

**EICO**  
**625**  
**TUBE DATA**  
**ROLLCHART 625-04**

### CAUTION

In certain tubes, elements such as a cathode, grid or plate may have more than one internal connection to the tube base.

These tubes may show shorts when tested even though they are not actually shorted. To avoid erroneous short tests for such tubes, use the following procedure:

1. Filament voltage switch must be set to 0 volt position before making any short tests.
  2. To avoid tube damage, adjust all settings **before** inserting the tube into its socket.
  3. Levers enclosed in brackets must be moved together as one.
  4. **ONLY levers underlined** will cause tube short test to light.
  5. Levers **underlined** and in brackets must be moved together, as one, and will show short in the opposite position.
  6. In the case of tubes having more than one section and therefore having more than one test, **the tube must be removed** from the socket and all settings made before reinserting the tube for the next test.
- \* **MAGNOVAL BASE—"MUST USE MAGNOVAL ADAPTER" NOT NECESSARY ON 610A ADAPTER.**
  - # **10 PIN DECAL BASE—REQUIRES THE USE OF DECAL ADAPTER. Not necessary with 610A adapter.**
  - **Cap goes to top of tube.**

A number within brackets (after tube type number), such as [3] refers to the particular key used in positioning the compactron tube on the 610 or 610A adapter. There will be no pin on the tube inserted in the corresponding socket pin number.

On early models meter scale may read 0-1000. In this case GOOD above 20 will read 200 on Meter Scale, 30 will read 300.

**FOR 10 PIN MINIATURE, 12 PIN COMPACTRONS, NOVAR, DECAL, MAGNOVAL, 2 PIN RECTIFIER AND NUVISTOR TYPE TUBES USE MODEL 610A ADAPTER.**

### CAUTION

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|            |  |     |   |         |       |
|------------|--|-----|---|---------|-------|
| 0A2.....   | 41   | 0   | 4 | 1,5     | 2,4,7 |
|            | (Good=100)                                 |     |   |         |       |
| 0A3/VR75.. | 31   | 0   | 4 | 5       | 2,3,7 |
|            | (Good=100)                                 |     |   |         |       |
| 0B2.....   | 100  | 0   | 4 | 1,5     | 2,4,7 |
|            | (Good=100)                                 |     |   |         |       |
| 0B3/VR90.. | 31   | 0   | 4 | 5       | 2,3,7 |
|            | (Good=100)                                 |     |   |         |       |
| 0C3/VR105. | 31   | 0   | 4 | 5       | 2,3,7 |
|            | (Good=100)                                 |     |   |         |       |
| 0D3/VR150. | 31   | 0   | 4 | 5       | 2,3,7 |
|            | (Good=100)                                 |     |   |         |       |
| 0Z4.....   | 22   | 0   | 4 | 5       | 3,8   |
| "          | 22   | 0   | 4 | 3       | 5,8   |
| 1A5.....   | 40   | 1.4 | 2 | 3,4,5   | 2     |
| 1A7.....   | 12   | 1.4 | 1 | 5,6     | 2     |
| "          | 53   | 1.4 | 1 | 3,4,10  | 2     |
| 1AB4.....  | 13   | 1.4 | 1 | 2,3,6   | 1,5   |
| 1AE5.....  | 15   | 1.4 | 1 | 1,2,4,5 | 3     |
| 1AF4.....  | 15   | 1.4 | 1 | 2,3,6   | 1,5   |
| 1AH4.....  | 13   | 1.4 | 1 | 1,2,4   | 3     |
|            | (No open element test on lever 1)          |     |   |         |       |
| 1AX2.....  | 98   | 1.4 | 4 | 10      | 2,5,8 |
|            | (May show short on 1,4,6,9,—<br>Good=250)  |     |   |         |       |
| 1B3.....   | 55   | 1.4 | 1 | 10      | 2     |
|            | (May show short on 1,3,5,7,8—<br>Good=260) |     |   |         |       |
| 1B8.....   | 53   | 1.4 | 2 | 8       | 2     |
| "          | 60   | 1.4 | 2 | 6,10    | 2     |
| "          | 32   | 1.4 | 1 | 3,4,5   | 2     |
| 1C5.....   | 37   | 1.4 | 2 | 3,4,5   | 2     |
| 1E3.....   | 31   | 1.4 | 3 | 1,8     | 3,5   |
| 1G4.....   | 17   | 1.4 | 1 | 3,5     | 2     |
| 1G6.....   | 20   | 1.4 | 1 | 3,4     | 2     |
| "          | 20   | 1.4 | 1 | 5,6     | 2     |
| 1H5.....   | 32   | 1.4 | 1 | 5       | 2     |
| "          | 19   | 1.4 | 1 | 3,10    | 2     |
| 1L4.....   | 37   | 1.4 | 2 | 2,3,6   | 1,5   |
| 1L6.....   | 19   | 1.4 | 1 | 3,4     | 1     |
| "          | 21   | 1.4 | 1 | 2,5,6   | 1     |
|            | (Good=400 on Test 2)                       |     |   |         |       |
| 1LA4.....  | 40   | 1.4 | 2 | 2,3,6   | 1     |
| 1LA6.....  | 17   | 1.4 | 1 | 3,4     | 1     |
| "          | 53   | 1.4 | 1 | 2,5,6   | 1     |
|            | (Good=400 on Test 2)                       |     |   |         |       |
| 1LB4.....  | 40   | 1.4 | 2 | 2,3,6   | 1     |
| 1LB6.....  | 18   | 1.4 | 1 | 2 to 7  | 1     |
| 1LC5.....  | 18   | 1.4 | 1 | 2,3,4,6 | 5,8   |
| 1LC6.....  | 18   | 1.4 | 1 | 3,4     | 1     |
| "          | 45   | 1.4 | 1 | 2,5,6   | 1     |
| 1LD5.....  | 18   | 1.4 | 1 | 2,3,6   | 1     |
| "          | 53   | 1.4 | 1 | 4       | 1     |
|            | (Good=200 on Test 2)                       |     |   |         |       |
| 1LE3.....  | 37   | 1.4 | 2 | 2,6     | 1     |
|            | (May show short on 5)                      |     |   |         |       |
| 1LG5.....  | 35   | 1.4 | 2 | 2,3,6   | 4,5,8 |
| 1LH4.....  | 19   | 1.4 | 1 | 2,6     | 1     |
| "          | 53   | 1.4 | 1 | 4       | 1     |
|            | (Good=200 on Test 2)                       |     |   |         |       |
| 1LN5.....  | 40   | 1.4 | 2 | 2,3,4,6 | 5,8   |
| 1N5.....   | 16   | 1.4 | 1 | 3,4,10  | 2     |
| 1P5.....   | 18   | 1.4 | 1 | 3,4,10  | 2     |
| 1Q5.....   | 33   | 1.4 | 2 | 3,4,5   | 2     |
| 1R5.....   | 12   | 1.4 | 1 | 4       | 1,5   |
| "          | 53   | 1.4 | 1 | 2,3,6   | 1,5   |
| 1S4.....   | 30   | 1.4 | 2 | 2,3,4,6 | 1,5   |
| 1S5.....   | 23   | 1.4 | 1 | 4,5,6   | 1     |
| "          | 31   | 1.4 | 1 | 3       | 1     |
|            | (Good=300 on Test 2)                       |     |   |         |       |
| 1T4.....   | 35   | 1.4 | 2 | 2,3,6   | 1,5   |
| 1T5.....   | 40   | 1.4 | 2 | 3,4,5   | 2     |
| 1U4.....   | 35   | 1.4 | 2 | 2,3,6   | 1,5   |
| 1U5.....   | 40   | 1.4 | 2 | 2,3,6   | 1     |
| "          | 37   | 1.4 | 1 | 4       | 1     |

|   |     |     |   |         |         |
|---|-----|-----|---|---------|---------|
| 1U5   | 40  | 1.4 | 2 | 2,3,6   | 1       |
| "   | 37  | 1.4 | 1 | 4       | 1       |
| 1U6   | 19  | 1.4 | 1 | 3,4     | 2,5,6,7 |
| "   | 23  | 1.4 | 1 | 2,5,6   | 3,4,7   |
| (Good=300 on Test 2)                          |     |     |   |         |         |
| 1V2   | 85  | .75 | 4 | 1,9     | 4       |
| (May show short on 2,3,5,6,7,8)               |     |     |   |         |         |
| 1X2/A   | 69  | 1.4 | 4 | 10      | 2,5,8   |
| 1Z2   | 51  | 1.4 | 1 | 10      | 1,3,4,6 |
| (May show short on 2,5,7—<br>Good=300)        |     |     |   |         |         |
| 2AF4  | 19  | 2.5 | 3 | 1,2,6,7 | 4,5     |
| 2C26  | 36  | 6.3 | 3 | 10      | 7,8     |
| 2C51  | 23  | 6.3 | 2 | 3,4     | 1,2     |
| "   | 23  | 6.3 | 2 | 6,7     | 1,8     |
| 2V2   | 100 | 1.4 | 4 | 10      | 2       |
| (Good=250)<br>(May show short on 2,4,5,6,7,8) |     |     |   |         |         |
| 2X2/A/  | 46  | 2.5 | 4 | 10      | 4       |
| 879   |     |     |   |         |         |
| 2X3   | 46  | 2.5 | 3 | 4       | 8       |
| 3A4*  | 26  | 1.4 | 2 | 2,3,4,6 | 1,7     |
| 3A5*  | 30  | 1.4 | 2 | 2,3     | 4       |
| "   | 30  | 1.4 | 2 | 5,6     | 4       |
| 3A8*  | 20  | 1.4 | 1 | 3,4,10  | 2,7     |
| "   | 20  | 1.4 | 1 | 5,6     | 2,7     |
| "   | 25  | 1.4 | 1 | 8       | 2,7     |
| 3AL5  | 15  | 3.3 | 1 | 7       | 1,3     |
| "   | 15  | 3.3 | 1 | 2       | 3,5     |
| 3AU6  | 24  | 3.3 | 2 | 1,2,5,6 | 3,7     |
| 3AV6  | 25  | 3.3 | 3 | 1,7     | 2,3     |
| "   | 41  | 3.3 | 1 | 5       | 2,3     |
| "   | 35  | 3.3 | 1 | 6       | 2,3     |
| 3BA6  | 23  | 3.3 | 2 | 1,2,5,6 | 3,7     |
| 3BC5  | 18  | 3.3 | 3 | 1,5,6   | 2,3,7   |
| 3BE6  | 25  | 3.3 | 2 | 1       | 2,3     |
| "   | 32  | 3.3 | 2 | 5,6,7   | 2,3     |
| 3BN6  | 100 | 3.3 | 1 | 2,5,6,7 | 1,3     |
| (Good=400)                                    |     |     |   |         |         |
| 3BY6  | 25  | 3.3 | 2 | 1,5,6,7 | 2,3     |
| 3C4   | 13  | 1.4 | 1 | 2,3,6   | 1,7     |
| 3C5*  | 34  | 1.4 | 2 | 3,4,5   | 2,7     |
| 3C6/XXB*                                      | 40  | 1.4 | 2 | 3,4     | 1,8     |
| "   | 40  | 1.4 | 2 | 5,6     | 1,8     |
| 3CB6  | 17  | 3.3 | 3 | 1,5,6,7 | 2,3     |
| (No open element test on lever 5)             |     |     |   |         |         |
| 3CS6  | 24  | 3.3 | 2 | 1,5,6,7 | 2,3     |
| 3D6/1299*                                     | 25  | 1.4 | 2 | 2,3,6   | 1,8     |
| 3E5*  | 31  | 1.4 | 2 | 2,3,6   | 1,7     |
| 3E6*  | 26  | 1.4 | 2 | 2,3,4,6 | 1,8     |
| 3LE4*   | 34  | 1.4 | 2 | 2,3,6   | 1,8     |
| 3LF4*   | 27  | 1.4 | 2 | 2,3,6   | 1,8     |
| 3Q4*  | 33  | 1.4 | 2 | 2,3,4,6 | 1,7     |
| 3Q5*  | 28  | 1.4 | 3 | 3,4,5   | 2,7     |
| 3S4*  | 35  | 1.4 | 2 | 2,3,4,6 | 1,7     |
| 3V4*  | 33  | 1.4 | 2 | 2,3,6   | 1,7     |
| 4BQ7  | 25  | 3.3 | 2 | 1,2     | 3,4     |
| "   | 25  | 3.3 | 2 | 6,7     | 4,8     |
| 4BZ7  | 20  | 5.0 | 2 | 1,2     | 3,4     |
| "   | 20  | 5.0 | 2 | 6,7     | 4,8     |
| 5AM8  | 16  | 5.0 | 1 | 2,3,6   | 1,4     |
| 5AN8  | 25  | 5.0 | 2 | 6,7,8   | 4,9     |
| "   | 30  | 5.0 | 2 | 1,2     | 3,4     |
| 5AQ5  | 22  | 5.0 | 3 | 1,5,6,7 | 2,3     |
| 5AT8  | 25  | 5.0 | 2 | 1,2     | 3,4     |
| "   | 23  | 5.0 | 2 | 6,7,8,9 | 3,4     |
| 5AV8  | 25  | 5.0 | 2 | 6,7,8   | 4,9     |
| "   | 35  | 5.0 | 2 | 1,2     | 3,4     |
| 5AX4GT  | 41  | 5.0 | 3 | 4       | 2       |
| "   | 41  | 5.0 | 3 | 6       | 2       |
| 5AZ4  | 47  | 5.0 | 3 | 6       | 2       |
| "   | 47  | 5.0 | 3 | 4       | 2       |
| 5BK7  | 16  | 5.0 | 3 | 6,7     | 4,8     |
| "   | 16  | 5.0 | 3 | 1,2     | 3,4     |
| 5J6   | 15  | 5.0 | 1 | 1,6     | 3,7     |
| "   | 15  | 5.0 | 1 | 2,5     | 3,7     |

|           |    |     |   |                                   |         |
|-----------|----|-----|---|-----------------------------------|---------|
| 5J6       | 15 | 5.0 | 1 | 1,6                               | 3,7     |
| "         | 15 | 5.0 | 1 | 2,5                               | 3,7     |
| 5R4/GY    | 35 | 5.0 | 3 | 4                                 | 2       |
| "         | 35 | 5.0 | 3 | 6                                 | 2       |
| 5T8       | 32 | 5.0 | 3 | 8,9                               | 3,4,7   |
| "         | 15 | 5.0 | 1 | 2                                 | 3,4,7   |
| "         | 15 | 5.0 | 1 | 1                                 | 3,4,7   |
| "         | 15 | 5.0 | 1 | 6                                 | 3,4,7   |
| 5U4       | 31 | 5.0 | 3 | 6                                 | 2       |
| "         | 31 | 5.0 | 3 | 4                                 | 2       |
| 5U8       | 23 | 5.0 | 2 | 1,9                               | 4,8     |
| "         | 23 | 5.0 | 2 | 2,3,6                             | 4,7     |
| 5V4       | 26 | 5.0 | 3 | 6                                 | 8       |
| "         | 26 | 5.0 | 3 | 4                                 | 8       |
| 5V6       | 24 | 5.0 | 3 | 3,4,5                             | 2,8     |
| 5W4       | 41 | 5.0 | 3 | 6                                 | 2       |
| "         | 41 | 5.0 | 3 | 4                                 | 2       |
| 5X4       | 26 | 5.0 | 3 | 5                                 | 7       |
| "         | 26 | 5.0 | 3 | 3                                 | 7       |
| 5X8       | 24 | 5.0 | 2 | 7,8,9                             | 1,4,6   |
| "         | 24 | 5.0 | 2 | 2,3                               | 4,6     |
| 5Y3       | 47 | 5.0 | 3 | 6                                 | 2       |
| "         | 47 | 5.0 | 3 | 4                                 | 2       |
| 5Y4       | 47 | 5.0 | 3 | 5                                 | 7       |
| "         | 47 | 5.0 | 3 | 3                                 | 7       |
| 5Z3       | 32 | 5.0 | 3 | 3                                 | 1       |
| "         | 32 | 5.0 | 3 | 2                                 | 1       |
| 5Z4       | 23 | 5.0 | 3 | 6                                 | 8       |
| "         | 23 | 5.0 | 3 | 4                                 | 8       |
| 6A3       | 26 | 6.3 | 3 | 2,3                               | 1       |
| 6A6       | 30 | 6.3 | 3 | 2,3                               | 1,4     |
| "         | 30 | 6.3 | 3 | 5,6                               | 1,4     |
| 6A7       | 30 | 6.3 | 2 | 4,5                               | 1,6     |
| "         | 38 | 6.3 | 2 | 2,3,10                            | 1,6     |
| 6A8       | 31 | 6.3 | 2 | 5,6                               | 2,8     |
| "         | 40 | 6.3 | 2 | 3,4,10                            | 2,8     |
| 6AB4      | 22 | 6.3 | 2 | 1,6                               | 3,7     |
| 6AB7/1853 | 17 | 6.3 | 3 | 4,6,8                             | 2,3,5   |
| 6AB8      | 11 | 6.3 | 1 | 6,7,8,9                           | 3,4     |
| "         |    |     |   | (No open element test on 6 and 7) |         |
| "         | 13 | 6.3 | 1 | 1,2                               | 3,4     |
| 6AC5      | 36 | 6.3 | 3 | 3,5                               | 2,8     |
| 6AC7/1852 | 16 | 6.3 | 3 | 4,6,8                             | 2,3,5   |
| 6AD6      | 95 | 6.3 | 2 | 3,4,5                             | 2,8     |
| "         |    |     |   | (Good=150)                        |         |
| " Eye Cl  | 0  | 6.3 | 4 | 3,4,5                             | 2,8     |
| " Eye Op  | 0  | 6.3 | 4 | 5                                 | 2,3,4,8 |
| 6AD7      | 34 | 6.3 | 3 | 3,4,5                             | 2,8     |
| "         | 51 | 6.3 | 2 | 1,6                               | 2,8     |
| 6AE5      | 30 | 6.3 | 3 | 3,5                               | 2,8     |
| 6AE6      | 33 | 6.3 | 2 | 3,5                               | 2,8     |
| "         | 33 | 6.3 | 2 | 4,5                               | 2,8     |
| 6AE7      | 26 | 6.3 | 2 | 3,4                               | 2,5     |
| "         | 27 | 6.3 | 2 | 3,6                               | 2,8     |
| 6AF4      | 21 | 6.3 | 3 | 1,2,6,7                           | 4,5     |
| 6AF5      | 24 | 6.3 | 2 | 3,5                               | 2,8     |
| 6AF6      | 95 | 6.3 | 2 | 3,4,5                             | 2,8     |
| "         |    |     |   | (Good=150)                        |         |
| " Eye Cl  | 0  | 6.3 | 4 | 5                                 | 2,3,4,8 |
| " Eye Op  | 0  | 6.3 | 4 | 5                                 | 2,3,4,8 |
| 6AG5      | 16 | 6.3 | 3 | 1,5,6                             | 2,3,7   |
| 6AG7      | 16 | 6.3 | 3 | 4,6,8                             | 2,5     |
| 6AH4GT    | 22 | 6.3 | 2 | 1,5                               | 2,8     |
| 6AH6      | 14 | 6.3 | 3 | 1,2,5,6                           | 3,7     |
| 6AH7      | 31 | 6.3 | 3 | 1,3                               | 2,7     |
| "         | 31 | 6.3 | 3 | 5,6                               | 4,7     |
| 6AJ4      | 22 | 6.3 | 2 | 1,3,4,5,6,9                       | 2,7     |
| 6AJ5      | 23 | 6.3 | 2 | 1,5,6                             | 2,3,7   |
| 6AK5      | 22 | 6.3 | 2 | 1,5,6                             | 2,3,7   |
| 6AK6      | 28 | 6.3 | 3 | 1,2,5,6                           | 3,7     |
| 6AK8      | 11 | 6.3 | 1 | 1                                 | 4,7     |
| "         | 23 | 6.3 | 1 | 6                                 | 4,7     |
| "         | 12 | 6.3 | 1 | 8,9                               | 4,7     |
| "         | 11 | 6.3 | 1 | 2                                 | 3,4     |
| 6AL5      | 13 | 6.3 | 1 | 7                                 | 1,3     |
| "         | 13 | 6.3 | 1 | 2                                 | 3,5     |
| 6AL6      | 25 | 6.3 | 3 | 4,5,10                            | 2,8     |

|           |    |     |   |             |           |
|-----------|----|-----|---|-------------|-----------|
| 6AL6      | 25 | 6.3 | 3 | 4,5,10      | 2,8       |
| 6AL7      | 22 | 6.3 | 1 | 1,3,4,5,6   | 2,8       |
| " Eye Op. | 0  | 6.3 | 4 | 3           | 2,4,6,8   |
| " Eye Cl. | 0  | 6.3 | 4 | 3           | 2,8       |
| 6AM4      | 22 | 6.3 | 2 | 1,3,4,5,6,9 | 2,7       |
| 6AM8      | 20 | 6.3 | 2 | 2,3,6       | 1,4       |
| "         | 14 | 6.3 | 1 | 8           | 7,4       |
| 6AN4      | 20 | 6.3 | 2 | 1,2,6,7     | 3,5       |
| 6AN5      | 18 | 6.3 | 3 | 1,5,6       | 2,3,7     |
| 6AN6      | 20 | 6.3 | 1 | 2           | 1,6       |
| "         | 20 | 6.3 | 1 | 3           | 1,6       |
| "         | 20 | 6.3 | 1 | 4           | 1,6       |
| "         | 20 | 6.3 | 1 | 5           | 1,6       |
| 6AN8      | 25 | 6.3 | 2 | 6,7,8       | 4,9       |
| "         | 35 | 6.3 | 2 | 1,2         | 3,4       |
| 6AQ5      | 22 | 6.3 | 3 | 1,5,6,7     | 2,3       |
| 6AQ6      | 11 | 6.3 | 1 | 1,7         | 2,3       |
| "         | 22 | 6.3 | 1 | 5           | 2,3       |
| "         | 22 | 6.3 | 1 | 6           | 2,3       |
| 6AQ7      | 12 | 6.3 | 1 | 4,5         | 1,2,3,6,7 |
| "         | 19 | 6.3 | 1 | 3           | 1,2,7     |
| "         | 19 | 6.3 | 1 | 1           | 2,7       |
| 6AR5      | 25 | 6.3 | 3 | 1,5,6       | 2,3       |
| 6AR6      | 20 | 6.3 | 3 | 3,5,7       | 1,6       |
| 6AR8      | 19 | 6.3 | 2 | 3,6,8,9     | 1,2,5,7   |
| 6AS5      | 11 | 6.3 | 1 | 2,5,6,7     | 1,3       |
| 6AS6      | 25 | 6.3 | 2 | 1,5,6,7     | 2,3       |
| 6AS7      | 16 | 6.3 | 3 | 1,2         | 3,7       |
| "         | 16 | 6.3 | 3 | 4,5         | 6,7       |
| 6AT6      | 11 | 6.3 | 1 | 1,7         | 2,3       |
| "         | 20 | 6.3 | 1 | 5           | 2,3       |
| "         | 20 | 6.3 | 1 | 6           | 2,3       |
| 6AT8      | 25 | 6.3 | 2 | 1,2         | 3,4       |
| "         | 23 | 6.3 | 2 | 6,7,8,9     | 3,4       |
| 6AU4      | 25 | 6.3 | 2 | 5           | 3,7       |
| 6AU5      | 23 | 6.3 | 3 | 1,5,8       | 2,3       |
| 6AU6      | 26 | 6.3 | 2 | 1,2,5,6     | 3,7       |
| 6AU8      | 24 | 6.3 | 2 | 7,8,9       | 4,6       |
| "         | 15 | 6.3 | 1 | 2,3         | 1,4       |
| 6AV5      | 25 | 6.3 | 2 | 1,5,8       | 2,3       |
| 6AV6      | 29 | 6.3 | 3 | 1,7         | 2,3       |
| "         | 25 | 6.3 | 1 | 5           | 2,3       |
| "         | 25 | 6.3 | 1 | 6           | 2,3       |
| 6AX4      | 23 | 6.3 | 3 | 5           | 3,7       |
| 6AX5      | 33 | 6.3 | 3 | 3           | 2,8       |
| "         | 33 | 6.3 | 3 | 5           | 2,8       |
| 6AX6G     | 18 | 6.3 | 3 | 3           | 2,4       |
| "         | 18 | 6.3 | 3 | 5           | 2,8       |
| 6AX7*     | 15 | 3.3 | 1 | 1,2         | 3,4,5     |
| "         | 15 | 3.3 | 1 | 6,7         | 4,5,8     |
| 6B4       | 25 | 6.3 | 3 | 3,5         | 2         |
| 6B5       | 39 | 6.3 | 3 | 2,4         | 1,3,5     |
| "         | 54 | 6.3 | 3 | 3,4         | 1,2,5     |
| 6B6       | 33 | 6.3 | 3 | 3,10        | 2,8       |
| "         | 22 | 6.3 | 1 | 4           | 2,8       |
| "         | 22 | 6.3 | 1 | 5           | 2,8       |
| 6B7       | 51 | 6.3 | 3 | 2,3,10      | 1,6       |
| "         | 22 | 6.3 | 1 | 4           | 1,6       |
| "         | 22 | 6.3 | 1 | 5           | 1,6       |
| 6B8       | 39 | 6.3 | 3 | 3,6,10      | 2,8       |
| "         | 32 | 6.3 | 1 | 4           | 2,8       |
| "         | 32 | 6.3 | 1 | 5           | 2,8       |
| 6BA6      | 23 | 6.3 | 2 | 1,2,5,6     | 3,7       |
| 6BA7      | 19 | 6.3 | 3 | 1,2         | 3,4,6,7,9 |
| "         | 20 | 6.3 | 1 | 1,6,7,9     | 2,3,4     |
| 6BC5      | 18 | 6.3 | 3 | 1,5,6       | 2,3,7     |
| 6BC7      | 14 | 6.3 | 1 | 2           | 1,4       |
| "         | 14 | 6.3 | 1 | 6           | 4,7       |
| "         | 14 | 6.3 | 1 | 8           | 4,9       |
| 6BD4/A    | 27 | 6.3 | 1 | 5,10        | 1,2       |
| 6BD5      | 25 | 6.3 | 2 | 1,5,8       | 2,3       |
| 6BD6      | 27 | 6.3 | 2 | 1,2,5,6     | 3,7       |
| 6BD7      | 12 | 6.3 | 1 | 1,2         | 3,4       |
| "         | 29 | 6.3 | 1 | 6           | 3,4       |
| "         | 26 | 6.3 | 1 | 8           | 3,4       |
| 6BE6      | 22 | 6.3 | 2 | 1           | 2,3       |

|           |     |     |   |                                   |           |
|-----------|-----|-----|---|-----------------------------------|-----------|
| 6BE6      | 22  | 6.3 | 2 | 1                                 | 2,3       |
| "         | 22  | 6.3 | 2 | 5,6,7                             | 2,3       |
| 6BE7      | 11  | 6.3 | 1 | 1,2,6,7,9                         | 3,4,8     |
|           |     |     |   | (No open element test on lever 6) |           |
| "         | 17  | 6.3 | 1 | 6,9                               | 3,4,8     |
| 6BF5      | 19  | 6.3 | 3 | 1,5,6,7                           | 2,3       |
| 6BF6      | 29  | 6.3 | 3 | 1,7                               | 2,3,5,6   |
| "         | 21  | 6.3 | 1 | 5                                 | 1,2,3,6,7 |
| "         | 21  | 6.3 | 1 | 6                                 | 1,2,3,5,7 |
| 6BG6      | 19  | 6.3 | 3 | 5,8,10                            | 2,3       |
| 6BH6      | 22  | 6.3 | 2 | 1,5,6,7                           | 2,3       |
| 6BJ6      | 22  | 6.3 | 2 | 1,5,6,7                           | 2,3       |
| 6BJ7      | 16  | 6.3 | 1 | 2                                 | 1,4       |
| "         | 16  | 6.3 | 1 | 6                                 | 4,7       |
| "         | 16  | 6.3 | 1 | 8                                 | 4,9       |
| 6BK5      | 21  | 6.3 | 2 | 1,3,7,8                           | 4,6       |
| 6BK6      | 14  | 6.3 | 1 | 1,7                               | 2,3       |
| "         | 18  | 6.3 | 1 | 5                                 | 2,3       |
| "         | 20  | 6.3 | 1 | 6                                 | 2,3       |
| 6BK7      | 17  | 6.3 | 3 | 6,7                               | 4,8       |
| "         | 17  | 6.3 | 3 | 1,2                               | 3,4       |
| 6BL7      | 23  | 6.3 | 3 | 1,2                               | 3,7       |
| "         | 23  | 6.3 | 3 | 4,5                               | 6,7       |
| 6BN6      | 100 | 6.3 | 1 | 2,5,6,7                           | 1,3       |
| 6BQ6      | 22  | 6.3 | 3 | 4,5,10                            | 2,8       |
| 6BQ7      | 22  | 6.3 | 2 | 1,2                               | 3,4       |
| "         | 21  | 6.3 | 2 | 6,7                               | 4,8       |
| 6BT6      | 12  | 6.3 | 1 | 1,7                               | 2,3       |
| "         | 17  | 6.3 | 1 | 5                                 | 2,3       |
| "         | 17  | 6.3 | 1 | 6                                 | 2,3       |
| 6BX6/EF80 | 22  | 6.3 | 2 | 2,7,8,9                           | 1,3,4     |
| 6BX7      | 18  | 6.3 | 3 | 4,5                               | 6,7       |
| "         | 18  | 6.3 | 3 | 1,2                               | 3,7       |
| 6BY5      | 24  | 6.3 | 3 | 4                                 | 1,2       |
| "         | 24  | 6.3 | 3 | 5                                 | 2,8       |
| 6BY6      | 25  | 6.3 | 2 | 1,5,6,7                           | 2,3       |
| 6BZ7      | 21  | 6.3 | 2 | 6,7                               | 4,8       |
| "         | 20  | 6.3 | 2 | 1,2                               | 3,4       |
| 6C4       | 25  | 6.3 | 2 | 1,5,6                             | 3,7       |
| 6C5       | 30  | 6.3 | 2 | 3,5                               | 2,8       |
| 6C6       | 12  | 6.3 | 1 | 2,3,10                            | 1,4,5     |
| 6C7       | 12  | 6.3 | 1 | 2,10                              | 1,6       |
| "         | 22  | 6.3 | 1 | 4                                 | 1,6       |
| "         | 22  | 6.3 | 1 | 5                                 | 1,6       |
| 6C8       | 27  | 6.3 | 2 | 3,10                              | 2,4       |
| "         | 27  | 6.3 | 2 | 5,6                               | 2,8       |
| 6CA5      | 19  | 6.3 | 3 | 2,5,6,7                           | 1,3       |
| 6CB6      | 18  | 6.3 | 3 | 1,5,6,7                           | 2,3       |
|           |     |     |   | (No open element test on lever 5) |           |
| 6CD6      | 18  | 6.3 | 3 | 5,8,10                            | 2,3       |
| 6CF6      | 22  | 6.3 | 2 | 1,5,6,7                           | 2,3       |
| 6CJ6      | 17  | 6.3 | 3 | 1,2,6,7,                          | 3,5       |
|           |     |     |   | 8,9,10                            |           |
| 6CL6      | 17  | 6.3 | 3 | 2,3,6,7,                          | 1,4       |
|           |     |     |   | 8,9                               |           |
| 6CM6      | 30  | 6.3 | 3 | 1,3,6,9                           | 4,7       |
| 6CR6      | 27  | 6.3 | 2 | 5,6,7                             | 1,3       |
| "         | 30  | 6.3 | 1 | 2                                 | 1,3       |
| 6CS6      | 25  | 6.3 | 2 | 1,5,6,7                           | 2,3       |
| 6CU6      | 20  | 6.3 | 3 | 4,5                               | 2,8       |
| 6D4       | 20  | 6.3 | 3 | 1,7                               | 3,5       |
| 6D5       | 33  | 6.3 | 3 | 3,5                               | 2,8       |
| 6D6       | 30  | 6.3 | 3 | 2,3,4,10                          | 1,5       |
| 6D7       | 28  | 6.3 | 2 | 2,3,10                            | 1,4,6     |
| 6D8       | 30  | 6.3 | 2 | 5,6                               | 2,8       |
| "         | 42  | 6.3 | 2 | 3,4,10                            | 2,8       |
| 6E5       | 36  | 6.3 | 2 | 2,3                               | 1,5       |
| " Eye Cl. | 0   | 6.3 | 4 | 2,4                               | 1,3,5     |
| " Eye Op. | 0   | 6.3 | 4 | 4                                 | 1,2,3,5   |
| 6E6       | 32  | 6.3 | 3 | 2,3                               | 1,4       |
| "         | 32  | 6.3 | 3 | 5,6                               | 1,4       |
| 6E7       | 28  | 6.3 | 2 | 2,3,10                            | 1,4,6     |
| 6F5       | 14  | 6.3 | 1 | 4,10                              | 2,8       |
| 6F6       | 33  | 6.3 | 3 | 3,4,5                             | 2,8       |
| 6F7       | 46  | 6.3 | 3 | 2,3,10                            | 1,6       |
| "         | 90  | 6.3 | 3 | 4,5                               | 1,6       |

|           |          |     |   |         |         |
|-----------|----------|-----|---|---------|---------|
| 6F7       | 46       | 6.3 | 3 | 2,3,10  | 1,6     |
| "         | 90       | 6.3 | 3 | 4,5     | 1,6     |
| 6F8       | 24       | 6.3 | 2 | 3,10    | 2,4     |
| "         | 24       | 6.3 | 2 | 5,6     | 2,8     |
| 6G5/6U5   | 36       | 6.3 | 2 | 2,3     | 1,5     |
| " Eye Cl. | 0        | 6.3 | 4 | 2,4     | 1,3,5   |
| " Eye Op. | 0        | 6.3 | 4 | 4       | 1,2,3,5 |
| 6G6       | 38       | 6.3 | 3 | 3,4,5   | 2,8     |
| 6G6G      | 28       | 6.3 | 2 | 3,4,5   | 2,8     |
| 6G7       | 38       | 6.3 | 3 | 2,10    | 3,5,7   |
| "         | 14       | 6.3 | 1 | 4       | 3,7     |
| "         | 14       | 6.3 | 1 | 6       | 3,7     |
| 6H5       | 36       | 6.3 | 2 | 2,3     | 1,5     |
| " Eye Cl. | 0        | 6.3 | 4 | 2,4     | 1,3,5   |
| " Eye Op. | 0        | 6.3 | 4 | 4       | 1,2,3,5 |
| 6H6       | 14       | 6.3 | 1 | 3       | 2,4     |
| "         | 14       | 6.3 | 1 | 5       | 2,8     |
| 6H7S      | 34       | 6.3 | 3 | 2,3,4   | 6,7     |
| "         | 52       | 6.3 | 2 | 5,10    | 6,7     |
| 6J4       | 20       | 6.3 | 2 | 1,5,6,7 | 2,3     |
| 6J5       | 24       | 6.3 | 2 | 3,5     | 2,8     |
| 6J6       | 14       | 6.3 | 1 | 1,6     | 3,7     |
| "         | 14       | 6.3 | 1 | 2,5     | 3,7     |
| 6J7       | 29       | 6.3 | 2 | 3,4,10  | 2,5,8   |
| 6J8       | 25       | 6.3 | 2 | 3,4,10  | 2,8     |
| "         | 25       | 6.3 | 2 | 5,6     | 2,8     |
| 6K5       | 13       | 6.3 | 1 | 3,10    | 2,8     |
| 6K6       | 26       | 6.3 | 3 | 3,4,5   | 2,8     |
| 6K7       | 32       | 6.3 | 2 | 3,4,10  | 2,5,8   |
| 6K8       | 11       | 6.3 | 1 | 5,6     | 2,8     |
| "         | 11       | 6.3 | 1 | 4,5     | 2,8     |
| "         | 22       | 6.3 | 1 | 3,10    | 2,8     |
| 6L5       | 26       | 6.3 | 2 | 3,5     | 2,8     |
| 6L6       | 18       | 6.3 | 3 | 3,4,5   | 2,8     |
| 6L7       | 56       | 6.3 | 2 | 4       | 2,8     |
| "         | 26       | 6.3 | 2 | 3,5,10  | 2,8     |
| 6N4       | 24       | 6.3 | 2 | 1,5,7   | 2,3,6   |
| 6N5/6AB5  | SEE 6AB5 |     |   |         |         |
| 6N6       | 67       | 6.3 | 3 | 4,5     | 2,3,8   |
| "         | 45       | 6.3 | 3 | 3,5     | 2,4,8   |
| 6N7       | 30       | 6.3 | 3 | 3,4     | 2,8     |
| "         | 30       | 6.3 | 3 | 5,6     | 2,8     |
| 6P5       | 30       | 6.3 | 2 | 3,5     | 2,8     |
| 6Q5       | 20       | 6.3 | 4 | 3,5     | 2,8     |
| 6Q6       | 11       | 6.3 | 1 | 3,10    | 7,8     |
| "         | 51       | 6.3 | 1 | 5       | 7,8     |
| 6Q7       | 12       | 6.3 | 1 | 3,10    | 2,8     |
| "         | 26       | 6.3 | 1 | 4       | 2,8     |
| "         | 26       | 6.3 | 1 | 5       | 2,8     |
| 6R6       | 44       | 6.3 | 3 | 3,5,10  | 7,8     |
| 6R7       | 39       | 6.3 | 3 | 3,10    | 2,8     |
| "         | 19       | 6.3 | 1 | 4       | 2,8     |
| "         | 19       | 6.3 | 1 | 5       | 2,8     |
| 6R8       | 25       | 6.3 | 2 | 2       | 3,4     |
| "         | 30       | 6.3 | 2 | 8,9     | 4,7     |
| "         | 11       | 6.3 | 1 | 1       | 4,7     |
| "         | 11       | 6.3 | 1 | 6       | 4,7     |
| 6S4       | 21       | 6.3 | 3 | 3,6,9   | 2,4     |
| 6S6       | 25       | 6.3 | 3 | 1,4,10  | 7,8     |
| 6S7       | 28       | 6.3 | 2 | 3,4,10  | 2,5,8   |
| 6S8       | 16       | 6.3 | 1 | 6,10    | 2,7     |
| "         | 22       | 6.3 | 1 | 1       | 2,7     |
| "         | 22       | 6.3 | 1 | 4       | 2,7     |
| "         | 22       | 6.3 | 1 | 3       | 5,7     |
| 6SA7      | 24       | 6.3 | 2 | 4,5     | 2,6,8   |
| "         | 28       | 6.3 | 2 | 3,4,8   | 1,2,6   |
| 6SB7Y     | 22       | 6.3 | 2 | 4,5     | 1,2,6   |
| "         | 19       | 6.3 | 1 | 3,4,8   | 2,5,6   |

|           |             |     |   |         |           |
|-----------|-------------|-----|---|---------|-----------|
| 6U6       | 20          | 6.3 | 3 | 3,4,5   | 2,8       |
| 6U5       | See 6G5/6U5 |     |   |         |           |
| 6U4       | 19          | 6.3 | 3 | 5       | 3,7       |
| 6U3       | 17          | 6.3 | 3 | 9       | 3,4       |
| 6T8       | 27          | 6.3 | 3 | 8,9     | 3,4,7     |
| "         | 15          | 6.3 | 1 | 2       | 3,4,7     |
| "         | 15          | 6.3 | 1 | 1       | 3,4,7     |
| "         | 15          | 6.3 | 1 | 6       | 3,4,7     |
| 6T7       | 14          | 6.3 | 1 | 3,10    | 2,8       |
| "         | 34          | 6.3 | 1 | 4       | 2,8       |
| "         | 34          | 6.3 | 1 | 5       | 2,8       |
| 6T6M      | 22          | 6.3 | 2 | 3,4,10  | 7,8       |
| 6T5       | 14          | 6.3 | 1 | 2,3     | 1,5       |
| " Eye Cl. | 0           | 6.3 | 4 | 2,4     | 1,3,5     |
| " Eye Op. | 0           | 6.3 | 4 | 4       | 1,2,3,5   |
| 6T4       | 20          | 6.3 | 2 | 1,2,6,7 | 3,5       |
| 6SZ7      | 12          | 6.3 | 1 | 2,6     | 3,7       |
| "         | 28          | 6.3 | 1 | 4       | 3,7       |
| "         | 28          | 6.3 | 1 | 5       | 3,7       |
| 6SV7      | 23          | 6.3 | 2 | 2,4,6   | 3,7       |
| "         | 28          | 6.3 | 2 | 5       | 3,7       |
| 6SU7      | 25          | 6.3 | 2 | 4,5     | 1,2,3,6,7 |
| "         | 25          | 6.3 | 2 | 1,2     | 3,4,5,6,7 |
| 6ST7      | 28          | 6.3 | 2 | 2,6     | 3,7       |
| "         | 39          | 6.3 | 1 | 4       | 3,7       |
| "         | 39          | 6.3 | 1 | 5       | 3,7       |
| 6SS7      | 25          | 6.3 | 3 | 4,6,8   | 2,3,5     |
| 6SR7      | 30          | 6.3 | 2 | 2,6     | 3,7       |
| "         | 28          | 6.3 | 1 | 4       | 3,7       |
| "         | 28          | 6.3 | 1 | 5       | 3,7       |
| 6SQ7      | 11          | 6.3 | 1 | 2,6     | 3,7       |
| "         | 22          | 6.3 | 1 | 4       | 3,7       |
| "         | 22          | 6.3 | 1 | 5       | 3,7       |
| 6SN7      | 26          | 6.3 | 2 | 1,2     | 3,7       |
| "         | 26          | 6.3 | 2 | 4,5     | 6,7       |
| 6SL7      | 29          | 6.3 | 3 | 1,2     | 3,7       |
| "         | 29          | 6.3 | 3 | 4,5     | 6,7       |
| 6SK7      | 28          | 6.3 | 3 | 4,6,8   | 2,3,5     |
| 6SJ7      | 27          | 6.3 | 2 | 4,6,8   | 2,3,5     |
| 6SH7      | 22          | 6.3 | 2 | 4,6,8   | 2,3,5     |
| 6SG7      | 17          | 6.3 | 3 | 4,6,8   | 2,3,5     |
| 6SF7      | 31          | 6.3 | 3 | 2,4,6   | 3,7       |
| "         | 22          | 6.3 | 1 | 5       | 3,7       |
| 6SF5      | 13          | 6.3 | 1 | 3,5     | 2,7       |
| 6SE7      | 23          | 6.3 | 2 | 4,6,8   | 2,3,5     |
| 6SD7      | 24          | 6.3 | 3 | 4,6,8   | 2,3,5     |
| 6SC7      | 31          | 6.3 | 3 | 2,3     | 6,7       |
| "         | 30          | 6.3 | 3 | 4,5     | 6,7       |

\* Center-Tapped Filament

\*\* Filament Tapped for Panel Bulb

## MODEL 625-04

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|           |    |     |   |         |         |
|-----------|----|-----|---|---------|---------|
| 7E5/1201  | 26 | 6.3 | 2 | 1,3,5,7 | 2,4,6   |
| 7C7       | 12 | 6.3 | 1 | 2,3,6   | 1,4,7   |
| 7C6       | 34 | 6.3 | 3 | 2,3,    | 1,4,7   |
| "         | 22 | 6.3 | 1 | 5       | 1,4,7   |
| "         | 22 | 6.3 | 1 | 6       | 1,4,7   |
| 7C5       | 26 | 6.3 | 3 | 2,3,6   | 1,7     |
| 7C4/1203A | 33 | 6.3 | 2 | 4       | 1,7     |
| 7B8       | 28 | 6.3 | 2 | 3,4     | 1,7     |
| "         | 34 | 6.3 | 2 | 2,5,6   | 1,7     |
| 7B7       | 28 | 6.3 | 2 | 2,3,6   | 1,4,7   |
| 7B6       | 25 | 6.3 | 2 | 2,3     | 1,4,7   |
| "         | 33 | 6.3 | 1 | 5       | 1,4,7   |
| "         | 33 | 6.3 | 1 | 6       | 1,4,7   |
| 7B5       | 30 | 6.3 | 3 | 2,3,6   | 1,7     |
| 7B4       | 12 | 6.3 | 1 | 2,6     | 1,7     |
| 7AU7      | 27 | 3.3 | 2 | 1,2     | 3,4,5   |
| "         | 27 | 3.3 | 2 | 6,7     | 4,5,8   |
| 7AK7      | 29 | 6.3 | 3 | 2,3,4,6 | 1,7     |
| 7AJ7      | 23 | 6.3 | 2 | 2,3,6   | 1,4,7   |
| 7AH7      | 21 | 6.3 | 2 | 2,3,4,6 | 1,7     |
| 7AG7      | 22 | 6.3 | 2 | 2,3,6,  | 1,4,5,7 |
| 7AF7      | 25 | 6.3 | 2 | 3,4     | 1,2,7   |
| "         | 25 | 6.3 | 2 | 5,6     | 1,2,7   |
| 7AD7      | 17 | 6.3 | 3 | 2,3,4,6 | 1,5,7   |
| 7AB7      | 27 | 6.3 | 3 | 1,3,5   | 2,4,6,8 |
| 7A8       | 35 | 6.3 | 2 | 3,4     | 1,7     |
| "         | 44 | 6.3 | 2 | 2,5,6   | 1,7     |
| 7A7       | 29 | 6.3 | 3 | 2,3,6   | 1,4,7   |
| 7A6       | 16 | 6.3 | 1 | 3       | 1,2     |
| "         | 16 | 6.3 | 1 | 6       | 1,7     |
| 7A5       | 18 | 6.3 | 3 | 2,3,6   | 1,7     |
| 7A4/XXL   | 24 | 6.3 | 2 | 2,6     | 1,7     |
| 6ZY5      | 33 | 6.3 | 3 | 3       | 2,8     |
| "         | 33 | 6.3 | 3 | 5       | 2,8     |
| 6Z7       | 33 | 6.3 | 3 | 3,4     | 2,8     |
| "         | 33 | 6.3 | 3 | 5,6     | 2,8     |
| 6Z5/12Z5  | 26 | 6.3 | 3 | 3       | 2,4,6   |
| "         | 26 | 6.3 | 3 | 5       | 2,4,6   |
| 6Z4/84/   | 27 | 6.3 | 3 | 2       | 1,4     |
| KR98      | 27 | 6.3 | 3 | 3       | 1,4     |
| 6Z3       | 25 | 6.3 | 3 | 2       | 1,3     |
| 6Y7       | 34 | 6.3 | 3 | 3,4     | 2,8     |
| "         | 34 | 6.3 | 3 | 5,6     | 2,8     |
| 6Y6       | 19 | 6.3 | 3 | 3,4,5   | 2,8     |
| 6Y5       | 29 | 6.3 | 3 | 3       | 1,4     |
| "         | 29 | 6.3 | 3 | 5       | 1,4     |
| 6Y3G      | 49 | 6.3 | 4 | 10      | 7       |
| 6X8       | 24 | 6.3 | 2 | 2,3     | 4,6     |
| "         | 23 | 6.3 | 2 | 7,8,9   | 1,4,6   |
| 6X6       | 41 | 6.3 | 2 | 5       | 7,8     |
| " Eye Cl  | 0  | 6.3 | 4 | 3,4     | 5,7,8   |
| " Eye Op  | 0  | 6.3 | 4 | 4       | 3,5,7,8 |
| 6X5       | 29 | 6.3 | 3 | 3       | 2,8     |
| "         | 29 | 6.3 | 3 | 5       | 2,8     |
| 6X4       | 26 | 6.3 | 3 | 1       | 3,7     |
| "         | 26 | 6.3 | 3 | 6       | 3,7     |
| 6W7       | 11 | 6.3 | 1 | 3,4,10  | 2,8     |
| 6W6       | 21 | 6.3 | 3 | 3,4,5   | 2,8     |
| 6W5       | 26 | 6.3 | 3 | 3       | 2,8     |
| "         | 26 | 6.3 | 3 | 5       | 2,8     |
| 6W4       | 19 | 6.3 | 3 | 5       | 3,7     |
| 6V8       | 27 | 6.3 | 2 | 1,6     | 3,4     |
| "         | 21 | 6.3 | 2 | 7       | 4,8     |
| "         | 12 | 6.3 | 1 | 2       | 3,4     |
| "         | 22 | 6.3 | 1 | 9       | 3,4     |
| 6V7       | 50 | 6.3 | 3 | 3,10    | 2,8     |
| "         | 28 | 6.3 | 1 | 4       | 2,8     |
| "         | 28 | 6.3 | 1 | 5       | 2,8     |
| 6V6       | 24 | 6.3 | 3 | 3,4,5   | 2,8     |
| 6V4       | 26 | 6.3 | 3 | 2       | 4,5     |
| "         | 26 | 6.3 | 3 | 3       | 4,5     |
| 6V3       | 17 | 6.3 | 3 | 2,7,9   | 4,10    |
| 6U8       | 22 | 6.3 | 2 | 1,9     | 4,8     |
| "         | 22 | 6.3 | 2 | 2,3,6   | 4,7     |
| 6U7       | 30 | 6.3 | 2 | 3,4,10  | 2,5,8   |
| 6U6       | 20 | 6.3 | 3 | 3,4,5   | 2,8     |

|                                   |    |      |   |         |         |
|-----------------------------------|----|------|---|---------|---------|
| 12B8                              | 26 | 12.6 | 2 | 3,4,10  | 1,2     |
| "                                 | 26 | 12.6 | 3 | 5,8     | 2,6     |
| 12B6                              | 32 | 12.6 | 3 | 3,10    | 7,8     |
| "                                 | 33 | 12.6 | 1 | 4       | 7,8     |
| "                                 | 33 | 12.6 | 1 | 5       | 7,8     |
| 12B4                              | 24 | 6.3  | 2 | 2,7,9   | 1,4,5   |
| 12AZ7*                            | 11 | 6.3  | 1 | 1,2     | 3,4,5   |
| "                                 | 11 | 6.3  | 1 | 6,7     | 4,5,8   |
| 12AY7*                            | 13 | 6.3  | 1 | 1,2     | 3,4,5   |
| "                                 | 13 | 6.3  | 1 | 6,7     | 4,5,8   |
| 12AX7*                            | 11 | 6.3  | 1 | 1,2     | 3,4,5   |
| "                                 | 11 | 6.3  | 1 | 6,7     | 4,5,8   |
| 12AX4                             | 23 | 12.6 | 3 | 5       | 3,7     |
| 12AW6                             | 22 | 12.6 | 2 | 1,5,6,7 | 2,3     |
| (No open element test on lever 5) |    |      |   |         |         |
| 12AV7*                            | 21 | 6.3  | 2 | 6,7     | 4,5,8   |
| "                                 | 22 | 6.3  | 2 | 1,2     | 3,4,5   |
| 12AV6                             | 20 | 12.6 | 3 | 1,7     | 2,3     |
| "                                 | 25 | 12.6 | 1 | 5       | 2,3     |
| "                                 | 25 | 12.6 | 1 | 6       | 2,3     |
| 12AV5                             | 25 | 12.6 | 2 | 1,5,8   | 2,3     |
| 12AU7*                            | 25 | 6.3  | 2 | 1,2     | 3,4,5   |
| "                                 | 25 | 6.3  | 2 | 6,7     | 4,5,8   |
| 12AU6                             | 22 | 12.6 | 2 | 1,2,5,6 | 3,7     |
| 12AT7*                            | 24 | 6.3  | 2 | 1,2     | 3,4,5   |
| "                                 | 24 | 6.3  | 2 | 6,7     | 4,5,8   |
| 12AT6                             | 27 | 12.6 | 3 | 1,7     | 2,3     |
| "                                 | 20 | 12.6 | 1 | 5       | 2,3     |
| "                                 | 20 | 12.6 | 1 | 6       | 2,3     |
| 12AQ5                             | 22 | 12.6 | 3 | 1,5,6,7 | 2,3     |
| 12AL5                             | 15 | 12.6 | 1 | 2       | 3,5     |
| "                                 | 15 | 12.6 | 1 | 7       | 1,3     |
| 12AH7                             | 31 | 12.6 | 3 | 1,3     | 2,7     |
| "                                 | 31 | 12.6 | 3 | 5,6     | 4,7     |
| 12A8                              | 36 | 12.6 | 2 | 5,6     | 2,8     |
| "                                 | 28 | 12.6 | 2 | 3,4,10  | 2,8     |
| 7Z4                               | 31 | 6.3  | 3 | 3       | 1,7     |
| "                                 | 24 | 6.3  | 3 | 6       | 1,7     |
| 7Y4                               | 24 | 6.3  | 3 | 3       | 1,7     |
| "                                 | 24 | 6.3  | 3 | 6       | 1,7     |
| 7X7                               | 12 | 6.3  | 1 | 2,3     | 1,4,7   |
| "                                 | 11 | 6.3  | 1 | 5       | 1,4,7   |
| "                                 | 12 | 6.3  | 1 | 6       | 1,4,7   |
| 7X6                               | 21 | 6.3  | 3 | 3       | 1,2     |
| "                                 | 21 | 6.3  | 3 | 6       | 1,7     |
| 7W7                               | 24 | 6.3  | 2 | 2,3,6   | 1,4,5,7 |
| 7V7                               | 18 | 6.3  | 3 | 2,3,6   | 1,4,7   |
| 7S7                               | 33 | 6.3  | 2 | 3,4     | 1,7     |
| "                                 | 23 | 6.3  | 2 | 2,5,6   | 1,7     |
| 7R7                               | 22 | 6.3  | 2 | 2,5,6   | 1,7     |
| "                                 | 28 | 6.3  | 1 | 3       | 1,7     |
| "                                 | 28 | 6.3  | 1 | 4       | 1,7     |
| 7Q7                               | 25 | 6.3  | 2 | 3,4     | 1,7     |
| "                                 | 46 | 6.3  | 2 | 2,5,6   | 1,7     |
| 7N7                               | 26 | 6.3  | 2 | 3,4     | 1,2     |
| "                                 | 26 | 6.3  | 2 | 5,6     | 1,7     |
| 7L7                               | 26 | 6.3  | 2 | 2,3,6   | 1,4,7   |
| 7K7                               | 11 | 6.3  | 1 | 3,4     | 1,2     |
| "                                 | 22 | 6.3  | 1 | 5       | 1,7     |
| "                                 | 22 | 6.3  | 1 | 6       | 1,7     |
| 7J7                               | 30 | 6.3  | 2 | 3,4,5   | 1,7     |
| "                                 | 30 | 6.3  | 2 | 2,5,6   | 1,7     |
| 7H7                               | 24 | 6.3  | 2 | 2,3,6   | 1,4,7   |
| 7G8                               | 24 | 6.3  | 2 | 2,3,4   | 1,5,6,7 |
| "                                 | 24 | 6.3  | 2 | 3,5,7   | 1,2,4,6 |
| 7G7/1232                          | 24 | 6.3  | 2 | 2,3,6   | 1,4,7   |
| 7F8                               | 22 | 6.3  | 2 | 1,3     | 2,4     |
| "                                 | 22 | 6.3  | 2 | 6,8     | 2,5     |
| 7F7                               | 15 | 6.3  | 1 | 3,4     | 1,2     |
| "                                 | 15 | 6.3  | 1 | 5,6     | 1,7     |
| 7E7                               | 32 | 6.3  | 3 | 2,5,6   | 1,7     |
| "                                 | 22 | 6.3  | 1 | 3       | 1,7     |
| "                                 | 26 | 6.3  | 1 | 4       | 1,7     |
| 7E6                               | 27 | 6.3  | 2 | 2,3     | 1,4,7   |
| "                                 | 25 | 6.3  | 1 | 5       | 1,4,7   |
| "                                 | 25 | 6.3  | 1 | 6       | 1,4,7   |
| 7E5/1201                          | 26 | 6.3  | 2 | 1,3,5,7 | 2,4,6   |

|        |    |      |   |            |           |
|--------|----|------|---|------------|-----------|
| 12SX7  | 25 | 12.6 | 2 | 4,5        | 6,7       |
| "      | 25 | 12.6 | 2 | 1,2        | 3,7       |
| 12SW7  | 26 | 12.6 | 2 | 2,6        | 3,7       |
| "      | 27 | 12.6 | 1 | 4          | 3,7       |
| "      | 27 | 12.6 | 1 | 5          | 3,7       |
| 12SR7  | 40 | 12.6 | 3 | 2,6        | 3,7       |
| "      | 19 | 12.6 | 1 | 4          | 3,7       |
| "      | 19 | 12.6 | 1 | 5          | 3,7       |
| 12SQ7  | 13 | 12.6 | 1 | 2,6        | 3,7       |
| "      | 28 | 12.6 | 1 | 4          | 3,7       |
| "      | 28 | 12.6 | 1 | 5          | 3,7       |
| 12SN7  | 29 | 12.6 | 2 | 1,2        | 3,7       |
| "      | 29 | 12.6 | 2 | 4,5        | 6,7       |
| 12SL7  | 29 | 12.6 | 3 | 1,2        | 3,7       |
| "      | 29 | 12.6 | 3 | 4,5        | 6,7       |
| 12SK7  | 29 | 12.6 | 3 | 3,4,6,8    | 2,5       |
| 12SJ7  | 11 | 12.6 | 1 | 4,6,8      | 2,3,5     |
| 12SH7  | 19 | 12.6 | 3 | 4,6,8      | 2,3,5     |
| 12SG7  | 19 | 12.6 | 3 | 4,6,8      | 2,3,5     |
| 12SF7  | 31 | 12.6 | 3 | 2,4,6      | 3,7       |
| "      | 22 | 12.6 | 1 | 5          | 3,7       |
| 12SF5  | 14 | 12.6 | 1 | 3,5        | 2,7       |
| 12SC7  | 13 | 12.6 | 1 | 2,3        | 6,7       |
| "      | 13 | 12.6 | 1 | 4,5        | 6,7       |
| 12SA7  | 29 | 12.6 | 2 | 4,5        | 2,6       |
| "      | 42 | 12.6 | 2 | 3,8        | 2,6       |
| 12S8   | 16 | 12.6 | 1 | 6,10       | 2,7       |
| "      | 21 | 12.6 | 1 | 1          | 2,7       |
| "      | 19 | 12.6 | 1 | 4          | 2,7       |
| "      | 22 | 12.6 | 1 | 3          | 5,7       |
| 12Q7   | 11 | 12.6 | 1 | 3,10       | 2,8       |
| "      | 22 | 12.6 | 1 | 4          | 2,8       |
| "      | 22 | 12.6 | 1 | 5          | 2,8       |
| 12L8G  | 21 | 12.6 | 3 | 3,4,5      | 2,7       |
| "      | 23 | 12.6 | 3 | 1,5,9      | 2,7       |
| 12L6   | 18 | 12.6 | 3 | 3,4,5      | 2,8       |
| 12K8   | 52 | 12.6 | 3 | 3,4,10     | 2,8       |
| "      | 13 | 12.6 | 1 | 5,6        | 2,8       |
| 12K7   | 30 | 12.6 | 3 | 3,4,10     | 2,5,8     |
| 12J7   | 13 | 12.6 | 1 | 3,4,10     | 2,5,8     |
| 12J5   | 24 | 12.6 | 2 | 3,5        | 2,8       |
| 12H6   | 15 | 12.6 | 1 | 3          | 2,4       |
| "      | 15 | 12.6 | 1 | 5          | 2,8       |
| 12F5   | 13 | 12.6 | 1 | 4,10       | 2,8       |
| 12E5   | 31 | 12.6 | 3 | 3,5        | 2,8       |
| 12CU6  | 20 | 12.6 | 3 | 4,5        | 2,8       |
| 12CS6  | 25 | 12.6 | 2 | 1,5,6,7    | 2,3       |
| 12CA5  | 18 | 12.6 | 3 | 2,5,6,7    | 1,3       |
| 12C8   | 44 | 12.6 | 3 | 3,6,10     | 2,8       |
| "      | 21 | 12.6 | 1 | 4          | 2,8       |
| "      | 21 | 12.6 | 1 | 5          | 2,8       |
| 12BZ7* | 13 | 6.3  | 1 | 6,7        | 4,5,8     |
| "      | 13 | 6.3  | 1 | 1,2        | 3,4,5     |
| 12BY7* | 18 | 6.3  | 3 | 2,7,8      | 1,3,4,5,9 |
| 12BT6  | 13 | 12.6 | 1 | 1,7        | 2,3       |
| "      | 19 | 12.6 | 1 | 5          | 2,3       |
| "      | 19 | 12.6 | 1 | 6          | 2,3       |
| 12BQ6  | 18 | 12.6 | 3 | 4,5,10     | 2,8       |
| 12BN6  | 21 | 12.6 | 1 | 2,5,6,7    | 1,3       |
|        |    |      |   | (Good=300) |           |
| 12BK6  | 14 | 12.6 | 1 | 1,7        | 2,3       |
| "      | 18 | 12.6 | 1 | 5          | 2,3       |
| "      | 20 | 12.6 | 1 | 6          | 2,3       |
| 12BK5  | 24 | 12.6 | 2 | 1,3,7,8    | 4,6       |
| 12BH7* | 21 | 6.3  | 2 | 1,2        | 3,4,5     |
| "      | 21 | 6.3  | 2 | 6,7        | 4,5,8     |
| 12BF6  | 34 | 12.6 | 2 | 1,7        | 2,3       |
| "      | 21 | 12.6 | 1 | 5          | 2,3       |
| "      | 21 | 12.6 | 1 | 6          | 2,3       |
| 12BE6  | 24 | 12.6 | 2 | 1          | 2,3       |
| "      | 24 | 12.6 | 2 | 5,6,7      | 2,3       |
| 12BD6  | 27 | 12.6 | 2 | 1,2,5,6    | 3,7       |
| 12BA7  | 19 | 12.6 | 3 | 1,2        | 3,4,6,7,9 |
| "      | 20 | 12.6 | 1 | 1,6,7,9    | 2,3,4     |
| 12BA6  | 22 | 12.6 | 2 | 1,2,5,6    | 3,7       |
| 12B8   | 26 | 12.6 | 2 | 3,4,10     | 1,2       |
| "      | 26 | 12.6 | 3 | 5,8        | 2,6       |

|            |    |      |   |         |                   |
|------------|----|------|---|---------|-------------------|
| 19X8       | 21 | 25   | 2 | 1,7,8,9 | 4,6               |
| "          | 22 | 25   | 2 | 2,3     | 4,6               |
| 19X3       | 27 | 25   | 2 | 1,6     | 3,4               |
| 19V8       | 21 | 25   | 2 | 7       | 4,8               |
| "          | 12 | 25   | 1 | 2       | 3,4               |
| "          | 22 | 25   | 1 | 9       | 3,4               |
| "          | 22 | 25   | 3 | 8,9     | 1,2,3,4,<br>6,7   |
| "          | 10 | 25   | 1 | 2       | 1,3,4,6,<br>7,8,9 |
| "          | 10 | 25   | 1 | 6       | 1,2,3,4,<br>7,8,9 |
| "          | 10 | 25   | 1 | 1       | 2,3,4,6,<br>7,8,9 |
| 19T8       | 19 | 25   | 3 | 9       | 3,4               |
| 19J6       | 24 | 12.6 | 2 | 1,6     | 3,7               |
| "          | 24 | 12.6 | 2 | 2,5     | 3,7               |
| 19C8       | 14 | 12.6 | 1 | 8,9     | 4,7               |
| "          | 13 | 12.6 | 1 | 1       | 4,7               |
| "          | 13 | 12.6 | 1 | 6       | 4,7               |
| "          | 13 | 12.6 | 1 | 2       | 4,3               |
| 19BG6      | 22 | 12.6 | 3 | 5,8,10  | 2,3               |
| 17         | 41 | 12.6 | 3 | 2,3     | 4,5               |
| 16A5       | 19 | 12.6 | 3 | 2,7,9   | 3,4               |
| 15A6/PL83  | 11 | 12.6 | 1 | 1,2,6,7 | 3,5               |
| 14Y4       | 29 | 12.6 | 3 | 3       | 1,7               |
| "          | 29 | 12.6 | 3 | 6       | 1,7               |
| 14X7       | 11 | 12.6 | 1 | 2,3     | 1,4,7             |
| "          | 11 | 12.6 | 1 | 5       | 1,4,7             |
| "          | 24 | 12.6 | 2 | 6       | 1,4,7             |
| (Good=300) |    |      |   |         |                   |
| 14W7       | 22 | 12.6 | 2 | 2,3,6   | 1,4,5,7           |
| 14V7       | 19 | 12.6 | 3 | 2,3,6   | 1,4,7             |
| 14S7       | 28 | 12.6 | 2 | 3,4     | 1,7               |
| "          | 24 | 12.6 | 2 | 2,5,6   | 1,7               |
| 14R7       | 10 | 12.6 | 1 | 2,5,6   | 1,7               |
| "          | 28 | 12.6 | 1 | 3       | 1,7               |
| "          | 28 | 12.6 | 1 | 4       | 1,7               |
| 14Q7       | 25 | 12.6 | 2 | 3,4     | 1,7               |
| "          | 30 | 12.6 | 2 | 2,5,6   | 1,7               |
| 14N7       | 26 | 12.6 | 2 | 3,4     | 1,2               |
| "          | 26 | 12.6 | 2 | 5,6     | 1,7               |
| 14J7       | 32 | 12.6 | 2 | 2,3,5   | 1,6,7             |
| "          | 34 | 12.6 | 3 | 2,5,6   | 1,7               |
| 14H7       | 22 | 12.6 | 2 | 2,3,6   | 1,4,7             |
| 14F8       | 22 | 12.6 | 3 | 1,3     | 2,4               |
| "          | 22 | 12.6 | 3 | 6,8     | 2,5               |
| 14F7       | 11 | 12.6 | 1 | 3,4     | 1,2               |
| "          | 11 | 12.6 | 1 | 5,6     | 1,7               |
| 14E7       | 28 | 12.6 | 2 | 2,5,6   | 1,7               |
| "          | 33 | 12.6 | 1 | 3       | 1,7               |
| "          | 33 | 12.6 | 1 | 4       | 1,7               |
| 14E6       | 32 | 12.6 | 3 | 2,3     | 1,4,7             |
| "          | 37 | 12.6 | 1 | 5       | 1,4,7             |
| "          | 37 | 12.6 | 1 | 6       | 1,4,7             |
| 14C7       | 28 | 12.6 | 2 | 2,3,6   | 1,4,7             |
| 14C5       | 26 | 12.6 | 3 | 2,3,6   | 1,7               |
| 14B8       | 34 | 12.6 | 2 | 3,4     | 1,7               |
| "          | 30 | 12.6 | 2 | 2,5,6   | 1,7               |
| 14B6       | 11 | 12.6 | 1 | 2,3     | 1,4,7             |
| "          | 22 | 12.6 | 1 | 5       | 1,4,7             |
| "          | 22 | 12.6 | 1 | 6       | 1,4,7             |
| 14AF7/XXD  | 26 | 12.6 | 3 | 3,4     | 1,2,5,6,7         |
| "          | 26 | 12.6 | 3 | 5,6     | 1,2,3,4,7         |
| 14A7/12B7  | 30 | 12.6 | 2 | 2,3,4,6 | 1,7               |
| 14A5       | 28 | 12.6 | 3 | 2,3,6   | 1,7               |
| 14A4       | 26 | 12.6 | 2 | 2,6     | 1,7               |
| 14         | 30 | 12.6 | 2 | 2,3,10  | 4,5               |
| 12X4       | 12 | 12.6 | 1 | 1       | 3,7               |
| "          | 12 | 12.6 | 1 | 6       | 4,7               |
| 12W6       | 18 | 12.6 | 3 | 3,4,5   | 2,8               |
| 12V6       | 24 | 12.6 | 3 | 3,4,5   | 2,8               |
| 12SY7      | 32 | 12.6 | 2 | 1,3,8   | 2,6               |
| "          | 26 | 12.6 | 2 | 4,5     | 2,6               |
| 12SX7      | 25 | 12.6 | 2 | 4,5     | 6,7               |
| "          | 25 | 12.6 | 2 | 1,2     | 3,7               |

|   |    |      |   |         |       |
|---|----|------|---|---------|-------|
| 884/6Q5   | 20 | 6.3  | 4 | 3,5     | 2,8   |
| 807   | 27 | 6.3  | 3 | 2,3,10  | 1,4   |
| 521AX   | 17 | 1.4  | 1 | 1,2,4   | 5     |
| 520AX   | 17 | 1.4  | 1 | 1,2,4   | 5     |
| 504X  | 20 | 1.4  | 1 | 3,4,5   | 7     |
| 503X  | 20 | 1.4  | 1 | 3,4,5   | 7     |
| 502X  | 20 | 1.4  | 1 | 3,4,5   | 7     |
| 502A/   |    |      |   |         |       |
| GL502A  | 19 | 6.3  | 3 | 3,5,6   | 7,8   |
| 501X  | 20 | 1.4  | 1 | 3,4,5   | 7     |
| 117Z6   | 18 | 110  | 3 | 3       | 2,4   |
| "   | 18 | 110  | 3 | 5       | 2,8   |
| 117Z4   | 17 | 110  | 3 | 5       | 2,8   |
| 117Z3   | 25 | 110  | 3 | 1,5     | 3,6   |
| 117N7   | 19 | 110  | 3 | 3,4,5   | 6,7,8 |
| "   | 15 | 110  | 3 |         | 7,8   |
| (Allow tube to heat up. Return lever 7 to top position. Good tube will kick to 700) |    |      |   |         |       |
| 117L7/  | 26 | 110  | 3 | 3,4,5   | 2,8   |
| 117M7   | 21 | 110  | 3 | 6       | 1,2   |
| 80  | 55 | 5    | 3 | 2       | 1     |
| "   | 55 | 5    | 3 | 3       | 1     |
| 70L7  | 20 | 70   | 3 | 3,4,5   | 2,6   |
| "   | 18 | 70   | 3 | 8       | 1,2   |
| 50Z7*   | 26 | 25   | 3 | 3       | 4,2,7 |
| "   | 26 | 25   | 3 | 5       | 2,7,8 |
| 50Z6  | 21 | 50   | 3 | 5       | 2,8   |
| "   | 21 | 50   | 3 | 3       | 2,4   |
| 50Y7**  | 21 | 50   | 3 | 3       | 4,6,7 |
| "   | 21 | 50   | 3 | 5       | 6,7,8 |
| 50Y6  | 22 | 50   | 3 | 3       | 2,4   |
| "   | 22 | 50   | 3 | 5       | 2,8   |
| 50X6  | 19 | 50   | 3 | 3       | 1,2   |
| "   | 19 | 50   | 3 | 6       | 1,7   |
| 50L6  | 17 | 50   | 3 | 3,4,5   | 2,8   |
| 50CA5   | 19 | 50   | 3 | 2,5,6,7 | 1,3   |
| 50C6  | 22 | 50   | 3 | 3,4,5   | 2,8   |
| 50C5  | 18 | 50   | 3 | 2,5,6,7 | 1,3   |
| 50B5  | 20 | 50   | 3 | 1,5,6,7 | 2,3   |
| 50A5  | 18 | 50   | 3 | 2,3,6   | 1,7   |
| 45Z5**  | 20 | 32   | 3 | 5       | 2,3,8 |
| 45Z3  | 25 | 50   | 3 | 2,6     | 1,4   |
| 40Z5**  | 20 | 32   | 3 | 5       | 2,3,8 |
| 35Z5**  | 17 | 32   | 3 | 5       | 2,3,8 |
| 35Z4  | 17 | 32   | 3 | 5       | 2,8   |
| 35Z3  | 17 | 32   | 3 | 2       | 1,7   |
| 35Y4**  | 20 | 32   | 3 | 2       | 1,4,7 |
| 35W4**  | 20 | 32   | 3 | 5       | 4,6,7 |
| 35L6  | 20 | 32   | 3 | 3,4,5   | 2,8   |
| 35C5  | 21 | 32   | 3 | 2,5,6,7 | 1,3   |
| 35B5  | 20 | 32   | 3 | 1,5,6,7 | 2,3   |
| 32L7  | 21 | 32   | 3 | 3,4,5   | 2,8   |
| "   | 17 | 32   | 3 | 6       | 1,2   |
| 25Z6  | 21 | 25   | 3 | 3       | 2,4   |
| "   | 21 | 25   | 3 | 5       | 2,8   |
| 25Z5  | 22 | 25   | 3 | 2       | 1,3   |
| "   | 22 | 25   | 3 | 5       | 1,4   |
| 25Y5  | 31 | 25   | 3 | 2       | 1,3   |
| "   | 31 | 25   | 3 | 5       | 1,4   |
| 25Y4  | 26 | 25   | 3 | 5       | 2,8   |
| 25X6  | 28 | 25   | 3 | 3       | 2,4   |
| "   | 28 | 25   | 3 | 5       | 2,8   |
| 25W4  | 19 | 25   | 3 | 5       | 3,7   |
| 25L6  | 17 | 25   | 3 | 3,4,5   | 2,8   |
| 25CU6   | 20 | 25   | 3 | 4,5     | 2,8   |
| 25CD6   | 18 | 25   | 3 | 5,8,10  | 2,3   |
| 25CA5   | 20 | 25   | 3 | 2,5,6,7 | 1,3   |
| 25C6  | 26 | 25   | 3 | 3,4,5   | 2,8   |
| 25BQ6   | 21 | 25   | 2 | 4,5,10  | 2,8   |
| 25AV5   | 19 | 25   | 3 | 1,5,8   | 2,3   |
| 20J8  | 13 | 12.6 | 1 | 5,6     | 2,8   |
| "   | 11 | 12.6 | 1 | 3,4,10  | 2,8   |
| 19X8  | 21 | 25   | 2 | 1,7,8,9 | 4,6   |
| "   | 22 | 25   | 2 | 2,3     | 4,6   |