------|--------------------------------|
| Plate         | Bias | Screen | Big VR |       |               |                |                                |
| 30 MA         | 0    |        | FS     | 50    | P5            | 83             | Max. Max dif -4.5.             |
| 5 MA          | 0    | ----   | FS     | 50    | P5            | 68             | Min. Max dif -4.5.             |
| 9 MA          | 0    | -----  | FS     | 50    | P5            | 88             | Max dif -1.0.                  |
| 2 MA          | 0    |        | FS     | 50    | P5            | 82             | Max dif -1.0.                  |
| 200           | 0    |        | RL     | 10    | P2            | 90             | Diode #1.                      |
| 200           | 0    |        | RL     | 10    | P2            | 40             | Diode #2.                      |
| 200           | 0    |        | RL     | 10    | P2            | 40             | Diode #1.                      |
| 200           | 0    |        | RL     | 10    | P2            | 40             | Diode #2.                      |
| 45            | 3.5  | 45     | RL     | 28    | P4            | 65             | Adj fil to 1.4.                |
| 67.5          | 4.5  | 67.5   | RL     | 30    | P4            | 65             |                                |
| 45            | 2.5  | 45     | RL     | 91    | P4            | 65             | Adj fil to 1.4.                |
| 67.5          | 2.5  | 67.5   | RL     | 42    | P4            | 65             |                                |
| 90            | 1.2  | 90     | RL     | 100   | P4            | 65             | Adj fil to 1.4.                |
| 90            | 1.0  | 90     | RL     | 41    | P4            | 65             | Pentode sect. Adj fil to 1.4.  |
| 20 AC         | 0    |        | RL     | 40    | P2            | 50             | Diode sect. Adj fil to 1.4.    |
| 45            | 3.5  | 45     | RL     | 87    | P4            | 65             | Adj fil to 1.25.               |
| 45            | 2.0  | 45     | RL     | 80    | P4            | 65             | Pentode sect. Adj fil to 1.25. |
| 20 AC         | 0    |        | RL     | 26    | P2            | 25             | Diode sect. Adj fil to 1.25.   |
| 90            | 1.6  | 90     | RL     | 96    | P4            | 65             | Adj fil to 1.4.                |
| 45            | 1.0  | 45     | RL     | 60    | P4            | 65             | Pentode sect. Adj fil to 1.25. |
| 20 AC         | 0    |        | RL     | 44    | P2            | 25             | Diode sect. Adj fil to 1.25.   |
| 45            | 1.0  | 45     | RL     | 45    | P4            | 65             | Adj fil to 1.25.               |
| 45            | 1.0  | 45     | RL     | 70    | P4            | 65             | Pentode sect. Adj fil to 1.25. |
| 20 AC         | 0    | -----  | RL     | 26    | P2            | 25             | Diode sect. Adj fil to 1.25.   |
| 90            | 3.0  | -----  | RL     | 24    | P4            | 65             | Adj fil to 1.4.                |
| 90            | 4.0  | 90     | RL     | 41    | P4            | 65             | Pentode sect. Adj fil to 1.4.  |
| 20V AC        | 0    |        | RL     | 35    | P2            | 50             | Diode sect. Adj fil to 1.4.    |
| 150           | 3.5  |        | RL     | 59    | P4            | 65             | Adj fil to 1.25.               |
| (#)           | 0    | (#)    | CW     | 50    | P5            | (*)            | Adj fil to 1.4.                |
| 100           | 0    |        | RL     | 0     | P4            | -----          |                                |
| -----         | 0    | 70     | FS     | 45    | P5            | -----          | OK under 75 (Adj fil to 1.4).  |
| 67.5          | .5   | 67.5   | RL     | 43    | P4            | 50             | Diode sect.                    |
| 20 AC         | 0    | -----  | RL     | 48    | P2            | 65             | Adj fil to 1.4.                |
| 65            | 1.0  | 65     | RL     | 50    | P4            | -----          |                                |
| 45            | 1.0  | 45     | RL     | 79    | P4            | 65             | Pentode sect. Adj fil to 1.25. |
| 45            | 3.5  | 45     | RL     | 60    | P4            | 65             | Triode sect. Adj fil to 1.25.  |
| 90            | 9.0  | 90     | RL     | 92    | P4            | 65             | Adj fil to 1.4.                |
| 225           | 0    | -----  | RL     | 90    | P2            | 72             | Adj fil to 1.25.               |
| 80            | CCW  | 0      | RL     | 73    | P4            | 65             | Adj fil to 2.35.               |

#Adjust plate and screen controls so that plate meter reads 3.0 MA.

\* OK under 100 on percent quality meter. (Tube voltage drop measured.)

**TB 11-6625-316-12/1**

| Tube type        | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |        |
|------------------|------|----------|-------------------------|----------|------|--------|--------|
|                  |      |          |                         | Filament | Bias | PI SCR | Gm SIG |
| 2B3              | EM   | T        | 27 0A0 00               | 2.0      | 5    | N      | A      |
| 2BN4             | GM   | T        | 34 250 10               | 2.0      | D    | G      | B      |
| 2BN4A            | GM   | T        | 43 250 10               | 2.0      | D    | G      | B      |
| 2CW4             | GM   | T        | 31 420 80               | 2.0      | 5    | N      | B      |
| 2CY5             | GM   | T        | 34 156 20               | 2.5      | 5    | L      | B      |
| 2D21W            | TH   | VR       | 34 106 27               | 6.3      | 10   | L      | F      |
| 2E5              | ER   | T        | 16 040 50               | 2.5      | 5    | K      | F      |
| 2E5              | ER   | T        | 16 042 50               | 2.5      | 5    | K      | F      |
| 2E5              | EM   | T        | 16 342 50               | 2.5      | 5    | S      | A      |
| 2E36             | GM   | T        | 35 412 00               | 1.1      | 5    | Q      | E      |
| 2E41             | GM   | T        | 46 512 00               | 1.1      | 5    | Q      | E      |
| 2E41             | EM   | T        | 46 030 00               | 1.1      | 5    | S      | C      |
| 2E42             | GM   | T        | 46 512 00               | 1.1      | 5    | Q      | E      |
| 2E42             | EM   | T        | 46 030 00               | 1.1      | 5    | S      | C      |
| 2EA5             | GM   | T        | 43 156 20               | 2.5      | 5    | J      | B      |
| 2EN5             | EM   | T        | 43 070 56               | 2.0      | 5    | S      | A      |
| 2EN5             | EM   | T        | 43 020 56               | 2.0      | 5    | S      | A      |
| 2ER5             | GM   | T        | 43 256 70               | 2.0      | 5    | M      | B      |
| 2ES5             | GM   | T        | 34 250 10               | 2.5      | 5    | G      | B      |
| 2EV5             | GM   | T        | 34 156 20               | 2.5      | 5    | M      | B      |
| 2FH5             | GM   | T        | 34 250 70               | 2.5      | 5    | M      | B      |
| 2FQ5             | GM   | T        | 43 250 70               | 2.5      | 5    | K      | B      |
| 2FS5             | GM   | T        | 34 156 70               | 2.5      | 5    | J      | B      |
| 2FY5             | GM   | T        | 34 250 16               | 2.5      | 5    | K      | B      |
| 2G22             | GM   | T        | 47 326 51               | 1.1      | 5    | Q      | E      |
| 2G22             | GM   | T        | 47 310 00               | 1.1      | 5    | Q      | E      |
| 2GK5             | GM   | T        | 34 250 70               | 2.5      | 5    | K      | A      |
| 2T4 <sup>1</sup> | GM   | T        | 34 210 50               | 2.5      | C    | N      | B      |
| 2V2              | EM   | T        | 27 0A0 00               | 2.5      | 5    | G      | A      |
| 3A2              | EM   | T        | 12 0A0 00               | 3.0      | 5    | G      | A      |
| 3A3              | EM   | T        | 27 0A0 00               | 3.0      | 5    | G      | A      |
| 3A4              | GM   | T        | 17 423 00               | 3.0      | 10   | N      | D      |
| 3AF4A            | GM   | T        | 34 210 50               | 3.0      | C    | N      | B      |
| 3AL5             | EM   | T        | 34 070 10               | 3.0      | 5    | S      | A      |
| 3AL5             | EM   | T        | 34 020 50               | 3.0      | 5    | S      | A      |
| 3AU6             | GM   | T        | 34 156 72               | 3.0      | A    | J      | B      |
| 3AV6             | GM   | T        | 34 170 20               | 3.0      | 5    | G      | C      |
| 3AV6             | EM   | T        | 34 060 20               | 3.0      | 5    | S      | B      |
| 3AV6             | EM   | T        | 34 050 20               | 3.0      | 5    | S      | B      |

| Meter setting |      |        |         | hunt | Press to test | Minimum limits | Notes                                 |
|---------------|------|--------|---------|------|---------------|----------------|---------------------------------------|
| Plate         | Bias | Screen | Sig V F |      |               |                |                                       |
| 100           | 0    |        | RL      | 40   | P2            | 50             | Adj fil to 1.75.                      |
| 150           | CCW  |        | RL      | 70   | P4            | 65             | Adj fil to 2.1.                       |
| 150           | CCW  |        | RL      | 55   | P4            | 65             | Adj fil to 2.35.                      |
| 70            | .2   |        | RL      | 25   | P4            | 65             | Use Hickok adapter code No. 1050-127. |
| 125           | 1.0  | 80     | RL      | 70   | P4            | 65             | Adj fil to 2.4.                       |
|               | 10   | 120    | FS      | 50   | P5            | Bias           | Volts 1.5 min, 3.0 max.               |
| 200           | 0    | 200    | RL      | 0    | P4            | -----          | Eye open.                             |
| 200           | 0    | 200    | RL      | 0    | P4            | -----          | Eye closed.                           |
| 20 AC         | 0    |        | RL      | 54   | P2, P3        | 50             | Triode sect.                          |
| 45            | 1.25 | 45     | RL      | 55   | P4            | 65             |                                       |
| 45            | 2.0  | 45     | RL      | 80   | P4            | 65             | Pentode sect. Adj fil to 1.25.        |
| 20 AC         | 0    |        | RL      | 26   | P2            | 50             | Diode sect. Adj fil to 1.25.          |
| 45            | 2.0  | 45     | RL      | 80   | P4            | 65             | Pentode sect. Adj fil to 1.25.        |
| 20 AC         | 0    |        | RL      | 26   | P2            | 50             | Diode sect. Adj fil to 1.25.          |
| 250           | 1.0  | 140    | RL      | 57   | P4            | 65             | Adj fil to 2.3.                       |
| 20 AC         | 0    |        | RL      | 80   | P2            | 40             | Diode #1.                             |
| 20 AC         | 0    |        | RL      | 80   | P2            | 40             | Diode #2.                             |
| 200           | 1.2  |        | RL      | 28   | P4            | 65             | Adj fil to 2.1.                       |
| 200           | 1.0  |        | RL      | 40   | P4            | 63             | Adj fil to 2.35.                      |
| 195           | 1.2  | 80     | RL      | 65   | P4            | 63             | Adj fil to 2.4.                       |
| 135           | 1.0  |        | RL      | 44   | P4            | 63             |                                       |
| 135           | 1.2  |        | RL      | 24   | P4            | 65             | Adj fil to 2.3.                       |
| 245           | .2   | 135    | RL      | 43   | P4            | 65             | Adj fil to 2.4.                       |
| 135           | 1.0  |        | RL      | 20   | P4            | 65             | Adj fil to 2.4.                       |
| 45            | 3.0  | 43     | RL      | 85   | P4            | 65             | Heptode sect. Adj fil to 1.25.        |
| 40            | 3.0  | 40     | RL      | 67   | P4            | 65             | Triode sect. Adj fil to 1.25.         |
| 135           | 1.0  |        | RL      | 100  | P4            | 65             | Adj fil to 2.3.                       |
| 80            | CCW  | 0      | RL      | 68   | P4            | 65             | Adj fil to 2.35.                      |
| 225           | 0    | 0      | RL      | 21   | P2            | 50             |                                       |
| 150           | 0    | 0      | RL      | 21   | P2            | 50             | Adj fil to 3.15.                      |
| 225           | 0    | 0      | RL      | 21   | P2            | 50             | Adj fil to 3.15.                      |
| 75            | 5.7  | 67.5   | RL      | 58   | P4            | 65             | Adj fil to 2.8.                       |
| 80            | CCW  | 0      | RL      | 73   | P4            | 65             | Adj fil to 3.2.                       |
| 20 AC         | 0    | 0      | RL      | 66   | P2            | 50             | Diode #1. Adj fil to 3.15.            |
| 20 AC         | 0    | 0      | RL      | 66   | P2            | 50             | Diode #2. Adj fil to 3.15.            |
| 250           | CCW  | 150    | RL      | 100  | P4            | 65             | Adj fil to 3.15.                      |
| 250           | 2.0  |        | RL      | 94   | P4            | 65             | Triode sect. Adj fil to 3.15.         |
| 20 AC         | 0    | 0      | RL      | 58   | P2            | 25             | Diode #1. Adj fil to 3.15.            |
| 20 AC         | 0    | 0      | RL      | 58   | P2            | 25             | Diode #2. Adj fil to 3.15.            |

\*OK under 100 percent quality meter. (Tube voltage drop measured.)

**TB 11-6625-316-12/1**

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |        |
|-----------|------|----------|-------------------------|----------|------|--------|--------|
|           |      |          |                         | Filament | Bias | Pl SCR | 3m SIG |
| 3B2       | EM   | T        | 27 0A0 00               | 3.0      | 5    | G      | A      |
| 3B4       | GM   | T        | 45 371 00               | 2.5      | 50   | H      | D      |
| 3BA6      | GM   | T        | 34 156 72               | 3.0      | A    | N      | C      |
| 3BC5      | GM   | T        | 34 156 20               | 3.0      | D    | J      | C      |
| 3BE6      | GM   | T        | 34 165 27               | 3.0      | 5    | N      | A      |
| 3BN4      | GM   | T        | 34 250 10               | 3.0      | D    | G      | B      |
| 3BN4A     | GM   | T        | 43 250 10               | 3.0      | D    | G      | B      |
| 3BN6      | GM   | T        | 34 275 16               | 3.0      | 5    | N      | D      |
| 3BU8      | GM   | T        | 45 782 19               | 3.0      | 5    | L      | D      |
| 3BU8      | GM   | T        | 45 732 16               | 3.0      | 5    | L      | D      |
| 3BX6      | GM   | T        | 45 278 19               | 3.0      | 5    | K      | B      |
| 3BY6      | GM   | T        | 34 165 27               | 3.0      | 5    | P      | C      |
| 3BZ6      | GM   | T        | 34 156 27               | 3.0      | D    | H      | B      |
| 3C2       | EM   | T        | 27 0A0 00               | 3.0      | 5    | G      | A      |
| 3C4       | GM   | T        | 17 623 00               | 2.5      | 10   | N      | C      |
| 3CB6      | GM   | T        | 34 156 27               | 3.0      | D    | H      | B      |
| 3CE5      | GM   | T        | 34 156 20               | 3.0      | D    | H      | B      |
| 3CF6      | GM   | T        | 34 156 27               | 3.0      | D    | H      | B      |
| 3CS6      | GM   | T        | 34 165 27               | 3.0      | 5    | N      | C      |
| 3CY5      | GM   | T        | 34 156 20               | 3.0      | 5    | L      | B      |
| 3D6/1299  | GM   | T        | 81 623 00               | 3.0      | 5    | N      | D      |
| 3DK6      | GM   | T        | 34 156 27               | 3.0      | A    | K      | B      |
| 3DT6      | GM   | T        | 34 156 27               | 3.0      | E    | L      | C      |
| 3E5       | GM   | T        | 17 623 00               | 2.5      | 10   | N      | D      |
| 3E6       | GM   | T        | 18 623 04               | 3.0      | 5    | N      | D      |
| 3E29      | GM   | T        | 57 6B3 40               | 6.3      | 50   | H      | B      |
| 3E29      | GM   | T        | 51 2A3 40               | 6.3      | 50   | H      | B      |
| 3EA5      | GM   | T        | 43 156 20               | 3.0      | 5    | J      | B      |
| 3ER5      | GM   | T        | 43 256 70               | 3.0      | 5    | M      | B      |
| 3EV5      | GM   | T        | 34 156 20               | 3.0      | 5    | M      | B      |
| 3FH5      | GM   | T        | 34 250 70               | 3.0      | 5    | M      | B      |
| 3FQ5      | GM   | T        | 43 250 70               | 3.0      | 5    | K      | B      |
| 3FV5      | GM   | T        | 34 250 16               | 3.0      | 5    | K      | B      |
| 3GK5      | GM   | T        | 34 250 70               | 3.0      | 5    | K      | A      |
| 3GS8      | GM   | T        | 54 782 19               | 3.0      | 5    | N      | D      |
| 3GS8      | GM   | T        | 54 732 16               | 3.0      | 5    | N      | D      |
| 3LE4      | GM   | T        | 81 623 00               | 3.0      | 10   | N      | D      |
| 3LF4      | GM   | T        | 81 623 00               | 3.0      | 5    | N      | D      |
| 3Q4       | GM   | T        | 71 324 00               | 3.0      | 5    | N      | D      |
| 3Q5GT     | GM   | T        | 72 534 00               | 3.0      | 5    | N      | D      |
| 3S4       | GM   | T        | 17 324 00               | 3.0      | 10   | N      | D      |



| Meter setting |      |        |        | shunt | Press to test | Minimum limits | Notes                        |
|---------------|------|--------|--------|-------|---------------|----------------|------------------------------|
| Plate         | Bias | screen | Sig VI |       |               |                |                              |
| 225           | 0    | 0      | RL     | 30    | P2            | 50             | Adj fil to 3.15.             |
| 200           | 25   | 150    | RL     | 54    | P4            | 50             |                              |
| 100           | CCW  | 100    | RL     | 48    | P4            | 65             | Adj fil to 3.15.             |
| 250           | CCW  | 150    | RL     | 35    | P4            | 65             | Adj fil to 3.15.             |
| 110           | 1.0  | 110    | RL     | 98    | P4            | 65             | Adj fil to 3.15.             |
| 150           | CCW  | -----  | RL     | 70    | P4            | 65             | Adj fil to 2.8.              |
| 150           | CCW  | -----  | RL     | 55    | P4            | 65             |                              |
| 75            | 2.0  | 67.5   | RL     | 83    | P4            | 65             | Adj fil to 3.15.             |
| 150           | 1.0  | 100    | RL     | 66    | P4            | 65             | Pentode #1. Adj fil to 3.15. |
| 150           | 1.0  | 100    | RL     | 66    | P4            | 65             | Pentode #2. Adj fil to 3.15. |
| 170           | 2.0  | 170    | RL     | 74    | P4            | 65             | Adj fil to 3.4.              |
| 100           | 2.0  | 50     | RL     | 63    | P4            | 65             | Adj fil to 3.15.             |
| 200           | CCW  | 150    | RL     | 88    | P4            | 65             | Adj fil to 3.15.             |
| 150           | 0    | -----  | RL     | 24    | P2            | 50             | Adj fil to 3.15.             |
| 85            | 5.2  | 85     | RL     | 93    | P4            | 65             | Adj fil to 2.8.              |
| 200           | CCW  | 150    | RL     | 88    | P4            | 65             | Adj fil to 3.15.             |
| 200           | CCW  | 150    | RL     | 88    | P4            | 65             | Adj fil to 3.15.             |
| 200           | CCW  | 150    | RL     | 88    | P4            | 65             | Adj fil to 3.15.             |
| 80            | 1.0  | 80     | RL     | 53    | P4            | 65             | Adj fil to 3.15.             |
| 125           | 1    | 80     | RL     | 70    | P4            | 65             | Adj fil to 2.9.              |
| 90            | 4.5  | 90     | RL     | 38    | P4            | 65             | Adj fil to 2.8.              |
| 125           | CCW  | 125    | RL     | 48    | P4            | 65             | Adj fil to 3.15.             |
| 150           | CCW  | 100    | RL     | 87    | P4            | 65             | Adj fil to 3.15.             |
| 90            | 8.0  | 90     | RL     | 87    | P4            | 65             |                              |
| 90            | 1.8  | 90     | RL     | 74    | P4            | 65             |                              |
| 220           | 10   | 155    | RL     | 46    | P4            | 60             | Pentode #1.                  |
| 220           | 10   | 155    | RL     | 46    | P4            | 60             | Pentode #2.                  |
| 250           | 1.0  | 140    | RL     | 57    | P4            | 65             |                              |
| 200           | 1.2  | -----  | RL     | 28    | P4            | 65             | Adj fil to 2.8.              |
| 195           | 1.2  | 80     | RL     | 65    | P4            | 63             | Adj fil to 2.9.              |
| 135           | 1.0  | -----  | RL     | 44    | P4            | 63             |                              |
| 135           | 1.2  | -----  | RL     | 24    | P4            | 65             | Adj fil to 2.8.              |
| 135           | 1.0  | -----  | RL     | 20    | P4            | 65             | Adj fil to 3.1.              |
| 135           | 1.0  | -----  | RL     | 100   | P4            | 65             | Adj fil to 2.8.              |
| 100           | 0    | 67.5   | RL     | 80    | P4            | 65             | Pentode #1. Adj fil to 9.15. |
| 100           | 0    | 67.5   | RL     | 80    | P4            | 65             | Pentode #2. Adj fil to 9.15. |
| 90            | 9    | 90     | RL     | 60    | P4            | 60             | Adj fil to 2.8.              |
| 90            | 4.5  | 90     | RL     | 41    | P4            | 65             | Adj fil to 2.8.              |
| 90            | 4.5  | 90     | RL     | 49    | P4            | 65             | Adj fil to 2.8.              |
| 90            | 4.5  | 90     | RL     | 41    | P4            | 65             | Adj fil to 2.8.              |
| 75            | 7    | 67.5   | RL     | 63    | P4            | 65             | Adj fil to 2.8.              |

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| Tube type | Test | Function | Selectors<br>(L. to R.) | Range   |      |        |        |
|-----------|------|----------|-------------------------|---------|------|--------|--------|
|           |      |          |                         | Filamen | Bias | PI SCR | Gm SIG |
| 3V4       | GM   | T        | 17 623 00               | 3.0     | 5    | N      | D      |
| 4AU6      | GM   | T        | 34 156 72               | 4.2     | C    | N      | C      |
| 4AV6      | GM   | T        | 34 170 20               | 4.2     | 5    | J      | D      |
| 4AV6      | EM   | T        | 34 060 20               | 4.2     | 5    | S      | B      |
| 4AV6      | EM   | T        | 34 050 20               | 4.2     | 5    | S      | B      |
| 4BA6      | GM   | T        | 34 156 72               | 4.2     | A    | M      | C      |
| 4BC5      | GM   | T        | 34 156 20               | 4.2     | C    | J      | B      |
| 4BC8      | GM   | T        | 45 760 89               | 4.2     | D    | G      | C      |
| 4BC8      | GM   | T        | 45 210 39               | 4.2     | D    | G      | C      |
| 4BE6      | GM   | T        | 34 165 27               | 4.2     | 5    | N      | A      |
| 4BL8      | GM   | T        | 54 263 71               | 4.2     | 5    | K      | B      |
| 4BL8      | GM   | T        | 54 910 86               | 4.2     | 5    | N      | C      |
| 4BN4      | GM   | T        | 34 250 10               | 4.2     | D    | G      | B      |
| 4BN6      | GM   | T        | 34 275 16               | 4.2     | 5    | N      | D      |
| 4BQ7A     | GM   | T        | 45 760 89               | 4.2     | D    | G      | C      |
| 4BQ7A     | GM   | T        | 45 210 39               | 4.2     | D    | G      | C      |
| 4B88      | GM   | T        | 45 760 80               | 4.2     | D    | G      | B      |
| 4B88      | GM   | T        | 45 210 30               | 4.2     | D    | G      | B      |
| 4BU8      | GM   | T        | 45 782 19               | 4.2     | 5    | L      | D      |
| 4BU8      | GM   | T        | 45 732 16               | 4.2     | 5    | L      | D      |
| 4BX8      | GM   | T        | 45 760 89               | 4.2     | 5    | P      | B      |
| 4BX8      | GM   | T        | 45 210 39               | 4.2     | 5    | P      | B      |
| 4BZ6      | GM   | T        | 34 156 27               | 4.2     | D    | H      | B      |
| 4BZ7      | GM   | T        | 45 760 89               | 4.2     | D    | G      | B      |
| 4BZ7      | GM   | T        | 45 210 39               | 4.2     | D    | G      | B      |
| 4BZ8      | GM   | T        | 45 760 89               | 4.2     | B    | M      | B      |
| 4BZ8      | GM   | T        | 45 210 39               | 4.2     | B    | M      | B      |
| 4CB6      | GM   | T        | 34 156 27               | 4.2     | D    | H      | B      |
| 4CE5      | GM   | T        | 34 156 20               | 4.2     | D    | H      | B      |
| 4CS6      | GM   | T        | 34 165 27               | 4.2     | 5    | N      | C      |
| 4CY5      | GM   | T        | 34 156 20               | 4.2     | 5    | L      | B      |
| 4DE6      | GM   | T        | 34 156 27               | 4.2     | D    | H      | B      |
| 4DT6      | GM   | T        | 34 156 27               | 4.2     | E    | L      | C      |
| 4ES8      | GM   | T        | 45 760 80               | 4.2     | 5    | N      | B      |
| 4ES8      | GM   | T        | 45 210 30               | 4.2     | 5    | N      | B      |
| 4EW6      | GM   | T        | 43 156 27               | 4.2     | A    | G      | B      |
| 4GS8      | GM   | T        | 54 782 19               | 4.2     | 5    | N      | D      |
| 4GS8      | GM   | T        | 54 732 16               | 4.2     | 5    | N      | D      |
| 5AM8      | GM   | T        | 45 263 19               | 5.0     | C    | H      | B      |
| 5AM8      | EM   | T        | 45 080 70               | 5.0     | 5    | S      | A      |
| 5AN8      | GM   | T        | 45 867 91               | 5.0     | D    | H      | B      |

| Meter setting |      |        |        | Shunt | Press to test | Minimum limits | Notes                         |
|---------------|------|--------|--------|-------|---------------|----------------|-------------------------------|
| Plate         | Bias | Screen | Sig VI |       |               |                |                               |
| 90            | 4.5  | 90     | RL     | 44    | P4            | 67             | Adj fil to 2.8.               |
| 100           | CCW  | 100    | RL     | 53    | P4            | 65             |                               |
| 250           | 2.0  | -----  | RL     | 63    | P4            | 65             | Triode sect.                  |
| 20 AC         | 0    | -----  | RL     | 58    | P2            | 25             | Diode #1.                     |
| 20 AC         | 0    | -----  | RL     | 58    | P2            | 25             | Diode #2.                     |
| 220           | CCW  | 100    | RL     | 43    | P4            | 65             |                               |
| 250           | CCW  | 150    | RL     | 93    | P4            | 65             |                               |
| 150           | CCW  |        | RL     | 28    | P4            | 65             | Triode #1. Adj fil to 4.2.    |
| 150           | CCW  |        | RL     | 28    | P4            | 65             | Triode #2. Adj fil to 4.2.    |
| 110           | 1.0  | 110    | RL     | 98    | P4            | 65             |                               |
| 170           | 2.1  | 170    | RL     | 82    | P4            | 65             | Pentode sect. Adj fil to 4.6. |
| 100           | 2.0  | -----  | RL     | 37    | P4            | 65             | Triode sect. Adj fil to 4.6.  |
| 150           | CCW  |        | RL     | 70    | P4            | 65             |                               |
| 75            | 2.0  | 67.5   | RL     | 83    | P4            | 65             |                               |
| 150           | CCW  | -----  | RL     | 27    | P4            | 65             | Triode #1. Adj fil to 4.2.    |
| 150           | CCW  | -----  | RL     | 27    | P4            | 65             | Triode #2. Adj fil to 4.2.    |
| 150           | CCW  |        | RL     | 64    | P4            | 65             | Triode #1. Adj fil to 4.2.    |
| 150           | CCW  |        | RL     | 64    | P4            | 65             | Triode #2. Adj fil to 4.2.    |
| 150           | 1.0  | 100    | RL     | 66    | P4            | 65             | Pentode #1.                   |
| 150           | 1.0  | 100    | RL     | 66    | P4            | 65             | Pentode #2.                   |
| 65            | 1.5  |        | RL     | 95    | P4            | 65             | Triode #1. Adj fil to 4.5.    |
| 65            | 1.5  |        | RL     | 95    | P4            | 65             | Triode #2. Adj fil to 4.5.    |
| 200           | CCW  | 150    | RL     | 88    | P4            | 65             |                               |
| 150           | CCW  | -----  | RL     | 74    | P4            | 65             | Triode #1. Adj fil to 4.2.    |
| 150           | CCW  | -----  | RL     | 74    | P4            | 65             | Triode #2. Adj fil to 4.2.    |
| 125           | CCW  | -----  | RL     | 62    | P4            | 65             | Triode #1.                    |
| 125           | CCW  |        | RL     | 62    | P4            | 65             | Triode #2.                    |
| 200           | CCW  | 150    | RL     | 88    | P4            | 65             |                               |
| 200           | CCW  | 150    | RL     | 88    | P4            | 65             |                               |
| 80            | 1.0  | 80     | RL     | 53    | P4            | 65             |                               |
| 125           | 1.0  | 80     | RL     | 70    | P4            | 65             | Adj fil to 4.5.               |
| 200           | CCW  | 150    | RL     | 88    | P4            | 65             |                               |
| 150           | CCW  | 100    | RL     | 87    | P4            | 65             |                               |
| 90            | 1.7  | -----  | RL     | 25    | P4            | 65             | Triode #1.                    |
| 90            | 1.7  |        | RL     | 25    | P4            | 65             | Triode #2.                    |
| 150           | CCW  | 125    | RL     | 21    | P4            | 65             |                               |
| 100           | 0    | 67.5   | RL     | 80    | P4            | 65             | Pentode #1.                   |
| 100           | 0    | 67.5   | RL     | 80    | P4            | 65             | Pentode #2.                   |
| 200           | CCW  | 150    | RL     | 95    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 20 AC         | 0    | -----  | RL     | 86    | P2            | 50             | Diode sect. Adj fil to 4.7.   |
| 200           | CCW  | 150    | RL     | 88    | P4            | 65             | Pentode sect. Adj fil to 4.7. |

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range   |      |        |        |
|-----------|------|----------|-------------------------|---------|------|--------|--------|
|           |      |          |                         | Filamen | Bias | PI SCR | Gm SIG |
| 5AN8      | GM   | T        | 45 210 36               | 5.0     | 10   | G      | C      |
| 5AQ5      | GM   | T        | 34 156 20               | 5.0     | 10   | K      | C      |
| 5AS8      | GM   | T        | 45 291 37               | 5.0     | D    | H      | B      |
| 5AS8      | EM   | T        | 45 060 87               | 5.0     | 5    | S      | B      |
| 5AT8      | GM   | T        | 45 967 38               | 5.0     | D    | J      | C      |
| 5AT8      | GM   | T        | 45 120 30               | 5.0     | B    | N      | B      |
| 5AV8      | GM   | T        | 45 698 70               | 5.0     | D    | H      | B      |
| 5AV8      | GM   | T        | 45 230 10               | 5.0     | 10   | G      | C      |
| 5B8       | GM   | T        | 45 698 71               | 5.0     | D    | H      | B      |
| 5B8       | GM   | T        | 45 230 19               | 5.0     | 10   | G      | C      |
| 5BE8      | GM   | T        | 45 967 83               | 5.0     | A    | J      | B      |
| 5BE8      | GM   | T        | 45 120 30               | 5.0     | A    | M      | B      |
| 5BK7A     | GM   | T        | 45 760 89               | 5.0     | A    | M      | B      |
| 5BK7A     | GM   | T        | 45 210 39               | 5.0     | A    | M      | B      |
| 5BQ7A     | GM   | T        | 45 760 89               | 5.0     | D    | G      | C      |
| 5BQ7A     | GM   | T        | 45 210 39               | 5.0     | D    | G      | C      |
| 5BR8      | GM   | T        | 45 967 80               | 5.0     | A    | J      | B      |
| 5BR8      | GM   | T        | 45 120 30               | 5.0     | A    | M      | B      |
| 5BS8      | GM   | T        | 45 760 80               | 5.0     | D    | G      | B      |
| 5BS8      | GM   | T        | 45 210 30               | 5.0     | D    | G      | B      |
| 5BT8      | GM   | T        | 45 867 90               | 5.0     | C    | H      | B      |
| 5BT8      | EM   | T        | 45 010 30               | 5.0     | 5    | S      | B      |
| 5BT8      | EM   | T        | 45 020 30               | 5.0     | 5    | S      | B      |
| 5BW8      | GM   | T        | 54 698 70               | 5.0     | A    | J      | B      |
| 5BW8      | EM   | T        | 54 030 21               | 5.0     | 5    | S      | A      |
| 5BW8      | EM   | T        | 54 010 23               | 5.0     | 5    | S      | A      |
| 5BZ7      | GM   | T        | 45 760 89               | 5.0     | D    | G      | B      |
| 5BZ7      | GM   | T        | 45 210 39               | 5.0     | D    | G      | B      |
| 5CG8      | GM   | T        | 45 967 80               | 5.0     | D    | J      | C      |
| 5CG8      | GM   | T        | 45 120 30               | 5.0     | B    | N      | B      |
| 5CL8      | GM   | T        | 45 967 80               | 5.0     | 5    | G      | B      |
| 5CL8      | GM   | T        | 45 120 30               | 5.0     | A    | K      | B      |
| 5CM6      | GM   | T        | 45 391 70               | 5.0     | 10   | K      | C      |
| 5CM8      | GM   | T        | 45 267 30               | 5.0     | D    | H      | B      |
| 5CM8      | GM   | T        | 45 910 80               | 5.0     | 5    | G      | C      |
| 5CQ8      | GM   | T        | 45 263 70               | 5.0     | 5    | G      | B      |
| 5CQ8      | GM   | T        | 45 910 80               | 5.0     | A    | K      | B      |
| 5CZ5      | GM   | T        | 45 391 70               | 5.0     | 50   | G      | C      |
| 5DH8      | GM   | T        | 45 967 83               | 5.0     | A    | G      | B      |
| 5DH8      | GM   | T        | 45 120 30               | 5.0     | E    | J      | C      |
| 5EA8      | GM   | T        | 45 263 70               | 5.0     | 5    | K      | B      |

| Meter setting |      |        |         | shunt | Press to test | Minimum limits | Notes                         |
|---------------|------|--------|---------|-------|---------------|----------------|-------------------------------|
| Plate         | Bias | Screen | Sig V I |       |               |                |                               |
| 200           | 6.0  | -----  | RL      | 52    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 180           | 8.5  | 180    | RL      | 54    | P4            | 65             | Adj fil to 4.7.               |
| 200           | CCW  | 150    | RL      | 88    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 20 AC         | 0    |        | RL      | 18    | P2            | 50             | Diode sect. Adj fil to 4.7.   |
| 250           | CCW  | 150    | RL      | 42    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 100           | CCW  |        | RL      | 89    | P4            | 65             | Diode sect. Adj fil to 4.7.   |
| 200           | CCW  | 150    | RL      | 88    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 200           | 6.0  |        | RL      | 52    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 200           | CCW  | 150    | RL      | 88    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 200           | 6.0  | -----  | RL      | 52    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 250           | CCW  | 135    | RL      | 92    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 150           | CCW  | -----  | RL      | 43    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 150           | CCW  | -----  | RL      | 38    | P4            | 65             | Triode #1. Adj fil to 4.7.    |
| 150           | CCW  | -----  | RL      | 38    | P4            | 65             | Triode #2. Adj fil to 4.7.    |
| 150           | CCW  | -----  | RL      | 27    | P4            | 65             | Triode #1. Adj fil to 5.6.    |
| 150           | CCW  |        | RL      | 27    | P4            | 65             | Triode #2. Adj fil to 5.6.    |
| 250           | CCW  | 135    | RL      | 93    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 150           | CCW  |        | RL      | 43    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 150           | CCW  | -----  | RL      | 64    | P4            | 65             | Triode #1. Adj fil to 5.6.    |
| 150           | CCW  | -----  | RL      | 64    | P4            | 65             | Triode #2. Adj fil to 5.6.    |
| 200           | CCW  | 150    | RL      | 77    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 20 AC         | 0    |        | RL      | 28    | P2            | 50             | Diode #1. Adj fil to 4.7.     |
| 20 AC         | 0    |        | RL      | 28    | P2            | 50             | Diode #2. Adj fil to 4.7.     |
| 250           | CCW  | 135    | RL      | 95    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 20 AC         | 0    | -----  | RL      | 90    | P2            | 50             | Diode #1. Adj fil to 4.7.     |
| 20 AC         | 0    |        | RL      | 90    | P2            | 50             | Diode #2. Adj fil to 4.7.     |
| 150           | CCW  | -----  | RL      | 74    | P4            | 65             | Triode #1. Adj fil to 5.6.    |
| 150           | CCW  |        | RL      | 74    | P4            | 65             | Triode #2. Adj fil to 5.6.    |
| 250           | CCW  | 150    | RL      | 42    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 100           | CCW  | -----  | RL      | 89    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 150           | 1.0  | 125    | RL      | 88    | P4            | 65             | Tetrode sect. Adj fil to 4.7. |
| 125           | CCW  |        | RL      | 54    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 180           | 8.5  | 180    | RL      | 54    | P4            | 65             | Adj fil to 4.7.               |
| 200           | CCW  | 150    | RL      | 88    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 250           | 2.0  |        | RL      | 83    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 150           | 1.0  | 125    | RL      | 83    | P4            | 65             | Tetrode sect. Adj fil to 4.7. |
| 125           | CCW  | -----  | RL      | 55    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 250           | 14.0 | 250    | RL      | 39    | P4            | 65             | Adj fil to 4.7.               |
| 150           | CCW  | 125    | RL      | 48    | P4            | 65             | Pentode sect. Adj fil to 5.2. |
| 200           | CCW  |        | RL      | 43    | P4            | 65             | Triode sect. Adj fil to 5.2.  |
| 150           | 1.0  | 125    | RL      | 80    | P4            | 65             | Pentode sect. Adj fil to 4.7. |

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| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |        |
|-----------|------|----------|-------------------------|----------|------|--------|--------|
|           |      |          |                         | filament | Bias | PI SCR | 3m SIG |
| 5EA8      | GM   | Γ        | 45 910 80               | 5.0      | A    | K      | B      |
| 5EH8      | GM   | Γ        | 45 798 60               | 5.0      | 5    | K      | B      |
| 5EH8      | GM   | Γ        | 45 230 10               | 5.0      | 5    | M      | B      |
| 5ES8      | GM   | Γ        | 45 760 80               | 5.0      | 5    | N      | B      |
| 5ES8      | GM   | Γ        | 45 210 30               | 5.0      | 5    | N      | B      |
| 5EU8      | GM   | Γ        | 45 719 80               | 5.0      | 5    | K      | B      |
| 5EU8      | GM   | Γ        | 45 230 60               | 5.0      | A    | K      | B      |
| 5EW6      | GM   | Γ        | 43 156 27               | 5.0      | A    | G      | B      |
| 5FG7      | GM   | Γ        | 45 967 80               | 5.0      | 5    | K      | B      |
| 5FG7      | GM   | Γ        | 45 120 30               | 5.0      | 5    | G      | B      |
| 5FV8      | GM   | Γ        | 45 967 80               | 5.0      | 5    | G      | B      |
| 5FV8      | GM   | Γ        | 45 120 30               | 5.0      | 5    | G      | B      |
| 5GH8      | GM   | T        | 45 263 70               | 5.0      | 5    | K      | B      |
|           | GM   | T        | 45 110 80               | 5.0      | 5    | K      | B      |
| 5J6       | GM   | T        | 34 520 76               | 5.0      | B    | N      | B      |
| 5J6       | GM   | T        | 34 610 75               | 5.0      | B    | N      | B      |
| 5R4G4     | EM   | T        | 28 060 00               | 5.0      | 5    | R      | A      |
| 5R4G4     | EM   | T        | 28 040 00               | 5.0      | 5    | R      | A      |
| 5T8       | GM   | T        | 45 890 70               | 5.0      | 5    | G      | D      |
| 5T8       | EM   | T        | 45 060 70               | 5.0      | 5    | S      | A      |
| 5T8       | EM   | T        | 45 020 30               | 5.0      | 5    | S      | A      |
| 5T8       | EM   | T        | 45 010 70               | 5.0      | 5    | S      | A      |
| 5U8       | GM   | T        | 45 263 70               | 5.0      | A    | J      | B      |
| 5U8       | GM   | T        | 45 910 80               | 5.0      | A    | G      | B      |
| 5V6       | GM   | T        | 27 534 80               | 5.0      | 50   | K      | C      |
| 5X8       | GM   | T        | 45 798 61               | 5.0      | D    | J      | C      |
| 5X8       | GM   | T        | 45 230 60               | 5.0      | B    | N      | B      |
| 6AB8      | GM   | T        | 45 968 37               | 6.3      | 10   | K      | C      |
| 6AB8      | GM   | T        | 45 210 30               | 6.3      | 5    | N      | D      |
| 6AJ8      | GM   | T        | 45 261 37               | 6.3      | 5    | L      | C      |
| 6AJ8      | GM   | T        | 45 980 36               | 6.3      | 5    | L      | C      |
| 6AK8      | GM   | T        | 45 890 76               | 6.3      | 5    | J      | D      |
| 6AK8      | EM   | T        | 45 060 79               | 6.3      | 5    | S      | B      |
| 6AK8      | EM   | T        | 45 020 30               | 6.3      | 5    | S      | A      |
| 6AK8      | EM   | T        | 45 010 79               | 6.3      | 5    | S      | A      |
| 6AN8      | GM   | T        | 45 867 91               | 6.3      | D    | H      | B      |
| 6AN8      | GM   | T        | 45 210 36               | 6.3      | 10   | G      | C      |
| 6AQ4      | GM   | T        | 43 170 50               | 6.3      | 5    | J      | B      |
| 6AQ5      | GM   | T        | 34 156 22               | 6.3      | 5    | G      | C      |
| 6AQ8      | GM   | T        | 45 760 89               | 6.3      | 5    | N      | C      |
| 6AQ8      | GM   | T        | 45 210 39               | 6.3      | 5    | N      | C      |

| Meter setting |      |        |         | shunt | Press to test | Minimum limits | Notes                         |
|---------------|------|--------|---------|-------|---------------|----------------|-------------------------------|
| Plate         | Bias | Screen | Sig V I |       |               |                |                               |
| 150           | 0    | ----   | RL      | 50    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 150           | 1.0  | 125    | RL      | 85    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 125           | 1.0  | ----   | RL      | 60    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 90            | 1.7  | ----   | RL      | 25    | P4            | 65             | Triode #1. Adj fil to 5.6.    |
| 90            | 1.7  | ----   | RL      | 25    | P4            | 65             | Triode #2. Adj fil to 5.6.    |
| 150           | 1.0  | 125    | RL      | 80    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 150           | 0    | ----   | RL      | 50    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 150           | CCW  | 125    | RL      | 21    | P4            | 65             | Adj fil to 5.6.               |
| 125           | 1.0  | 125    | RL      | 85    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 125           | 1.1  | ----   | RL      | 60    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 125           | 1.0  | 125    | RL      | 77    | P4            | 63             | Pentode sect. Adj fil to 4.7. |
| 125           | 1.0  | ----   | RL      | 57    | P4            | 63             | Triode sect. Adj fil to 4.7.  |
| 125           | 1.0  | 125    | RL      | 70    | P4            | 63             | Pentode sect. Adj fil to 4.7. |
| 125           | 1.0  | ----   | RL      | 49    | P4            | 63             | Triode sect. Adj fil to 4.7.  |
| 100           | CCW  | ----   | RL      | 91    | P4            | 65             | Triode #1. Adj fil to 4.7.    |
| 100           | CCW  | ----   | RL      | 91    | P4            | 65             | Triode #2. Adj fil to 4.7.    |
| 35 AC         | 0    | ----   | RL      | 52    | P2            | 63             | Diode #1.                     |
| 35 AC         | 0    | ----   | RL      | 52    | P2            | 68             | Diode #2.                     |
| 250           | 3.0  | ----   | RL      | 68    | P4            | 65             | Triodesect.                   |
| 20 AC         | 0    | ----   | RL      | 50    | P2            | 50             | Diode #1.                     |
| 20 AC         | 0    | ----   | RL      | 50    | P2            | 50             | Diode #2.                     |
| 20 AC         | 0    | ----   | RL      | 50    | P2            | 50             | Diode #3.                     |
| 250           | CCW  | 135    | RL      | 95    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 150           | CCW  | ----   | RL      | 47    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 180           | 8.5  | 180    | RL      | 59    | P4            | 65             | Adj fil to 4.7.               |
| 250           | CCW  | 150    | RL      | 42    | P4            | 65             | Pentode sect. Adj fil to 4.7. |
| 100           | CCW  | ----   | RL      | 89    | P4            | 65             | Triode sect. Adj fil to 4.7.  |
| 170           | 6.5  | 170    | RL      | 66    | P4            | 65             | Pentodesect.                  |
| 100           | 2.0  | ----   | RL      | 73    | P4            | 65             | Triodesect.                   |
| 200           | 1.5  | 150    | RL      | 79    | P4            | 65             | Heptode sect.                 |
| 150           | 1.5  | ----   | RL      | 52    | P4            | 65             | Triode sect.                  |
| 250           | 3.0  | ----   | RL      | 55    | P4            | 65             | Triode sect.                  |
| 20 AC         | 0    | ----   | RL      | 65    | P2            | 50             | Diode #1.                     |
| 20 AC         | 0    | ----   | RL      | 90    | P2            | 50             | Diode #2.                     |
| 20 AC         | 0    | ----   | RL      | 90    | P2            | 50             | Diode #3.                     |
| 200           | CCW  | 150    | RL      | 88    | P4            | 65             | Pentode sect.                 |
| 200           | 6.0  | ----   | RL      | 52    | P4            | 65             | Triode sect.                  |
| 250           | 1.5  | ----   | RL      | 42    | P4            | 65             |                               |
| 230           | 12.5 | 225    | RL      | 42    | P4            | 58             | Short in Z.                   |
| 100           | 1.0  | ----   | RL      | 50    | P4            | 65             | Triode #1.                    |
| 100           | 1.0  | ----   | RL      | 50    | P4            | 65             | Triode #2.                    |

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| Tube type | Test | Function | Selectors<br>(L. to R.) | Range   |      |        |         |
|-----------|------|----------|-------------------------|---------|------|--------|---------|
|           |      |          |                         | Filamen | Bias | PI SCR | Control |
| 6AR5      | GM   | T        | 34 156 22               | 6.3     | 50   | G      | B       |
| 6AR6/6098 | GM   | T        | 68 735 10               | 6.3     | 50   | G      | C       |
| 6AR8      | GM   | T        | 45 693 72               | 6.3     | E    | G      | C       |
| 6AR8      | GM   | T        | 45 683 71               | 6.3     | E    | G      | C       |
| 6AS8      | GM   | T        | 45 291 37               | 6.3     | D    | H      | B       |
| 6AS8      | EM   | T        | 45 060 80               | 6.3     | 5    | S      | B       |
| 6AT8      | GM   | T        | 45 967 38               | 6.3     | D    | J      | C       |
| 6AT8      | GM   | T        | 45 120 30               | 6.3     | B    | N      | B       |
| 6AU7      | GM   | T        | 45 760 80               | 6.3     | 10   | G      | C       |
| 6AU7      | GM   | T        | 45 210 30               | 6.3     | 10   | G      | C       |
| 6AU8      | GM   | T        | 45 798 60               | 6.3     | B    | L      | B       |
| 6AU8      | GM   | T        | 45 230 10               | 6.3     | C    | L      | C       |
| 6AW7      | GM   | T        | 78 260 10               | 6.3     | 10   | N      | D       |
| 6AW7      | EM   | T        | 78 230 50               | 6.3     | 5    | S      | B       |
| 6AW7      | EM   | T        | 78 240 10               | 6.3     | 5    | S      | B       |
| 6AW8      | GM   | T        | 45 798 60               | 6.3     | D    | H      | B       |
| 6AW8      | GM   | T        | 45 230 10               | 6.3     | 5    | H      | C       |
| 6AX7      | GM   | T        | 45 760 80               | 6.3     | 5    | G      | C       |
| 6AX7      | GM   | T        | 45 210 30               | 6.3     | 5    | G      | C       |
| 6AX8      | GM   | T        | 45 263 70               | 6.3     | B    | J      | C       |
| 6AX8      | GM   | T        | 45 910 80               | 6.3     | A    | M      | B       |
| 6AZ5      | EM   | T        | 36 080 74               | 6.3     | 5    | S      | A       |
| 6AZ5      | EM   | T        | 36 010 24               | 6.3     | 5    | S      | A       |
| 6AZ6      | EM   | T        | 36 020 48               | 6.3     | 5    | S      | B       |
| 6AZ6      | EM   | T        | 36 070 58               | 6.3     | 5    | S      | B       |
| 6AZ8      | GM   | T        | 45 612 30               | 6.3     | D    | H      | B       |
| 6AZ8      | GM   | T        | 45 980 70               | 6.3     | 10   | G      | C       |
| 6BA5      | GM   | T        | 36 157 80               | 6.3     | E    | N      | C       |
| 6BA8      | GM   | T        | 45 798 60               | 6.3     | D    | H      | B       |
| 6BA8      | GM   | T        | 45 230 10               | 6.3     | 10   | G      | C       |
| 6BC4      | GM   | T        | 45 210 60               | 6.3     | B    | K      | B       |
| 6BC8      | GM   | T        | 45 760 89               | 6.3     | D    | G      | C       |
| 6BC8      | GM   | T        | 45 210 39               | 6.3     | D    | G      | C       |
| 6BE7      | GM   | T        | 45 716 82               | 6.3     | 5    | N      | C       |
| 6BE8      | GM   | T        | 45 967 83               | 6.3     | A    | J      | B       |
| 6BE8      | GM   | T        | 45 120 30               | 6.3     | A    | M      | B       |
| 6BF5      | GM   | T        | 34 756 22               | 6.3     | 50   | K      | B       |
| 6BG7      | GM   | T        | 36 780 50               | 6.3     | B    | N      | C       |
| 6BG7      | GM   | T        | 36 210 40               | 6.3     | B    | N      | C       |
| 6BH8      | GM   | T        | 45 798 60               | 6.3     | A    | L      | B       |
| 6BH8      | GM   | T        | 45 230 10               | 6.3     | 10   | M      | C       |



| Meter setting |      |        |        | Shunt | Press to test | Minimum limits | Notes         |
|---------------|------|--------|--------|-------|---------------|----------------|---------------|
| Plate         | Bias | Screen | Sig VR |       |               |                |               |
| 230           | 18   | 225    | RL     | 36    | P4            | 65             | Short in Z.   |
| 230           | 22   | 225    | RL     | 34    | P4            | 65             |               |
| 250           | CCW  | 250    | RL     | 53    | P4            | 65             | Plate #1.     |
| 250           | CCW  | 250    | RL     | 53    | P4            | 65             | Plate #2.     |
| 200           | CCW  | 150    | RL     | 88    | P4            | 65             | Pentode sect. |
| 20 AC         | 0    | -----  | RL     | 18    | P2            | 50             | Diode sect.   |
| 250           | CCW  | 150    | RL     | 42    | P4            | 65             | Pentode sect. |
| 100           | CCW  | -----  | RL     | 89    | P4            | 65             | Triode sect.  |
| 250           | 8.5  |        | RL     | 73    | P4            | 65             | Triode #1.    |
| 250           | 8.5  |        | RL     | 73    | P4            | 65             | Triode #2.    |
| 200           | CCW  | 125    | RL     | 79    | P4            | 65             | Pentode sect. |
| 150           | CCW  | -----  | RL     | 43    | P4            | 65             | Triode sect.  |
| 150           | 1.9  | -----  | RL     | 100   | P4            | 65             | Triode sect.  |
| 20 AC         | 0    | -----  | RL     | 22    | P2            | 50             | Diode #1.     |
| 20 AC         | 0    | -----  | RL     | 22    | P2            | 50             | Diode #2.     |
| 200           | CCW  | 150    | RL     | 49    | P4            | 65             | Pentode sect. |
| 200           | 2.0  | -----  | RL     | 49    | P4            | 65             | Triode sect.  |
| 225           | 2.0  | -----  | RL     | 100   | P4            | 65             | Triode #1.    |
| 225           | 2.0  | -----  | RL     | 100   | P4            | 65             | Triode #2.    |
| 250           | CCW  | 135    | RL     | 38    | P4            | 65             | Pentode sect. |
| 150           | CCW  |        | RL     | 50    | P4            | 65             | Triode sect.  |
| 20 AC         | 0    | -----  | RL     | 85    | P2            | 50             | Diode #1.     |
| 20 AC         | 0    |        | RL     | 85    | P2            | 50             | Diode #2.     |
| 20 AC         | 0    |        | RL     | 21    | P2            | 50             | Diode #1.     |
| 20 AC         | 0    |        | RL     | 21    | P2            | 50             | Diode #2.     |
| 200           | CCW  | 150    | RL     | 88    | P4            | 65             | Pentode sect. |
| 200           | 8.0  |        | RL     | 52    | P4            | 65             | Triode sect.  |
| 100           | CCW  | 100    | RL     | 90    | P4            | 65             |               |
| 200           | CCW  | 150    | RL     | 51    | P4            | 65             | Pentode sect. |
| 200           | 8.0  | -----  | RL     | 58    | P4            | 65             | Triode sect.  |
| 150           | CCW  | -----  | RL     | 40    | P4            | 65             |               |
| 150           | CCW  |        | RL     | 28    | P4            | 65             | Triode #1.    |
| 150           | CCW  |        | RL     | 28    | P4            | 65             | Triode #2.    |
| 70            | 2.0  | 70     | RL     | 91    | P4            | 65             |               |
| 250           | CCW  | 135    | RL     | 92    | P4            | 65             | Pentode sect. |
| 150           | CCW  |        | RL     | 43    | P4            | 65             | Triode sect.  |
| 125           | 6.8  | 100    | RL     | 61    | P4            | 60             | Short in Z.   |
| 100           | CCW  |        | RL     | 41    | P4            | 65             | Triode #1.    |
| 100           | CCW  |        | RL     | 41    | P4            | 65             | Triode #2.    |
| 200           | CCW  | 125    | RL     | 60    | P4            | 65             | Pentode sect. |
| 150           | 5.0  |        | RL     | 58    | P4            | 65             | Triode sect.  |

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| Tube type | Test | Function | Selectors<br>(L. to R.) | Range   |      |        |        |
|-----------|------|----------|-------------------------|---------|------|--------|--------|
|           |      |          |                         | Flamens | Bias | PI SCR | im SIG |
| 6BJ7      | EM   | T        | 45 080 93               | 6.3     | 5    | S      | A      |
| 6BJ7      | EM   | T        | 45 060 73               | 6.3     | 5    | S      | A      |
| 6BJ7      | EM   | T        | 45 020 13               | 6.3     | 5    | S      | A      |
| 6BJ8      | GM   | T        | 45 870 90               | 6.3     | 10   | G      | C      |
| 6BJ8      | EM   | T        | 45 060 30               | 6.3     | 5    | S      | A      |
| 6BJ8      | EM   | T        | 45 010 20               | 6.3     | 5    | S      | A      |
| 6BL8      | GM   | T        | 54 263 71               | 6.3     | 5    | K      | B      |
| 6BL8      | GM   | T        | 54 910 86               | 6.3     | 5    | N      | C      |
|           | GM   | T        | 45 367 20               | 6.3     | 10   | N      | B      |
| 6BM8      | GM   | T        | 45 190 80               | 6.3     | 5    | N      | C      |
| 6BN4      | GM   | T        | 34 250 10               | 6.3     | D    | G      | B      |
| 6BN4A     | GM   | T        | 43 250 10               | 6.3     | D    | G      | B      |
| 6BN8      | GM   | T        | 45 870 90               | 6.3     | 5    | G      | C      |
| 6BN8      | EM   | T        | 45 060 30               | 6.3     | 5    | S      | A      |
| 6BN8      | EM   | T        | 45 010 20               | 6.3     | 5    | S      | A      |
| 6BR5      | ER   | T        | 45 197 20               | 6.3     | 5    | G      | F      |
| 6BR5      | ER   | T        | 45 190 27               | 6.3     | 5    | G      | F      |
| 6BR8      | GM   | T        | 45 967 80               | 6.3     | A    | J      | B      |
| 6BR8      | GM   | T        | 45 120 30               | 6.3     | A    | M      | B      |
| 6BS7      | GM   | T        | 45 A78 39               | 6.3     | 5    | M      | D      |
| 6BS8      | GM   | T        | 45 760 80               | 6.3     | D    | G      | B      |
| 6BS8      | GM   | T        | 45 210 30               | 6.3     | D    | G      | B      |
| 6BT8      | GM   | T        | 45 867 90               | 6.3     | C    | H      | B      |
| 6BT8      | EM   | T        | 45 010 30               | 6.3     | 5    | S      | B      |
| 6BT8      | EM   | T        | 45 020 30               | 6.3     | 5    | S      | B      |
| 6BU8      | GM   | T        | 45 782 19               | 6.3     | 5    | L      | D      |
| 6BU8      | GM   | T        | 45 732 16               | 6.3     | 5    | L      | D      |
| 6BV8      | GM   | T        | 45 230 10               | 6.3     | E    | G      | B      |
| 6BV8      | EM   | T        | 45 090 70               | 6.3     | 5    | S      | B      |
| 6BV8      | EM   | T        | 45 060 80               | 6.3     | 5    | S      | B      |
| 6BW8      | GM   | T        | 45 698 70               | 6.3     | A    | J      | B      |
| 6BW8      | EM   | T        | 45 030 21               | 6.3     | 5    | S      | A      |
| 6BW8      | EM   | T        | 45 010 23               | 6.3     | 5    | S      | A      |
| 6BX6      | GM   | T        | 45 278 19               | 6.3     | 5    | K      | B      |
| 6BX8      | GM   | T        | 45 760 89               | 6.3     | 5    | P      | B      |
| 6BX8      | GM   | T        | 45 210 39               | 6.3     | 5    | P      | B      |
| 6BY6      | GM   | T        | 34 165 27               | 6.3     | 5    | P      | C      |
| 6BY7      | GM   | T        | 45 278 19               | 6.3     | 5    | M      | B      |
| 6BY8      | GM   | T        | 45 178 92               | 6.3     | C    | N      | C      |
| 6BY8      | EM   | T        | 45 060 30               | 6.3     | 5    | S      | A      |
| 6BZ6      | GM   | T        | 34 156 27               | 6.3     | D    | H      | B      |

| Meter setting |      |        |        | Shunt | Press to test | Minimum limits | Notes         |
|---------------|------|--------|--------|-------|---------------|----------------|---------------|
| Plate         | Bias | Screen | Sig VR |       |               |                |               |
| 20 AC         | 0    | -----  | RL     | 53    | 22            | 50             | Diode #1.     |
| 20 AC         | 0    | -----  | RL     | 53    | 22            | 50             | Diode #2.     |
| 20 AC         | 0    | -----  | RL     | 53    | 22            | 50             | Diode #3.     |
| 250           | 9.0  | -----  | RL     | 55    | 24            | 65             | Triode sect.  |
| 20 AC         | 0    | -----  | RL     | 85    | 22            | 50             | Diode #1.     |
| 20 AC         | 0    | -----  | RL     | 85    | 22            | 50             | Diode #2.     |
| 170           | 2.1  | 170    | RL     | 82    | 24            | 65             | Pentode sect. |
| 100           | 2.0  | -----  | RL     | 37    | 24            | 65             | Triode sect.  |
| 100           | 6.0  | 100    | RL     | 70    | 24            | 65             | Pentode sect. |
| 100           | 0    | -----  | RL     | 77    | 24            | 65             | Triode sect.  |
| 150           | CCW  | -----  | RL     | 70    | 24            | 65             |               |
| 150           | CCW  | -----  | RL     | 55    | 24            | 65             |               |
| 100           | 1.0  | -----  | RL     | 52    | 24            | 65             | Triode sect.  |
| 20 AC         | 0    | -----  | RL     | 45    | 22            | 50             | Diode #1.     |
| 20 AC         | 0    | -----  | RL     | 45    | 22            | 50             | Diode #2.     |
| 200           | 0    | 200    | RL     | 0     | 24            | -----          | Eye open.     |
| 200           | 0    | 200    | RL     | 0     | 24            | -----          | Eye closed.   |
| 150           | CCW  | 135    | RL     | 93    | 24            | 65             | Pentode sect. |
| 150           | CCW  | -----  | RL     | 43    | 24            | 65             | Triode sect.  |
| 210           | 3.0  | 100    | RL     | 78    | 24            | 65             |               |
| 150           | CCW  | -----  | RL     | 64    | 24            | 65             | Triode #1.    |
| 150           | CCW  | -----  | RL     | 64    | 24            | 65             | Triode #2.    |
| 200           | CCW  | 150    | RL     | 77    | 24            | 65             | Pentode sect. |
| 20 AC         | 0    | -----  | RL     | 28    | 22            | 50             | Diode #1.     |
| 20 AC         | 0    | -----  | RL     | 28    | 22            | 50             | Diode #2.     |
| 150           | 1.0  | 100    | RL     | 66    | 24            | 65             | Pentode #1.   |
| 150           | 1.0  | 100    | RL     | 66    | 24            | 65             | Pentode #2.   |
| 200           | CCW  | -----  | RL     | 87    | 24            | 65             | Triode sect.  |
| 20 AC         | 0    | -----  | RL     | 19    | 22            | 50             | Diode #1.     |
| 20 AC         | 0    | -----  | RL     | 19    | 22            | 50             | Diode #2.     |
| 250           | CCW  | 135    | RL     | 95    | 24            | 65             | Pentode sect. |
| 20 AC         | 0    | -----  | RL     | 90    | 22            | 50             | Diode #1.     |
| 20 AC         | 0    | -----  | RL     | 90    | 22            | 50             | Diode #2.     |
| 170           | 2.0  | 170    | RL     | 74    | 24            | 65             |               |
| 65            | 1.5  | -----  | RL     | 95    | 24            | 65             | Triode #1.    |
| 65            | 1.5  | -----  | RL     | 95    | 24            | 65             | Triode #2.    |
| 100           | 2.0  | 50     | RL     | 63    | 24            | 65             |               |
| 225           | 1.0  | 100    | RL     | 85    | 24            | 65             |               |
| 100           | CCW  | 100    | RL     | 40    | 24            | 65             | Pentode sect. |
| 20 AC         | 0    | -----  | RL     | 95    | 22            | 50             | Diode sect.   |
| 200           | CCW  | 150    | RL     | 88    | 24            | 65             |               |

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| Tube type | Test | Function | Selectors<br>(L. to R.) | Range   |      |        |        |
|-----------|------|----------|-------------------------|---------|------|--------|--------|
|           |      |          |                         | Filamen | Bias | P1 SCR | Gm SIG |
| 6BZ8      | GM   | T        | 45 760 86               | 6.3     | B    | M      | B      |
| 6BZ8      | GM   | T        | 45 210 39               | 6.3     | B    | M      | B      |
| 6CA5      | GM   | T        | 34 276 10               | 6.3     | 10   | K      | B      |
| 6CA7      | GM   | T        | 27 534 81               | 6.3     | 50   | G      | B      |
| 6CB5      | GM   | T        | 27 4A1 30               | 6.3     | 50   | K      | B      |
| 6CD7      | ER   | T        | 72 450 80               | 6.3     | 50   | K      | E      |
| 6CE5      | GM   | T        | 34 156 20               | 6.3     | D    | H      | B      |
| 6CF6      | GM   | T        | 34 156 27               | 6.3     | D    | H      | B      |
| 6CG8      | GM   | T        | 45 967 80               | 6.3     | D    | J      | C      |
| 6CG8      | GM   | T        | 45 120 30               | 6.3     | B    | N      | B      |
| 6CH7      | GM   | T        | 45 760 80               | 6.3     | D    | G      | B      |
| 6CH7      | GM   | T        | 45 210 30               | 6.3     | D    | G      | B      |
| 6CH8      | GM   | T        | 45 723 60               | 6.3     | D    | H      | B      |
| 6CH8      | GM   | T        | 45 890 10               | 6.3     | 10   | G      | C      |
| 6CK4      | GM   | T        | 72 150 80               | 6.3     | 50   | G      | C      |
| 6CL5      | GM   | T        | 72 5A1 60               | 6.3     | 50   | K      | B      |
| 6CL8      | GM   | T        | 45 967 80               | 6.3     | 5    | G      | B      |
| 6CL8      | GM   | T        | 45 120 30               | 6.3     | A    | K      | B      |
| 6CM4      | GM   | T        | 45 210 30               | 6.3     | 5    | K      | B      |
| 6CM5      | GM   | T        | 72 5A4 80               | 6.3     | 10   | N      | B      |
| 6CM6      | GM   | T        | 45 391 70               | 6.3     | 10   | K      | C      |
| 6CM7      | GM   | T        | 45 760 30               | 6.3     | 10   | G      | C      |
| 6CM7      | GM   | T        | 45 810 90               | 6.3     | 10   | G      | C      |
| 6CM8      | GM   | T        | 45 267 30               | 6.3     | D    | H      | B      |
| 6CM8      | GM   | T        | 45 910 80               | 6.3     | 5    | G      | C      |
| 6CN6      | GM   | T        | 72 5A4 91               | 6.3     | 10   | G      | B      |
| 6CN7      | GM   | T        | 45 780 60               | 6.3     | 5    | G      | D      |
| 6CN7      | EM   | T        | 45 020 30               | 6.3     | 5    | S      | A      |
| 6CN7      | EM   | T        | 45 010 30               | 6.3     | 5    | S      | A      |
| 6CQ8      | GM   | T        | 45 263 70               | 6.3     | 5    | G      | B      |
| 6CQ8      | GM   | T        | 45 910 80               | 6.3     | A    | K      | B      |
| 6CR6      | GM   | T        | 34 756 10               | 6.3     | 5    | M      | C      |
| 6CR6      | EM   | T        | 34 020 10               | 6.3     | 5    | S      | B      |
| 6CR8      | GM   | T        | 45 267 38               | 6.3     | 5    | G      | B      |
| 6CR8      | GM   | T        | 45 910 80               | 6.3     | 5    | M      | C      |
| 6CS6      | GM   | T        | 34 165 27               | 6.3     | 5    | N      | C      |
| 6CS7      | GM   | T        | 45 760 80               | 6.3     | 50   | G      | C      |
| 6CS7      | GM   | T        | 45 310 90               | 6.3     | 50   | G      | B      |
| 6CU5      | GM   | T        | 34 276 10               | 6.3     | 50   | K      | B      |
| 6CU6      | CM   | T        | 27 5A4 80               | 6.3     | 50   | J      | B      |
| 6CU8      | GM   | T        | 45 723 60               | 6.3     | D    | H      | B      |

| Meter setting |      |        |       | shunt | Press to test | Minimum limits |               |
|---------------|------|--------|-------|-------|---------------|----------------|---------------|
| Plate         | Bias | screen | Sig V |       |               |                |               |
| 125           | CCW  | -----  | RL    | 62    | P4            | 65             | Triode #1.    |
| 125           | CCW  |        | RL    | 62    | P4            | 65             | Triode #2.    |
| 125           | 4.5  | 125    | RL    | 45    | P4            | 65             |               |
| 250           | 13.5 | 250    | RL    | 30    | P4            | 65             |               |
| 175           | 30.0 | 175    | RL    | 52    | P4            | 65             |               |
| 200           |      |        |       | 0     | P5            | -----          |               |
| 200           | CCW  | 150    | RL    | 88    | P4            | 65             |               |
| 200           | CCW  | 150    | RL    | 88    | P4            | 65             |               |
| 250           | CCW  | 150    | RL    | 42    | P4            | 65             | Pentode sect. |
| 100           | CCW  | -----  | RL    | 89    | P4            | 65             | Triode sect.  |
| 150           | CCW  | -----  | RL    | 76    | P4            | 65             | Triode #1.    |
| 150           | CCW  | -----  | RL    | 76    | P4            | 65             | Triode #2.    |
| 200           | CCW  | 150    | RL    | 88    | P4            | 65             | Pentode sect. |
| 200           | 6.0  | -----  | RL    | 52    | P4            | 65             | Triode sect.  |
| 250           | 28.0 |        | RL    | 33    | P4            | 65             |               |
| 175           | 40.0 | 175    | RL    | 77    | P4            | 65             |               |
| 150           | 1.0  | 125    | RL    | 88    | P4            | 65             | Tetrode sect. |
| 125           | CCW  | -----  | RL    | 54    | P4            | 65             | Triode sect.  |
| 175           | 1.5  | -----  | RL    | 20    | P4            | 65             |               |
| 100           | 8.2  | 100    | RL    | 22    | P4            | 65             |               |
| 180           | 8.5  | 180    | RL    | 54    | P4            | 65             |               |
| 200           | 7.0  | -----  | RL    | 72    | P4            | 65             | Triode #1.    |
| 250           | 8.0  |        | RL    | 36    | P4            | 65             | Triode #2.    |
| 200           | CCW  | 150    | RL    | 88    | P4            | 65             | Pentode sect. |
| 250           | 2.0  |        | RL    | 83    | P4            | 65             | Triode sect.  |
| 250           | 7.0  | 250    | RL    | 22    | P4            | 65             |               |
| 250           | 3.0  |        | EL    | 73    | P4            | 65             | Triode sect.  |
| 20 AC         | 0    | -----  | RL    | 64    | P2            | 50             | Diode #1.     |
| 20 AC         | 0    |        | RL    | 64    | P2            | 50             | Diode #2.     |
| 150           | 1    | 125    | RL    | 83    | P4            | 65             | Tetrode sect. |
| 125           | CCW  | -----  | RL    | 55    | P4            | 65             | Triode sect.  |
| 200           | 2.0  | 100    | RL    | 86    | P4            | 65             | Pentode sect. |
| 20 AC         | 0    | -----  | RL    | 65    | P2            | 50             | Diode sect.   |
| 125           | 0.7  | 125    | RL    | 58    | P4            | 65             | Pentode sect. |
| 125           | 2.0  | -----  | RL    | 49    | P4            | 65             | Triode sect.  |
| 80            | 1.0  | 80     | RL    | 53    | P4            | 65             |               |
| 250           | 8.5  |        | RL    | 78    | P4            | 65             | Triode #1.    |
| 250           | 10.5 | -----  | RL    | 92    | P4            | 65             | Triode #2.    |
| 120           | 8.0  | 110    | RL    | 64    | P4            | 65             |               |
| 250           | 22.5 | 150    | RL    | 95    | P4            | 65             |               |
| 200           | CCW  | 150    | RL    | 88    | P4            | 65             | Pentode sect. |

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |        |
|-----------|------|----------|-------------------------|----------|------|--------|--------|
|           |      |          |                         | filament | Bias | PI SCR | 3m SIG |
| 6CU8      | GM   | T        | 45 890 10               | 6.3      | 10   | G      | C      |
| 6CW4      | GM   | T        | 31 420 80               | 6.3      | 5    | N      | B      |
| 6CW5      | GM   | T        | 45 279 30               | 6.3      | 50   | K      | B      |
| 6CW7      | GM   | T        | 45 690 70               | 6.3      | 5    | P      | B      |
| 6CW7      | GM   | T        | 45 230 10               | 6.3      | 5    | P      | B      |
| 6CX8      | GM   | T        | 45 798 60               | 6.3      | A    | J      | B      |
| 6CX8      | GM   | T        | 45 230 10               | 6.3      | C    | L      | C      |
| 6CY7      | GM   | T        | 45 760 80               | 6.3      | 5    | J      | D      |
| 6CY7      | GM   | T        | 45 210 90               | 6.3      | E    | N      | B      |
| 6CZ5      | GM   | T        | 45 391 70               | 6.3      | 50   | G      | C      |
| 6DA6      | GM   | T        | 45 278 39               | 6.3      | 5    | M      | C      |
| 6DA7      | GM   | T        | 45 760 80               | 6.3      | 10   | J      | C      |
| 6DA7      | GM   | T        | 45 310 90               | 6.3      | 10   | K      | B      |
| 6DB5      | GM   | T        | 45 391 70               | 6.3      | 10   | N      | B      |
| 6DB6      | GM   | T        | 34 156 27               | 6.3      | 5    | K      | C      |
| 6DC8      | GM   | T        | 45 261 39               | 6.3      | 5    | M      | C      |
| 6DC8      | EM   | T        | 45 080 30               | 6.3      | 5    | S      | B      |
| 6DC8      | EM   | T        | 45 070 30               | 6.3      | 5    | S      | B      |
| 6DE6      | GM   | T        | 34 156 27               | 6.3      | D    | H      | B      |
| 6DE7      | GM   | T        | 45 760 80               | 6.3      | 50   | J      | C      |
| 6DE7      | GM   | T        | 45 210 90               | 6.3      | 50   | K      | B      |
| 6DG6      | GM   | T        | 27 534 80               | 6.3      | 10   | N      | B      |
| 6DG7      | GM   | T        | 34 156 72               | 6.3      | B    | M      | C      |
| 6DK6      | GM   | T        | 34 156 27               | 6.3      | A    | K      | B      |
| 6DJ8      | GM   | T        | 45 760 80               | 6.3      | 5    | N      | B      |
| 6DJ8      | GM   | T        | 45 210 30               | 6.3      | 5    | N      | B      |
| 6DL5      | GM   | T        | 43 156 20               | 6.3      | 10   | G      | C      |
| 6DN6      | GM   | T        | 27 5A8 30               | 6.3      | 50   | K      | B      |
| 6DN7      | GM   | T        | 78 450 60               | 6.3      | 10   | J      | C      |
| 6DN7      | GM   | T        | 78 120 30               | 6.3      | 10   | J      | B      |
| 6DQ5      | GM   | T        | 72 1A4 30               | 6.3      | 50   | J      | B      |
| 6DQ6      | GM   | T        | 27 5A4 80               | 6.3      | 50   | J      | B      |
| 6DR7      | GM   | T        | 54 760 80               | 6.3      | 5    | J      | D      |
| 6DR7      | GM   | T        | 54 210 90               | 6.3      | 50   | M      | C      |
| 6DS5      | GM   | T        | 34 156 20               | 6.3      | 10   | G      | B      |
| 6DT5      | GM   | T        | 45 391 70               | 6.3      | 50   | G      | C      |
| 6DT6      | GM   | T        | 34 156 27               | 6.3      | E    | L      | C      |
| 6DT8      | GM   | T        | 45 760 89               | 6.3      | 5    | J      | C      |
| 6DT8      | GM   | T        | 45 210 39               | 6.3      | 5    | J      | C      |
| 6DW5      | GM   | T        | 45 391 70               | 6.3      | 50   | H      | C      |

| Meter setting |      |       |       | h hunt | Press to test | Minimum limits | Notes                              |
|---------------|------|-------|-------|--------|---------------|----------------|------------------------------------|
| Plate         | Bias |       | ig VF |        |               |                |                                    |
| 200           | 6.0  | ----- | RL    | 52     | P4            | 65             | Triode sect.                       |
| 70            | 0.2  | ----- | RL    | 25     | P4            | 65             | Use Hickok adapter code #1050-127. |
| 170           | 12.0 | 170   | RL    | 55     | P4            | 65             |                                    |
| 90            | 1.5  | ----- | RL    | 80     | P4            | 65             | Triode #1.                         |
| 90            | 1.5  | ----- | RL    | 80     | P4            | 65             | Triode #2.                         |
| 200           | CCW  | 125   | RL    | 38     | P4            | 65             | Pentode sect.                      |
| 150           | CCW  | ----- | RL    | 41     | P4            | 65             | Triode sect.                       |
| 225           | 3.0  | ----- | RL    | 74     | P4            | 65             | Triode #1.                         |
| 90            | CCW  | ----- | RL    | 94     | P4            | 65             | Triode #2.                         |
| 250           | 14.0 | 250   | RL    | 39     | P4            | 65             |                                    |
| 225           | 2.0  | 100   | RL    | 62     | P4            | 65             |                                    |
| 225           | 8.0  | ----- | RL    | 74     | P4            | 65             | Triode #1.                         |
| 150           | 17.5 | ----- | RL    | 92     | P4            | 65             | Triode #2.                         |
| 110           | 7.5  | 110   | RL    | 65     | P4            | 65             |                                    |
| 150           | 1.5  | 150   | RL    | 55     | P4            | 65             |                                    |
| 220           | 2.0  | 100   | RL    | 53     | P4            | 65             | Pentode sect.                      |
| 20 AC         | 0    | ----- | RL    | 44     | P4            | 50             | Diode #1.                          |
| 20 AC         | 0    | ----- | RL    | 44     | P4            | 50             | Diode #2.                          |
| 200           | CCW  | 150   | RL    | 88     | P4            | 65             |                                    |
| 225           | 12.0 | ----- | RL    | 88     | P4            | 65             | Triode #1.                         |
| 150           | 26.0 | ----- | RL    | 76     | P4            | 65             | Triode #2.                         |
| 110           | 7.5  | 110   | RL    | 60     | P4            | 65             |                                    |
| 175           | CCW  | 80    | RL    | 49     | P4            | 65             |                                    |
| 125           | CCW  | 125   | RL    | 48     | P4            | 65             |                                    |
| 90            | 1.3  | ----- | RL    | 27     | P4            | 65             | Triode #1.                         |
| 90            | 1.3  | ----- | RL    | 27     | P4            | 65             | Triode #2.                         |
| 250           | 9.0  | 250   | RL    | 37     | P4            | 63             |                                    |
| 225           | 18.0 | 125   | RL    | 45     | P4            | 65             |                                    |
| 250           | 8.0  | ----- | RL    | 73     | P4            | 65             | Triode #1.                         |
| 250           | 9.5  | ----- | RL    | 50     | P4            | 65             | Triode #2.                         |
| 200           | 25.0 | 125   | RL    | 28     | P4            | 65             |                                    |
| 250           | 22.5 | 150   | RL    | 87     | P4            | 65             |                                    |
| 250           | 3.0  | ----- | RL    | 50     | P4            | 65             | Triode #1.                         |
| 150           | 17.5 | ----- | RL    | 52     | P4            | 65             | Triode #2.                         |
| 200           | 7.5  | 200   | RL    | 84     | P4            | 65             |                                    |
| 250           | 16.5 | 250   | RL    | 47     | P4            | 65             |                                    |
| 150           | CCW  | 100   | RL    | 87     | P4            | 65             |                                    |
| 250           | 2.0  | ----- | RL    | 3f     | P4            | 6f             | Triode #1.                         |
| 250           | 2.0  | ----- | RL    | 3f     | P4            | 6f             | Triode #2.                         |
| 210           | 22.5 | 150   | RL    | 30     | P4            | 60             |                                    |

**TB 11-6625-316-12/1**

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |       |
|-----------|------|----------|-------------------------|----------|------|--------|-------|
|           |      |          |                         | filament | Bias | PI SCR | Gm SI |
| 6DX8      | GM   | T        | 45 869 70               | 6.3      | 10   | K      | B     |
| 6DX8      | GM   | T        | 45 120 30               | 6.3      | 5    | K      | C     |
| 6DZ7      | GM   | T        | 27 564 80               | 6.3      | 10   | G      | B     |
| 6DZ7      | GM   | T        | 27 134 80               | 6.3      | 10   | G      | B     |
| 6EA5      | GM   | T        | 43 156 20               | 6.3      | 5    | J      | B     |
| 6EA7      | GM   | T        | 78 450 60               | 6.3      | 10   | J      | D     |
| 6EA7      | GM   | T        | 78 120 30               | 6.3      | 50   | L      | B     |
| 6EA8      | GM   | T        | 45 263 70               | 6.3      | 5    | K      | B     |
| 6EA8      | GM   | T        | 45 910 80               | 6.3      | A    | K      | B     |
| 6EB5      | EM   | T        | 34 070 10               | 6.3      | 5    | S      | A     |
| 6EB5      | EM   | T        | 34 020 50               | 6.3      | 5    | S      | A     |
| 6EB8      | GM   | T        | 45 798 60               | 6.3      | B    | J      | B     |
| 6EB8      | GM   | T        | 45 230 10               | 6.3      | 5    | J      | C     |
| 6EH5      | GM   | T        | 34 276 10               | 6.3      | 10   | K      | B     |
| 6EH7      | GM   | T        | 45 278 19               | 6.3      | 5    | M      | A     |
| 6EH8      | GM   | T        | 45 798 60               | 6.3      | 5    | K      | B     |
| 6EH8      | GM   | T        | 45 230 10               | 6.3      | 5    | M      | B     |
| 6EJ7      | GM   | T        | 45 278 19               | 6.3      | 5    | K      | A     |
| 6EM5      | GM   | T        | 54 391 70               | 6.3      | 50   | G      | C     |
| 6EM7      | GM   | T        | 78 450 60               | 6.3      | 5    | J      | D     |
| 6EM7      | GM   | T        | 78 120 30               | 6.3      | 50   | L      | B     |
| 6EQ7      | GM   | T        | 45 276 31               | 6.3      | 5    | N      | C     |
| 6EQ7      | EM   | T        | 45 080 30               | 6.3      | 5    | S      | B     |
| 6ER5      | GM   | T        | 43 256 70               | 6.3      | 5    | M      | B     |
| 6ES5      | GM   | T        | 34 250 10               | 6.3      | 5    | G      | B     |
| 6ES8      | GM   | T        | 45 760 80               | 6.3      | 5    | N      | B     |
| 6ES8      | GM   | T        | 45 210 30               | 6.3      | 5    | N      | B     |
| 6ET7      | GM   | T        | 45 798 60               | 6.3      | 5    | L      | B     |
| 6ET7      | EM   | T        | 45 030 10               | 6.3      | 5    | S      | B     |
| 6ET7      | EM   | T        | 45 020 10               | 6.3      | 5    | S      | B     |
| 6EU7      | GM   | T        | 21 870 90               | 6.3      | 5    | J      | D     |
| 6EU7      | GM   | T        | 21 560 40               | 6.3      | 5    | J      | D     |
| 6EU8      | GM   | T        | 45 719 80               | 6.3      | 5    | K      | B     |
| 6EU8      | GM   | T        | 45 230 60               | 6.3      | A    | K      | B     |
| 6EV5      | GM   | T        | 34 156 20               | 6.3      | 5    | M      | B     |
| 6EV7      | GM   | T        | 45 760 80               | 6.3      | 5    | J      | C     |
| 6EV7      | GM   | T        | 45 210 30               | 6.3      | 5    | J      | C     |
| 6EW6      | GM   | T        | 43 156 27               | 6.3      | A    | G      | B     |
| 6EW7      | GM   | T        | 45 760 80               | 6.3      | 50   | J      | C     |
| 6EW7      | GM   | T        | 45 310 90               | 6.3      | 50   | K      | B     |



|       |      |        |        | Shunt | Press<br>to test | Mini-<br>num<br>imits | Notes         |
|-------|------|--------|--------|-------|------------------|-----------------------|---------------|
| Plate | Bias | Screen | Sig Vt |       |                  |                       |               |
| 200   | 2.8  | 200    | RL     | 35    | P4               | 65                    | Pentode sect. |
| 200   | 2.1  | -----  | RL     | 55    | P4               | 65                    | Triode sect.  |
| 250   | 7.3  | 250    | RL     | 28    | P4               | 63                    | Pentode #1.   |
| 250   | 7.3  | 250    | RL     | 28    | P4               | 63                    | Pentode #2.   |
| 250   | 1.0  | 140    | RL     | 57    | P4               | 65                    |               |
| 250   | 3.0  | -----  | RL     | 50    | P4               | 63                    | Triode #1.    |
| 175   | 25   | -----  | RL     | 77    | P4               | 62                    | Triode #2.    |
| 150   | 1.0  | 125    | RL     | 80    | P4               | 65                    | Pentode sect. |
| 150   | 0    | -----  | RL     | 50    | P4               | 65                    | Triode sect.  |
| 20 AC | 0    | 0      | RL     | 27    | P2               | 40                    | Diode #1.     |
| 20 AC | 0    | 0      | RL     | 27    | P2               | 40                    | Diode #2.     |
| 200   | CCW  | 125    | RL     | 30    | P4               | 65                    | Pentode sect. |
| 250   | 2.0  | -----  | RL     | 58    | P4               | 65                    | Triode sect.  |
| 115   | 4.8  | 110    | RL     | 49    | P4               | 65                    |               |
| 200   | 2.0  | 90     | RL     | 65    | P4               | 65                    |               |
| 150   | 1.0  | 125    | RL     | 85    | P4               | 65                    | Pentode sect. |
| 125   | 1.0  | -----  | RL     | 60    | P4               | 65                    | Triode sect.  |
| 200   | 2.5  | 200    | RL     | 100   | P4               | 65                    |               |
| 250   | 18.0 | 250    | RL     | 37    | P4               | 65                    |               |
| 250   | 3.0  | -----  | RL     | 55    | P4               | 63                    | Triode #1.    |
| 150   | 20.0 | -----  | RL     | 67    | P4               | 63                    | Triode #2.    |
| 100   | .6   | 100    | RL     | 100   | P4               | 65                    |               |
| 20 AC | 0    | -----  | RL     | 52    | P4               | 65                    | Pentode sect. |
| 200   | 1.2  | -----  | RL     | 28    | P4               | 65                    |               |
| 200   | 1.0  | -----  | RL     | 40    | P4               | 63                    |               |
| 90    | 1.7  | -----  | RL     | 25    | P4               | 65                    | Triode #1.    |
| 90    | 1.7  | -----  | RL     | 25    | P4               | 65                    | Triode #2.    |
| 200   | 2.5  | 150    | RL     | 29    | P4               | 65                    | Pentode sect. |
| 20 AC | 0    | -----  | RL     | 63    | P2               | 40                    | Diode #1.     |
| 20 AC | 0    | -----  | RL     | 63    | P2               | 40                    | Diode #2.     |
| 200   | 2.0  | -----  | RL     | 62    | P4               | 65                    | Triode #1.    |
| 200   | 2.0  | -----  | RL     | 62    | P4               | 65                    | Triode #2.    |
| 150   | 1.0  | 125    | RL     | 80    | P4               | 65                    | Pentode sect. |
| 150   | 0    | -----  | RL     | 50    | P4               | 65                    | Triode sect.  |
| 195   | 1.2  | 80     | RL     | 65    | P4               | 63                    |               |
| 250   | 2.0  | -----  | RL     | 35    | P4               | 65                    | Triode #1.    |
| 250   | 2.0  | -----  | RL     | 35    | P4               | 65                    | Triode #2.    |
| 150   | CCW  | 125    | RL     | 21    | P4               | 65                    |               |
| 250   | 11   | -----  | RL     | 65    | P4               | 65                    | Triode #1.    |
| 150   | 17.5 | -----  | RL     | 65    | P4               | 65                    | Triode #2.    |

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range   |      |        |        |
|-----------|------|----------|-------------------------|---------|------|--------|--------|
|           |      |          |                         | Filamen | Bias | Pl SCR | Gm SIG |
| 6EX6      | GM   | T        | 72 5A8 30               | 6.3     | 50   | G      | B      |
| 6EY6      | GM   | T        | 27 534 80               | 6.3     | 50   | G      | C      |
| 6EZ5      | GM   | T        | 72 534 80               | 6.3     | 50   | J      | C      |
| 6EZ8      | GM   | T        | 54 980 00               | 6.3     | 10   | M      | D      |
| 6EZ8      | GM   | T        | 54 760 00               | 6.3     | 10   | M      | D      |
| 6EZ8      | GM   | T        | 54 230 10               | 6.3     | 5    | M      | D      |
| 6FA7      | GM   | T        | 45 798 61               | 6.3     | 5    | N      | D      |
| 6FA7      | GM   | T        | 45 718 69               | 6.3     | 5    | N      | D      |
| 6FA7      | EM   | T        | 45 930 61               | 6.3     | 5    | S      | B      |
| 6FD6      | EM   | T        | 34 165 72               | 6.3     | 50   | S      | B      |
| 6FE5      | GM   | T        | 72 534 80               | 6.3     | 50   | K      | B      |
| 6FG5      | GM   | T        | 43 156 70               | 6.3     | 5    | G      | B      |
| 6FG7      | GM   | T        | 45 967 80               | 6.3     | 5    | K      | B      |
| 6FG7      | GM   | T        | 45 120 30               | 6.3     | 5    | G      | B      |
| 6FH5      | GM   | T        | 34 250 70               | 6.3     | 5    | M      | B      |
| 6FH6      | GM   | T        | 72 5A4 80               | 6.3     | 50   | J      | B      |
| 6FH8      | GM   | T        | 54 697 00               | 6.3     | 10   | N      | E      |
| 6FH8      | GM   | T        | 54 687 00               | 6.3     | 10   | N      | E      |
| 6FH8      | GM   | T        | 54 617 00               | 6.3     | 10   | N      | E      |
| 6FH8      | EM   | T        | 54 230 00               | 6.3     | 5    | R      | A      |
| 6FM8      | GM   | T        | 45 890 70               | 6.3     | 5    | G      | D      |
| 6FM8      | EM   | T        | 45 060 10               | 6.3     | 5    | S      | A      |
| 6FM8      | EM   | T        | 45 020 30               | 6.3     | 5    | S      | A      |
| 6FQ5      | GM   | T        | 43 250 70               | 6.3     | 5    | K      | B      |
| 6FQ5A     | GM   | T        | 34 250 70               | 6.3     | 5    | M      | B      |
| 6FQ7      | GM   | T        | 45 760 80               | 6.3     | 10   | G      | C      |
| 6FQ7      | GM   | T        | 45 210 30               | 6.3     | 10   | G      | C      |
| 6FS5      | GM   | T        | 34 156 70               | 6.3     | 5    | J      | B      |
| 6FV6      | GM   | T        | 43 156 70               | 6.3     | 5    | L      | C      |
| 6FV8      | GM   | T        | 45 967 80               | 6.3     | 5    | G      | B      |
| 6FV8      | GM   | T        | 45 120 30               | 6.3     | 5    | G      | B      |
| 6FW5      | GM   | T        | 27 158 30               | 6.3     | 50   | J      | C      |
| 6FW8      | GM   | T        | 45 760 80               | 6.3     | 5    | L      | B      |
| 6FW8      | GM   | T        | 45 210 30               | 6.3     | 5    | L      | B      |
| 6FY5      | GM   | T        | 34 250 16               | 6.3     | 5    | K      | B      |
| 6FY8      | GM   | T        | 45 367 20               | 6.3     | 50   | K      | B      |
| 6FY8      | GM   | T        | 45 190 80               | 6.3     | 5    | M      | D      |
| 6G5       | ER   | T        | 16 540 30               | 6.3     | 5    | G      | F      |
| 6G5       | ER   | T        | 16 542 30               | 6.3     | 5    | G      | F      |
| 6GC5      | GM   | T        | 45 691 70               | 6.3     | 50   | K      | B      |

| Meter setting |      |        |        | Shunt | Press to test | Minimum limits | Notes                                      |
|---------------|------|--------|--------|-------|---------------|----------------|--|
| Plate         | Bias | Screen | Sig VR |       |               |                |  |
| 175           | 30.0 | 175    | RL     | 43    | P4            | 63             | Tubes showing shorts:<br>Retest 72 5A1 30. |
| 250           | 17.5 |        | RL     | 43    | P4            | 63             |  |
| 250           | 20.0 | 250    | RL     | 45    | P4            | 63             |  |
| 125           | 5.6  |        | RL     | 17    | P4            | 63             | Triode #1.                                 |
| 125           | 5.6  | -----  | RL     | 17    | P4            | 63             | Triode #2.                                 |
| 125           | 1.0  |        | RL     | 17    | P4            | 63             | Triode #3.                                 |
| 100           | 1.4  | 100    | RL     | 53    | P4            | 65             | Tetrode #1.                                |
| 100           | 1.4  | 100    | RL     | 53    | P4            | 65             | Tetrode #2.                                |
| 200 AC        | 0    | -----  | RL     | 58    | P2            | 25             | Diode sect.                                |
| 20 AC         | 0    | -----  | RL     | 60    | P2            | 65             | No leakage test.                           |
| 130           | 11   | 130    | RL     | 40    | P4            | 65             |  |
| 250           | .2   | 250    | RL     | 65    | P4            | 65             |  |
| 125           | 1.0  | 125    | RL     | 85    | P4            | 65             | Pentode sect.                              |
| 125           | 1.1  | -----  | RL     | 60    | P4            | 65             | Triode sect.                               |
| 135           | 1.0  | -----  | RL     | 44    | P4            | 63             |  |
| 250           | 22.5 | 150    | RL     | 87    | P4            | 65             |  |
| 100           | 8.0  | 100    | RL     | 20    | P4            | 63             | Tetrode plate #1.                          |
| 100           | 4.6  | 100    | RL     | 40    | P4            | 63             | Tetrode plate #2.                          |
| 100           | 4.6  | 100    | RL     | 40    | P4            | 63             | Tetrode plate #3.                          |
| 35 AC         | 0    | -----  | RL     | 19    | P4            | 63             | Triode sect.                               |
| 250           | 3.0  |        | RL     | 68    | P4            | 65             | Triode sect.                               |
| 20 AC         | 0    | -----  | RL     | 50    | P2            | 50             | Diode #1.                                  |
| 20 AC         | 0    | -----  | RL     | 50    | P2            | 50             | Diode #2.                                  |
| 135           | 1.2  | -----  | RL     | 24    | P4            | 65             |  |
| 135           | 1.2  |        | RL     | 31    | P4            | 65             |  |
| 250           | 8.0  | -----  | RL     | 75    | P4            | 65             | Triode #1.                                 |
| 250           | 8.0  |        | RL     | 75    | P4            | 65             | Triode #2.                                 |
| 245           | .2   | 135    | RL     | 43    | P4            | 65             |  |
| 125           | 1.0  | 80     | RL     | 35    | P4            | 65             |  |
| 125           | 1.0  | 125    | RL     | 77    | P4            | 63             | Pentode sect.                              |
| 125           | 1.0  | -----  | RL     | 57    | P4            | 63             | Triode sect.                               |
| 250           | 22.5 | 150    | RL     | 22    | P4            | 65             |  |
| 125           | 2.0  | -----  | RL     | 25    | P4            | 65             | Triode #1.                                 |
| 125           | 2.0  | -----  | RL     | 25    | P4            | 65             | Triode #2.                                 |
| 135           | 1.0  |        | RL     | 20    | P4            | 65             |  |
| 125           | 10.0 | 125    | RL     | 62    | P4            | 63             | Pentode sect.                              |
| 125           | 1.5  |        | RL     | 33    | P4            | 63             | Triode sect.                               |
| 230           | 0    | 225    | RL     | 0     | P4            |                | Eye open.                                  |
| 230           | 0    | 225    | RL     | 0     | P4            |                | Eye closed.                                |
| 115           | 7.5  | 115    | RL     | 55    | P4            | 65             |  |

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| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |       |        |
|-----------|------|----------|-------------------------|----------|------|-------|--------|
|           |      |          |                         | Filament | Bias | PI SC | Gm SIC |
| 6GE8      | GM   | T        | 45 891 76               | 6.3      | 5    | K     | C      |
| 6GE8      | GM   | T        | 45 360 29               | 6.3      | 50   | K     | B      |
| 6GH8      | GM   | T        | 45 263 70               | 6.3      | 5    | K     | B      |
| 6GH8      | GM   | T        | 45 910 80               | 6.3      | 5    | K     | B      |
| 6GK5      | GM   | T        | 34 250 70               | 6.3      | 5    | K     | A      |
| 6GK6      | GM   | T        | 45 278 13               | 6.3      | 10   | G     | A      |
| 6GM5      | GM   | T        | 45 691 70               | 6.3      | 10   | G     | B      |
| 6GM6      | GM   | T        | 43 156 27               | 6.3      | 5    | J     | B      |
| 6GM8      | GM   | T        | 45 760 80               | 6.3      | 5    | Q     | B      |
| 6GM8      | GM   | T        | 45 210 30               | 6.3      | 5    | Q     | B      |
| 6GN8      | GM   | T        | 45 798 60               | 6.3      | 5    | L     | B      |
| 6GN8      | GM   | T        | 45 230 10               | 6.3      | 5    | J     | D      |
| 6GS8      | GM   | T        | 54 782 19               | 6.3      | 5    | N     | D      |
| 6GS8      | GM   | T        | 54 732 16               | 6.3      | 5    | N     | D      |
| 6GW6      | GM   | T        | 27 5A4 80               | 6.3      | 50   | J     | B      |
| 6GX6      | GM   | T        | 34 156 27               | 6.3      | D    | L     | C      |
| 6GY6      | GM   | T        | 34 156 27               | 6.3      | D    | H     | C      |
| 6GY8      | S    | T        | 45 060 70               | OFF      | OFF  |       | -----  |
| 6GY8      | EM   | T        | 45 060 70               | 6.3      | 5    | S     | A      |
| 6GY8      | GM   | T        | 54 390 80               | 6.3      | 5    | M     | C      |
| 6GY8      | EM   | T        | 54 120 00               | 6.3      | 5    | S     | B      |
| 6HB6      | GM   | T        | 45 278 19               | 6.3      | B    | G     | A      |
| 6HF8      | GM   | T        | 45 798 60               | 6.3      | B    | J     | B      |
| 6HF8      | GM   | T        | 45 230 10               | 6.3      | 5    | J     | C      |
| 6HJ8      | GM   | T        | 45 263 19               | 6.3      | 5    | K     | A      |
| 6HJ8      | EM   | T        | 45 680 79               | 6.3      | 5    | S     | B      |
| 6HS8      | GM   | T        | 45 782 19               | 6.3      | 5    | N     | D      |
| 6HS8      | GM   | T        | 45 732 16               | 6.3      | 5    | N     | D      |
| 6N8       | GM   | T        | 45 261 39               | 6.3      | 5    | M     | C      |
| 6N8       | EM   | T        | 45 271 39               | 6.3      | 5    | S     | B      |
| 6N8       | EM   | T        | 45 281 39               | 6.3      | 5    | S     | B      |
| 6R4       | GM   | T        | 45 180 30               | 6.3      | 5    | K     | C      |
| 6R8       | GM   | T        | 45 890 72               | 6.3      | 50   | G     | C      |
| 6R8       | EM   | T        | 45 010 78               | 6.3      | 5    | S     | A      |
| 6R8       | EM   | T        | 45 060 78               | 6.3      | 5    | S     | A      |
| 6R8       | EM   | T        | 45 020 39               | 6.3      | 5    | S     | A      |
| 6S8       | GM   | T        | 78 B60 20               | 6.3      | 5    | G     | D      |

| Meter setting |       |        |        | shunt | Press to test | Minimum limits | Notes   |
|---------------|-------|--------|--------|-------|---------------|----------------|---|
| Plate         | Bias  | screen | Sig VI |       |               |                |   |
| 150           | 2.0   | 150    | RL     | 63    | P4            | 65             | Pentode sect.   |
| 150           | 21.0  | -----  | RL     | 100   | P4            | 65             | Triode sect.  |
| 125           | 1.0   | 125    | RL     | 70    | P4            | 63             | Pentode sect.   |
| 125           | 1.0   | -----  | RL     | 49    | P4            | 63             | Triode sect.  |
| 135           | 1.0   | -----  | RL     | 100   | P4            | 65             |   |
| 250           | 7.3   | 250    | RL     | 46    | P4            | 63             |   |
| 250           | 7.0   | 250    | RL     | 33    | P4            | 65             |   |
| 175           | .8    | 125    | RL     | 34    | P4            | 65             |   |
| 25            | 0     | -----  | RL     | 60    | P4            | 65             | Triode #1.  |
| 25            | 0     | -----  | RL     | 60    | P4            | 65             | Triode #2.  |
| 200           | 3.0   | 150    | RL     | 28    | P4            | 63             | Pentode sect.   |
| 250           | 2.0   | -----  | RL     | 27    | P4            | 63             | Triode sect.  |
| 100           | 0     | 67.5   | RL     | 80    | P4            | 65             | Pentode #1.   |
| 100           | ----- | 67.5   | RL     | 80    | P4            | 65             | Pentode #2.   |
| 250           | 22.5  | 150    | RL     | 67    | P4            | 65             | If tube oscillates, turn grid selector to "B." Connect 1,000 $\omega$ , 1/2 W carbon resistor between pin 5 and top cap lead B. |
| 150           | 0CW   | 100    | RL     | 55    | P4            | 65             |   |
| 650           | 0CW   | 100    | RL     | 54    | P4            | 65             |   |
| -----         | ----- | -----  | -----  | ----- | -----         | -----          | Triode #1. Shorts test only.  |
| 125           | 0     | -----  | RL     | 70    | P2            | 65             | Triode #1. Short on V.  |
| 125           | 1.2   | -----  | RL     | 42    | P4            | 65             | Triode #2.  |
| 35 AC         | 0     | -----  | RL     | 12    | P2            | 65             | Triode #3.  |
| 250           | 0CW   | 250    | RL     | 55    | P4            | 65             |   |
| 200           | 0CW   | 125    | RL     | 30    | P4            | 65             | Pentode sect.   |
| 200           | 2.0   | -----  | RL     | 45    | P4            | 65             | Triode sect.  |
| 125           | .5    | 125    | RL     | 41    | P4            | 65             | Pentode sect.   |
| 20 AC         | 0     | -----  | RL     | 84    | P2            | 25             | Diode sect.   |
| 97.5          | 0     | 67.5   | RL     | 84    | P4            | 65             | Pentode #1.   |
| 97.5          | 0     | 67.5   | RL     | 84    | P4            | 65             | Pentode #2.   |
| 180           | 2.0   | 85     | RL     | 84    | P4            | 65             | Pentode sect.   |
| 20 AC         | 0     | -----  | RL     | 60    | P2            | 50             | Diode #1.   |
| 20 AC         | 0     | -----  | RL     | 60    | P2            | 50             | Diode #2.   |
| 120           | 2.0   | -----  | RL     | 49    | P4            | 65             |   |
| 250           | 9.0   | -----  | RL     | 83    | P4            | 65             | Triode sect.  |
| 20 AC         | 0     | -----  | RL     | 100   | P2            | 50             | Diode #1.   |
| 20 AC         | 0     | -----  | RL     | 100   | P2            | 50             | Diode #2.   |
| 20 AC         | 0     | -----  | RL     | 100   | P2            | 50             | Diode #3.   |
| 250           | 2.0   | -----  | RL     | 86    | P4            | 65             | Triode sect.  |

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| Tube type | Test | Function | Selectors<br>(L. to R.) | Range   |      |        |        |
|-----------|------|----------|-------------------------|---------|------|--------|--------|
|           |      |          |                         | filamen | Bias | PI SCR | 3m SIG |
| 6S8       | EM   | T        | 78 030 50               | 6.3     | 5    | 3      | B      |
| 6S8       | EM   | T        | 78 040 20               | 6.3     | 5    | 3      | B      |
| 6S8       | EM   | T        | 78 010 20               | 6.3     | 5    | 3      | B      |
| 6X6       | ER   | T        | 72 540 86               | 6.3     | 5    | G      | F      |
| 6X6       | ER   | T        | 72 543 86               | 6.3     | 5    | G      | F      |
| 7A6       | EM   | T        | 18 060 70               | 6.3     | 5    | 3      | A      |
| 7A6       | EM   | T        | 18 030 20               | 6.3     | 5    | 3      | A      |
| 7AD7      | GM   | T        | 18 623 74               | 6.3     | 5    | J      | B      |
| 7AG7      | GM   | T        | 18 623 74               | 6.3     | 5    | N      | C      |
| 7AH7      | GM   | T        | 18 623 74               | 6.3     | 5    | G      | C      |
| 7AJ7      | GM   | T        | 18 623 74               | 6.3     | 5    | N      | C      |
| 7AU7      | GM   | T        | 45 760 80               | 7.5     | 10   | G      | C      |
| 7AU7      | GM   | T        | 45 210 30               | 7.5     | 10   | G      | C      |
| 7EY6      | GM   | T        | 72 534 80               | 7.5     | 50   | G      | C      |
| 8AU8      | GM   | T        | 45 798 60               | 7.5     | B    | L      | B      |
| 8AU8      | GM   | T        | 45 230 10               | 7.5     | C    | L      | C      |
| 8AW8      | GM   | T        | 45 798 60               | 7.5     | D    | H      | B      |
| 8AW8      | GM   | T        | 45 230 10               | 7.5     | 5    | H      | C      |
| 8BA8A     | GM   | T        | 45 798 60               | 7.5     | D    | H      | B      |
| 8BA8A     | GM   | T        | 45 230 10               | 7.5     | 10   | G      | C      |
| 8BH8      | GM   | T        | 45 798 60               | 7.5     | A    | L      | B      |
| 8BH8      | GM   | T        | 45 230 10               | 7.5     | 10   | M      | C      |
| 8BN8      | GM   | T        | 45 870 90               | 7.5     | 5    | G      | C      |
| 8BN8      | GM   | T        | 45 060 30               | 7.5     | 5    | S      | A      |
| 8BN8      | EM   | T        | 45 010 20               | 7.5     | 5    | S      | A      |
| 8BQ5      | GM   | T        | 45 279 30               | 7.5     | 10   | G      | B      |
| 8CG7      | GM   | T        | 45 760 89               | 7.5     | 10   | G      | C      |
| 8CG7      | GM   | T        | 45 210 39               | 7.5     | 10   | G      | C      |
| 8CM7      | GM   | T        | 45 760 30               | 7.5     | 10   | G      | C      |
| 8CM7      | GM   | T        | 45 810 90               | 7.5     | 10   | G      | C      |
| 8CN7      | GM   | T        | 45 760 60               | 7.5     | 5    | G      | D      |
| 8CN7      | EM   | T        | 45 020 30               | 7.5     | 5    | S      | A      |
| 8CN7      | EM   | T        | 45 010 30               | 7.5     | 5    | S      | A      |
| 8CS7      | GM   | T        | 45 760 80               | 7.5     | 50   | G      | C      |
| 8CS7      | GM   | T        | 45 310 90               | 7.5     | 50   | G      | B      |
| 8CX8      | GM   | T        | 45 798 60               | 7.5     | A    | J      | B      |
| 8CX8      | GM   | T        | 45 230 10               | 7.5     | C    | L      | C      |
| 8CY7      | GM   | T        | 45 760 80               | 7.5     | 5    | J      | D      |
| 8CY7      | GM   | T        | 45 210 90               | 7.5     | E    | N      | B      |
| 8EB8      | GM   | T        | 45 798 60               | 7.5     | B    | J      | B      |
| 8EB8      | GM   | T        | 45 230 10               | 7.5     | 5    | J      | C      |

| Meter setting |      |       |        | Shunt | Press to test | Minimum limits | Notes                         |
|---------------|------|-------|--------|-------|---------------|----------------|-------------------------------|
| Plate         | Bias | Creer | Sig VR |       |               |                |                               |
| 20 AC         | 0    | ----- | RL     | 50    | P2            | 50             | Diode #1.                     |
| 20 AC         | 0    | ----- | RL     | 50    | P2            | 50             | Diode #2.                     |
| 20 AC         | 0    | ----- | RL     | 50    | P2            | 50             | Diode #3.                     |
| 230           | 0    | 230   | RL     | 0     | P4            | -----          | Eyes open.                    |
| 230           | 0    | 230   | RL     | 0     | P4            | -----          | Eyes closed.                  |
| 20 AC         | 0    | ----- | RL     | 40    | P4            | 50             | Diode #1.                     |
| 20 AC         | 0    | ----- | RL     | 40    | P2            | 50             | Diode #2.                     |
| 250           | 3.0  | 150   | RL     | 43    | P4            | 65             |                               |
| 100           | 1.0  | 100   | RL     | 85    | P4            | 65             |                               |
| 250           | 2.0  | 250   | RL     | 61    | P4            | 65             |                               |
| 100           | 1.0  | 100   | RL     | 86    | P4            | 65             |                               |
| 250           | 8.5  | ----- | RL     | 75    | P4            | 65             | Triode #1. Adj fil to 7.0.    |
| 250           | 8.5  | ----- | RL     | 75    | P4            | 65             | Triode #2. Adj fil to 7.0.    |
| 250           | 17.5 | 250   | RL     | 47    | P4            | 65             | Adj fil to 7.2.               |
| 200           | CCW  | 125   | RL     | 79    | P4            | 65             | Pentode sect. Adj fil to 8.4. |
| 150           | CCW  | ----- | RL     | 43    | P4            | 65             | Triode sect. Adj fil to 8.4.  |
| 200           | CCW  | 150   | RL     | 49    | P4            | 65             | Pentode sect. Adj fil to 8.4. |
| 200           | 2.0  | ----- | RL     | 49    | P4            | 65             | Triode sect. Adj fil to 8.4.  |
| 200           | CCW  | 150   | RL     | 51    | P4            | 65             | Pentode sect. Adj fil to 8.4. |
| 200           | 8.0  | ----- | RL     | 58    | P4            | 65             | Triode sect. Adj fil to 8.4.  |
| 200           | CCW  | 125   | RL     | 60    | P4            | 65             | Pentode sect. Adj fil to 8.4. |
| 150           | 5.0  | ----- | RL     | 58    | P4            | 65             | Triode sect. Adj fil to 8.4.  |
| 100           | 1.0  | ----- | RL     | 52    | P4            | 65             | Triode sect. Adj fil to 8.4.  |
| 20 AC         | 0    | ----- | RL     | 45    | P2            | 50             | Diode #1. Adj fil to 8.4.     |
| 20 AC         | 0    | ----- | RL     | 45    | P2            | 50             | Diode #2. Adj fil to 8.4.     |
| 250           | 7.2  | 250   | RL     | 48    | P4            | 65             | Adjust fil to 8.0.            |
| 250           | 8.0  | ----- | RL     | 75    | P4            | 65             | Triode #1. Adj fil to 8.4.    |
| 250           | 8.0  | ----- | RL     | 75    | P4            | 65             | Triode #2. Adj fil to 8.4.    |
| 200           | 7.0  | ----- | RL     | 72    | P4            | 65             | Triode #1. Adj fil to 8.4.    |
| 250           | 8.0  | ----- | RL     | 36    | P4            | 65             | Triode #2. Adj fil to 8.4.    |
| 250           | 3.0  | ----- | RL     | 73    | P4            | 65             | Triode sect. Adj fil to 8.4.  |
| 20 AC         | 0    | ----- | RL     | 64    | P2            | 50             | Diode #1. Adj fil to 8.4.     |
| 20 AC         | 0    | ----- | RL     | 64    | P2            | 50             | Diode #2.                     |
| 250           | 8.5  | ----- | RL     | 78    | P4            | 65             | Triode #1. Adj fil to 8.4.    |
| 250           | 10.5 | ----- | RL     | 92    | P4            | 65             | Triode #2. Adj fil to 8.4.    |
| 200           | CCW  | 125   | RL     | 38    | P4            | 65             | Pentode sect. Adj fil to 8.0. |
| 150           | CCW  | ----- | RL     | 41    | P4            | 65             | Triode sect. Adj fil to 8.0.  |
| 225           | 3.0  | ----- | RL     | 74    | P4            | 65             | Triode #1. Adj fil to 7.9.    |
| 90            | CCW  | ----- | RL     | 94    | P4            | 65             | Triode #2. Adj fil to 7.9.    |
| 200           | CCW  | 125   | RL     | 30    | P4            | 65             | Pentode sect. Adj fil to 8.0. |
| 250           | 2.0  | ----- | RL     | 58    | P4            | 65             | Triode sect. Adj fil to 8.0.  |

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |        |
|-----------|------|----------|-------------------------|----------|------|--------|--------|
|           |      |          |                         | Filament | Bias | PI SCR | Gm SIC |
| 8EM5      | GM   | T        | 45 391 70               | 7.5      | 50   | G      | C      |
| 8ET7      | GM   | T        | 45 798 60               | 7.5      | 5    | L      | B      |
| 8ET7      | EM   | T        | 45 030 10               | 7.5      | 5    | S      | B      |
| 8ET7      | EM   | T        | 45 020 10               | 7.5      | 5    | S      | B      |
| 8FQ7      | GM   | T        | 45 700 80               | 7.5      | 10   | G      | C      |
| 8FQ7      | GM   | T        | 45 210 30               | 7.5      | 10   | G      | C      |
| 8GN8      | GM   | T        | 45 798 60               | 7.5      | 5    | L      | B      |
| 8GN8      | GM   | T        | 45 230 30               | 7.5      | 5    | J      | D      |
| 88N7      | GM   | T        | 78 450 60               | 7.5      | 10   | G      | C      |
| 88N7      | GM   | T        | 78 120 30               | 7.5      | 10   | G      | C      |
| 9AU7      | GM   | T        | 45 760 80               | 10       | 10   | G      | C      |
| 9AU7      | GM   | T        | 45 210 30               | 10       | 10   | G      | C      |
| 9BR7      | GM   | T        | 54 210 30               | 10.0     | E    | J      | B      |
| 9BR7      | EM   | T        | 54 070 80               | 10.0     | 5    | S      | A      |
| 9BR7      | EM   | T        | 54 060 80               | 10.0     | 5    | S      | A      |
| 9CL8      | GM   | T        | 45 967 80               | 10       | 5    | G      | B      |
| 9CL8      | GM   | T        | 45 120 30               | 10       | A    | K      | B      |
| 9DZ8      | GM   | T        | 45 367 20               | 10       | D    | K      | B      |
| 9DZ8      | GM   | T        | 45 190 80               | 10       | 5    | K      | D      |
| 9U8       | GM   | T        | 45 263 70               | 10       | A    | J      | B      |
| 9U8       | GM   | T        | 45 910 80               | 10       | A    | G      | B      |
| 9X8       | GM   | T        | 45 798 61               | 10       | D    | J      | C      |
| 9X8       | GM   | T        | 45 230 60               | 10       | B    | N      | B      |
| 10BQ5     | GM   | T        | 45 279 30               | 10.0     | 10   | G      | B      |
| 10C8      | GM   | T        | 45 867 90               | 10       | B    | G      | B      |
| 10C8      | GM   | T        | 45 210 30               | 10       | E    | G      | C      |
| 10DA7     | GM   | T        | 45 760 80               | 10       | 10   | J      | C      |
| 10DA7     | GM   | T        | 45 310 90               | 10       | 10   | K      | B      |
| 10DE7     | GM   | T        | 45 760 80               | 10       | 50   | J      | C      |
| 10DE7     | GM   | T        | 45 210 90               | 10       | 50   | K      | B      |
| 10DR7     | GM   | T        | 54 760 80               | 10.0     | 5    | J      | D      |
| 10DR7     | GM   | T        | 54 210 90               | 10.0     | 50   | M      | C      |
| 10EG7     | GM   | T        | 78 450 60               | 10.0     | 50   | J      | C      |
| 10EG7     | GM   | T        | 78 120 30               | 10.0     | 50   | M      | B      |
| 10EM7     | GM   | T        | 78 450 60               | 10.0     | 5    | J      | D      |
| 10EM7     | GM   | T        | 78 120 30               | 10.0     | 50   | L      | B      |
| 10HF8     | GM   | T        | 45 798 60               | 10.0     | B    | J      | B      |
| 10HF8     | GM   | T        | 45 230 10               | 10.0     | 5    | J      | C      |
| 11C5      | GM   | T        | 34 576 10               | 10       | 50   | K      | B      |
| 11CY7     | GM   | T        | 45 760 80               | 10       | 5    | J      | D      |
| 11CY7     | GM   | T        | 45 210 90               | 10       | E    | N      | B      |



| Meter setting |      |        |        | Shunt | Press to test | Minimum limits | Notes                          |
|---------------|------|--------|--------|-------|---------------|----------------|--------------------------------|
| Plate         | Bias | Screen | Sig V] |       |               |                |                                |
| 250           | 18.0 | 250    | RL     | 37    | P4            | 65             | Adj fil to 8.0.                |
| 200           | 2.5  | 150    | RL     | 29    | P4            | 65             | Pentode sect.                  |
| 20 AC         | 0    | -----  | RL     | 63    | P2            | 40             | Diode #1.                      |
| 20 AC         | 0    | -----  | RL     | 63    | P2            | 40             | Diode #2.                      |
| 250           | 8.0  | -----  | RL     | 75    | P4            | 65             | Triode #1. Adj fil to 8.4V.    |
| 250           | 8.0  | -----  | RL     | 75    | P4            | 65             | Triode #2. Adj fil to 8.4V.    |
| 200           | 3.0  | 150    | RL     | 28    | P4            | 63             | Pentode sect. Adj fil to 8.0.  |
| 250           | 2.0  | -----  | RL     | 27    | P4            | 63             | Triode sect. Adj fil to 8.0.   |
| 250           | 8.0  | -----  | RL     | 75    | P4            | 65             | Triode #1. Adj fil to 8.4.     |
| 250           | 8.0  | -----  | RL     | 75    | P4            | 65             | Triode #2. Adj fil to 8.4.     |
| 250           | 8.5  | -----  | RL     | 75    | P4            | 65             | Triode #1. Adj fil to 9.4.     |
| 250           | 8.5  | -----  | RL     | 75    | P4            | 65             | Triode #2. Adj fil to 9.4.     |
| 250           | CCW  | -----  | RL     | 95    | P4            | 65             | Triode sect. Adj fil to 9.4.   |
| 20 AC         | 0    | -----  | RL     | 65    | P2            | 40             | Diode #1. Adj fil to 9.4.      |
| 20 AC         | 0    | -----  | RL     | 65    | P2            | 40             | Diode #2.                      |
| 150           | 1.0  | 125    | RL     | 88    | P4            | 65             | Tetrode sect. Adj fil to 9.5.  |
| 125           | CCW  | -----  | RL     | 54    | P4            | 65             | Triode sect. Adj fil to 9.5.   |
| 145           | CCW  | 120    | RL     | 60    | P4            | 65             | Pentode sect. Adj fil to 9.0.  |
| 120           | 1.9  | -----  | RL     | 70    | P4            | 65             | Triode sect. Adj fil to 9.0.   |
| 250           | CCW  | 135    | RL     | 95    | P4            | 65             | Pentode sect. Adj fil to 9.45. |
| 150           | CCW  | -----  | RL     | 53    | P4            | 65             | Triode sect. Adj fil to 9.45.  |
| 250           | CCW  | 150    | RL     | 42    | P4            | 65             | Pentode sect. Adj fil to 9.5.  |
| 100           | CCW  | -----  | RL     | 89    | P4            | 65             | Triode sect. Adj fil to 9.5.   |
| 250           | 7.2  | 250    | RL     | 48    | P4            | 65             | Adj fil to 10.6.               |
| 135           | CCW  | 135    | RL     | 45    | P4            | 65             | Pentode sect. Adj fil to 10.5. |
| 250           | CCW  | -----  | RL     | 95    | P4            | 65             | Triode sect. Adj fil to 10.5.  |
| 225           | 8.0  | -----  | RL     | 74    | P4            | 65             | Triode #1.                     |
| 150           | 17.5 | -----  | RL     | 92    | P4            | 65             | Triode #2.                     |
| 225           | 12.0 | -----  | RL     | 88    | P4            | 65             | Triode #1.                     |
| 150           | 28.0 | -----  | RL     | 76    | P4            | 65             | Triode #2.                     |
| 250           | 3.0  | -----  | RL     | 56    | P4            | 65             | Triode #1.                     |
| 150           | 17.5 | -----  | RL     | 52    | P4            | 65             | Triode #2.                     |
| 225           | 12.0 | -----  | RL     | 88    | P4            | 63             | Triode #1.                     |
| 150           | 17.5 | -----  | RL     | 62    | P4            | 63             | Triode #2.                     |
| 250           | 3.0  | -----  | RL     | 55    | P4            | 65             | Triode #1. Adj fil to 9.7.     |
| 150           | 20.0 | -----  | RL     | 67    | P4            | 65             | Triode #2. Adj fil to 9.7.     |
| 200           | CCW  | 125    | RL     | 30    | P4            | 65             | Pentode sect. Adj fil to 10.5. |
| 200           | 2.0  | -----  | RL     | 50    | P4            | 65             | Triode sect. Adj fil to 10.5.  |
| 135           | 8.2  | 120    | RL     | 70    | P4            | 65             | Adj fil to 11.6.               |
| 225           | 3.0  | -----  | RL     | 74    | P4            | 65             | Triode #1. Adj fil to 11.0.    |
| 90            | CCW  | -----  | RL     | 94    | P4            | 65             | Triode #2. Adj fil to 11.0.    |

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| Tube type | Test | Function | Selectors<br>(L. to R.) | Range  |      |        |        |
|-----------|------|----------|-------------------------|--------|------|--------|--------|
|           |      |          |                         | Flamen | Bias | Pl SCR | Gm SIG |
| 12AB5     | GM   | T        | 45 391 70               | 12.6   | 10   | K      | C      |
| 12AC6     | EM   | T        | 34 256 71               | 12.6   | 5    | S      | B      |
| 12AD6     | EM   | T        | 34 756 21               | 12.6   | 5    | S      | B      |
| 12AD7     | GM   | T        | 45 760 80               | 12.6   | 5    | G      | C      |
| 12AD7     | GM   | T        | 45 210 30               | 12.6   | 5    | G      | C      |
| 12AE6     | EM   | T        | 34 070 21               | 12.6   | 5    | S      | C      |
| 12AE6     | EM   | T        | 34 060 20               | 12.6   | 5    | S      | B      |
| 12AE6     | EM   | T        | 34 050 20               | 12.6   | 5    | S      | B      |
| 12AE7     | EM   | T        | 45 060 87               | 12.6   | 5    | S      | B      |
| 12AE7     | EM   | T        | 45 010 32               | 12.6   | 5    | S      | B      |
| 12AF6     | EM   | T        | 34 256 71               | 12.6   | 5    | S      | B      |
| 12AG6     | EM   | T        | 34 756 21               | 12.6   | 5    | S      | B      |
| 12AJ6     | EM   | T        | 34 070 21               | 12.6   | 5    | S      | C      |
| 12AJ6     | EM   | T        | 34 060 20               | 12.6   | 5    | S      | B      |
| 12AJ6     | EM   | T        | 34 050 20               | 12.6   | 5    | S      | B      |
| 12AJ7     | GM   | T        | 45 261 37               | 12.6   | 5    | L      | C      |
| 12AJ7     | GM   | T        | 45 980 36               | 12.6   | 5    | L      | C      |
| 12AL8     | EM   | T        | 45 312 70               | 12.6   | 5    | S      | A      |
| 12AL8     | EM   | T        | 45 860 90               | 12.6   | 5    | S      | B      |
| 12AQ5     | GM   | T        | 34 156 20               | 12.6   | 10   | K      | C      |
| 12AS5     | GM   | T        | 34 276 10               | 12.6   | 10   | L      | C      |
| 12AU8     | GM   | T        | 45 798 60               | 12.6   | B    | L      | B      |
| 12AU8     | GM   | T        | 45 230 10               | 12.6   | D    | M      | C      |
| 12AV5     | GM   | T        | 27 158 30               | 12.6   | 50   | J      | B      |
| 12BD6     | GM   | T        | 34 156 72               | 12.6   | 5    | N      | C      |
| 12BK5     | GM   | T        | 45 318 60               | 12.6   | 10   | G      | B      |
| 12BL6     | EM   | T        | 34 256 71               | 12.6   | 5    | S      | B      |
| 12BN6     | GM   | T        | 34 275 16               | 12.6   | 5    | N      | D      |
| 12BQ6     | GM   | T        | 27 5A4 80               | 12.6   | 50   | J      | B      |
| 12BR7     | GM   | T        | 45 210 30               | 12.6   | D    | G      | B      |
| 12BR7     | EM   | T        | 45 070 80               | 12.6   | 5    | S      | A      |
| 12BR7     | EM   | T        | 45 060 80               | 12.6   | 5    | S      | A      |
| 12BV7     | GM   | T        | 45 278 13               | 12.6   | A    | J      | B      |
| 12BZ6     | GM   | T        | 34 156 27               | 12.6   | D    | H      | B      |
| 12BZ7     | GM   | T        | 45 760 80               | 12.6   | 5    | G      | C      |
| 12BZ7     | GM   | T        | 45 210 30               | 12.6   | 5    | G      | C      |
| 12C5      | GM   | T        | 34 276 10               | 12.6   | 10   | N      | B      |
| 12CA5     | GM   | T        | 34 276 10               | 12.6   | 10   | K      | B      |
| 12CM6     | GM   | T        | 45 391 70               | 12.6   | 10   | K      | C      |
| 12CN5     | EM   | T        | 34 670 12               | 12.6   | 5    | S      | B      |
| 12CR6     | GM   | T        | 34 756 10               | 12.6   | 5    | G      | C      |

| Meter setting |      |        |       | Shunt | Press to test | Minimum limits | Notes         |
|---------------|------|--------|-------|-------|---------------|----------------|---------------|
| Plate         | Bias | Screen | Sig V |       |               |                |               |
| 180           | 8.5  | 180    | RL    | 54    | P4            | 65             |               |
| 20 AC         | 0    |        | RL    | 81    | P2, P3        | 65             |               |
| 20 AC         | 0    |        | RL    | 45    | P2, P3        | 65             |               |
| 250           | 2.0  |        | RL    | 92    | P4            | 65             | Triode #1.    |
| 250           | 2.0  | -----  | RL    | 92    | P4            | 65             | Triode #2.    |
| 20 AC         | 0    |        | RL    | 44    | P2            | 65             | Triode sect.  |
| 20 AC         | 0    | -----  | RL    | 55    | P2            | 65             | Diode #1.     |
| 20 AC         | 0    |        | RL    | 55    | P2            | 65             | Diode #2.     |
| 20 AC         | 0    |        | RL    | 25    | P2            | 65             | Triode #1.    |
| 20 AC         | 0    | -----  | RL    | 20    | P2            | 65             | Triode #2.    |
| 20 AC         | 0    |        | RL    | 58    | P2, P3        | 65             |               |
| 20 AC         | 0    |        | RL    | 47    | P2, P3        | 65             |               |
| 20 AC         | 0    |        | RL    | 63    | P2            | 65             | Triode sect.  |
| 20 AC         | 0    |        | RL    | 52    | P2            | 65             | Diode #1.     |
| 20 AC         | 0    |        | RL    | 52    | P2            | 65             | Diode #2.     |
| 200           | 1.5  | 150    | RL    | 65    | P4            | 65             | Heptode sect. |
| 150           | 1.5  |        | RL    | 42    | P4            | 65             | Triode sect.  |
| 20 AC         | 0    |        | RL    | 85    | P2, P3        | 65             | Tetrode sect. |
| 20 AC         | 0    |        | RL    | 25    | P2, P3        | 65             | Triode sect.  |
| 180           | 8.5  | 180    | RL    | 54    | P4            | 65             |               |
| 150           | 8.3  | 110    | RL    | 36    | P4            | 65             |               |
| 200           | DCW  | 125    | RL    | 75    | P4            | 65             | Pentode sect. |
| 150           | DCW  |        | RL    | 44    | P4            | 65             | Triode sect.  |
| 250           | 22.5 | 150    | RL    | 95    | P4            | 65             |               |
| 100           | 1.0  | 100    | RL    | 78    | P4            | 65             |               |
| 250           | 5.0  | 250    | RL    | 52    | P4            | 65             |               |
| 20 AC         | 0    | -----  | RL    | 45    | P2            | 65             |               |
| 75            | 2.0  | 67.5   | RL    | 83    | P4            | 65             |               |
| 250           | 22.5 | 150    | RL    | 95    | P4            | 65             |               |
| 250           | DCW  |        | RL    | 95    | P4            | 65             | Triode sect.  |
| 20 AC         | 0    |        | RL    | 57    | P2            | 50             | Diode #1.     |
| 20 AC         | 0    |        | RL    | 57    | P2            | 50             | Diode #2.     |
| 250           | DCW  | 150    | RL    | 25    | P4            | 65             |               |
| 200           | DCW  | 150    | RL    | 88    | P4            | 65             |               |
| 250           | 2.0  |        | RL    | 58    | P4            | 65             | Triode #1.    |
| 250           | 2.0  | -----  | RL    | 58    | P4            | 65             | Triode #2.    |
| 100           | 6.0  | 100    | RL    | 61    | P4            | 65             |               |
| 125           | 4.5  | 125    | RL    | 45    | P4            | 65             |               |
| 180           | 8.5  | 180    | RL    | 54    | P4            | 65             |               |
| 20 AC         | 0    |        | RL    | 32    | P2            | 65             |               |
| 200           | 2.0  | 100    | RL    | 86    | P4            | 65             | Pentode sect. |

**TB 11-6625-316-12/1**

| Tube type | Test | Funcio | Selectors<br>(L. to R.) | Range |        |        |
|-----------|------|--------|-------------------------|-------|--------|--------|
|           |      |        |                         | Bias  | Pl SCR | Gm SIG |
| 12CR6     | EM   | T      | 34 020 10               | 12.6  | 5 S    | B      |
| 12CS6     | GM   | T      | 34 165 27               | 12.6  | 5 N    | C      |
| 12CT8     | GM   | T      | 45 867 90               | 12.6  | B L    | B      |
| 12CT8     | GM   | T      | 45 210 30               | 12.6  | C L    | B      |
| 12CU5     | GM   | T      | 34 276 10               | 12.6  | 50 K   | C      |
| 12CU6     | GM   | T      | 27 5A4 80               | 12.6  | 50 J   | B      |
| 12CX6     | EM   | T      | 34 156 72               | 12.6  | 5 S    | F      |
| 12DB5     | GM   | T      | 45 391 70               | 12.6  | 10 N   | B      |
| 12DE8     | EM   | T      | 45 168 97               | 12.6  | 5 S    | F      |
| 12DE8     | EM   | T      | 45 030 20               | 12.6  | 5 S    | F      |
| 12DF7     | GM   | T      | 45 760 80               | 12.6  | 5 J    | D      |
| 12DF7     | GM   | T      | 45 210 30               | 12.6  | 5 J    | D      |
| 12DK7     | EM   | T      | 45 173 20               | 12.6  | 5 S    | F      |
| 12DK7     | EM   | T      | 45 060 80               | 12.6  | 5 S    | F      |
| 12DK7     | EM   | T      | 45 090 80               | 12.6  | 5 S    | F      |
| 12DL8     | EM   | T      | 45 763 20               | 12.6  | 5 S    | F      |
| 12DL8     | EM   | T      | 45 090 80               | 12.6  | 5 S    | F      |
| 12DL8     | EM   | T      | 45 010 80               | 12.6  | 5 S    | F      |
| 12DM5     | GM   | T      | 34 276 10               | 12.6  | 10 N   | B      |
| 12DQ6     | GM   | T      | 27 5A4 80               | 12.6  | 50 J   | B      |
| 12DQ7     | GM   | T      | 45 278 19               | 12.6  | A J    | B      |
| 12DT5     | GM   | T      | 45 391 70               | 12.6  | 50 G   | C      |
| 12DT7     | GM   | T      | 45 760 80               | 12.6  | 5 J    | D      |
| 12DT7     | GM   | T      | 45 210 30               | 12.6  | 5 J    | D      |
| 12DT8     | GM   | T      | 45 760 89               | 12.6  | 5 J    | C      |
| 12DT8     | GM   | T      | 45 210 39               | 12.6  | 5 J    | C      |
| 12DU7     | EM   | T      | 54 163 20               | 12.6  | 5 S    | A      |
| 12DU7     | EM   | T      | 54 090 20               | 12.6  | 5 S    | B      |
| 12DU7     | EM   | T      | 54 070 20               | 12.6  | 5 S    | B      |
| 12DV7     | EM   | T      | 54 060 87               | 12.6  | 5 S    | C      |
| 12DV7     | EM   | T      | 54 030 10               | 12.6  | 5 S    | B      |
| 12DV7     | EM   | T      | 54 020 10               | 12.6  | 5 S    | B      |
| 12DV8     | EM   | T      | 45 763 20               | 12.6  | 5 S    | A      |
| 12DV8     | EM   | T      | 45 090 80               | 12.6  | 5 S    | B      |
| 12DV8     | EM   | T      | 45 010 80               | 12.6  | 5 S    | B      |
| 12DW5     | GM   | T      | 45 391 70               | 12.6  | 50 H   | C      |
| 12DW7     | GM   | T      | 45 760 80               | 12.6  | 5 J    | D      |
| 12DW7     | GM   | T      | 45 210 30               | 12.6  | 10 J   | C      |
| 12DW8     | EM   | T      | 54 760 80               | 12.6  | 5 S    | B      |

| Meter setting |      |        |        | Shunt | Press to test | Minimum limits | Notes                           |
|---------------|------|--------|--------|-------|---------------|----------------|---------------------------------|
| Plate         | Bias | Screen | Sig VR |       |               |                |                                 |
| 20 AC         | 0    | -----  | RL     | 65    | P2            | 50             | Diode sect.                     |
| 80            | 1.0  | 80     | RL     | 53    | P4            | 65             |                                 |
| 200           | CCW  | 130    | RL     | 69    | P4            | 65             | Pentode sect.                   |
| 150           | CCW  | -----  | RL     | 40    | P4            | 65             | Triode sect.                    |
| 120           | 8.0  | 110    | RL     | 64    | P4            | 65             |                                 |
| 250           | 22.5 | 150    | RL     | 95    | P4            | 65             |                                 |
| 20 AC         | 0    | -----  | RL     | 20    | P2, P3        | 65             |                                 |
| 110           | 7.5  | 110    | RL     | 65    | P4            | 65             |                                 |
| 20 AC         | 0    | -----  | RL     | 22    | P2, P3        | 65             | Pentode sect.                   |
| 20 AC         | 0    | -----  | RL     | 20    | P2            | 50             | Diode sect.                     |
| 250           | 2.0  | -----  | RL     | 50    | P4            | 65             | Triode #1.                      |
| 250           | 2.0  | -----  | RL     | 50    | P4            | 65             | Triode #2.                      |
| 20 AC         | 0    | -----  | RL     | 18    | P2, P3        | 65             | Tetrode sect.                   |
| 20 AC         | 0    | -----  | RL     | 60    | P2            | 50             | Diode #1.                       |
| 20 AC         | 0    | -----  | RL     | 60    | P2            | 50             | Diode #2.                       |
| 20 AC         | 0    | -----  | RL     | 17    | P2, P3        | 65             | Tetrode sect.                   |
| 20 AC         | 0    | -----  | RL     | 46    | P2            | 50             | Diode #1.                       |
| 20 AC         | 0    | -----  | RL     | 46    | P2            | 50             | Diode #2.                       |
| 100           | 6.0  | 100    | RL     | 61    | P4            | 65             |                                 |
| 250           | 22.5 | 150    | RL     | 87    | P4            | 65             |                                 |
| 200           | CCW  | 125    | RL     | 38    | P4            | 65             |                                 |
| 250           | 16.5 | 250    | RL     | 47    | P4            | 65             |                                 |
| 250           | 2.0  | -----  | RL     | 60    | P4            | 65             | Triode #1.                      |
| 250           | 2.0  | -----  | RL     | 60    | P4            | 65             | Triode #2.                      |
| 250           | 2.0  | -----  | RL     | 35    | P4            | 65             | Triode #1.                      |
| 250           | 2.0  | -----  | RL     | 35    | P4            | 65             | Triode #2.                      |
| 20 AC         | 0    | -----  | RL     | 59    | P2, P3        | 65             | Tetrode sect. Make no gas test. |
| 20 AC         | 0    | -----  | RL     | 76    | P2            | 40             | Diode #1.                       |
| 20 AC         | 0    | -----  | RL     | 76    | P2            | 40             | Diode #2.                       |
| 20 AC         | 0    | -----  | RL     | 48    | P2            | 65             | Triode sect. Make no gas test.  |
| 20 AC         | 0    | -----  | RL     | 76    | P2            | 40             | Diode #1.                       |
| 20 AC         | 0    | -----  | RL     | 76    | P2            | 40             | Diode #2.                       |
| 20 AC         | 0    | -----  | RL     | 85    | P2, P3        | 65             | Tetrode sect.                   |
| 20 AC         | 0    | -----  | RL     | 60    | P2            | 50             | Diode #1.                       |
| 20 AC         | 0    | -----  | RL     | 60    | P2            | 50             | Diode #2.                       |
| 210           | 22.5 | 150    | RL     | 30    | P4            | 60             |                                 |
| 225           | 2.0  | -----  | RL     | 52    | P4            | 67             | Triode #1.                      |
| 225           | 8.5  | -----  | RL     | 75    | P4            | 65             | Triode #2.                      |
| 20 AC         | 0    | -----  | RL     | 28    | P2            | 65             | Triode #1.                      |

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| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |        |
|-----------|------|----------|-------------------------|----------|------|--------|--------|
|           |      |          |                         | filament | Bias | Pl SCR | Gm SIG |
| 12DV8     | EM   | T        | 54 210 30               | 12.6     | 5    | S      | B      |
| 12DY8     | EM   | T        | 45 163 20               | 12.6     | 5    | S      | A      |
| 12DY8     | EM   | T        | 45 980 70               | 12.6     | 5    | S      | A      |
| 12DZ6     | EM   | T        | 45 156 72               | 12.6     | 5    | S      | C      |
| 12DZ8     | GM   | T        | 45 367 20               | 12.6     | D    | K      | B      |
| 12DZ8     | GM   | T        | 45 190 80               | 12.6     | 5    | K      | D      |
| 12EA6     | EM   | T        | 43 156 72               | 12.6     | 5    | S      | A      |
| 12EC8     | EM   | T        | 45 967 80               | 12.6     | 5    | S      | A      |
| 12EC8     | EM   | T        | 45 102 30               | 12.6     | 5    | S      | A      |
| 12ED6     | GM   | T        | 34 276 10               | 12.6     | 10   | K      | B      |
| 12EG6     | EM   | T        | 34 756 21               | 12.6     | 5    | S      | F      |
| 12EH5     | GM   | T        | 34 276 10               | 12.6     | 10   | K      | B      |
| 12EK6     | EM   | T        | 43 156 72               | 12.6     | 5    | S      | A      |
| 12EL6     | EM   | T        | 43 020 71               | 12.6     | 5    | S      | F      |
| 12EL6     | EM   | T        | 43 060 70               | 12.6     | 5    | S      | F      |
| 12EL6     | EM   | T        | 43 050 70               | 12.6     | 5    | S      | F      |
| 12EM6     | EM   | T        | 45 163 20               | 12.6     | 5    | S      | F      |
| 12EM6     | EM   | T        | 45 090 80               | 12.6     | 5    | S      | F      |
| 12EN6     | GM   | T        | 27 534 80               | 12.6     | 10   | M      | B      |
| 12EQ7     | GM   | T        | 45 276 31               | 12.6     | 5    | N      | C      |
| 12EQ7     | EM   | T        | 45 080 30               | 12.6     | 5    | S      | B      |
| 12EZ6     | EM   | T        | 43 156 72               | 12.6     | 5    | S      | A      |
| 12F8      | EM   | T        | 45 239 78               | 12.6     | 5    | S      | B      |
| 12F8      | EM   | T        | 45 060 70               | 12.6     | 5    | S      | B      |
| 12F8      | EM   | T        | 45 010 70               | 12.6     | 5    | S      | B      |
| 12FK6     | EM   | T        | 43 170 20               | 12.6     | 5    | S      | C      |
| 12FK6     | EM   | T        | 43 060 20               | 12.6     | 5    | S      | B      |
| 12FK6     | EM   | T        | 43 050 20               | 12.6     | 5    | S      | B      |
| 12FM6     | EM   | T        | 34 070 21               | 12.6     | 5    | S      | B      |
| 12FM6     | EM   | T        | 34 060 20               | 12.6     | 5    | S      | B      |
| 12FM6     | EM   | T        | 34 050 20               | 12.6     | 5    | S      | B      |
| 12FQ8     | GM   | T        | 45 780 90               | 12.6     | 5    | J      | D      |
| 12FQ8     | GM   | T        | 45 760 90               | 12.6     | 5    | J      | D      |
| 12FQ8     | GM   | T        | 45 230 90               | 12.6     | 5    | J      | D      |
| 12FQ8     | GM   | T        | 45 210 90               | 12.6     | 5    | J      | D      |
| 12FR8     | EM   | T        | 45 367 00               | 12.6     | 5    | S      | D      |
| 12FR8     | EM   | T        | 45 190 20               | 12.6     | 5    | S      | D      |
| 12FR8     | EM   | T        | 45 080 20               | 12.6     | 5    | S      | D      |
| 12FT6     | EM   | T        | 43 170 20               | 12.6     | 5    | S      | B      |

| Meter setting |      |        |        | Shunt | Press to test | Minimum limits | Notes                          |
|---------------|------|--------|--------|-------|---------------|----------------|--------------------------------|
| Plate         | Bias | Screen | Sig VI |       |               |                |                                |
| 20 AC         | 0    | -----  | RL     | 17    | P2            | 65             | Triode #2.                     |
| 20 AC         | 0    | -----  | RL     | 88    | P2, P3        | 65             | Tetrode sect.                  |
| 20 AC         | 0    | -----  | RL     | 88    | P2, P3        | 65             | Triode sect.                   |
| 20 AC         | 0    | -----  | RL     | 96    | P2, P3        | 65             |                                |
| 145           | CCW  | 120    | RL     | 60    | P4            | 65             | Pentode sect.                  |
| 120           | 1.9  | -----  | RL     | 70    | P4            | 65             | Triode sect.                   |
| 20 AC         | 0    | -----  | RL     | 80    | P2, P3        | 65             |                                |
| 20 AC         | 0    | -----  | RL     | 80    | P2, P3        | 65             | Pentode sect.                  |
| 20 AC         | 0    | -----  | RL     | 80    | P2, P3        | 65             | Triode sect.                   |
| 125           | 4.5  | 125    | RL     | 47    | P4            | 65             |                                |
| 20 AC         | 0    | -----  | RL     | 32    | P2, P3        | 65             |                                |
| 115           | 4.8  | 110    | RL     | 49    | P4            | 65             |                                |
| 20 AC         | 0    | -----  | RL     | 80    | P2, P3        | 65             |                                |
| 20 AC         | 0    | -----  | RL     | 90    | P2            | 40             | Triode sect.                   |
| 20 AC         | 0    | -----  | RL     | 57    | P2            | 65             | Diode #1                       |
| 20 AC         | 0    | -----  | RL     | 57    | P2            | 65             | Diode #2.                      |
| 20 AC         | 0    | -----  | RL     | 18    | P2, P3        | 65             | Tetrode sect.                  |
| 20 AC         | 0    | -----  | RL     | 60    | P2            | 50             | Diode sect.                    |
| 200           | 9.0  | 110    | RL     | 75    | P4            | 65             |                                |
| 100           | 0.6  | 100    | RL     | 52    | P4            | 65             | Pentode sect.                  |
| 20 AC         | 0    | -----  | RL     | 58    | P2            | 25             | Diode sect.                    |
| 20 AC         | 0.7  | -----  | RL     | 80    | P2, P3        | 65             |                                |
| 20 AC         | 0    | -----  | RL     | 80    | P2, P3        | 65             | Pentode sect.                  |
| 20 AC         | 0    | -----  | RL     | 61    | P2            | 65             | Diode #1.                      |
| 20 AC         | 0    | -----  | RL     | 61    | P2            | 65             | Diode #2.                      |
| 20 AC         | 1.0  | -----  | RL     | 36    | P2            | 65             | Triode sect.                   |
| 20 AC         | 0    | -----  | RL     | 49    | P2            | 40             | Diode #1.                      |
| 20 AC         | 0    | -----  | RL     | 49    | P2            | 40             | Diode #2.                      |
| 20 AC         | 0    | -----  | RL     | 67    | P2            | 65             | Triode sect. Make no gas test  |
| 20 AC         | 0    | -----  | RL     | 50    | P2            | 40             | Diode #1.                      |
| 20 AC         | 0    | -----  | RL     | 50    | P2            | 40             | Diode #2.                      |
| 250           | 1.5  | -----  | RL     | 72    | P4            | 63             | Triode #1. Plate #1.           |
| 250           | 1.5  | -----  | RL     | 72    | P4            | 63             | Triode #1. Plate #2.           |
| 250           | 1.5  | -----  | RL     | 72    | P4            | 63             | Triode #2. Plate #1.           |
| 250           | 1.5  | -----  | RL     | 72    | P4            | 63             | Triode #2. Plate #2.           |
| 20 AC         | 3.1  | -----  | RL     | 10    | P2            | 65             | Pentode sect.                  |
| 20 AC         | .5   | -----  | RL     | 27    | P2            | 65             | Triode sect.                   |
| 20 AC         | 0    | -----  | RL     | 20    | P2            | 40             | Diode sect.                    |
| 20 AC         | 0    | -----  | RL     | 64    | P2            | 65             | Triode sect. Make no gas test. |

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| Tube type | Test | Function | Selectors<br>(L. to R.) | Range  |      |        |        |
|-----------|------|----------|-------------------------|--------|------|--------|--------|
|           |      |          |                         | Flamen | Bias | PI SCR | 3m SIG |
| 12FT6     | EM   | T        | 43 060 20               | 12.6   | 5    | S      | B      |
| 12FT6     | EM   | T        | 43 050 20               | 12.6   | 5    | S      | B      |
| 12FX8     | EM   | T        | 45 231 79               | 12.6   | 5    | S      | B      |
| 12FX8     | EM   | T        | 45 080 06               | 12.6   | 5    | S      | B      |
| 12G4      | GM   | T        | 34 610 70               | 12.6   | 10   | G      | C      |
| 12G8      | EM   | T        | 45 060 78               | 12.6   | 5    | S      | B      |
| 12G8      | EM   | T        | 45 010 23               | 12.6   | 5    | S      | B      |
| 12GA6     | EM   | T        | 34 756 21               | 12.6   | 5    | S      | B      |
| 12GC8     | GM   | T        | 72 5A8 30               | 12.6   | 50   | J      | B      |
| 12G W6    | GM   | T        | 27 5A4 80               | 12.6   | 50   | J      | B      |
|           | EM   | T        | 45 163 20               | 12.6   | 5    | S      | A      |
| 12J8      | EM   | T        | 45 090 70               | 12.6   | 5    | S      | A      |
| 12J8      | EM   | T        | 45 080 70               | 12.6   | 5    | S      | A      |
| 12K5      | EM   | T        | 34 570 12               | 12.6   | 5    | S      | A      |
| 12L6      | GM   | T        | 27 534 80               | 12.6   | C    | J      | B      |
| 12R5      | GM   | T        | 34 276 10               | 12.6   | 10   | N      | B      |
| 12S8      | GM   | T        | 78 B60 20               | 12.6   | 5    | G      | D      |
| 12S8      | EM   | T        | 78 030 50               | 12.6   | 5    | S      | B      |
| 12S8      | EM   | T        | 78 040 20               | 12.6   | 5    | S      | B      |
|           | EM   | T        | 78 010 20               | 12.6   | 5    | S      | B      |
| 12U7      | EM   | T        | 45 060 87               | 12.6   | 5    | S      | B      |
| 12U7      | EM   | T        | 45 010 32               | 12.6   | 5    | S      | B      |
| 12V6      | GM   | T        | 27 534 80               | 12.6   | 10   | K      | C      |
| 12W6      | GM   | T        | 27 534 80               | 12.6   | C    | J      | B      |
| 13DE7     | GM   | T        | 45 760 80               | 12.6   | 50   | J      | C      |
| 13DE7     | GM   | T        | 45 210 90               | 12.6   | 50   | K      | B      |
| 13DR7     | GM   | T        | 54 760 80               | 12.6   | 5    | J      | D      |
| 13DR7     | GM   | T        | 54 210 90               | 12.6   | 50   | M      | C      |
| 13EM7     | GM   | T        | 87 450 60               | 14.0   | 5    | G      | D      |
| 13EM7     | GM   | T        | 87 120 30               | 14.0   | 50   | K      | C      |
| 13FR7     | GM   | T        | 45 760 80               | 12.6   | 5    | G      | D      |
| 13FR7     | GM   | T        | 45 310 90               | 12.6   | 50   | K      | C      |
| 14GT8     | GM   | T        | 45 890 70               | 14.0   | 5    | J      | D      |
| 14GT8     | EM   | T        | 45 020 30               | 14.0   | 5    | S      | A      |
| 14GT8     | EM   | T        | 45 060 10               | 14.0   | 5    | S      | A      |
| 14JG8     | GM   | T        | 45 890 70               | 14.0   | 5    | J      | C      |
| 14JG8     | EM   | T        | 45 060 10               | 14.0   | 5    | S      | A      |



| Meter setting |      |        |         | Shunt | Press to test | Minimum limits | Notes   |
|---------------|------|--------|---------|-------|---------------|----------------|---|
| Plate         | Bias | Screen | Sig V I |       |               |                |   |
| 20 AC         | 0    | -----  | RL      | 40    | P2            | 50             | Diode #1.   |
| 20 AC         | 0    | -----  | RL      | 40    | P2            | 50             | Diode #2.   |
| 20 AC         | 0    | -----  | RL      | 20    | P2            | 65             | Heptode sect.   |
| 20 AC         | 0    | -----  | RL      | 18    | P2            | 65             | Triode sect.  |
| 250           | 8.0  | -----  | RL      | 68    | P4            | 65             |   |
| 20 AC         | 0    | -----  | RL      | 28    | P2            | 65             | Triode #1.  |
| 20 AC         | 0    | -----  | RL      | 63    | P2            | 65             | Triode #2.  |
| 20 AC         | 0    | -----  | RL      | 62    | P2            | 65             |   |
| 250           | 22.5 | 150    | RL      | 75    | P4            | 65             |   |
| 250           | 22.6 | 150    | RL      | 67    | P4            | 65             | If tube oscillates, turn grid selector to "B." Connect a 1,000 $\omega$ , 1/2 W carbon resistor between pin 5 and top cap lead B. |
| 20 AC         | 0    | -----  | RL      | 80    | P2, P3        | 65             | Tetrode sect.   |
| 20 AC         | 0    | -----  | RL      | 95    | P2            | 50             | Diode #1.   |
| 20 AC         | 0    | -----  | RL      | 95    | P2            | 50             | Diode #2.   |
| 20 AC         | 0    | -----  | RL      | 91    | P2            | 65             |   |
| 200           | CCW  | 125    | RL      | 55    | P4            | 65             |   |
| 100           | 6.5  | 100    | RL      | 66    | P4            | 65             |   |
| 250           | 2.0  | -----  | RL      | 78    | P4            | 65             | Triode sect.  |
| 20 AC         | 0    | -----  | RL      | 51    | P2            | 50             | Diode #1.   |
| 20 AC         | 0    | -----  | RL      | 51    | P2            | 50             | Diode #2.   |
| 20 AC         | 0    | -----  | RL      | 51    | P2            | 50             | Diode #3.   |
| 20 AC         | 0    | -----  | RL      | 43    | P2            | 65             | Triode #1.  |
| 20 AC         | 0    | -----  | RL      | 43    | P2            | 65             | Triode #2.  |
| 180           | 8.5  | 180    | RL      | 54    | P4            | 65             |   |
| 200           | CCW  | 125    | RL      | 55    | P4            | 65             |   |
| 225           | 12.0 | -----  | RL      | 88    | P4            | 65             | Triode #1. Adj fil to 13.0.   |
| 150           | 26.0 | -----  | RL      | 76    | P4            | 65             | Triode #2. Adj fil to 13.0.   |
| 250           | 3.0  | -----  | RL      | 56    | P4            | 65             | Triode #1. Adj fil to 13.0.   |
| 150           | 17.5 | -----  | RL      | 52    | P4            | 65             | Triode #2. Adj fil to 13.0.   |
| 250           | 3.0  | -----  | RL      | 55    | P4            | 65             | Triode #1. Adj fil to 13.0.   |
| 150           | 20   | -----  | RL      | 30    | P4            | 65             | Triode #2. Adj fil to 13.0.   |
| 250           | 3.0  | -----  | RL      | 55    | P4            | 65             | Triode #1. Adj fil to 13.0.   |
| 150           | 20.0 | -----  | RL      | 30    | P4            | 65             | Triode #2. Adj fil to 13.0.   |
| 250           | 3.0  | -----  | RL      | 97    | P4            | 63             | Triode sect.  |
| 20 AC         | 0    | -----  | RL      | 100   | P2            | 40             | Diode #1.   |
| 20 AC         | 0    | -----  | RL      | 100   | P2            | 40             | Diode #2.   |
| 250           | 2.0  | -----  | RL      | 83    | P4            | 65             | Triode sect.  |
| 20 AC         | 0    | -----  | RL      | 50    | P2            | 50             | Diode #1.   |

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |        |
|-----------|------|----------|-------------------------|----------|------|--------|--------|
|           |      |          |                         | Filament | Bias | PI SCR | Gm SIG |
| 14JG8     | EM   | T        | 15 020 30               | 14.0     | 5    | S      | A      |
| 14V7      | GM   | T        | 18 623 74               | 12.6     | C    | H      | C      |
| 14X7      | GM   | T        | 18 320 40               | 12.6     | 5    | G      | C      |
| 14X7      | EM   | T        | 18 050 40               | 12.6     | 5    | S      | B      |
| 14X7      | EM   | T        | 18 060 70               | 12.6     | 5    | S      | B      |
| 15A6      | GM   | T        | 15 271 36               | 14.0     | 5    | K      | B      |
| 15EA7     | GM   | T        | 78 450 60               | 14.0     | 5    | J      | D      |
| 15EA7     | GM   | T        | 78 120 30               | 14.0     | 50   | L      | B      |
| 15EW6     | GM   | T        | 13 156 27               | 14.0     | A    | G      | B      |
| 16A5      | GM   | T        | 15 279 30               | 20       | 50   | K      | B      |
| 16A5      | GM   | T        | 15 279 30               | 14.0     | 50   | K      | B      |
| 16A8      | GM   | T        | 15 367 20               | 14.0     | 50   | G      | B      |
| 16A8      | GM   | T        | 15 190 80               | 14.0     | 5    | N      | C      |
| 17AV5     | GM   | T        | 27 158 30               | 20       | 50   | J      | B      |
| 17BQ6     | GM   | T        | 12 5A4 80               | 20       | 50   | J      | C      |
| 17C5      | GM   | T        | 14 276 10               | 20       | 10   | N      | B      |
| 17CA5     | GM   | T        | 14 276 10               | 20       | 10   | K      | B      |
| 17DQ6     | GM   | T        | 27 5A4 80               | 20       | 50   | J      | B      |
| 17EW8     | GM   | T        | 15 760 80               | 20.0     | 5    | K      | B      |
| 17EW8     | GM   | T        | 15 210 30               | 20.0     | 5    | K      | B      |
| 17GW6     | GM   | T        | 27 5A4 80               | 20.0     | 50   | J      | B      |
| 17L6      | GM   | T        | 27 534 80               | 20.0     | C    | J      | B      |
| 17R5      | GM   | T        | 14 276 10               | 20.0     | 10   | N      | B      |
| 18A5      | GM   | T        | 27 158 30               | 20.0     | 50   | J      | C      |
| 18DZ8     | GM   | T        | 15 367 20               | 20.0     | D    | K      | B      |
| 18DZ8     | GM   | T        | 15 190 80               | 20.0     | 5    | K      | D      |
| 18FW6     | GM   | T        | 13 156 72               | 20.0     | B    | N      | C      |
| 18FX6     | GM   | T        | 13 156 27               | 20.0     | 5    | N      | D      |
| 18FX6     | GM   | T        | 13 160 27               | 20.0     | 5    | N      | B      |

| Meter setting |      |        |        | Shun | Press to test | Minimum limits | Notes  |
|---------------|------|--------|--------|------|---------------|----------------|--|
| Plate         | Bias | Screen | Sig V1 |      |               |                |  |
| 20 AC         | 0    | -----  | RL     | 50   | P2            | 50             | Diode #2.  |
| 200           | CCW  | 150    | RL     | 30   | P4            | 65             |  |
| 250           | 1.0  | -----  | RL     | 97   | P4            | 65             | Triode sect.   |
| 20 AC         | 0    |        | RL     | 21   | P2            | 50             | Diode #1.  |
| 20 AC         | 0    |        | RL     | 21   | P2            | 50             | Diode #2.  |
| 180           | 2.9  | 180    | RL     | 40   | P4            | 65             | Adj fil to 15.0.   |
| 250           | 3.0  | -----  | RL     | 50   | P4            | 65             | Triode #1. Adj fil to 14.8.  |
| 175           | 25.0 |        | RL     | 77   | P4            | 65             | Triode #2. Adj fil to 14.8.  |
| 150           | CCW  | 125    | RL     | 21   | P4            | 65             | Adj fil to 15.0.   |
| 170           | 10.4 | 170    | RL     | 46   | P4            | 65             | Adj fil to 16.5.   |
| 170           | 10.5 | 165    | RL     | 61   | P4            | 65             | Adj fil to 16.5.   |
|               |      |        |        |      |               |                | Disregard shorts test after GM test. Allow 10 second intervals for zeroing quality meter and 10 second intervals between attempts to zero quality meter. Allow 5 seconds to obtain GM reading. |
| 200           | 16.0 | 200    | RL     | 78   | P4            | 65             | Pentode sect. Adj fil to 16.0.   |
| 100           | 0    | -----  | RL     | 86   | P4            | 65             | Triode sect. Adj fil to 16.0.  |
| 250           | 22.5 | 150    | RL     | 95   | P4            | 65             | Adj fil to 16.8.   |
| 250           | 22.5 | 150    | RL     | 33   | P4            | 65             | Adj fil to 16.8.   |
| 100           | 6.0  | 100    | RL     | 61   | P4            | 65             | Adj fil to 16.8.   |
| 125           | 4.5  | 125    | RL     | 45   | P4            | 65             | Adj fil to 16.8.   |
| 250           | 22.5 | 150    | RL     | 87   | P4            | 65             | Adj fil to 16.8.   |
| 200           | 2.1  |        | RL     | 88   | P4            | 63             | Triode #1. Adj fil to 17.5.  |
| 200           | 2.1  | -----  | RL     | 88   | P4            | 63             | Triode #2. Adj fil to 17.5.  |
| 250           | 22.5 | 150    | RL     | 67   | P4            | 65             | Adj fil to 16.8.   |
|               |      |        |        |      |               |                | If tube oscillates, turn grid selector to "B." Connect a 1,000 $\omega$ $\frac{1}{2}$ W. carbon resistor between Pin 5 and top cap lead B.   |
| 200           | CCW  | 125    | RL     | 55   | P4            | 65             | Adj fil to 16.8.   |
| 100           | 6.5  | 100    | RL     | 66   | P4            | 65             | Adj fil to 16.8.   |
| 200           | 17.0 | 125    | RL     | 40   | P4            | 65             | Adj fil to 18.5.   |
| 145           | CCW  | 120    | RL     | 60   | P4            | 65             | Pentode sect. Adj fil to 18.0.   |
| 120           | 1.9  | -----  | RL     | 70   | P4            | 65             | Triode sect. Adj fil to 18.0.  |
| 110           | CCW  | 110    | RL     | 47   | P4            | 65             | Adj fil to 18.0.   |
| 110           | 3.7  | 110    | RL     | 78   | P4            | 65             | Ampl sect. Adj fil to 18.0.  |
| 100           | 0    | -----  | RL     | 73   | P4            | 65             | OSC sect. Adj fil to 18.0.   |

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range   |      |        |        |
|-----------|------|----------|-------------------------|---------|------|--------|--------|
|           |      |          |                         | Filamen | Bias | Pl SCR | Gm SIC |
| 18FY6     | GM   | T        | 43 170 20               | 20.0    | 5    | N      | D      |
| 18FY6     | EM   | T        | 43 060 20               | 20.0    | 5    | S      | B      |
| 18FY6     | EM   | T        | 43 050 20               | 20.0    | 5    | S      | B      |
| 18HB8     | GM   | T        | 45 976 80               | 20.0    | 10   | K      | C      |
| 18HB8     | GM   | T        | 45 130 20               | 20.0    | 5    | K      | C      |
| 19AQ5     | GM   | T        | 34 156 20               | 20      | 10   | K      | C      |
| 19BG6     | GM   | T        | 27 5A8 30               | 20      | 50   | G      | C      |
| 19C8      | GM   | T        | 45 890 70               | 20      | 5    | N      | D      |
| 19C8      | EM   | T        | 45 060 70               | 20      | 5    | S      | A      |
| 19C8      | EM   | T        | 45 020 30               | 20      | 5    | S      | A      |
| 19C8      | EM   | T        | 45 010 70               | 20      | 5    | S      | A      |
| 19CL8A    | GM   | T        | 45 967 80               | 20.0    | 5    | K      | B      |
| 19CL8A    | GM   | T        | 45 120 30               | 20.0    | A    | K      | B      |
| 19EA8     | GM   | T        | 45 263 70               | 20.0    | 5    | K      | B      |
| 19EA8     | GM   | T        | 45 910 80               | 20.0    | A    | K      | B      |
| 19EZ8     | GM   | T        | 45 980 40               | 20.0    | 5    | K      | C      |
| 19EZ8     | GM   | T        | 45 760 40               | 20.0    | 5    | K      | C      |
| 19EZ8     | GM   | T        | 45 230 10               | 20.0    | 5    | K      | C      |
| 19HV8     | GM   | T        | 45 967 80               | 20.0    | 5    | K      | B      |
| 19HV8     | GM   | T        | 45 120 30               | 20.0    | 5    | N      | D      |
| 19J6      | GM   | T        | 34 610 75               | 20      | B    | N      | B      |
| 19J6      | GM   | T        | 34 520 76               | 20      | B    | N      | B      |
| 20        | GM   | T        | 14 320 00               | 3.0     | 50   | M      | E      |
| 20EQ7     | GM   | T        | 45 276 31               | 20.0    | 5    | N      | C      |
| 20EQ7     | EM   | T        | 45 080 30               | 20.0    | 5    | S      | B      |
| 20EZ7     | GM   | T        | 12 870 90               | 20.0    | 5    | N      | B      |
| 20EZ7     | GM   | T        | 12 560 40               | 20.0    | 5    | N      | D      |
| 21A6      | GM   | T        | 45 2A7 31               | 20      | 50   | K      | B      |
| 21EX6     | GM   | T        | 72 5A8 30               | 20.0    | 50   | G      | B      |
| 25C5      | GM   | T        | 34 276 10               | 26      | 10   | N      | B      |
| 25CA5     | GM   | T        | 34 276 10               | 26      | 10   | K      | B      |
| 25CD6     | GM   | T        | 27 5A8 30               | 26      | 50   | K      | B      |
| 25CU6     | GM   | T        | 27 5A4 80               | 26      | 50   | J      | B      |
| 25DN6     | GM   | T        | 27 5A8 30               | 26      | 50   | K      | B      |
| 25DQ6     | GM   | T        | 27 5A4 80               | 26      | 50   | J      | B      |
| 25DT5     | GM   | T        | 45 391 70               | 25.0    | 50   | G      | C      |
| 25EC6     | GM   | T        | 27 5A8 30               | 26.0    | 50   | K      | B      |
| 25EH5     | GM   | T        | 34 276 10               | 25      | 10   | K      | B      |
| 25F5      | GM   | T        | 34 276 10               | 26      | 10   | N      | B      |

| Meter setting |      |       |         | h<br>unt | Press<br>to test | Mini-<br>num<br>imits | Notes  |
|---------------|------|-------|---------|----------|------------------|-----------------------|--|
| Plate         | Bias | creer | sig V F |          |                  |                       |  |
| 100           | 1.0  | ----  | RL      | 72       | P4               | 65                    | Triode sect. Adj fil to 18.0.  |
| 20 AC         | 0    | ----  | RL      | 48       | P2               | 50                    | Diode sect. Adj fil to 18.0.   |
| 20 AC         | 0    | ----  | RL      | 48       | P2               | 50                    | Diode sect. Adj fil to 18.0.   |
| 115           | 6.3  | 115   | RL      | 25       | P4               | 65                    | Pentode sect. Adj fil to 18.0.   |
| 115           | 1.0  | 115   | RL      | 50       | P4               | 65                    | Triode sect. Adj fil to 18.0.  |
| 180           | 8.5  | 180   | RL      | 54       | P4               | 65                    | Adj fil to 18.9.   |
| 250           | 22.0 | 250   | RL      | 51       | P4               | 65                    | Adj fil to 18.9.   |
| 100           | 1.0  | ----  | RL      | 80       | P4               | 65                    | Triode sect. Adj fil to 18.9.  |
| 20 AC         | 0    | ----  | RL      | 100      | P2               | 65                    | Diode #1. Adj fil to 18.9.   |
| 20 AC         | 0    | ----  | RL      | 100      | P2               | 65                    | Diode #2. Adj fil to 18.9.   |
| 20 AC         | 0    | ----  | RL      | 100      | P2               | 65                    | Diode #3. Adj fil to 18.9.   |
| 125           | 1.0  | 125   | RL      | 77       | P4               | 65                    | Tetrode sect. Adj fil to 18.9.   |
| 125           | .7   | ----  | RL      | 54       | P4               | 65                    | Triode sect. Adj fil to 18.9.  |
| 150           | 1.0  | 125   | RL      | 80       | P4               | 65                    | Pentode sect. Adj fil to 18.9.   |
| 150           | 0    | ----  | RL      | 50       | P4               | 65                    | Triode sect. Adj fil to 18.9.  |
| 125           | .3   | ----  | RL      | 47       | P4               | 65                    | Triode #1. Adj fil to 18.9.  |
| 125           | .3   | ----  | RL      | 47       | P4               | 65                    | Triode #2. Adj fil to 18.9.  |
| 125           | 1.0  | ----  | RL      | 47       | P4               | 65                    | Triode #3. Adj fil to 18.9.  |
| 125           | 1.0  | 125   | RL      | 75       | P4               | 65                    | Pentode sect. Adj fil to 18.9  |
| 100           | 1.0  | ----  | RL      | 68       | P4               | 65                    | Triode sect. Adj fil to 18.9.  |
| 100           | CCW  | ----  | RL      | 91       | P4               | 65                    | Triode #1. Adj fil to 18.9.  |
| 100           | CCW  | ----  | RL      | 91       | P4               | 65                    | Triode #2. Adj fil to 18.9.  |
| 135           | 22.5 | ----  | RL      | 34       | P4               | 65                    | Adj fil to 3.3.  |
| 100           | .6   | 100   | RL      | 52       | P4               | 65                    | Pentode sect.  |
| 20 AC         | 0    | ----  | RL      | 58       | P2               | 25                    | Triode sect.   |
| 100           | 1.0  | ----  | RL      | 77       | P4               | 65                    | Triode #1.   |
| 100           | 1.0  | ----  | RL      | 77       | P4               | 65                    | Triode #2.   |
| 180           | 23.0 | 180   | RL      | 70       | P4               | 65                    | Adj fil to 21.5.   |
| 175           | 30.0 | 175   | RL      | 43       | P4               | 63                    | Adj fil to 21.5. Tubes show-<br>ing shorts: Retest using<br>72 5A1 30. |
| 100           | 6.0  | 100   | RL      | 61       | P4               | 65                    | Adj fil to 25.0.   |
| 125           | 4.5  | 125   | RL      | 45       | P4               | 65                    | Adj fil to 25.0.   |
| 175           | 30.0 | 175   | RL      | 60       | P4               | 65                    | Adj fil to 25.0.   |
| 250           | 22.5 | 150   | RL      | 95       | P4               | 65                    | Adj fil to 25.0.   |
| 125           | 18.0 | 125   | RL      | 45       | P4               | 65                    | Adj fil to 25.0.   |
| 250           | 22.5 | 150   | RL      | 87       | P4               | 65                    | Adj fil to 25.0.   |
| 250           | 16.5 | 250   | RL      | 47       | P4               | 65                    |  |
| 135           | 22.5 | 135   | RL      | 62       | P4               | 65                    | Adj fil to 25.0.   |
| 115           | 4.8  | 110   | RL      | 49       | P4               | 65                    |  |
| 110           | 7.5  | 110   | RL      | 90       | P4               | 65                    | Adj fil to 25.0.   |

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| Tube type | Test | Function | Selectors<br>(L. to R.) | Range   |      |        |        |
|-----------|------|----------|-------------------------|---------|------|--------|--------|
|           |      |          |                         | Filamen | Bias | PI SCR | 3m SIC |
| 25W6      | 3M   | T        | 27 534 80               | 26      | C    | J      | B      |
| 27S       | 3M   | T        | 15 320 40               | 2.5     | 50   | G      | D      |
| 32ET5     | 3M   | T        | 43 276 10               | 35.0    | 10   | K      | B      |
| 34GD5     | 3M   | T        | 34 276 10               | 35.0    | 10   | N      | C      |
| 35        | 3M   | T        | 15 B23 40               | 2.5     | 5    | M      | D      |
| 35CD6     | 3M   | T        | 27 5A8 30               | 35      | 50   | K      | B      |
| 35DZ8     | 3M   | T        | 45 367 20               | 35      | D    | K      | B      |
| 35DZ8     | 3M   | T        | 45 190 80               | 35      | 5    | K      | D      |
| 35EH5     | 3M   | T        | 43 276 10               | 35.0    | 5    | K      | B      |
| 35GL6     | 3M   | T        | 34 275 10               | 35.0    | 50   | K      | B      |
| 35HB8     | 3M   | T        | 45 976 80               | 35.0    | 10   | K      | C      |
| 35HB8     | 3M   | T        | 45 130 20               | 35.0    | 5    | K      | C      |
| 35S       | 3M   | T        | 15 A23 40               | 2.5     | 5    | M      | D      |
| 40FR5     | 3M   | T        | 34 276 10               | 35.0    | 10   | N      | B      |
| 50BK5     | 3M   | T        | 45 318 60               | 50      | 10   | G      | B      |
| 50CD6     | 3M   | T        | 27 5A8 30               | 50      | 50   | K      | B      |
| 50EH5     | 3M   | T        | 34 276 10               | 50      | 10   | K      | B      |
| 50FA5     | 3M   | T        | 34 276 10               | 50.0    | 10   | N      | C      |
| 50FE5     | 3M   | T        | 72 534 80               | 50.0    | 50   | K      | B      |
| 50FK5     | 3M   | T        | 34 276 10               | 50.0    | B    | N      | B      |
| 60FX5     | 3M   | T        | 43 276 10               | 70.0    | 5    | K      | B      |
| 50FY8     | 3M   | T        | 45 367 20               | 50.0    | 50   | K      | B      |
| 50FY8     | 3M   | T        | 45 190 80               | 50.0    | 5    | M      | D      |
| HD51      | VR   | VR       | 00 001 70               | OFF     | 5    | G      | F      |
| HD51      | VR   | VR       | 00 001 70               | OFF     | 5    | H      | F      |
| 51/51S    | 3M   | T        | 15 B23 40               | 2.5     | 5    | M      | D      |
| KT66      | 3M   | T        | 27 534 81               | 6.3     | 50   | G      | B      |
| KT88      | 3M   | T        | 27 534 81               | 6.3     | 50   | G      | B      |
| V99       | 3M   | T        | 24 130 00               | 3.0     | 10   | N      | E      |
| X99       | 3M   | T        | 14 320 00               | 3.0     | 10   | N      | E      |
| 112A      | 3M   | T        | 14 320 00               | 5.0     | 50   | G      | C      |
| HY114     | 3M   | T        | 27 BA0 00               | 1.5     | 5    | G      | D      |
| 117M7     | 3M   | T        | 27 435 80               | 117     | 10   | N      | C      |
| 117M7     | EM   | T        | 27 060 10               | 117     | 5    | S      | A      |
| 117Z6GT   | EM   | T        | 72 030 40               | 117     | 5    | R      | A      |
| 117Z6GT   | EM   | T        | 72 050 80               | 117     | 5    | R      | A      |
| 150B2     | VR   | VR       | 00 001 20               | OFF     | 5    | G      | F      |
| 150B2     | VR   | VR       | 00 001 20               | OFF     | 5    | K      | F      |
| X-155     | 3M   | T        | 45 760 89               | 6.3     | B    | M      | B      |
| X-155     | 3M   | T        | 45 210 39               | 6.3     | B    | M      | B      |

| Meter setting |      |        |         | shunt | Press to test | Minimum inits | Notes                     |
|---------------|------|--------|---------|-------|---------------|---------------|---------------------------|
| Plate         | Bias | Screen | 5ig V I |       |               |               |                           |
| 200           | CCW  | 125    | RL      | 55    | P4            | 65            | Adj fil to 25.0.          |
| 250           | 21.0 | -----  | RL      | 79    | P4            | 65            |                           |
| 115           | 7.0  | 110    | RL      | 95    | P4            | 65            | Adj fil to 32.0.          |
| 110           | 6.6  | 110    | RL      | 27    | P4            | 65            | Adj fil to 34.0.          |
| 180           | 3.0  | 90     | RL      | 92    | P4            | 65            |                           |
| 175           | 30.0 | 175    | RL      | 60    | P4            | 65            |                           |
| 145           | CCW  | 120    | RL      | 60    | P4            | 65            | Pentode sect.             |
| 120           | 1.9  | -----  | RL      | 70    | P4            | 65            | Triode sect.              |
| 110           | 2.0  | 115    | RL      | 27    | P4            | 65            |                           |
| 110           | 7.5  | 110    | RL      | 62    | P4            | 63            |                           |
| 115           | 6.8  | 115    | RL      | 25    | P4            | 65            | Pentode sect.             |
| 115           | 1.0  | -----  | RL      | 50    | P4            | 65            | Triode sect.              |
| 180           | 3.0  | 90     | RL      | 92    | P4            | 65            |                           |
| 110           | 7.5  | 110    | RL      | 85    | P4            | 65            | Adj fil to 40.0.          |
| 250           | 5.0  | 250    | RL      | 52    | P4            | 65            |                           |
| 175           | 30.0 | 175    | RL      | 60    | P4            | 65            |                           |
| 115           | 4.8  | 110    | RL      | 49    | P4            | 65            |                           |
| 105           | 5.8  | 105    | RL      | 26    | P4            | 65            |                           |
| 130           | 11.0 | 130    | RL      | 40    | P4            | 65            |                           |
| 110           | 0    | 115    | RL      | 32    | P4            | 65            |                           |
| 115           | 3.2  | 115    | RL      | 22    | P4            | 65            | Adj fil to 60.0.          |
| 125           | 10   | 125    | RL      | 62    | P4            | 63            | Pentode sect.             |
| 125           | 1.5  |        | RL      | 33    | P4            | 63            | Triode sect.              |
| 30 MA         | 0    | -----  | FS      | 25    | P5            | 126           | Max. diff -4.5.           |
| 5 MA          | 0    | -----  | FS      | 25    | P5            | 105           | Min. diff -4.5.           |
| 180           | 3.0  | 90     | RL      | 93    | P4            | 65            |                           |
| 250           | 15.0 | 250    | RL      | 83    | P4            | 65            |                           |
| 250           | 25.0 | 250    | RL      | 61    | P4            | 63            |                           |
| 90            | 4.5  | -----  | RL      | 54    | P4            | 65            | Adj fil to 3.3.           |
| 90            | 4.5  |        | RL      | 54    | P4            | 65            | Adj fil to 3.3.           |
| 180           | 13.5 |        | RL      | 93    | P4            | 65            |                           |
| 180           | 4.0  |        | RL      | 75    | P4            | 65            | Right cap=P. Left cap= G. |
| 105           | 5.2  | 105    | RL      | 39    | P4            | 65            | Pentode sect.             |
| 20 AC         | 0    |        | RL      | 83    | P2            | 50            | Rect. sect.               |
| 35 AC         | 0    |        | RL      | 24    | P2            | 80            | Diode #2.                 |
| 35 AC         | 0    |        | RL      | 24    | P2            | 80            | Diode #1.                 |
| 15 MA         | 0    |        | FS      | 25    | P5            | 116           | Max. diff -4.             |
| 5 MA          | 0    |        | FS      | 25    | P5            | 107           | Min. diff -4.             |
| 125           | CCW  |        | RL      | 62    | P4            | 65            | Triode #1.                |
| 125           | CCW  | -----  | RL      | 62    | P4            | 65            | Triode #2.                |

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| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |        |
|-----------|------|----------|-------------------------|----------|------|--------|--------|
|           |      |          |                         | filament | Bias | PI SCR | 3m SIG |
| GL502     | TH   | VR       | 27 503 86               | 6.3      | 5    | J      | F      |
| CK502AX   | GM   | T        | 35 412 00               | 1.1      | 5    | Q      | E      |
| CK503AX   | GM   | T        | 35 412 00               | 1.1      | 5    | Q      | E      |
| CK506AX   | GM   | T        | 35 412 00               | 1.1      | 10   | Q      | E      |
| CK518AX   | GM   | T        | 35 412 00               | 1.1      | 5    | Q      | E      |
| CK535AX   | EM   | T        | 53 412 00               | 1.1      | 5    | S      | B      |
| CK541DX   | GM   | T        | 35 412 00               | 1.1      | 5    | Q      | E      |
| CK546DX   | EM   | T        | 53 412 00               | 1.5      | 5    | Q      | C      |
| CK547DX   | GM   | T        | 35 412 00               | 1.1      | 5    | Q      | E      |
| CK548DX   | GM   | T        | 35 412 00               | 1.1      | 5    | Q      | E      |
| CK573AX   | GM   | T        | 24 310 00               | 1.1      | 5    | N      | D      |
| 879       | EM   | T        | 14 0A0 00               | 2.5      | 5    | G      | A      |
| 829B      | GM   | T        | 71 6B3 40               | 12.6     | 50   | G      | B      |
| 829B      | GM   | T        | 71 2A3 4C               | 12.6     | 50   | G      | B      |
| 19AQ5     | GM   | T        | 34 156 2C               | 20       | 10   | K      | C      |
| 1007      | EM   | T        | 78 030 00               | 1.1      | 5    | G      | A      |
| 1007      | EM   | T        | 78 050 00               | 1.1      | 5    | G      | A      |
| E1148     | GM   | T        | 27 BA0 8C               | 6.3      | 10   | G      | C      |
| 1201      | GM   | T        | 28 130 4C               | 6.3      | 5    | G      | C      |
| 1203      | EM   | T        | 18 040 7C               | 6.3      | 5    | S      | B      |
| 1204      | GM   | T        | 27 531 4C               | 6.3      | 5    | M      | D      |
| 1206      | GM   | T        | 18 573 6C               | 6.3      | 5    | M      | C      |
| 1206      | GM   | T        | 18 423 67               | 6.3      | 5    | M      | C      |
| 1229      | GM   | T        | 14 B23 00               | 2.0      | 10   | M      | E      |
| 1230      | GM   | T        | 14 320 00               | 2.0      | 50   | G      | D      |
| 1232      | GM   | T        | 18 623 74               | 6.3      | 5    | M      | C      |
| 1273      | GM   | T        | 18 623 74               | 6.3      | 5    | N      | C      |
| 1280      | GM   | T        | 18 623 74               | 12.6     | 5    | N      | C      |
| 1282      | GM   | T        | 18 623 4C               | 6.3      | C    | H      | C      |
| 1291      | GM   | T        | 84 670 00               | 1.5      | 5    | M      | D      |
| 1291      | GM   | T        | 14 320 00               | 1.5      | 5    | M      | D      |
| 1299      | GM   | T        | 18 623 00               | 2.5      | 10   | N      | C      |
| 1602      | GM   | T        | 14 320 00               | 7.5      | 50   | G      | D      |
| 1610      | GM   | T        | 15 324 00               | 2.5      | 50   | G      | C      |
| 1611      | GM   | T        | 27 534 81               | 6.3      | 50   | G      | C      |
| 1642      | GM   | T        | 17 450 60               | 6.3      | 50   | G      | D      |
| 1642      | GM   | T        | 17 B30 20               | 6.3      | 50   | G      | D      |
| 1650      | GM   | T        | 16 430 70               | 6.3      | 10   | G      | C      |
| 1655      | GM   | T        | 78 450 60               | 6.3      | 5    | G      | D      |
| 1655      | GM   | T        | 78 320 60               | 6.3      | 5    | G      | D      |



| Meter setting |      |        |        | Shunt | Press to test | Minimum limits | Notes                       |
|---------------|------|--------|--------|-------|---------------|----------------|-----------------------------|
| Plate         | Bias | Screen | Sig V1 |       |               |                |                             |
| -----         | *5   | 150    | FS     | 50    | P5            | Bias           | Volts, 4 min, 2.8max.       |
| 45            | 1.88 | 40     | RL     | 56    | P4            | 65             | Adj fil to 1.25.            |
| 45            | 2.6  | 45     | RL     | 56    | P4            | 65             | Adj fil to 1.25.            |
| 45            | 5.1  | 45     | RL     | 46    | P4            | 65             | Adj fil to 1.25.            |
| 45            | 2.6  | 40     | RL     | 51    | P4            | 65             | Adj fil to 1.25.            |
| 20 AC         | 0    | -----  | RL     | 28    | P2, P3        | 65             | Adj fil to 1.25.            |
| 45            | 2.0  | 40     | RL     | 90    | P4            | 65             | Adj fil to 1.25.            |
| 50            | 1.7  | 50     | RL     | 95    | P5            | 63             | Adj fil to 1.25.            |
| 45            | 2.0  | 40     | RL     | 91    | P4            | 65             |                             |
| 40            | 3.0  | 35     | RL     | 80    | P4            | 65             |                             |
| 90            | 4.6  | -----  | RL     | 86    | P4            | 65             | Adj fil to 1.25.            |
| 130           | 0    | -----  | RL     | 24    | P2            | 50             |                             |
| 225           | 12   | 200    | RL     | 43    | P4            | 64             | Pentode #1 rt pin.          |
| 225           | 12   | 200    | RL     | 43    | P4            | 64             | Pentode #2 left pin.        |
| 180           | 8.5  | 180    | RL     | 54    | P4            | 65             | Adj fil to 1.8.9.           |
| 130           | 0    | -----  | -----  | 10    | P2            | 90             | Diode #1. Adj fil to 1.0.   |
| 130           | 0    | -----  | -----  | 10    | P2            | 90             | Diode #2. Adj fil to 1.0.   |
| 250           | 6.0  | -----  | RL     | 80    | P4            | 65             | Near cap=G. Far cap=P.      |
| 180           | 3.0  | -----  | RL     | 61    | P4            | 65             |                             |
| 20 AC         | 0    | -----  | RL     | 29    | P2            | 50             |                             |
| 225           | 2.0  | 100    | RL     | 60    | P4            | 65             |                             |
| 225           | 2.5  | 100    | RL     | 90    | P4            | 65             | Tetrode #1.                 |
| 225           | 2.5  | 100    | RL     | 90    | P4            | 65             | Tetrode #2.                 |
| 135           | 4.0  | 67.5   | RL     | 30    | P4            | 65             |                             |
| 180           | 14.5 | -----  | RL     | 87    | P4            | 65             |                             |
| 225           | 2.0  | 100    | RL     | 43    | P4            | 65             |                             |
| 100           | 1.0  | 100    | RL     | 85    | P4            | 65             |                             |
| 100           | 1.0  | 100    | RL     | 85    | P4            | 65             |                             |
| 200           | CCW  | 150    | RL     | 35    | P4            | 65             |                             |
| 135           | 1.5  | -----  | RL     | 56    | P4            | 65             | Triode #1. Adj fil to 1.4.  |
| 135           | 1.5  | -----  | RL     | 56    | P4            | 65             | Triode # 2. Adj fil to 1.4. |
| 90            | 5.9  | 90     | RL     | 46    | P4            | 65             | Adj fil to .8.              |
| 250           | 23.5 | -----  | RL     | 62    | P4            | 65             |                             |
| 250           | 16.3 | 250    | RL     | 79    | P4            | 65             |                             |
| 250           | 16.5 | 250    | RL     | 80    | P4            | 65             |                             |
| 250           | 16.5 | -----  | RL     | 57    | P4            | 65             | Triode #1.                  |
| 250           | 16.5 | -----  | RL     | 57    | P4            | 65             | Triode #2.                  |
| 250           | 7.0  | -----  | RL     | 62    | P4            | 65             |                             |
| 250           | 2.0  | -----  | RL     | 72    | P4            | 65             | Triode #1.                  |
| 250           | 2.0  | -----  | RL     | 72    | P4            | 65             | Triode #2.                  |

\* OK under 100 on percent quality meter. (Tube voltage drop measured.)

**TB 11-6625-316/12/1**

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |        |
|-----------|------|----------|-------------------------|----------|------|--------|--------|
|           |      |          |                         | filament | Bias | PI SCR | Gm SIG |
| 1657      | TH   | VR       | 27 503 86               | 6.3      | 5    | J      | F      |
| 1658      | GM   | T        | 14 320 00               | 2.0      | 50   | G      | E      |
| 1659      | GM   | T        | 16 B20 50               | 2.5      | 5    | G      | D      |
| 1659      | EM   | T        | 16 040 50               | 2.5      | 5    | S      | B      |
| 1659      | EM   | T        | 16 030 50               | 2.5      | 5    | S      | B      |
| 1662      | GM   | T        | 17 423 00               | 2.5      | 50   | J      | C      |
| 1852      | GM   | T        | 27 486 53               | 6.3      | C    | J      | B      |
| 1853      | GM   | T        | 27 486 53               | 6.3      | D    | H      | C      |
| 2050W     | TH   | VR       | 72 503 86               | 6.3      | 5    | L      | F      |
| 5516      | GM   | T        | 27 5A3 00               | 6.3      | 50   | G      | D      |
| 5556      | GM   | T        | 14 320 00               | 4.2      | 50   | G      | C      |
| 5608A     | GM   | T        | 17 560 40               | 2.5      | 10   | G      | C      |
| 5608A     | GM   | T        | 17 320 40               | 2.5      | 10   | G      | C      |
| 5610      | GM   | T        | 34 610 20               | 6.3      | 5    | N      | C      |
| 5618      | GM   | T        | 17 623 04               | 6.3      | 50   | M      | C      |
| 5633      | GM   | T        | 46 3A5 12               | 6.3      | C    | N      | C      |
| 5634      | GM   | T        | 46 3A5 12               | 6.3      | C    | N      | C      |
| 5635      | GM   | T        | 36 170 84               | 6.3      | B    | N      | C      |
| 5635      | GM   | T        | 36 250 84               | 6.3      | B    | N      | C      |
| 5637      | GM   | T        | 34 210 50               | 6.3      | E    | N      | C      |
| 5640      | GM   | T        | 36 157 20               | 6.3      | 10   | N      | C      |
| 5644*     | VR   | VR       | 00 001 40               | OFF      | 5    | G      | F      |
| 5644*     | VR   | VR       | 00 001 40               | OFF      | 5    | G      | F      |
| 5646      | GM   | T        | 35 410 20               | 6.3      | E    | N      | C      |
| 5659      | GM   | T        | 27 534 80               | 12.6     | 50   | G      | D      |
| 5680      | GM   | T        | 27 B36 80               | 12.6     | 5    | M      | C      |
| 5660      | EM   | T        | 27 050 80               | 12.6     | 5    | S      | B      |
| 5660      | EM   | T        | 27 040 80               | 12.6     | 5    | S      | B      |
| 5661      | GM   | T        | 27 486 53               | 12.6     | 5    | M      | C      |
| 5662      | TH   | VR       | 34 107 50               | 6.3      | 10   | L      | F      |
| 5675      | GM   | T        | 27 350 60               | 6.3      | A    | M      | B      |
| 5679      | EM   | T        | 18 060 75               | 6.3      | 5    | S      | B      |
| 5679      | EM   | T        | 18 030 25               | 6.3      | 5    | S      | B      |
| 5686      | GM   | T        | 45 276 10               | 6.3      | 10   | G      | C      |
| 5694      | GM   | T        | 27 430 10               | 6.3      | 10   | G      | C      |
| 5694      | GM   | T        | 27 560 80               | 6.3      | 10   | G      | C      |
| 5731      | GM   | T        | 16 430 70               | 6.3      | 10   | G      | C      |
| 5732      | GM   | T        | 27 B34 85               | 6.3      | 5    | M      | D      |
| 5742      | GM   | T        | 14 320 00               | 4.2      | 10   | G      | E      |

| Metersetting |      |        |        | Shunt | Press to test | Minimum limits | Notes   |
|--------------|------|--------|--------|-------|---------------|----------------|---|
| Plate        | Bias | Screen | Sig V1 |       |               |                |   |
| 180          | *5   | 150    | FS     | 50    | P5            | Bias           | Volts, 0.4 min., 2.8 max.   |
|              | 14.5 | -----  | RL     | 87    | P4            | 65             |   |
| 250          | 2.0  | -----  | RL     | 80    | P4            | 65             | Triode sect.  |
| 20 AC        | 0    | -----  | RL     | 94    | P2            | 65             | Diode #1.   |
| 20 AC        | 0    | -----  | RL     | 94    | P2            | 65             | Diode #2.   |
| 150          | 9.4  | 90     | RL     | 92    | P4            | 65             |   |
| 250          | CCW  | 150    | RL     | 47    | P4            | 65             |   |
| 250          | CCW  | 200    | RL     | 42    | P4            | 65             |   |
|              | *5   | 135    | FS     | 50    | P5            | Bias           | Volts, 1.5 min., 3.0.   |
| 250          | 19.0 | 250    | RL     | 70    | P4            | 65             |   |
| 250          | 20.0 | -----  | RL     | 83    | P4            | 65             | Adj fil to 4.5.   |
| 250          | 5.0  | -----  | RL     | 57    | P4            | 65             | Triode #1.  |
| 250          | 5.0  | -----  | RL     | 57    | P4            | 65             | Triode #2.  |
| 90           | 1.5  | -----  | RL     | 53    | P4            | 65             |   |
| 175          | 10.0 | 75     | RL     | 87    | P4            | 65             |   |
| 100          | CCW  | 100    | RL     | 63    | P4            | 65             |   |
| 100          | CCW  | 100    | RL     | 62    | P4            | 65             |   |
| 100          | CCW  | -----  | RL     | 52    | P4            | 65             | Triode #1.  |
| 100          | CCW  | -----  | RL     | 52    | P4            | 65             | Triode #2.  |
| 60           | CCW  | -----  | RL     | 58    | P4            | 65             |   |
| 100          | 9.0  | 100    | RL     | 40    | P4            | 65             |   |
| 25 MA        | 0    | -----  | FS     | 50    | P5            | 105            | Max. Max. diff -5.0.  |
| 5 MA         | 0    | -----  | FS     | 50    | P5            | 85             | Min. Max. diff -5.0.  |
| 75           | CCW  | -----  | RL     | 83    | P4            | 65             |   |
| 250          | 12.5 | 250    | RL     | 70    | P4            | 65             |   |
| 225          | 3.0  | 125    | RL     | 77    | P4            | 65             | Pentode sect.   |
| 20 AC        | 0    | -----  | RL     | 60    | P2            | 50             | Diode #1.   |
| 20 AC        | 0    | -----  | RL     | 60    | P2            | 50             | Diode #2.   |
| 225          | 3.0  | 100    | RL     | 91    | P4            | 65             |   |
| -----        | 10   | 125    | FS     | 25    | P5            | Bias           | Volts, 0.7 min., 5.7 max.<br>Use Hickok adapter code No.<br>1050-121 max. |
| 125          | CCW  | -----  | RL     | 80    | P4            | 65             |   |
| 20 AC        | 0    | -----  | RL     | 25    | P2            | 50             | Diode #1.   |
| 20 AC        | 0    | -----  | RL     | 25    | P2            | 50             | Diode #2.   |
| 225          | 9.0  | 225    | RL     | 55    | P4            | 70             |   |
| 250          | 3.0  | -----  | RL     | 74    | P4            | 65             | Triode #1.  |
| 250          | 3.0  | -----  | RL     | 74    | P4            | 65             | Triode #2.  |
| 250          | 7.0  | -----  | RL     | 82    | P4            | 65             |   |
| 225          | 3.0  | 125    | RL     | 67    | P4            | 65             |   |
| 250          | 8.2  | -----  | RL     | 28    | P4            | 65             | Adj fil to 4.5.   |

\* OK under 100 on percent quality meter. (Tube voltage drop measured.)

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |         |
|-----------|------|----------|-------------------------|----------|------|--------|---------|
|           |      |          |                         | Filament | Disc | Pl SCR | Gen. MG |
| 5812      | GM   | T        | 34 155 02               | 6.3      | 50   | G      | C       |
| 5824      | GM   | T        | 27 534 50               | 26       | 50   | K      | B       |
| 5825      | EM   | T        | 14 0A9 00               | 1.5      | 5    | G      | B       |
| 5829      | EM   | T        | 35 090 70               | 6.3      | 5    | S      | A       |
| 5829      | EM   | T        | 35 090 70               | 6.3      | 5    | S      | A       |
| 5844      | GM   | T        | 34 120 70               | 6.3      | E    | N      | C       |
| 5844      | GM   | T        | 34 620 70               | 6.3      | E    | N      | C       |
| 5847      | GM   | T        | 39 108 40               | 6.3      | E    | N      | B       |
| 5876      | GM   | T        | 27 530 60               | 6.3      | B    | J      | B       |
| 5881      | GM   | T        | 27 534 50               | 6.3      | 50   | G      | B       |
| 5897      | GM   | T        | 36 190 50               | 6.3      | C    | N      | B       |
| 5900      | GM   | T        | 36 257 20               | 6.3      | B    | N      | C       |
| 5920      | GM   | T        | 43 120 70               | 6.3      | 5    | N      | C       |
| 5920      | GM   | T        | 43 090 70               | 6.3      | 5    | N      | C       |
| 5965      | GM   | T        | 45 700 30               | 12.6     | D    | M      | B       |
| 5965      | GM   | T        | 45 290 30               | 12.6     | D    | M      | B       |
| 5967      | GM   | T        | 24 090 00               | 1.2      | 5    | Q      | D       |
| 5967      | GM   | T        | 75 590 00               | 1.2      | 5    | Q      | D       |
| 6012      | TH   | VR       | 27 305 10               | 6.3      | 10   | L      | F       |
| 6026      | GM   | T        | 45 700 30               | 6.3      | D    | M      | B       |
| 6055      | GM   | T        | 36 180 30               | 26       | 5    | Q      | C       |
| 6084      | GM   | T        | 45 061 30               | 6.3      | 5    | M      | D       |
| 6085      | GM   | T        | 45 700 30               | 12.6     | 10   | G      | C       |
| 6085      | GM   | T        | 45 290 30               | 12.6     | 10   | G      | C       |
| 6096      | GM   | T        | 34 155 20               | 6.3      | 5    | K      | C       |
| 6101      | GM   | T        | 34 130 70               | 6.3      | B    | N      | B       |
| 6101      | GM   | T        | 34 620 70               | 6.3      | B    | N      | B       |
| 6113      | GM   | T        | 78 450 02               | 6.3      | 5    | G      | D       |
| 6113      | GM   | T        | 78 120 30               | 6.3      | 5    | G      | D       |
| 6121      | GM   | T        | 27 465 30               | 6.3      | D    | J      | B       |
| 6137      | GM   | T        | 27 486 50               | 6.3      | C    | J      | B       |
| 6140      | VR   | VR       | 00 097 30               | OFF      | 5    | H      | F       |
| 6140      | VR   | VR       | 00 408 30               | OFF      | 5    | H      | F       |
| 6148      | GM   | T        | 34 702 00               | 6.3      | D    | K      | F       |
| 6152      | GM   | T        | 45 300 30               | 6.3      | E    | L      | C       |
| 6159      | GM   | T        | 27 5A3 30               | 26       | 50   | K      | B       |
| 6169      | GM   | T        | 36 120 30               | 6.3      | 5    | N      | B       |
| 6197      | GM   | T        | 45 308 10               | 6.3      | 5    | J      | B       |
| 6201      | GM   | T        | 45 700 30               | 12.6     | E    | N      | C       |
| 6201      | GM   | T        | 45 210 30               | 12.6     | E    | N      | C       |

| Meter setting |       |        |        | h     | h     | Press to test | Minimum limits | Notes  |
|---------------|-------|--------|--------|-------|-------|---------------|----------------|--|
| Plate         | Bias  | Screen | sig VF |       |       |               |                |  |
| 100           | 0CW   |        | RL     | 90    | P4    |               | 65             |  |
| 100           | 1.6   | -----  | RL     | 95    | P4    |               | 65             |  |
| 100           | 0CW   | 100    | RL     | 40    | P4    |               | 65             |  |
| 100           | 1.1   | 100    | RL     | 43    | P4    |               | 63             |  |
| 200           | 3.3   | 200    | RL     | 43    | P4    |               | 63             |  |
| 180           |       |        | RL     | 65    | P4    |               | 70             |  |
| 250           | 15.0  | 250    | RL     | 34    | P4    |               | 65             | "A" lead to left cap tetrode #1.   |
| 250           | 15.0  | 250    | RL     | 34    | P4    |               | 65             | "A" lead to right cap tetrode #2.  |
| 200           | 0CW   | -----  | RL     | 68    | P4    |               | 65             | Adj fil to 6.0. Use Hickok adapter code No. 1050-121.  |
| 200           | 0CW   | -----  | RL     | 73    | P4    |               | 65             | Adj fil to 6.0. Use Hickok adapter code No. 1050-121.  |
| 250           | 0CW   | 150    | RL     | 44    | P4    |               | 65             |  |
| 250           | 2.0   | 140    | RL     | 90    | P4    |               | 65             |  |
| -----         | ----- | -----  | -----  | ----- | ----- |               | -----          | Special adapter required which is not available and special high-frequency test should be performed. |
| 70            | 3.0   | -----  | RL     | 50    | P4    |               | 60             | Adj fil to 1.25.   |
| 150           | 30.0  | 145    | RL     | 45    | P4    |               | 65             |  |
| 1.5 MA        | 0     | -----  | FS     | 50    | P5    |               | 82             | Min. Max diff -3.0   |
| 3.5 MA        | 0     | -----  | FS     | 50    | P5    |               | 92             | Max. Max diff -3.0.  |
| 1.5 MA        | 0     | -----  | FS     | 50    | P5    |               | 63             | Max. Max diff -1.0.  |
| .2 MA         | 0     | -----  | FS     | 50    | P5    |               | 50             | Min. Max diff -1.0.  |
| 150           | 5.0   | -----  | RL     | 37    | P4    |               | 65             | Triode #1.   |
| 150           | 5.0   | -----  | RL     | 37    | P4    |               | 65             | Triode #2.   |
| 15 MA         | 0     | -----  | FS     | 2½    | P5    |               | 116            | Max. Max diff -4.  |
| 5 MA          | 0     | -----  | FS     | 2½    | P5    |               | 107            | Min. Max diff -4.  |
| 180           | 0     | 180    | RL     | (     | P4    |               | -----          | Eye 1 open, eye 2 closed.  |
| 180           | 0     | 180    | RL     | (     | P4    |               | -----          | Eye 2 open, eye 1 closed.  |
| 200           | 21.5  | 200    | RL     | 61    | P4    |               | 65             | Tetrode #1.<br>Connect negative (-) end of 30 V battery to pin 1 of octal socket.                    |

\* OK under 100 on percent quality meter. (Tube voltage drop measured.)

**TB 11-6625-316-12/1**

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range |        |       |       |
|-----------|------|----------|-------------------------|-------|--------|-------|-------|
|           |      |          |                         | Bias  | PI SCR | Gm    | SIG   |
| 6360      | GM   | T        | 45 167 20               | 12.6  | 50     | G     | C     |
| 6386      | GM   | T        | 19 760 85               | 6.3   | D      | N     | C     |
| 6386      | GM   | T        | 19 340 25               | 6.3   | D      | N     | C     |
| 6414*     | GM   | T        | 54 760 80               | 12.6  | 5      | M     | B     |
| 6414*     | GM   | T        | 54 210 30               | 12.6  | 5      | M     | B     |
| 6417      | GM   | T        | 45 916 73               | 12.6  | 50     | G     | C     |
| 6463      | GM   | T        | 45 860 70               | 12.6  | C      | M     | B     |
| 6463      | GM   | T        | 45 310 20               | 12.6  | C      | M     | B     |
| 6485      | GM   | T        | 34 156 72               | 6.3   | C      | J     | B     |
| 6519      | EM   | T        | 53 412 00               | 1.5   | 5      | Q     | C     |
| 6533*     | GM   | T        | 76 210 50               | 6.3   | 5      | M     | C     |
| 6540      | GM   | T        | 34 712 65               | 6.3   | D      | K     | C     |
| 6542      | VR   | VR       | 00 003 10               | OFF   | 5      | G     | F     |
| 6542      | VR   | VR       | 00 003 50               | OFF   | 5      | G     | F     |
| 6550      |      | -----    |                         | ----- | -----  | ----- | ----- |
| 6626      | VR   | VR       | 30 001 70               | OFF   | 5      | G     | F     |
| 6626      | VR   | VR       | 30 001 70               | OFF   | 5      | H     | F     |
| 6660      | GM   | T        | 34 156 72               | 6.3   | A      | N     | C     |
| 6661      | GM   | T        | 34 156 27               | 6.3   | B      | J     | C     |
| 6662      | GM   | T        | 34 156 27               | 6.3   | B      | M     | C     |
| 6663      | EM   | T        | 34 070 10               | 6.3   | 5      | S     | A     |
| 6663      | EM   | T        | 34 020 50               | 6.3   | 5      | S     | A     |
| 6669      | GM   | T        | 34 156 20               | 6.3   | 50     | G     | C     |
| 6677      | GM   | T        | 45 263 17               | 6.3   | 5      | J     | B     |
| 6678      | GM   | T        | 45 263 70               | 6.3   | A      | J     | B     |
| 6678      | GM   | T        | 45 910 80               | 6.3   | A      | G     | B     |
| 6679      | GM   | T        | 45 760 81               | 12.6  | D      | G     | B     |
| 6679      | GM   | T        | 45 210 36               | 12.6  | D      | G     | B     |

| Meter setting |       |        |        | 3hnt  | Press to test | Minimum limits | Notes  |
|---------------|-------|--------|--------|-------|---------------|----------------|--|
| Plate         | Bias  | Screen | Sig V1 |       |               |                |  |
| 100           | CCW   | -----  | RL     | 90    | P4            | 65             |  |
| 100           | 1.6   | -----  | RL     | 95    | P4            | 65             |  |
| 100           | CCW   | 100    | RL     | 40    | P4            | 65             |  |
| 100           | 1.1   | 100    | RL     | 43    | P4            | 63             |  |
| 200           | 3.3   | 200    | RL     | 43    | P4            | 63             |  |
| 180           | ----- | -----  | RL     | 65    | P4            | 70             |  |
| 250           | 15.0  | 250    | RL     | 34    | P4            | 65             | "A" lead to left cap tetrode #1.   |
| 250           | 15.0  | 250    | RL     | 34    | P4            | 65             | "A" lead to right cap tetrode #2.  |
| 200           | CCW   | -----  | RL     | 68    | P4            | 65             | Adj fil to 6.0. Use Hickok adapter code No. 1050-121.  |
| 200           | CCW   | -----  | RL     | 73    | P4            | 65             | Adj fil to 6.0. Use Hickok adapter code No. 1050-121.  |
| 250           | CCW   | 130    | RL     | 44    | P4            | 65             |  |
| 250           | 2.0   | 140    | RL     | 90    | P4            | 65             |  |
| -----         | ----- | -----  | -----  | ----- | -----         | -----          | Special adapter required which is not available and special high-frequency test should be performed. |
| 70            | 3.0   | -----  | RL     | 50    | P4            | 60             | Adj fil to 1.25.   |
| 150           | 30.0  | 145    | RL     | 45    | P4            | 65             |  |
| 1.5 MA        | 0     | -----  | FS     | 50    | P5            | 82             | Min. Max diff -3.0   |
| 3.5 MA        | 0     | -----  | FS     | 50    | P5            | 92             | Max. Max diff -3.0.  |
| 1.5 MA        | 0     | -----  | FS     | 50    | P5            | 63             | Max. Max diff -1.0.  |
| .2 MA         | 0     | -----  | FS     | 50    | P5            | 50             | Min. Max diff -1.0.  |
| 150           | 5.0   | -----  | RL     | 37    | P4            | 65             | Triode #1.   |
| 150           | 5.0   | -----  | RL     | 37    | P4            | 65             | Triode #2.   |
| 15 MA         | 0     | -----  | FS     | 25    | P5            | 116            | Max. Max diff -4.  |
| 5 MA          | 0     | -----  | FS     | 25    | P5            | 107            | Min. Max diff -4.  |
| 180           | 0     | 180    | RL     | 0     | P4            | -----          | Eye 1 open, eye 2 closed.  |
| 180           | 0     | 180    | RL     | 0     | P4            | -----          | Eye 2 open, eye 1 closed.  |
| 200           | 21.5  | 200    | RL     | 61    | P4            | 63             | Tetrode #1.  |
|               |       |        |        |       |               |                | Connect negative (-) end of 30 V battery to pin 1 of local socket.                                   |

\* OK under 100 on percent quality meter. (Tube voltage drop measured.)

**TB 11-6625-316-12/1**

| Tube type | Test | Funcio | Selectors<br>(L. to R.) | Range   |      |        |        |
|-----------|------|--------|-------------------------|---------|------|--------|--------|
|           |      |        |                         | Filamen | Bias | Pl SCR | Gm SIG |
| 6360      | GM   | T      | 45 167 20               | 12.6    | 50   | G      | C      |
| 6386      | GM   | T      | 19 760 85               | 6.3     | D    | N      | C      |
| 6386      | GM   | T      | 19 340 25               | 6.3     | D    | N      | C      |
| 6414*     | GM   | T      | 54 760 80               | 12.6    | 5    | M      | B      |
| 6414*     | GM   | T      | 54 210 30               | 12.6    | 5    | M      | B      |
| 6417      | GM   | T      | 45 916 73               | 12.6    | 50   | G      | C      |
| 6463      | GM   | T      | 45 860 70               | 12.6    | C    | M      | B      |
| 6463      | GM   | T      | 45 310 20               | 12.6    | C    | M      | B      |
| 6485      | GM   | T      | 34 156 72               | 6.3     | C    | J      | B      |
| 6519      | EM   | T      | 53 412 00               | 1.5     | 5    | Q      | C      |
| 6533*     | GM   | T      | 76 210 50               | 6.3     | 5    | M      | C      |
| 6540      | GM   | T      | 34 712 65               | 6.3     | D    | K      | C      |
| 6542      | VR   | VR     | 00 003 10               | OFF     | 5    | G      | F      |
| 6542      | VR   | VR     | 00 003 50               | OFF     | 5    | G      | F      |
| 6550      |      | -----  |                         | -----   |      |        | -----  |
| 6626      | VR   | VR     | 00 001 70               | OFF     | 5    | G      | F      |
| 6626      | VR   | VR     | 00 001 70               | OFF     | 5    | H      | F      |
| 6660      | GM   | T      | 34 156 72               | 6.3     | A    | N      | C      |
| 6661      | GM   | T      | 34 156 27               | 6.3     | B    | J      | C      |
| 6662      | GM   | T      | 34 156 27               | 6.3     | B    | M      | C      |
| 6663      | EM   | T      | 34 070 10               | 6.3     | 5    | S      | A      |
| 6663      | EM   | T      | 34 020 50               | 6.3     | 5    | S      | A      |
| 6669      | GM   | T      | 34 156 20               | 6.3     | 50   | G      | C      |
| 6677      | GM   | T      | 45 263 17               | 6.3     | 5    | J      | B      |
| 6678      | GM   | T      | 45 263 70               | 6.3     | A    | J      | B      |
| 6678      | GM   | T      | 45 910 80               | 6.3     | A    | G      | B      |
| 6679      | GM   | T      | 45 760 81               | 12.6    | D    | G      | B      |
| 6679      | GM   | T      | 45 210 36               | 12.6    | D    | G      | B      |



| Meter setting |       |        |       | Shunt | Press to test | Minimum limits | Notes   |
|---------------|-------|--------|-------|-------|---------------|----------------|---|
| Plate         | Bias  | Screen | sig V |       |               |                |   |
| 200           | 21.5  | 200    | RL    | 61    | P4            | 63             | Tetrode #2.<br>Connect negative (-) end of 30 V battery to pin 3 of loctal socket.<br>Connect positive (+) end of 30 V battery to pin 2 of loctal socket for each test.<br><b>Caution: Disconnect battery between selector changes.</b> |
| 100           | CCW   |        | RL    | 46    | P4            | 65             | Triode #1.  |
| 100           | CCW   |        | RL    | 46    | P4            | 65             | Triode #2.  |
| 180           | 2.3   |        | RL    | 95    | P4            | 65             | Triode #1.  |
| 180           | 2.3   |        | RL    | 95    | P4            | 65             | Triode #2.  |
| 250           | 10.0  | 250    | RL    | 41    | P4            | 65             |   |
| 150           | CCW   | -----  | RL    | 77    | P4            | 65             | Triode #1.  |
| 150           | CCW   |        | RL    | 177   | P4            | 65             | Triode #2.  |
| 250           | CCW   | 150    | RL    | 47    | P4            | 65             |   |
| 50            | 1.7   | 50     | RL    | 95    | P5            | 63             | Adj fl to 1.25.   |
| 120           | 1.7   |        | RL    | 94    | P4            | 65             |   |
| 135           | CCW   | 120    | RL    | 31    | P4            | 65             |   |
| 25 MA         | 0     | -----  | FS    | 25    | P5            | 125            | Max. Max diff = 1.25 divisions on quality meter.  |
| 25 MA         | 0     | -----  | FS    | 25    | P5            | 105            | Min. Leads are numbered 1, 3, 5,—outside leads are cathode.   |
| -----         | ----- | -----  | ----- | ----- | -----         | -----          | Test requirements beyond tester capabilities.   |
| 30 MA         | 0     | -----  | FS    | 25    | P5            | 126            | Max. Max diff -4.5.   |
| 5 MA          | 0     | -----  | FS    | 25    | P5            | 105            | Min. Max diff -4.5.   |
| 100           | CCW   | 100    | RL    | 47    | P4            | 65             |   |
| 250           | CCW   | 150    | RL    | 46    | P4            | 65             |   |
| 225           | CCW   | 100    | RL    | 60    | P4            | 65             |   |
| 20 AC         | 0     | 0      | RL    | 66    | P2            | 50             | Diode #1.   |
| 20 AC         | 0     | 0      | RL    | 66    | P2            | 50             | Diode #2.   |
| 250           | 12.5  | 250    | RL    | 48    | P4            | 65             |   |
| 250           | 3.0   | 150    | RL    | 32    | P4            | 65             |   |
| 250           | CCW   | 135    | RL    | 95    | P4            | 65             | Pentode sect.   |
| 150           | CCW   |        | RL    | 53    | P4            | 65             | Triode sect.  |
| 250           | CCW   |        | RL    | 87    | P4            | 65             | Triode #1.  |
| 250           | CCW   |        | RL    | 87    | P4            | 65             | Triode #2.  |

\*OK unc 100 on percent quality meter. (tube voltage drop measured.)

TM 11-6625-316-12/1

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |        |
|-----------|------|----------|-------------------------|----------|------|--------|--------|
|           |      |          |                         | Filament | Bias | PI SCR | Gm SIC |
| 6680      | GM   | Γ        | 45 760 81               | 12.6     | 10   | J      | C      |
| 6680      | GM   | Γ        | 45 210 36               | 12.6     | 10   | J      | C      |
| 6681      | GM   | Γ        | 45 760 81               | 12.6     | 5    | N      | D      |
| 6681      | GM   | Γ        | 45 210 36               | 12.6     | 5    | N      | D      |
| 6686      | GM   | Γ        | 45 278 39               | 6.3      | 5    | G      | B      |
| 6688      | GM   | Γ        | 45 279 18               | 6.3      | 5    | G      | A      |
| 6689      | GM   | Γ        | 45 261 39               | 6.3      | 5    | J      | B      |
| 6690      | GM   | Γ        | 36 750 80               | 6.3      | B    | N      | C      |
| 6690      | GM   | Γ        | 36 210 40               | 6.3      | B    | N      | C      |
| 6761      | GM   | Γ        | 45 217 30               | 6.3      | 50   | G      | B      |
| 6788      | GM   | Γ        | 36 187 20               | 6.3      | D    | N      | D      |
| 6814      | GM   | Γ        | 36 180 50               | 6.3      | C    | N      | C      |
| 6832*     | GM   | Γ        | 36 780 50               | 6.3      | 5    | N      | D      |
| 6832*     | GM   | Γ        | 36 210 40               | 6.3      | 5    | N      | D      |
| 6850      | GM   | Γ        | 53 6A1 40               | 12.6     | 10   | K      | C      |
| 6850      | GM   | Γ        | 53 2A1 40               | 12.6     | 10   | K      | C      |
| 6872      | GM   | Γ        | 34 712 65               | 6.3      | 5    | K      | C      |
| 6877*     | GM   | Γ        | 53 140 80               | 6.3      | 50   | P      | B      |
| 6887      | EM   | Γ        | 43 070 10               | 6.3      | 5    | S      | A      |
| 6887      | EM   | Γ        | 43 020 50               | 6.3      | 5    | S      | A      |
| 6883      | GM   | Γ        | 27 5A3 18               | 12.6     | 50   | K      | B      |
| 6888      | GM   | Γ        | 27 496 63               | 6.3      | 10   | J      | C      |
| 6907      | GM   | Γ        | 17 2A3 40               | 12.6     | 50   | G      | D      |
| 6907      | GM   | Γ        | 17 6A3 40               | 12.6     | 50   | G      | D      |

| Meter setting |      |        |        | Shunt | Press to test | Minimum limits | Notes   |
|---------------|------|--------|--------|-------|---------------|----------------|---|
| Plate         | Bias | Screen | Sig VR |       |               |                |   |
| 225           | 8.5  |        | RL     | 80    | P4            | 65             | Triode #1.  |
| 225           | 8.5  |        | RL     | 80    | P4            | 65             | Triode #2.  |
| 100           | 1.0  |        | RL     | 82    | P4            | 65             | Triode #1.  |
| 100           | 1.0  |        | RL     | 82    | P4            | 65             | Triode #2.  |
| 210           | 3.0  | 210    | RL     | 30    | P4            | 65             |   |
| 180           | 1.0  | 150    | RL     | 90    | P4            | 65             |   |
| 210           | 2.1  | 120    | RL     | 43    | P4            | 63             |   |
| 100           | CCW  |        | RL     | 40    | P4            | 65             | Triode #1.  |
| 100           | CCW  |        | RL     | 40    | P4            | 65             | Triode #2.  |
| 140           | 7.0  | 120    | RL     | 25    | P4            | 65             |   |
| 100           | CCW  | 100    | RL     | 82    | P4            | 65             |   |
| 100           | CCW  |        | RL     | 35    | P4            | 65             |   |
| 100           | 3.9  |        | RL     | 81    | P4            | 63             | Triode #1.  |
| 100           | 3.9  |        | RL     | 81    | P4            | 63             | Triode #2.  |
| 200           | 6.6  | 200    | RL     | 43    | P4            | 63             | Cap above octal pins 2 and 3 = A. Connect negative (-) end of a 30 V battery to pin 2 of octal socket.  |
| 200           | 6.6  | 200    | RL     | 43    | P4            | 63             | Cap above octal pins 6 and 7 = A. Use Hickok adapter code No. 1050-107. Connect negative (-) end of a 30 V battery to pin 6 of octal socket. Connect positive (+) end of the 30 V battery to pin 4 of octal socket for each test. |
|               |      |        |        |       |               |                | <b>Caution: Disconnect battery (Eveready 413) between selector changes.</b>   |
| 120           | 2.2  | 120    | RL     | 48    | P4            | 65             |   |
| 100           | 10.0 |        | RL     | 78    | P4            | 65             |   |
| 20 AC         | 0    |        | RL     |       | P2            | 50             | Diode #1.   |
| 20 AC         | 0    |        | RL     |       | P2            | 50             | Diode #2.   |
| 200           | 30.0 | 200    | RL     | 68    | P4            | 65             |   |
| 150           | 4.0  | 90     | RL     | 60    | P4            | 65             |   |
| 250           | 15.0 | 250    | RL     | 34    | P4            | 65             | 'A' lead to left cap tetrode #1.  |
| 250           | 15.0 | 250    | RL     | 34    | P4            | 65             | 'A' lead to right cap tetrode #2.   |

\*OK under 100 on percent quality meter. (Tube voltage drop measured.)

**TB 11-6625-316-12/1**

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range  |      |        |        |
|-----------|------|----------|-------------------------|--------|------|--------|--------|
|           |      |          |                         | Flamem | Bias | PI SCR | Gm SIG |
| 6919      | EM   | Γ        | 34 070 16               | 6.3    | 5    | S      | A      |
| 6919      | EM   | Γ        | 34 020 56               | 6.3    | 5    | S      | A      |
| 6922      | GM   | Γ        | 45 210 30               | 6.3    | 5    | N      | B      |
| 6922      | GM   | Γ        | 45 760 80               | 6.3    | 5    | N      | B      |
| 6939*     | GM   | Γ        | 54 387 20               | 12.6   | 5    | H      | D      |
| 6939*     | GM   | Γ        | 54 167 20               | 12.6   | 5    | H      | D      |
| 6943      | GM   | Γ        | 36 157 24               | 6.3    | C    | K      | C      |
| 6944      | GM   | Γ        | 36 157 24               | 6.3    | C    | K      | C      |
| 6945      | GM   | Γ        | 36 157 20               | 6.3    | D    | N      | C      |
| 6946      | GM   | Γ        | 36 180 50               | 6.3    | D    | N      | C      |
| 6947      | GM   | Γ        | 36 780 50               | 6.3    | E    | M      | C      |
| 6947      | GM   | Γ        | 36 210 40               | 6.3    | E    | M      | C      |
| 6948      | GM   | Γ        | 36 780 50               | 6.3    | E    | N      | C      |
| 6948      | GM   | Γ        | 36 210 40               | 6.3    | E    | N      | C      |
| 6954      | GM   | Γ        | 34 156 27               | 6.3    | 5    | K      | C      |
| 6954      | GM   | Γ        | 34 756 21               | 6.3    | 5    | K      | D      |
| 6973      | GM   | Γ        | 45 391 70               | 6.3    | 50   | G      | C      |
| 7025      | GM   | Γ        | 54 760 80               | 12.6   | 5    | J      | D      |
| 7025      | GM   | Γ        | 54 210 30               | 12.6   | 5    | J      | D      |
| 7027      | GM   | Γ        | 27 531 80               | 6.3    | 50   | G      | C      |
| 7036      | EM   | Γ        | 34 156 27               | 6.3    | 5    | S      | A      |
| 7044      | GM   | Γ        | 45 790 60               | 12.6   | 5    | M      | B      |
| 7044      | GM   | Γ        | 45 210 30               | 12.6   | 5    | M      | B      |
| 7054      | GM   | Γ        | 45 278 13               | 12.6   | A    | J      | B      |
| 7055      | EM   | Γ        | 34 070 16               | 12.6   | 5    | S      | A      |
| 7055      | EM   | Γ        | 34 020 56               | 12.6   | 5    | S      | A      |
| 7056      | GM   | Γ        | 34 156 27               | 12.6   | D    | H      | B      |

| Meter setting |      |        |       |    | Press<br>to test | Minimum<br>limits | Notes  |
|---------------|------|--------|-------|----|------------------|-------------------|--|
| Plate         | Bias | Screen | Sig V |    |                  |                   |  |
| 20 AC         | 0    | -----  | RL    | 95 | P2               | 50                | Diode #1.  |
| 20 AC         | 0    | -----  | RL    | 95 | P2               | 50                | Diode #2.  |
| 100           | 1.2  |        | RL    | 25 | P4               | 65                | Triode #1.   |
| 100           | 1.2  |        | RL    | 25 | P4               | 65                | Triode #2.   |
| 200           | 3.5  | 150    | RL    | 37 | P4               | 63                | Tetrode #1. Connect negative (-) end of 30 V battery to pin 1 of octal socket. Connect positive (+) end of battery to pin 2 of octal socket.   |
| 200           | 3.5  | 150    | RL    | 37 | P4               | 63                | Tetrode #2. Connect negative (-) end of 30 V battery to pin 3 of octal socket. Connect positive (+) end of battery to pin 2 of octal socket.<br><b>Caution: Disconnect battery between selector changes.</b> |
| 125           | CCW  | 100    | RL    | 62 | P4               | 65                |  |
| 125           | CCW  | 100    | RL    | 61 | P4               | 65                |  |
| 100           | CCW  | 100    | RL    | 48 | P4               | 65                |  |
| 100           | CCW  | -----  | RL    | 46 | P4               | 65                |  |
| 150           | CCW  | -----  | RL    | 50 | P4               | 65                | Triode #1.   |
| 150           | CCW  | -----  | RL    | 50 | P4               | 65                | Triode #2.   |
| 100           | CCW  | -----  | RL    | 58 | P4               | 65                | Triode #1.   |
| 100           | CCW  | -----  | RL    | 58 | P4               | 65                | Triode #2.   |
| 150           | 1.0  | 150    | RL    | 57 | P4               | 65                | Grid #1.   |
| 150           | 1.0  | 150    | RL    | 85 | P4               | 65                | Grid #3.   |
| 250           | 15.0 | 250    | RL    | 68 | P4               | 65                |  |
| 225           | 2.0  | -----  | RL    | 52 | P4               | 67                | Triode #1.   |
| 225           | 2.0  | -----  | RL    | 52 | P4               | 67                | Triode #2.   |
| 250           | 14.0 | 250    | RL    | 33 | P4               | 75                |  |
| 20 AC         | 0    | -----  | RL    | 26 | P2, P3           | 45                |  |
| 120           | 2.0  | -----  | RL    | 70 | P4               | 65                | Triode #1.   |
| 120           | 2.0  | -----  | RL    | 70 | P4               | 65                | Triode #2.   |
| 250           | CCW  | 160    | RL    | 27 | P4               | 65                |  |
| 20 AC         | 0    | 0      | RL    | 66 | P2               | 50                | Diode #1.  |
| 20 AC         | 0    | 0      | RL    | 66 | P2               | 50                | Diode #2.  |
| 200           | CCW  | 150    | RL    | 86 | P4               | 65                |  |

\*OK under 100 on percent quality meter. (Tube voltage drop measured.)

**TB 11-6625-316-12/1**

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |      |
|-----------|------|----------|-------------------------|----------|------|--------|------|
|           |      |          |                         | Filament | Bias | PI SCR | Im ε |
| 7057      | GM   | T        | 45 760 80               | 12.6     | D    | K      | B    |
| 7057      | GM   | T        | 45 210 30               | 12.6     | D    | K      | B    |
| 7058      | GM   | T        | 54 760 80               | 12.6     | 5    | J      | D    |
| 7058      | GM   | T        | 54 210 30               | 12.6     | 5    | J      | D    |
| 7059      | GM   | T        | 54 263 70               | 12.6     | 5    | J      | C    |
| 7059      | GM   | T        | 54 910 80               | 12.6     | 5    | G      | C    |
| 7060      | GM   | T        | 54 867 90               | 12.6     | 5    | J      | B    |
| 7060      | GM   | T        | 54 210 30               | 12.6     | 5    | G      | C    |
| 7061      | GM   | T        | 45 391 70               | 12.6     | 50   | G      | C    |
| 7077      |      |          |                         |          |      |        |      |
| 7119      | GM   | T        | 54 790 60               | 12.6     | 5    | M      | B    |
| 7119      | GM   | T        | 54 210 30               | 12.6     | 5    | M      | B    |
| 7167      | GM   | T        | 34 156 20               | 12.6     | 5    | L      | B    |
| 7189      | GM   | T        | 45 279 30               | 6.3      | 10   | G      | B    |
| 7199      | GM   | T        | 54 723 60               | 6.3      | 5    | J      | B    |
| 7199      | GM   | T        | 54 910 80               | 6.3      | 10   | J      | C    |
| 7247      |      |          |                         |          |      |        |      |
| 7258      | GM   | T        | 45 867 91               | 12.6     | 5    | L      | B    |
| 7258      | GM   | T        | 45 217 36               | 12.6     | 5    | L      | D    |
| 7308      | GM   | T        | 45 210 30               | 6.3      | 5    | N      | B    |
| 7308      | GM   | T        | 45 760 80               | 6.3      |      | N      | B    |
| 7316      | GM   | T        | 45 760 80               | 12.6     | 10   | J      | D    |
| 7316      | GM   | T        | 45 210 30               | 12.6     | 10   | J      | D    |
| 7355      | GM   | T        | 72 638 50               | 6.3      | 50   | G      | B    |
| 7360      | GM   | T        | 45 362 19               | 6.3      | 5    | K      | C    |
| 7370      | GM   | T        | 58 790 60               | 20.0     | 5    | M      | B    |
| 7370      | GM   | T        | 84 210 30               | 20.0     | 5    | M      | B    |
| 7408      | GM   | T        | 72 534 80               | 6.3      | 50   | G      | C    |
| 7486      |      |          |                         |          |      |        |      |
| 7543      | GM   | T        | 34 156 72               | 6.3      | B    | J      | C    |
| 7551      | GM   | T        | 45 263 17               | 12.6     | 50   | G      | B    |
| 7558      | GM   | T        | 45 263 17               | 6.3      | 50   | G      | B    |
| 7581      | GM   | T        | 27 534 80               | 6.3      | 50   | G      | C    |
| 7586      | GM   | T        | 31 420 80               | 6.3      | 5    | Q      | B    |
| 7587      | GM   | T        | 31 4A2 80               | 6.3      | A    | M      | B    |

| Meter setting |       |        |       | hunt  | Press to test | Minimum limits | Notes   |
|---------------|-------|--------|-------|-------|---------------|----------------|---|
| Plate         | Bias  | screen | Sig V |       |               |                |   |
| 150           | CCW   | ----   | RL    | 68    | P4            | 65             | Triode #1.  |
| 150           | CCW   | ----   | RL    | 68    | P4            | 65             | Triode #2.  |
| 225           | 2.0   | ----   | RL    | 52    | P4            | 67             | Triode #1.  |
| 225           | 2.0   | ----   | RL    | 52    | P4            | 67             | Triode #2.  |
| 200           | 1.4   | 110    | RL    | 61    | P4            | 65             | Pentode sect.   |
| 150           | 2.0   | ----   | RL    | 30    | P4            | 65             | Triode sect.  |
| 200           | 1.5   | 125    | RL    | 87    | P4            | 65             | Pentode sect.   |
| 150           | 1.5   | ----   | RL    | 47    | P4            | 65             | Triode sect.  |
| 250           | 12.5  | 250    | RL    | 45    | P4            | 65             |   |
| -----         | ----- | -----  | ----- | ----- | -----         | -----          | Special adapter required; not available.                    |
| 120           | 2.0   | ----   | RL    | 23    | P4            | 63             | Triode #1.  |
| 120           | 2.0   | ----   | RL    | 23    | P4            | 63             | Triode #2.  |
| 125           | 1.0   | 80     | RL    | 70    | P4            | 65             | Adj fil to 13.5.  |
| 250           | 7.0   | 250    | RL    | 29    | P4            | 65             |   |
| 220           | 1.5   | 130    | RL    | 71    | P4            | 65             | Pentode sect.   |
| 200           | 7.4   | ----   | RL    | 74    | P4            | 65             | Triode sect.  |
| -----         | ----- | -----  | ----- | ----- | -----         | -----          |   |
| 160           | 0.9   | 125    | RL    | 61    | P4            | 63             | Pentode sect.   |
| 150           | 3.0   | ----   | RL    | 16    | P4            | 63             | Triode sect.  |
| 100           | 1.2   | ----   | RL    | 25    | P4            | 65             | Triode #11.   |
| 100           | 1.2   | ----   | RL    | 25    | P4            | 65             | Triode #12.   |
| 250           | 8.5   | ----   | RL    | 45    | P4            | 65             | Triode #1.  |
| 250           | 8.5   | ----   | RL    | 45    | P4            | 65             | Triode #2.  |
| 250           | 15.0  | 225    | RL    | 60    | P4            | 63             |   |
| 150           | 1.0   | 160    | RL    | 28    | P4            | 60             | Connect pin 1 to pin 8 and pin 6 to pin 7 on loctal socket. |
| 120           | 2.0   | ----   | RL    | 29    | P4            | 65             | Triode #1.  |
| 120           | 2.0   | ----   | RL    | 29    | P4            | 65             | Triode #1.  |
| 250           | 12.5  | 250    | RL    | 48    | P4            | 65             |   |
| -----         | ----- | -----  | ----- | ----- | -----         | -----          | Special adapter required; not available.                    |
| 250           | CCW   | 125    | RL    | 42    | P4            | 65             |   |
| 250           | 18.0  | 250    | RL    | 99    | P4            | 65             | Adj fil to 13.5.  |
| 250           | 18.0  | 250    | RL    | 99    | P4            | 65             |   |
| 250           | 14    | 250    | RL    | 23    | P4            | 47             |   |
| 40            | 0     | ----   | RL    | 31    | P4            | 65             | Use Hickock adapter code No. 1050-127.                      |
| 125           | CCW   | 50     | RL    | 32    | P4            | 65             | Use Hickock adapter code No. 1050-127.                      |

**TB 11-6625-316-12/1**

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |        |
|-----------|------|----------|-------------------------|----------|------|--------|--------|
|           |      |          |                         | filament | Bias | Pl SCF | Gm SIG |
| 7591      | GM   | T        | 27 638 50               | 6.3      | 50   | G      | B      |
| 7687      | GM   | T        | 45 263 70               | 6.3      | 5    | J      | C      |
| 7687      | GM   | T        | 45 910 80               | 6.3      | 50   | K      | C      |
| 7693      | GM   | T        | 34 156 27               | 6.3      | B    | J      | C      |
| 7694      | GM   | T        | 34 156 27               | 6.3      | B    | M      | C      |
| 7695      | GM   | T        | 45 691 70               | 50.0     | 50   | K      | B      |
| 7701      | GM   | T        | 45 269 10               | 14.0     | 50   | G      | C      |
| 7716      | GM   | T        | 45 798 60               | 12.6     | B    | J      | C      |
| 7716      | GM   | T        | 45 230 10               | 12.6     | 5    | M      | C      |
| 7719      | GM   | T        | 45 210 30               | 12.6     | 10   | J      | C      |
| 7724      | GM   | T        | 45 890 70               | 14.0     | 5    | J      | D      |
| 7724      | EM   | T        | 45 020 30               | 14.0     | 5    | S      | A      |
| 7724      | EM   | T        | 45 060 10               | 14.0     | 5    | S      | A      |
| 7728      | GM   | T        | 45 760 81               | 12.6     | D    | G      | B      |
| 7728      | GM   | T        | 45 210 36               | 12.6     | D    | G      | B      |
| 7729      | GM   | T        | 45 760 81               | 12.6     | 5    | N      | D      |
| 7729      | GM   | T        | 45 210 36               | 12.6     | 5    | N      | D      |
| 7730      | GM   | T        | 45 760 81               | 12.6     | 10   | J      | C      |
| 7730      | GM   | T        | 45 210 36               | 12.6     | 10   | J      | C      |
| 7731      | GM   | T        | 45 263 70               | 6.3      | A    | J      | B      |
| 7731      | GM   | T        | 45 910 80               | 6.3      | A    | G      | B      |
| 7732      | GM   | T        | 34 156 27               | 6.3      | D    | H      | B      |
| 7733      | GM   | T        | 46 278 13               | 12.6     | 5    | J      | C      |
| 7737      | GM   | T        | 45 279 18               | 6.3      | 5    | G      | A      |
| 7754      | GM   | T        | 45 691 70               | 6.3      | 50   | K      | B      |
| 7759      | GM   | T        | 36 780 50               | 26.0     | B    | N      | C      |
| 7759      | GM   | T        | 36 210 40               | 26.0     | B    | N      | C      |
| 7760      | GM   | T        | 36 780 50               | 26.0     | 5    | Q      | B      |
| 7760      | GM   | T        | 36 210 40               | 26.0     | 5    | Q      | B      |
| 7761      | GM   | T        | 36 157 24               | 26.0     | B    | L      | B      |
| 7762      | GM   | T        | 36 157 42               | 26.0     | E    | N      | C      |
| 7868      | GM   | T        | 12 356 78               | 6.3      | 10   | G      | B      |
| 7889      | GM   | T        | 36 780 50               | 25.0     | E    | N      | C      |
| 7889      | GM   | T        | 36 210 40               | 25.0     | E    | N      | C      |
| 7895      | GM   | T        | 13 420 80               | 6.3      | D    | N      | B      |
| 9003      | GM   | T        | 34 156 27               | 6.3      | 5    | M      | D      |
| XXB       | GM   | T        | 78 360 00               | 1.5      | 5    | N      | D      |
| XXB       | GM   | T        | 17 430 00               | 1.5      | 5    | N      | D      |
| XXD       | GM   | T        | 18 560 70               | 12.6     | 50   | G      | C      |



| Meter setting |      |        |        | Shunt | Pres<br>to test | Mini-<br>mum<br>limits | Notes                                     |
|---------------|------|--------|--------|-------|-----------------|------------------------|---|
| Plate         | Bias | Screer | Sig VF |       |                 |                        |   |
| 250           | 10   | 250    | RL     | 55    | P4              | 65                     |   |
| 220           | .8   | 130    | RL     | 30    | P4              | 65                     | Pentode sect.                             |
| 215           | 8.5  | -----  | RL     | 77    | P4              | 65                     | Triode sect.                              |
| 250           | CCW  | 150    | RL     | 46    | P4              | 65                     |   |
| 225           | CCW  | 100    | RL     | 60    | P4              | 65                     |   |
| 130           | 11   | 130    | RL     | 24    | P4              | 65                     |   |
| 250           | 12.5 | 250    | RL     | 56    | P4              | 65                     | Adj fil to 13.6.                          |
| 200           | 0    | 125    | RL     | 42    | P4              | 65                     | Pentode sect.                             |
| 125           | 1.0  | -----  | RL     | 69    | P4              | 65                     | Triode sect.                              |
| 250           | 10.0 | -----  | RL     | 58    | P4              | 65                     |   |
| 250           | 3.0  | -----  | RL     | 97    | P4              | 63                     | Triode sect.                              |
| 20 AC         | 0    | -----  | RL     | 100   | P2              | 40                     | Diode #1.                                 |
| 20 AC         | 0    | -----  | RL     | 100   | P2              | 40                     | Diode #2.                                 |
| 250           | CCW  | -----  | RL     | 87    | P4              | 65                     | Triode #1.                                |
| 250           | CCW  | -----  | RL     | 87    | P4              | 65                     | Triode #2.                                |
| 100           | 1.0  | -----  | RL     | 82    | P4              | 65                     | Triode #1.                                |
| 100           | 1.0  | -----  | RL     | 82    | P4              | 65                     | Triode #2.                                |
| 225           | 8.5  | -----  | RL     | 80    | P4              | 65                     | Triode #1.                                |
| 225           | 8.5  | -----  | RL     | 80    | P4              | 65                     | Triode #2.                                |
| 250           | CCW  | 135    | RL     | 95    | P4              | 65                     | Pentode sect.                             |
| 150           | CCW  | -----  | RL     | 53    | P4              | 65                     | Triode sect.                              |
| 200           | CCW  | 150    | RL     | 88    | P4              | 65                     |   |
| 250           | 2.6  | 140    | RL     | 37    | P4              | 65                     |   |
| 180           | 1.0  | 150    | EL     | 90    | P4              | 65                     |   |
| 130           | 11   | 130    | RL     | 24    | P4              | 65                     |   |
| 100           | CCW  | -----  | RL     | 39    | P4              | 65                     | Triode No. 1.                             |
| 100           | CCW  | -----  | RL     | 39    | P4              | 65                     | Triode No. 2.                             |
| 40            | 0    | -----  | RL     | 85    | P4              | 65                     | Triode No. 1.                             |
| 40            | 0    | -----  | RL     | 85    | P4              | 65                     | Triode No. 2.                             |
| 150           | CCW  | 100    | RL     | 45    | P4              | 65                     |   |
| 110           | 0    | -----  | RL     | 47    | P4              | 65                     |   |
| 250           | 7.0  | 250    | RL     | 33    | P4              | 65                     | Use Hickock adapter code<br>No. 1050-144. |
| 100           | CCW  | -----  | RL     | 76    | P4              | 65                     | Triode #1.                                |
| 100           | CCW  | -----  | RL     | 76    | P4              | 65                     | Triode #2.                                |
| 110           | CCW  | -----  | RL     | 45    | P4              | 65                     | Use Hickock adapter code<br>No. 1050-127. |
| 175           | 2.4  | 80     | RL     | 59    | P4              | 64                     | Short in Z.                               |
| 100           | 3.0  | -----  | RL     | 98    | P4              | 65                     | Triode #1. Adj fil to 1.4.                |
| 100           | 3.0  | -----  | RL     | 98    | P4              | 65                     | Triode #2. Adj fil to 1.4.                |
| 250           | 10.0 | -----  | RL     | 85    | P4              | 65                     | Triode #1.                                |

**T11 11-6625-316-12/1**

| Tube type | Test | Function | Selectors<br>(L. to R.) | Range    |      |        |        |
|-----------|------|----------|-------------------------|----------|------|--------|--------|
|           |      |          |                         | Filament | Bias | PI SCR | Gm SIG |
| XXD       | GM   | T        | 18 430 20               | 12.6     | 50   | G      | C      |
| XXFM      | GM   | T        | 18 320 40               | 6.3      | 5    | G      | C      |
| XXFM      | EM   | T        | 18 050 40               | 6.3      | 5    | S      | B      |
| XXFM      | EM   | T        | 18 060 70               | 6.3      | 5    | S      | B      |
| XXL       | GM   | T        | 18 620 70               | 6.3      | 10   | G      | C      |

| Meter setting |             |        |        | Shunt     | Press to test | Minimum limits | Notes        |
|---------------|-------------|--------|--------|-----------|---------------|----------------|--------------|
| Plate         | Bias        | Screen | Sig VR |           |               |                |              |
| <b>250</b>    | <b>10.0</b> | -----  | RL     | <b>85</b> | <b>P4</b>     | 65             | Triode #2.   |
| <b>250</b>    | <b>1.0</b>  | -----  | RL     | <b>97</b> | <b>P4</b>     | 65             | Triode sect. |
| <b>20 AC</b>  | <b>0</b>    | -----  | RL     | <b>21</b> | <b>P2</b>     | 50             | Diode #1.    |
| <b>20 AC</b>  | <b>0</b>    | -----  | RL     | <b>21</b> | <b>P2</b>     | 50             | Diode #2.    |
| <b>250</b>    | <b>8.0</b>  | -----  | RL     | <b>70</b> | <b>P4</b>     | <b>65</b>      |              |

**4. Ballast Tube Test Data. ,**

| Ballast tube type | FIL-selector switch position | FIL-selector switch positions (FIL CONT-SHORT lamp should glow in each position) |
|-------------------|------------------------------|--|
| 1A1/5E1           | 1                            | 4  |
| 1B1               | 1                            | 4  |
| 1C1               | 1                            | 4  |
| 1E1               | 1                            | 4  |
| 1F1               | 1                            | 4  |
| 1G1               | 1                            | 4  |
| 1J1               | 1                            | 4  |
| 1K1               | 1                            | 4  |
| 1L1               | 2                            | 7  |
| 1N1               | 2                            | 7  |
| 1P1               | 2                            | 7  |
| 1Q1               | 2                            | 7  |
| 1R1G              | 2                            | 7  |
| 1S1G              | 2                            | 7  |
| 1T1G              | 2                            | 7  |
| 1U1G              | 2                            | 7  |
| 1V1               | 1                            | 4  |
| 1X1               | 1                            | 4  |
| 1Y1               | 1                            | 4  |
| 1Z1               | 1                            | 4  |
| 2                 | 1                            | 4  |
| 2UR224            | 3                            | 7, 8   |
|                   | 7                            | 8  |
| 2LR212            | 4                            | 1, 2, 8  |
| O3G               | 3                            | 7  |
| 3                 | 1                            | 4  |
| 4                 | 1                            | 4  |
| 5                 | 1                            | 4  |
| 6-133             | 3                            | 7  |
| 6                 | 1                            | 4  |

| Ballast tube type | FIL-selector switch position | FIL+selector switch positions (FIL CONT. SHORT lamp should glow in each position) |
|-------------------|------------------------------|---|
| 6-6AA             | 2                            | 7   |
| 7                 | 1                            | 4   |
| 8                 | 1                            | 4   |
| 9                 | 1                            | 4   |
| 10A               | 3                            | 7   |
| 10AG              | 3                            | 7   |
| 10AB              | 3                            | 7, 8  |
| K17B              | 3                            | 7, 8  |
| M17C              | 3                            | 7, 8  |
| BM17C             | 3                            | 7, 8  |
| M17H7, M17H       | 1                            | 7, 8  |
|                   | 2                            | 3   |
| L23P              | 3                            | 7, 8  |
| K23C              | 1                            | 7, 8  |
| KX23B             | 1                            | 3, 4  |
| M30H              | 2                            | 3   |
|                   | 1                            | 7, 8  |
| 30A, K30A         | 3                            | 7   |
| K30D              | 3                            | 2, 7, 8   |
| 33A, 33 AG        | 3                            | 7   |
| K34B              | 3                            | 7, 8  |
| 36A               | 3                            | 7   |
| K36B, BK36B       | 3                            | 7, 8  |
| L36B              | 3                            | 7, 8  |
| L36C              | 3                            | 7, 8  |
| KX36C             | 1                            | 3, 4  |
| KX36A             | 1                            | 4   |
| 36D               | 3                            | 2, 7, 8   |
| L36D              | 3                            | 2, 7, 8   |
| L36DJ             | 4                            | 2, 7, 8   |
| K36H              | 2                            | 3   |
|                   | 1                            | 7, 8  |

| Ballast tube type | FIL--selector<br>switch position | FIL+selector<br>switch positions<br>(FIL CONT-<br>SHORT lamp<br>should glow in each<br>position) |
|-------------------|----------------------------------|--|
| M36H, M36HG       | 2                                | 3  |
|                   | 1                                | 7, 8   |
| L40S1             | 3                                | 2, 5, 7  |
| L40S2             | 3                                | 2, 5, 7  |
| 42A               | 3                                | 7  |
| 42A1              | 4                                | 8  |
| 42A2              | 4                                | 1, 8   |
| 42B2              | 4                                | 1, 8   |
| K42B              | 3                                | 7, 8   |
| L42B              | 3                                | 7, 8   |
| M42B              | 3                                | 7, 8   |
| KX42B             | 1                                | 3, 4   |
| LX42B             | 1                                | 3, 4   |
| L42BX             | 3                                | 7, 8   |
| K42C              | 3                                | 7, 8   |
| L42C              | 3                                | 7, 8   |
| M42C              | 3                                | 7, 8   |
| KB42D             | 3                                | 2, 7, 8  |
| K42D              | 3                                | 2, 7, 8  |
| L42D              | 3                                | 2, 7, 8  |
| LX42D             | 1                                | 2, 3, 4  |
| L42DX             | 1                                | 2, 3, 4  |
| K42E              | 3                                | 2, 5, 7, 8   |
| L42E              | 3                                | 2, 5, 7, 8   |
| L42F              | 2                                | 3  |
|                   | 7                                | 8  |
| 42HA              | 1                                | 7, 8   |
|                   | 2                                | 3, 4   |
| K42HJ             | 4                                | 2  |
|                   | 1                                | 7, 8   |
| M42H, M32HG       | 2                                | 3  |
|                   | 1                                | 7, 8   |

| Ballast tube type | FIL-selector switch position | FIL-selector switch positions (FIL, CONT-SHORT lamp should glow in each position) |
|-------------------|------------------------------|---|
| KX42C             | 1                            | 3, 4  |
| L42S1             | 3                            | 5, 6  |
| 49A               | 3                            | 7   |
| 49AJ, K49AJ       | 4                            | 7   |
| KX49A             | 1                            | 4   |
| 49A1              | 4                            | 8   |
| 49A2              | 4                            | 1, 8  |
| 49B2              | 4                            | 1, 8  |
| K49B              | 3                            | 7, 8  |
| M49B, BM49B       | 3                            | 7, 8  |
| K47C              | 3                            | 7, 8  |
| M49C, BM49C       | 3                            | 7, 8  |
| BK49C             | 3                            | 7, 8  |
| K49E              | 3                            | 2, 5, 7, 8  |
| L49E              | 3                            | 2, 5, 7, 8  |
| K49D, BK49D       | 3                            | 2, 7, 8   |
| L49D              | 3                            | 2, 7, 8   |
| L49F              | 2                            | 3   |
|                   | 7                            | 8   |
| M49H, M49HG       | 2                            | 3   |
|                   | 1                            | 7, 3  |
| KZ59B             | 2                            | 5, 7  |
| KZ49C             | 2                            | 5, 7  |
| K49BJ             | 4                            | 7, 8  |
| L49PJ             | 4                            | 7, 8  |
| L49S2             | 3                            | 2, 5, 7   |
| 49AJ, K49AJ       | 4                            | 7   |
| KN49B             | 1                            | 3, 4  |
| LX49B             | 1                            | 3, 4  |
| LX49C             | 1                            | 3, 4  |
| L49DJ             | 4                            | 2, 7, 8   |

| Ballast tube type | FIL-selector<br>switch position | FIL+selector<br>switch positions<br>(FIL CONT-<br>SHORT lamp<br>should glow in each<br>position) |
|-------------------|---------------------------------|--|
| L49S3             | 3                               | 2, 5, 7  |
| 50A2              | 1                               | 3, 4   |
| 50A2MG            | 2                               | 3, 4   |
| 50B2              | 2                               | 5, 7   |
| 50X3              | 1                               | 4  |
| K52H              | 2                               | 3  |
|                   | 1                               | 7, 8   |
| M52H              | 2                               | 3  |
|                   | 1                               | 7, 8   |
| K54B              | 3                               | 7, 8   |
| 55A, K55A         | 3                               | 7  |
| 55A1              | 4                               | 8  |
| KX55A             | 1                               | 4  |
| 55B, K55B         | 3                               | 7, 8   |
| M55B, BM55B       | 3                               | 7, 8   |
| L55BG             | 3                               | 7, 8   |
| LX55B             | 1                               | 3, 4   |
| 55A2              | 4                               | 1, 8   |
| 55B2              | 4                               | 1, 8   |
| K55C              | 3                               | 7, 8   |
| L55C              | 3                               | 7, 8   |
| KX55C             | 1                               | 3, 4   |



By Order of the Secretary of the Army:

HAROLD K. JOHNSON,  
*General, United States Army,*  
*Chief of Staff.*

Official:

J. C. LAMBERT,  
*Major General, United States Army,*  
*The Adjutant General.*

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| Dir of Trans (1)    | Third (5)              |
| CofEngrs (1)        | Eighth (5)             |
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 USATC Armor (2)  
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 USASTC (2)  
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 USAINTC (5)  
 Instl (2) exc pt  
     Ft Monmouth (70)  
     Ft Hancock (4)  
     Ft Gordon (10)  
     Ft Huachuca (10)  
     WSMR (5)  
     Ft Carson (19)  
     Ft Knox (12)  
     JCA, Ft Ritchie (5)  
     Ft Devens (5)  
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     ATAD (10)

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|                  |            |
|------------------|------------|
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| 11-6 (2)         | 29-35 (2)  |
| 11-56 (2)        | 29-36 (2)  |
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| 11-97 (2)        | 29-55 (2)  |
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| 11-127 (2)       | 29-79 (2)  |
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| 11-587 (2)       | 30-29 (2)  |
| 11-592 (2)       | 37 (2)     |
| 11-597 (2)       | 37-100 (2) |
| 17 (2)           | 39-51 (2)  |
| 17-100 (2)       | 39-52 (2)  |
| 29-1 (2)         | 55-157 (2) |
| 29-15 (2)        | 57 (2)     |
| 29-16 (2)        | 57-100 (2) |

NG: State AG (3).

USAR: None.

For explanation of abbreviations used, see AR 320-50.