

INSTRUCTIONS FOR MODEL 600 TUBE TESTER

1. Look up tube type in chart and set Heater Switch and set "A", "B" and "C" Switches.
2. Insert tube in proper socket or use adaptor indicated. Allow tube to warm up. Observe SHORTS lamp for Short indication.
3. Depress Grid Emission button. Observe meter. If meter deflects into "Grid Emission - Reject" area, tube is defective.
4. Press Quality Button. Read Quality on meter on "Good - ? - Bad" scale.
5. Rotate "C" Switch through each of its positions to check for all other Shorts. Observe SHORTS lamp for indication.

The tube chart refers to two adapters that can be used with the Model 600. These are as follows:

| | |
|--|---|
| TC-63—Used to test type 3DG4 tube . . . \$1.95 | } Testing Facilities Included Between Serial No. 152001 and 153000 or Above Serial No. 213,000 |
| TC-62—Set of two adapters used to test tubes with Novar basing . . . 3.95 | |
| TC-70 and TC-75—Used to test Hi-Voltage Color Tubes . . . \$1.95 each | |

These adapters are available through your local electronic distributor.

Note: Do Not Push Magnovar Tubes Into the Socket All the Way

| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|--|--------|-------|---|----|--------|---|--------|-----|---|---|--------|--------------------------------------|--------|----|---|---|--------|---|--------|-----|---|----|--------|
| 2AV2 | 2 | *99 | 6 | 1 | 7 | 2DL4 | 2 | *85 | 7 | 8 | 2 | 2EV5 | 2 | 33 | 2 | 1 | 1 | 3A3 | 3 | *99 | 3 | 10 | 3 |
| *Tube good if it reads 30 or more. | | | | | | *Normally shows short position 1-3-7-9. | | | | | | 2FH5 | | | | | | *Tube good if it reads 40 or more. | | | | | |
| 2AZ2 | 2 | *99 | 1 | 10 | 7 | *For grid emission turn C switch to position 4. | | | | | | 2FQ5 | | | | | | *Ignore all shorts except on position 10. | | | | | |
| *Normally shows short position 6-11. | | | | | | 2DS4 | 2 | *87 | 6 | 2 | 5 | 2FQ5A | | | | | | 3A3A | | | | | |
| 2B3 | 2 | 95 | 9 | 10 | 3 | *Normally shows short position 2-6 | | | | | | 2FS5 | | | | | | *Tube good if it reads 40 or more. | | | | | |
| 2BA2 | 2 | 92 | 6 | 1 | 7 | 2DX4 | 2 | *69 | 1 | 7 | 1 | 2FV6 | | | | | | *Ignore all shorts except on position 10. | | | | | |
| *Tube good if it reads 45 or more. | | | | | | *Normally shows short position 1-7 | | | | | | 2FY5 | | | | | | 3A4 | | | | | |
| 2BJ2 | 2 | **99* | 1 | 10 | 7 | 2DY4 | 2 | *33 | 2 | 6 | 1 | 2GK5 | | | | | | *Normally shows short position 2-6. | | | | | |
| **Normally shows short position 6-11. | | | | | | *Normally shows short position 1-7 | | | | | | 2GU5 | | | | | | 3A5 | | | | | |
| 2BN4 | 2 | *33 | 2 | 7 | 1 | 2DZ4 | 2 | *31 | 7 | 2 | 1 | 2HM5 | | | | | | 3A8 | | | | | |
| *Normally shows short position 1-6. | | | | | | *Normally shows short position 1-7 | | | | | | 2HQ5 | | | | | | 3AF4 | | | | | |
| 2BU2 | 2 | *90 | 5 | 10 | 3 | 2E26 | 6 | *40 | 1 | 5 | 3 | 2HR8 | | | | | | *Normally shows short position 1-7. | | | | | |
| *Tube good if it reads 40 or more. | | | | | | *Normally shows short position 4-6. | | | | | | 2T4 | | | | | | 3AJ8 | | | | | |
| 2CN3A | 2 | *94 | 5 | 10 | 3 | 2EA5 | 2 | 33 | 2 | 1 | 1 | *Normally shows short position 1-7. | | | | | | 3AL5 | | | | | |
| *Normally shows short position 3-11. | | | | | | *For grid emission turn C switch to position 4. | | | | | | 2EN5 | | | | | | 3A5 | | | | | |
| 2CW4 | 2 | *87 | 6 | 2 | 5 | 2EG4 | 2 | *80 | 6 | 2 | 5 | *Normally shows short position 6-11. | | | | | | 3A5 | | | | | |
| *For Grid Emission Turn C Switch Position 4. | | | | | | *For grid emission turn C switch to position 4. | | | | | | 2ER5 | | | | | | 3A5 | | | | | |
| 2CY5 | 2 | 35 | 2 | 1 | 1 | 2ES5 | 2 | 33 | 1 | 2 | 1 | 3A5 | | | | | | 3A5 | | | | | |
| 2D21 | 6 | 32 | 5 | 1 | 1 | 3A5 | | | | | | 3A5 | | | | | | 3A5 | | | | | |

*Normal Shorts refer to position of "C" Switch.
 † Do not connect Plate Cap to Adapter.

▲ Use TC-63 Adapter.
 □ Use TC-62-A Adapter.
 ▼ Use TC-70 Adapter.

and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.
 ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001)



| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|--|--------|-------|---|----|--------|--|--------|-----|----|----|--------------------------------------|---|--------|-----|---|----|------------------------------------|--|--------|-----|---|----|--------|
| 3AT2 | 3 | **97* | 9 | 10 | 9 | 3BL2 | 3 | *90 | 9 | 10 | 9 | 3C2 | 3 | *90 | 5 | 10 | 3 | 3DB3 | 3 | *99 | 1 | 10 | 3 |
| *Normally shows short position 2-5-6-9-11. | | | | | | *Normally shows short position 2-5-6-9-11. | | | | | | *Normally shows short position 4-6-8-11. | | | | | | *Tube good if it reads 40 or more. | | | | | |
| **Tube good if it reads 40 or more. | | | | | | 3BM2 | 3 | 90 | 5 | 10 | 3 | *Ignore all shorts except on position 10. | | | | | | *Ignore all shorts except position 10. | | | | | |
| 3AU6 | 3 | 33 | 6 | 1 | 1 | 3BN2 | 3 | *99 | 5 | 10 | 3 | *Tube good if it reads 40 or more. | | | | | | *Tube good if it reads 40 or more. | | | | | |
| 3AV6 | 3 | 40 | 6 | 1 | 1 | *Normally shows short position 1-6. | | | | | | *Ignore all shorts except on position 10. | | | | | | 3DC3 | | | | | |
| 78 6 5 1 | | | | | | 3BN4 | 3 | *33 | 2 | 7 | 1 | *Normally shows short position 3-11. | | | | | | *Ignore all shorts except position 10. | | | | | |
| 78 6 6 1 | | | | | | *Tube good if it reads 40 or more. | | | | | | *Normally shows short position 3-11. | | | | | | 3DG4 | | | | | |
| 3AW2 | 3 | 93 | 5 | 10 | 3 | 3BN6 | 3 | 99 | 6 | 5 | 1 | *Ignore all shorts except on position 10. | | | | | | 3DJ3 | | | | | |
| 3AW3 | 3 | *99 | 3 | 10 | 3 | 3BS2 | 3 | 94 | 5 | 10 | 3 | *Normally shows short position 3-11. | | | | | | *No short test. | | | | | |
| *Tube good if it reads 40 or more. | | | | | | *Tube good if it reads 40 or more. | | | | | | *Normally shows short position 3-11. | | | | | | *Tube good if it reads 20 or more. | | | | | |
| *Ignore all shorts except on position 10. | | | | | | 3BT2 | 3 | *95 | 5 | 10 | 3 | *Normally shows short position 3-11. | | | | | | 3DK6 | | | | | |
| 3B7 | 3 | 45 | 4 | 3 | 4 | *Tube good if it reads 40 or more. | | | | | | *Normally shows short position 3-11. | | | | | | 3DT6 | | | | | |
| 45 4 6 4 | | | | | | 3BU8 | 3 | 33 | 6 | 7 | 2 | *Normally shows short position 3-11. | | | | | | 3DX4 | | | | | |
| 3BA6 | 3 | 33 | 2 | 1 | 1 | 3BW2 | 3 | *95 | 5 | 10 | 3 | *Normally shows short position 3-11. | | | | | | *Normally shows short position 2-6 | | | | | |
| 3BC5 | 3 | 35 | 2 | 1 | 1 | *Tube good if it reads 40 or more. | | | | | | *Normally shows short position 3-11. | | | | | | 3DY4 | | | | | |
| 3BE6 | 3 | 35 | 6 | 1 | 1 | 3BX6 | 3 | 33 | 1 | 2 | 2 | *Ignore all shorts except on position 10. | | | | | | *Normally shows short position 1-7 | | | | | |
| 3BY6 | | | | | | 3 | 35 | 6 | 1 | 1 | *Normally shows short position 3-11. | | | | | | 3DZ4 | | | | | | |
| 3BY7 | | | | | | 3 | 33 | 1 | 2 | 2 | *Normally shows short position 3-11. | | | | | | *Normally shows short position 1-7 | | | | | | |
| 3BZ6 | | | | | | 3 | 31 | 6 | 1 | 1 | *Normally shows short position 3-11. | | | | | | 3EA5 | | | | | | |
| 3CY5 | | | | | | 3 | 35 | 2 | 1 | 1 | *Normally shows short position 3-11. | | | | | | 3EH7 | | | | | | |
| 3CZ3 | | | | | | 3 | 98 | 9 | 10 | 3 | *Normally shows short position 3-11. | | | | | | 3EJ7 | | | | | | |
| 3D6 | | | | | | 2 | 43 | 8 | 6 | 4 | *Normally shows short position 3-11. | | | | | | 3EJ7 | | | | | | |

2AV2-3EJ7

*Normal Shorts refer to position of "C" Switch.
 † Do not connect Plate Cap to Adapter.

▲ Use TC-63 Adapter.
 □ Use TC-62-A Adapter.
 ▼ Use TC-70 Adapter.

■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

| TYPE TUBE | Heater | A | B | C | Socket | TYPE TUBE | Heater | A | B | C | Socket | TYPE TUBE | Heater | A | B | C | Socket | TYPE TUBE | Heater | A | B | C | Socket |
|--|--------|-----|----|---|--------|-------------------------------------|--------|-----|---|---|--------|-----------|--------|----|---|---|---|---|--------|----|---|---|--------|
| 3ER5 | 3 | 33 | 1 | 2 | 1 | 3HK5 | 3 | 27 | 2 | 1 | 1 | 4AB8 | 4 | 37 | 6 | 9 | 2 | 4BU8 | 4 | 33 | 6 | 7 | 2 |
| 3ES5 | 3 | 33 | 1 | 2 | 1 | 3HM5 | 3 | 27 | 2 | 1 | 1 | 4AB8 | 4 | 44 | 6 | 2 | 2 | 4BX6 | 4 | 33 | 1 | 2 | 2 |
| 3EV5 | 3 | 33 | 2 | 1 | 1 | 3HM6 | 3 | 24 | 3 | 2 | 2 | 4AU6 | 4 | 33 | 6 | 1 | 1 | 4BX8 | 4 | 33 | 6 | 2 | 2 |
| 3FH5 | 3 | 33 | 1 | 2 | 1 | 3HQ5 | 3 | 29 | 2 | 1 | 1 | 4AU8 | 4 | 31 | 6 | 7 | 2 | 4BZ6 | 4 | 33 | 6 | 7 | 2 |
| 3FQ5 | 3 | 33 | 1 | 2 | 1 | 3HS8 | 3 | 30 | 6 | 7 | 2 | 4AV6 | 4 | 32 | 6 | 2 | 2 | 4BZ7 | 4 | 31 | 6 | 1 | 1 |
| 3FQ5A | 3 | 31 | 1 | 2 | 1 | 3HT6 | 3 | 28 | 3 | 2 | 2 | 4AV6 | 4 | 40 | 6 | 1 | 1 | 4BZ8 | 4 | 32 | 6 | 2 | 2 |
| 3FS5 | 3 | 27 | 2 | 1 | 1 | 3JC6 | 3 | 26 | 3 | 2 | 2 | 4BA6 | 4 | 78 | 6 | 5 | 1 | 4CE5 | 4 | 32 | 6 | 7 | 2 |
| 3FY5 | 3 | 33 | 1 | 2 | 1 | 3JC6A | 3 | 26 | 3 | 2 | 2 | 4BC5 | 4 | 78 | 6 | 6 | 1 | 4CM4 | 4 | 30 | 6 | 2 | 2 |
| 3GK5 | 3 | 25 | 1 | 2 | 1 | 3JD6 | 3 | 26 | 1 | 2 | 2 | 4BC8 | 4 | 33 | 2 | 1 | 1 | 4CS6 | 4 | 30 | 6 | 7 | 2 |
| 3GK6 | 3 | 33 | 3 | 2 | 2 | 3KF8 | 3 | 38 | 6 | 7 | 2 | 4BE6 | 4 | 35 | 2 | 1 | 1 | 4CY5 | 4 | 30 | 6 | 7 | 2 |
| 3GS8 | 3 | 33 | 6 | 7 | 2 | 3KT6 | 3 | 25 | 1 | 2 | 2 | 4BL8 | 4 | 35 | 6 | 1 | 1 | 4DE6 | 4 | 33 | 6 | 1 | 1 |
| 3GU5 | 3 | 27 | 2 | 1 | 1 | 3L35 | 3 | *36 | 5 | 4 | 6 | 4BN4 | 4 | 33 | 6 | 2 | 2 | 4DL4 | 4 | 33 | 6 | 7 | 2 |
| 3GW5 | 3 | 25 | 2 | 6 | 1 | *Normally shows short position 2-6. | | | | | 4BN6 | 4 | 33 | 6 | 7 | 2 | *Normally shows short position 1-6. | | | | | | |
| 3GY5 | 3 | *25 | 5 | 9 | 9 | 3LF4 | 3 | 43 | 8 | 6 | 4 | 4BQ7 | 4 | 32 | 6 | 2 | 2 | *Normally shows short position 1-3-7-9. | | | | | |
| *Normally shows short position 1-3-4-7-10. | | | | | | 3M-P26 | 3 | 40 | 6 | 1 | 1 | 4BS8 | 4 | 32 | 6 | 2 | 2 | *Normally shows short position 1-3-7-9. | | | | | |
| 3HA5 | 3 | 27 | 2 | 1 | 1 | 3Q4 | 3 | *42 | 5 | 3 | 6 | 4EJ7 | 4 | 32 | 6 | 7 | 2 | *Normally shows short position 1-3-7-9. | | | | | |
| 3HE7 | 3 | 25 | 11 | 9 | 9 | *Normally shows short position 2-6. | | | | | 4EJ7 | 4 | 29 | 3 | 2 | 2 | *Normally shows short position 1-3-7-9. | | | | | | |
| 3HF5 | 3 | *25 | 10 | 5 | 9 | 3Q5 | 3 | 45 | 9 | 5 | 3 | | | | | | | | | | | | |
| *Normally shows short position 1-3-4-6-8-10. | | | | | | 3S4 | 3 | *48 | 5 | 3 | 6 | | | | | | | | | | | | |
| | | | | | | 3V4 | 3 | 45 | 5 | 6 | 6 | | | | | | | | | | | | |

*Normal Shorts refer to position of "C" Switch.
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 ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)



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|-----------|--------|----|---|---|--------|--------------------------------------|--------|-----|---|---|--------|---|--------|-----|---|---|--------------------------------------|--------------------------------------|--------|-----|---|------|--------|----|---|---|---|
| 4ER5 | 4 | 33 | 1 | 2 | 1 | 4HG8 | 4 | *35 | 5 | 1 | 9 | 4KT6 | 4 | 25 | 1 | 2 | 2 | 5AN8 | 5 | 32 | 6 | 8 | 2 | | | | |
| 4ES8 | 4 | 30 | 6 | 2 | 2 | *Normally shows short position 7-10. | | | | | 4LJ8 | 4 | *95 | 3 | 2 | 2 | 5AQ5 | 5 | 32 | 6 | 2 | 2 | | | | | |
| 4EW6 | 4 | 30 | 6 | 7 | 2 | 4HK5 | 4 | 24 | 3 | 2 | 2 | *For grid emission turn C switch position 1. | | | | | 5AR4 | 5 | *35 | 1 | 7 | 1 | | | | | |
| 4GJ7 | 4 | 29 | 6 | 1 | 1 | 4HM5 | 4 | 25 | 1 | 6 | 2 | **For grid emission turn C switch position 9. | | | | | 5AS4 | 5 | *30 | 6 | 4 | 3 | | | | | |
| 4GK5 | 4 | 26 | 3 | 9 | 2 | 4HM6 | 4 | 27 | 2 | 1 | 1 | | | | | | 5AS8 | 5 | *30 | 6 | 6 | 3 | | | | | |
| 4GM6 | 4 | 25 | 1 | 2 | 1 | 4HQ5 | 4 | 24 | 3 | 2 | 2 | | | | | | *Normally shows short position 8-11. | | | | | | | | | | |
| 4GS7 | 4 | 30 | 9 | 9 | 2 | 4HR8 | 4 | 29 | 2 | 1 | 1 | 4MK8 | 4 | 34 | 6 | 7 | 2 | 5AS8 | 5 | *38 | 6 | 4 | 3 | | | | |
| 4GS8 | 4 | 30 | 9 | 1 | 2 | 4HS8 | 4 | 35 | 2 | 9 | 2 | 4M-P12 | 4 | 34 | 6 | 1 | 1 | 5AT8 | 5 | *38 | 6 | 6 | 3 | | | | |
| 4GW5 | 4 | 33 | 6 | 7 | 2 | 4HT6 | 4 | 30 | 6 | 7 | 2 | 4M-P26 | 4 | 40 | 6 | 1 | 1 | *Normally shows short position 8-11. | | | | | | | | | |
| 4GX6 | 4 | 25 | 2 | 6 | 1 | 4JC6 | 4 | 28 | 3 | 2 | 2 | 4R-HH2 | 4 | 27 | 6 | 2 | 2 | 5AS8 | 5 | 31 | 6 | 2 | 2 | | | | |
| 4GX7 | 4 | 25 | 6 | 1 | 1 | 4JC6A | 4 | 26 | 3 | 2 | 2 | 4R-HH8 | 4 | 27 | 6 | 7 | 2 | 5AU4 | 5 | 32 | 6 | 6 | 2 | | | | |
| 4GZ5 | 4 | 26 | 3 | 9 | 2 | 4JD6 | 4 | 26 | 3 | 2 | 2 | 5AF4 | 5 | 90 | 6 | 6 | 2 | 5AT8 | 5 | 33 | 6 | 9 | 2 | | | | |
| 4HA5 | 4 | 26 | 3 | 9 | 2 | 4JH6 | 4 | 25 | 6 | 1 | 1 | *Normally shows short position 1-7. | | | | | 5AV8 | 5 | 35 | 6 | 1 | 2 | | | | | |
| 4HA7 | 4 | 26 | 3 | 9 | 2 | 4JK6 | 4 | 26 | 6 | 1 | 1 | 5AF11 | 5 | *33 | 2 | 6 | 1 | *Normally shows short position 8-11. | | | | | | | | | |
| 4HC7 | 4 | 26 | 3 | 9 | 2 | 4JL6 | 4 | 26 | 6 | 1 | 1 | 5AM8 | 5 | 31 | 6 | 1 | 9 | 5AV8 | 5 | *43 | 6 | 4 | 3 | | | | |
| 3ER5-5AV8 | | | | | | 4KE8 | 4 | 26 | 6 | 2 | 2 | | | | | | 5AV8 | 5 | *43 | 6 | 6 | 3 | | | | | |
| | | | | | | 4KF8 | 4 | 26 | 6 | 9 | 2 | | | | | | *Normally shows short position 8-11. | | | | | | | | | | |
| | | | | | | 4KN8 | 4 | 33 | 6 | 7 | 2 | | | | | | 5AV8 | 5 | 32 | 6 | 6 | 2 | | | | | |
| | | | | | | | | | | | 4KN8 | 4 | 86 | 6 | 1 | 2 | | | | | | 5AV8 | 5 | 40 | 6 | 2 | 2 |
| | | | | | | | | | | | 4KN8 | 4 | 90 | 6 | 6 | 2 | | | | | | | | | | | |

*Normal Shorts refer to position of "C" Switch.
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|-----------|--------|--------------------------------------|---|---|--------|-----------|--------|----|----|---|--------|-----------|--------|--------------------------------------|----|---|--------|-----------|--------|----|------|---|--------|---|---|---|
| 5AW4 | 5 | *42 | 6 | 4 | 3 | 5BR8 | 5 | 32 | 6 | 9 | 2 | 5CR8 | 5 | *32 | 6 | 2 | 2 | 5EU8 | 5 | 32 | 6 | 7 | 2 | | | |
| | | *42 | 6 | 6 | 3 | 5BS8 | 5 | 31 | 6 | 1 | 2 | | | *34 | 6 | 9 | 2 | | | 32 | 6 | 2 | 2 | | | |
| | | *Normally shows short position 8-11. | | | | | | | 32 | 6 | 2 | 2 | | *Normally shows short position 8. | | | | | | | 5EW6 | 5 | 29 | 6 | 1 | 1 |
| 5AZ4 | 5 | *53 | 6 | 4 | 4 | 5BT8 | 5 | 33 | 6 | 8 | 2 | 5CU4 | 5 | *33 | 6 | 4 | 3 | 5FG7 | 5 | 27 | 3 | 9 | 2 | | | |
| | | *53 | 6 | 6 | 4 | | | 57 | 6 | 1 | 2 | | | *33 | 6 | 6 | 3 | | | 27 | 3 | 1 | 2 | | | |
| | | *Normally shows short position 2-11. | | | | | | | 57 | 6 | 2 | 2 | | *Normally shows short position 8-11. | | | | | | | 5FV8 | 5 | 30 | 6 | 9 | 2 |
| 5B8 | 5 | *32 | 6 | 6 | 2 | 5BW8 | 5 | 33 | 2 | 6 | 2 | 5CZ5 | 5 | 42 | 3 | 6 | 2 | 5GH8 | 5 | 31 | 6 | 1 | 2 | | | |
| | | *34 | 6 | 2 | 2 | | | 34 | 8 | 1 | 2 | 5DB4 | 5 | *40 | 6 | 4 | 3 | | | 31 | 6 | 2 | 2 | | | |
| | | *Normally shows short position 1. | | | | | | | 34 | 8 | 3 | 2 | | *40 | 6 | 6 | 3 | 5GH8A | 5 | 31 | 6 | 2 | 2 | | | |
| 5BC3 | 5 | 35 | 6 | 4 | 3 | 5BZ7 | 5 | 32 | 6 | 2 | 2 | | | *Normally shows short position 8-11. | | | | | | | 5GJ7 | 5 | 31 | 6 | 9 | 2 |
| | | 35 | 6 | 6 | 3 | 5CG8 | 5 | 30 | 3 | 9 | 2 | 5DH8 | 5 | *30 | 6 | 9 | 2 | | | 24 | 3 | 2 | 2 | | | |
| 5BE8 | 5 | *33 | 6 | 9 | 2 | 5CL8 | 5 | 32 | 3 | 1 | 2 | | | *32 | 6 | 1 | 2 | 5GM6 | 5 | 30 | 6 | 1 | 1 | | | |
| | | *33 | 6 | 1 | 2 | | | 32 | 6 | 9 | 2 | | | *Normally shows short position 3. | | | | | | | 5GS7 | 5 | 30 | 9 | 9 | 2 |
| | | *Normally shows short position 3. | | | | | | | 32 | 6 | 1 | 2 | 5EA8 | 5 | 30 | 6 | 2 | 2 | | | 30 | 9 | 1 | 2 | | |
| 5BK7 | 5 | 32 | 6 | 2 | 2 | 5CM6 | 5 | 40 | 3 | 6 | 2 | 5EH8 | 5 | 31 | 6 | 9 | 2 | 5GX6 | 5 | 25 | 6 | 1 | 1 | | | |
| | | 32 | 6 | 7 | 2 | 5CM8 | 5 | 33 | 6 | 2 | 2 | 5ES8 | 5 | 31 | 1 | 7 | 2 | 5GX7 | 5 | 26 | 3 | 2 | 2 | | | |
| 5BQ5 | 5 | 33 | 1 | 2 | 2 | 5CQ8 | 5 | 38 | 6 | 9 | 2 | | | 31 | 1 | 2 | 2 | | | 26 | 3 | 9 | 2 | | | |
| 5BQ7 | 5 | 32 | 6 | 2 | 2 | | | 33 | 6 | 2 | 2 | | | 30 | 6 | 2 | 2 | 5HA7 | 5 | 26 | 3 | 9 | 2 | | | |
| | | 32 | 6 | 7 | 2 | | | 33 | 6 | 9 | 2 | | | 30 | 6 | 7 | 2 | | | 35 | 5 | 9 | 9 | | | |
| | | | | | | | | | | | | | | | | | | | | 35 | 5 | 1 | 9 | | | |

*Normal Shorts refer to position of "C" Switch.
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 ▲ Use TC-63 Adapter.
 □ Use TC-62-A Adapter.
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|-----------|--------|--------------------------------------|---|---|--------|-----------|--------|------|---|----|--------|-----------|--------|--------------------------------------|---|---|--------|-----------|--------|--------------------------------------|--------------------------------------|---|--------|---|---|---|
| 5HB7 | 5 | 27 | 1 | 2 | 2 | 5LJ8 | 5 | *95 | 3 | 2 | 2 | 5RDDH1 | 5 | 38 | 6 | 8 | 2 | 5V3 | 5 | *38 | 6 | 4 | 3 | | | |
| | | 27 | 1 | 9 | 2 | | | **93 | 3 | 7 | 2 | | | 32 | 6 | 1 | 2 | | | *38 | 6 | 6 | 3 | | | |
| 5HC7 | 5 | *35 | 5 | 9 | 9 | | | | | | | | | 32 | 6 | 6 | 2 | | | *Normally shows short position 8-11. | | | | | | |
| | | *35 | 5 | 1 | 9 | | | | | | | | | 41 | 6 | 8 | 2 | 5V4 | 5 | *35 | 6 | 4 | 3 | | | |
| | | *Normally shows short position 7-10. | | | | | | | | | | | | 41 | 6 | 1 | 2 | | | *35 | 6 | 6 | 3 | | | |
| 5HG8 | 5 | 24 | 3 | 2 | 2 | | | | | | | | | | | | | | | *Normally shows short position 8-11. | | | | | | |
| | | 25 | 1 | 6 | 2 | 5MB8 | 5 | 27 | 6 | 9 | 2 | 5T4 | 5 | *38 | 6 | 4 | 3 | | | *38 | 6 | 6 | 3 | | | |
| 5HZ6 | 5 | 26 | 6 | 1 | 1 | | | | | | | | | *38 | 6 | 6 | 3 | | | *Normally shows short position 8-11. | | | | | | |
| 5J6 | 5 | 34 | 6 | 5 | 1 | 5MF8 | 5 | 35 | 7 | 7 | 9 | | | *Normally shows short position 8-11. | | | | | | | 5V6 | 5 | 41 | 6 | 5 | 3 |
| | | 34 | 6 | 6 | 1 | | | 34 | 7 | 10 | 9 | 5T8 | 5 | 43 | 6 | 8 | 2 | | | 41 | 6 | 5 | 3 | | | |
| 5JK6 | 5 | 26 | 6 | 1 | 1 | 5M-HH3 | 5 | 27 | 6 | 5 | 1 | | | 35 | 6 | 2 | 2 | | | *52 | 6 | 6 | 3 | | | |
| 5JL6 | 5 | 26 | 6 | 1 | 1 | | | 27 | 6 | 6 | 1 | | | 35 | 6 | 1 | 2 | | | *Normally shows short position 8-11. | | | | | | |
| 5KD8 | 5 | 30 | 6 | 2 | 2 | 5MK9 | 5 | 45 | 7 | 5 | 1 | | | 35 | 6 | 6 | 2 | | | *52 | 6 | 6 | 3 | | | |
| | | 28 | 6 | 9 | 2 | 5MQ8 | 5 | 30 | 6 | 2 | 2 | | | *40 | 6 | 4 | 3 | | | *Normally shows short position 8-11. | | | | | | |
| 5KE8 | 5 | 26 | 6 | 2 | 2 | | | 30 | 6 | 9 | 2 | 5U4 | 5 | *40 | 6 | 4 | 3 | | | 47 | 6 | 3 | 8 | | | |
| | | 26 | 6 | 9 | 2 | 5N1039A | 6 | 33 | 2 | 1 | 1 | | | *40 | 6 | 6 | 3 | | | 47 | 6 | 5 | 8 | | | |
| 5KZ8 | 5 | 26 | 6 | 2 | 2 | 5R4 | 5 | *45 | 6 | 4 | 3 | | | *Normally shows short position 8-11. | | | | | | | 5X4 | 5 | 47 | 6 | 3 | 8 |
| | | 26 | 6 | 9 | 2 | | | *45 | 6 | 6 | 3 | | | | | | | | | | *Normally shows short position 8-11. | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

5AW4-5Y3
 *Normal Shorts refer to position of "C" Switch.
 † Do not connect Plate Cap to Adapter.
 ▲ Use TC-63 Adapter.
 □ Use TC-62-A Adapter.
 ▼ Use TC-70 Adapter.
 ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

| TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | |
|-----------|--------|-----|---|---|---|-----------|--------|-----|---|-----------------------------------|--------|---|--------|----|----|----|--------|---|--------|-----|----|---|--------|---|
| 6BA3 | 6 | 36 | 2 | 5 | 18 | 6BD6 | 6 | 43 | 6 | 1 | 1 | 6BG6 | 6 | 36 | 6 | 5 | 3 | 6BK4BΔ | 6 | 87 | 7 | 5 | 3 | |
| 6BA6 | 6 | 33 | 2 | 1 | 1 | 6BD11 | 6 | 26 | 6 | 1 | 9 | 6BH3 | 6 | 30 | 5 | 2 | 18 | *Normally shows short position 1-4-6-8. | | | | | | |
| 6BA7 | 6 | 33 | 6 | 2 | 2 | | | 31 | 6 | 3 | 9 | 6BH3A | 6 | 30 | 5 | 2 | 18 | 6BK5 | 6 | 37 | 3 | 7 | 2 | |
| 6BA8 | 6 | 31 | 6 | 7 | 2 | 6BE3 | 6 | 26 | 4 | 10 | 9 | 6BH6 | 6 | 33 | 6 | 1 | 1 | 6BK6 | 6 | 39 | 6 | 1 | 1 | |
| | | 37 | 6 | 2 | 2 | | | | | | | 6BH8 | 6 | 34 | 6 | 7 | 2 | | | | | | | |
| 6BA11 | 6 | 29 | 6 | 4 | 9 | 6BE6 | 6 | 35 | 6 | 1 | 1 | | | 33 | 6 | 2 | 2 | | | | | | | |
| | | 37 | 6 | 9 | 9 | 6BE7 | 6 | 33 | 3 | 7 | 2 | 6BH11 | 6 | 27 | 6 | 4 | 9 | | | | | | | |
| 6B-814 | 6 | *33 | 4 | 5 | 8 | 6BE8 | 6 | *33 | 6 | 9 | 2 | | | 27 | 6 | 6 | 9 | 6BK7 | 6 | 32 | 6 | 2 | 2 | |
| | | | | | *May show short on 1-2-6-10. | | | | | *Normally shows short position 3. | | | | | | | | | | | | | | |
| | | | | | *Connect plate cap lead to top of tube. | | | | | | | | | | | | | | | | | | | |
| 6BC4 | 6 | 28 | 3 | 7 | 7 | 6BF5 | 6 | 39 | 1 | 7 | 1 | 6BJ3 | 6 | 26 | 4 | 10 | 9 | 6BK11 | 6 | 42 | 6 | 1 | 9 | |
| 6BC5 | 6 | 35 | 2 | 1 | 1 | 6BF6 | 6 | 50 | 6 | 1 | 1 | 6BJ6 | 6 | 34 | 6 | 1 | 1 | | | | | | | |
| 6BC7 | 6 | 32 | 6 | 2 | 2 | | | 78 | 6 | 5 | 1 | 6BJ7 | 6 | 33 | 6 | 2 | 2 | | | | | | | |
| | | 32 | 6 | 6 | 2 | 6BF8 | 6 | 32 | 6 | 1 | 2 | | | 33 | 6 | 6 | 2 | 6BL4 | 6 | 31 | 1 | 5 | 8 | |
| | | | | | | | | | | | | 6BJ8 | 6 | 33 | 6 | 8 | 2 | 6BL7 | 6 | 36 | 6 | 1 | 8 | |
| 6BC8 | 6 | 32 | 6 | 8 | 2 | | | 32 | 6 | 2 | 2 | | | 38 | 6 | 8 | 2 | | | | | | | |
| | | 33 | 6 | 2 | 2 | | | 32 | 6 | 3 | 2 | | | | 34 | 6 | 1 | 2 | 6BL8 | 6 | 31 | 6 | 2 | 2 |
| | | 33 | 6 | 7 | 2 | | | 32 | 6 | 7 | 2 | 6BK6 | 6 | 39 | 6 | 1 | 1 | | | | | | | |
| 6BC32 | 6 | 40 | 6 | 1 | 1 | | | 32 | 6 | 8 | 2 | *Normally shows short position 1-4-6-8. | | | | | 6BM8 | 6 | 33 | 6 | 3 | 2 | | |
| | | 67 | 6 | 5 | 1 | | | 32 | 6 | 9 | 2 | | | | | | | 6BN4 | 6 | *33 | 2 | 7 | 1 | |
| 6BD5 | 6 | 67 | 6 | 6 | 1 | 6BF11 | 6 | 25 | 6 | 3 | 9 | 6BK4Δ | 6 | 87 | 7 | 5 | 3 | *Normally shows short position 1-6. | | | | | | |
| | | 33 | 6 | 1 | 3 | | | 25 | 6 | 8 | 9 | 6BK4AΔ | 6 | 87 | 7 | 5 | 3 | | | | | | | |

*Normal Shorts refer to position of "C" Switch.
‡ Do not connect Plate Cap to Adapter.

▲ Use TC-63 Adapter.
□ Use TC-62-A Adapter.
▼ Use TC-70 Adapter.

■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

11



| TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | | | |
|-----------|--------|-----|---|---|-------------------------------------|-----------|--------|----|---|----|--------|-----------|--------|------|------|----|--------|-----------|---|-----|-----|---|--------|---|---|---|
| 6BN5 | 6 | *39 | 1 | 2 | 2 | | | 72 | 6 | 5 | 1 | 6BW11 | 6 | 30 | 6 | 1 | 9 | 6C5 | 6 | 46 | 1 | 5 | 3 | | | |
| | | | | | *Normally shows short position 6-8. | | | | | | | | | | 6BX6 | 6 | 33 | 1 | 2 | 2 | 6C8 | 6 | 45 | 6 | 5 | 3 |
| 6BN6 | 6 | 99 | 6 | 5 | 1 | 6BT8 | 6 | 33 | 6 | 8 | 2 | 6BX7 | 6 | 36 | 6 | 1 | 8 | 6C9 | 6 | 28 | 7 | 1 | 2 | | | |
| 6BN8 | 6 | 35 | 6 | 8 | 2 | | | 57 | 6 | 1 | 2 | | | 36 | 6 | 4 | 8 | | | | | | | | | |
| | | 35 | 6 | 1 | 2 | | | 57 | 6 | 2 | 2 | 6BX8 | 6 | 33 | 6 | 2 | 2 | 6C10 | 6 | 42 | 6 | 1 | 9 | | | |
| | | | | | | 6BU6 | 6 | 50 | 6 | 1 | 1 | | | 33 | 6 | 7 | 2 | | | | | | | | | |
| 6BN11 | 6 | 35 | 6 | 6 | 2 | | | 78 | 6 | 5 | 1 | 6BY5 | 5 | 38 | 6 | 4 | 3 | | | | | | | | | |
| | | 25 | 6 | 3 | 9 | 6BU8 | 6 | 78 | 6 | 6 | 1 | | | 38 | 6 | 5 | 3 | 6CA4 | 6 | 34 | 6 | 1 | 2 | | | |
| 6BQ5 | 6 | 33 | 1 | 2 | 2 | 6BV8 | 6 | 31 | 6 | 2 | 2 | 6BY6 | 6 | 35 | 6 | 1 | 1 | | | | | | | | | |
| 6BQ6 | 6 | 35 | 6 | 5 | 3 | | | | | | | 6BY7 | 6 | 33 | 1 | 2 | 2 | 6CA5 | 6 | 32 | 2 | 5 | 1 | | | |
| 6BQ7 | 6 | 32 | 6 | 2 | 2 | | | 33 | 6 | 6 | 2 | 6BY8 | 6 | 34 | 6 | 1 | 2 | 6CA7 | 6 | 35 | 6 | 5 | 3 | | | |
| | | 32 | 6 | 7 | 2 | 6BW3 | 6 | 28 | 4 | 10 | 9 | 6BY11 | 6 | 34 | 6 | 6 | 2 | 6CA11 | 6 | 35 | 9 | 3 | 9 | | | |
| 6BR3 | 6 | 30 | 2 | 9 | 2 | 6BV11 | 6 | 27 | 6 | 6 | 9 | | | 32 | 6 | 3 | 9 | | | | | | | | | |
| 6BR8 | 6 | 32 | 6 | 9 | 2 | | | 27 | 6 | 7 | 9 | | | 32 | 6 | 8 | 9 | | | | | | | | | |
| | | 31 | 6 | 1 | 2 | | | | | | | 6BZ6 | 6 | 31 | 6 | 1 | 1 | 6CB5 | 6 | *35 | 4 | 5 | 3 | | | |
| 6BS3 | 6 | 27 | 2 | 5 | 18 | 6BW4 | 6 | 50 | 6 | 1 | 2 | | | 6BZ3 | 6 | 28 | 4 | 10 | *Normally shows short position 1-3-6-8. | | | | | | | |
| 6BS3A | 6 | 27 | 2 | 5 | 18 | | | 50 | 6 | 7 | 2 | 6BZ7 | 6 | 32 | 6 | 2 | 2 | | | | | | | | | |
| 6BS8 | 6 | 32 | 6 | 2 | 2 | 6BW6 | 6 | 50 | 2 | 1 | 2 | | | 6BZ8 | 6 | 30 | 6 | 2 | 6CB6 | 6 | 33 | 6 | 1 | 1 | | |
| | | 32 | 6 | 7 | 2 | 6BW8 | 6 | 33 | 2 | 6 | 2 | | | | | | | | 6CC10 | 6 | 44 | 6 | 1 | 8 | | |
| 6BT6 | 6 | 39 | 6 | 1 | 1 | | | 34 | 8 | 1 | 2 | 6C4 | 6 | 41 | 1 | 6 | 1 | | | | | | | | | |
| | | | | | 34 8 3 2 | | | | | | | | | | | | | | | | | | | | | |

6BA3-6CC10

*Normal Shorts refer to position of "C" Switch.
‡ Do not connect Plate Cap to Adapter.

▲ Use TC-63 Adapter.
□ Use TC-62-A Adapter.
▼ Use TC-70 Adapter.

■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

12

| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|--|--------|-----|---|----|--------|---|--------|-----|----|---|--------|---|--------|-----|---|---|--------|-----------------------------------|--------|-----|---|---|--------|
| 6CD3 | 6 | *27 | 4 | 10 | 9 | 6CK6 | 6 | 30 | 6 | 2 | 2 | 6CQ4 | 6 | 32 | 6 | 5 | 8 | 6CW5 | 6 | *30 | 1 | 2 | 2 |
| *Some tubes may show short position 5-6-8-9. | | | | | | 6CL3 | 6 | 27 | 5 | 2 | 18 | 6CQ6 | 6 | 35 | 6 | 1 | 1 | *May show short position 6-7-8-9. | | | | | |
| 6CD6 | 6 | 33 | 6 | 5 | 3 | 6CL5 | 6 | *35 | 4 | 5 | 3 | 6CQ8 | 6 | 33 | 6 | 2 | 2 | 6CW7 | 6 | 33 | 8 | 2 | 2 |
| 6CE3 | 6 | 27 | 4 | 10 | 9 | *Normally shows short position 1-3-6-8. | | | | | | 6CR6 | 6 | 39 | 6 | 7 | 1 | 6CX8 | 6 | 33 | 6 | 7 | 2 |
| 6CE5 | 6 | 35 | 2 | 1 | 1 | 6CL6 | 6 | *32 | 2 | 9 | 2 | 6CR8 | 6 | 72 | 6 | 2 | 1 | 6CY5 | 6 | 34 | 6 | 2 | 2 |
| 6CF6 | 6 | 33 | 6 | 1 | 1 | *Normally shows short position 3-8. | | | | | | 6CY7 | 6 | 35 | 2 | 1 | 1 | 6CZ5 | 6 | 42 | 3 | 6 | 2 |
| 6CG3 | 6 | 26 | 4 | 10 | 9 | 6CL8 | 6 | 32 | 6 | 9 | 2 | 6CS6 | 6 | 35 | 6 | 1 | 1 | 6D2 | 6 | 33 | 6 | 2 | 1 |
| 6CG7 | 6 | 45 | 6 | 2 | 2 | 6CM3 | 6 | 30 | 5 | 2 | 18 | 6CS7 | 6 | 34 | 6 | 3 | 2 | 6D4 | 6 | 33 | 6 | 7 | 1 |
| 6CG8 | 6 | 30 | 3 | 9 | 2 | 6CM4 | 6 | 29 | 3 | 6 | 7 | 6CT3 | 6 | 32 | 2 | 6 | 2 | 6D8 | 6 | 43 | 6 | 1 | 1 |
| 6CH3 | 6 | 26 | 5 | 2 | 18 | 6CM5 | 6 | *32 | 4 | 5 | 3 | 6CU5 | 6 | *33 | 2 | 5 | 1 | 6D10 | 6 | 45 | 6 | 5 | 3 |
| 6CH5 | 6 | 28 | 6 | 2 | 2 | *Normally Shows Short Position 3-8. | | | | | | 6CU6 | 6 | 35 | 6 | 5 | 3 | 6DA4 | 6 | 33 | 6 | 5 | 8 |
| 6CH8 | 6 | 33 | 6 | 7 | 2 | 6CM6 | 6 | 40 | 3 | 6 | 2 | 6CU8 | 6 | 32 | 1 | 7 | 2 | 6DA6 | 6 | 34 | 1 | 2 | 2 |
| 6CJ3 | 6 | 36 | 6 | 8 | 2 | 6CM7 | 6 | 40 | 6 | 7 | 2 | 6CW4 | 6 | *87 | 6 | 2 | 5 | 6DB5 | 6 | *38 | 3 | 6 | 2 |
| 6CJ6 | 6 | *32 | 8 | 2 | 2 | 6CM8 | 6 | 33 | 6 | 2 | 2 | *For Grid Emission Turn C Switch Position 4. | | | | | | 6DB6 | 6 | 33 | 6 | 1 | 1 |
| *Normally shows short position 1-6-9. | | | | | | 6CN6 | 6 | 29 | 6 | 5 | 3 | | | | | | | | | | | | |
| 6CK3 | 6 | 25 | 2 | 5 | 18 | 6CN7 | 6 | 44 | 10 | 7 | 2 | | | | | | | | | | | | |
| 6CK4 | 6 | 34 | 1 | 3 | 3 | 33 | 10 | 1 | 2 | | | | | | | | | | | | | | |
| | | | | | | 33 | 10 | 2 | 2 | | | | | | | | | | | | | | |

*Normal Shorts refer to position of "C" Switch. † Do not connect Plate Cap to Adapter. Use TC-63 Adapter. Use TC-62-A Adapter. Use TC-70 Adapter. Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.) 13



| TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket |
|---|--------|-----|---|---|--------|---|--------|-----|---|---|--------|--|--------|-----|---|---|--------|--|--------|----|---|---|--------|
| 6DC6 | 6 | 32 | 6 | 1 | 1 | 6DN7 | 6 | 36 | 6 | 1 | 8 | 6DT5 | 6 | *38 | 3 | 6 | 2 | 6EA4* | 6 | 85 | 7 | 4 | 9 |
| 6DC8 | 6 | 33 | 6 | 2 | 2 | 6DQ4 | 6 | 44 | 6 | 4 | 8 | 6DT6 | 6 | 33 | 6 | 1 | 1 | *Insert a 2.7K 1W 5% resistor from pin hole No. 4 to No. 6 of socket No. 4. Remove resistor after test is completed. | | | | | |
| 6DE4 | 6 | 34 | 6 | 5 | 8 | 6DQ5 | 6 | *35 | 5 | 1 | 3 | 6DT8 | 6 | 30 | 6 | 2 | 2 | 6EA5 | 6 | 33 | 2 | 1 | 1 |
| 6DE6 | 6 | 30 | 6 | 1 | 1 | *Normally shows short position 3-4-6-8. | | | | | | 6DW4 | 6 | 29 | 5 | 2 | 8 | 6EA7 | 6 | 35 | 6 | 1 | 8 |
| 6DE7 | 6 | 33 | 2 | 3 | 2 | 6DQ6 | 6 | 34 | 6 | 5 | 3 | 6DW5 | 6 | 33 | 3 | 6 | 2 | 6EA8 | 6 | 39 | 6 | 4 | 8 |
| 6DG6 | 6 | 44 | 2 | 7 | 2 | 6DQ6B | 6 | 30 | 6 | 5 | 3 | 6DX4 | 6 | *69 | 1 | 7 | 1 | 6EB5 | 6 | 30 | 6 | 2 | 2 |
| 6DJ8 | 6 | 32 | 6 | 5 | 3 | 6DR7 | 6 | 32 | 2 | 3 | 2 | 6DX8 | 6 | 25 | 6 | 8 | 2 | 6EB8 | 6 | 31 | 6 | 9 | 2 |
| 6DK6 | 6 | 31 | 6 | 7 | 2 | 6DR8 | 6 | 31 | 6 | 2 | 2 | 6DY4 | 6 | 25 | 6 | 1 | 2 | 6ED4 | 6 | 33 | 2 | 1 | 1 |
| 6DL4 | 6 | *85 | 7 | 8 | 2 | 6DS4 | 6 | 72 | 6 | 7 | 2 | 6DY5 | 6 | *33 | 2 | 6 | 1 | 6EB8 | 6 | 52 | 6 | 2 | 1 |
| *Normally shows short position 1-3-7-9. | | | | | | *For Grid Emission Turn C Switch Position 4. | | | | | | 6DZ4 | 6 | 71 | 2 | 9 | 2 | 6ED4 | 6 | 52 | 6 | 7 | 1 |
| 6DL5 | 6 | 34 | 1 | 7 | 1 | 6DS5 | 6 | *87 | 6 | 2 | 5 | 6DZ7 | 6 | *31 | 7 | 2 | 1 | 6EB8 | 6 | 33 | 6 | 7 | 2 |
| 6DM4 | 6 | 30 | 6 | 5 | 8 | 6DS8 | 6 | 33 | 1 | 7 | 1 | *Normally shows short position 1-7. | | | | | | 6EC4 | 6 | 34 | 6 | 2 | 2 |
| 6DN3 | 6 | 31 | 2 | 5 | 8 | 6DR4 | 6 | 30 | 6 | 2 | 2 | 6DZ8 | 6 | 40 | 6 | 1 | 3 | 6ED4 | 6 | 37 | 6 | 1 | 2 |
| 6DN6 | 6 | 33 | 6 | 5 | 3 | 6DT14 | 6 | 34 | 6 | 9 | 2 | *Normally shows short position 1-2-5-9. | | | | | | 6ED4 | 6 | 40 | 6 | 5 | 3 |
| | | | | | | | | | | | | *Use only TC-62B Adapter. **Connect Plate Cap to Adapter. | | | | | | *Normally shows short position 1-2-3-5-6. | | | | | |

*Normal Shorts refer to position of "C" Switch. † Do not connect Plate Cap to Adapter. Use TC-63 Adapter. Use TC-62-A Adapter. Use TC-70 Adapter. Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.) 14

| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | | |
|---|--------|-----|---|---|--------|---|--------|-----|----|---|--------|---|--------|-----|---|---|--------|---------------------------------|--------|-----|---|----|--------|--|--|
| 6GY5 | 6 | *25 | 5 | 9 | 9 | 6HC8 | 6 | 36 | 6 | 3 | 2 | 6HJ5 | 6 | *26 | 3 | 1 | 9 | 6HT5 | 6 | *56 | 2 | 6 | 9 | | |
| *Normally shows short position 1-3-4-7-10 | | | | | | 6HD5 | 6 | *27 | 3 | 1 | 9 | *Normally shows short position 4-5-9-10 | | | | | | 6HT6 | 6 | 28 | 3 | 2 | 2 | | |
| 6GY6 | 6 | 27 | 6 | 1 | 1 | *Normally shows short position 4-5-9-10 | | | | | | 6HJ7 | 6 | *82 | 1 | 7 | 2 | 6HU6 | 6 | *55 | 2 | 1 | 2 | | |
| 6GY8 | 6 | *32 | 6 | 1 | 2 | 6HD7 | 6 | 30 | 1 | 2 | 2 | *For grid emission turn C switch to position 2. | | | | | | 6HU8 | 6 | 29 | 6 | 2 | 2 | | |
| *32 6 3 2 | | | | | | 6HE5 | 6 | *32 | 10 | 2 | 9 | 6HJ8 | 6 | 29 | 6 | 2 | 2 | 6HV5 | 6 | *32 | 2 | 1 | 9 | | |
| *94 6 6 2 | | | | | | *Normally shows short position 1-3-4-10 | | | | | | 6HK5 | 6 | 27 | 2 | 1 | 1 | *Must show short position 3-10. | | | | | | | |
| *Normally shows short position 11. | | | | | | 6HE7 | 6 | 25 | 11 | 9 | 9 | 6HL5 | 6 | 30 | 2 | 7 | 2 | 6HW8 | 6 | 32 | 6 | 6 | 2 | | |
| 6GZ5 | 6 | 28 | 2 | 5 | 1 | 6HF5 | 6 | *25 | 10 | 5 | 9 | 6HL8 | 6 | 32 | 9 | 2 | 2 | 6HZ6 | 6 | 26 | 6 | 1 | 1 | | |
| 6H6 | 6 | 48 | 1 | 3 | 3 | *Normally shows short position 1-3-4-6-8-10 | | | | | | 6HM5 | 6 | 27 | 2 | 1 | 1 | 6HZ8 | 6 | 25 | 6 | 7 | 2 | | |
| 48 1 5 3 | | | | | | 6HF8 | 6 | 24 | 6 | 7 | 2 | 6HM6 | 6 | 24 | 3 | 2 | 2 | 6J5 | 6 | 42 | 1 | 5 | 3 | | |
| 6H31 | 6 | 35 | 6 | 1 | 1 | 6HG5 | 6 | 38 | 1 | 7 | 1 | 6HQ5 | 6 | 29 | 2 | 1 | 1 | 6J6 | 6 | 34 | 6 | 5 | 1 | | |
| 6HA5 | 6 | 27 | 2 | 1 | 1 | 6HG8 | 6 | 24 | 3 | 2 | 2 | 6HR5 | 6 | 30 | 8 | 1 | 1 | 34 6 6 1 | | | | | | | |
| 6HA6 | 6 | *27 | 3 | 2 | 2 | *Normally shows short position 1-3-4-6-8-10 | | | | | | 6HR6 | 6 | 24 | 6 | 1 | 1 | 6J7 | 6 | 50 | 1 | 10 | 3 | | |
| *Normally shows short position 6-8 | | | | | | 6HJ5 | 6 | 25 | 1 | 6 | 2 | 6HS5 | 6 | *26 | 2 | 1 | 9 | 6J9 | 6 | 26 | 6 | 2 | 2 | | |
| 6HB5 | 6 | *25 | 1 | 3 | 9 | *Normally shows short position 1-3-4-6-8-10 | | | | | | 6HS6 | 6 | 26 | 6 | 1 | 1 | 26 6 9 2 | | | | | | | |
| *Normally shows short position 4-10 | | | | | | 6HJ6 | 6 | 25 | 1 | 6 | 2 | 6HS8 | 6 | 30 | 6 | 7 | 2 | 6J10 | 6 | 99 | 6 | 6 | 9 | | |
| 6HB6 | 6 | *25 | 3 | 2 | 2 | *Normally shows short position 1-3-4-6-8-10 | | | | | | | | | | | | | | | | | | | |
| *Normally shows short position 6-8. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6HB7 | 6 | 27 | 1 | 2 | 2 | | | | | | | | | | | | | | | | | | | | |
| 27 1 9 2 | | | | | | | | | | | | | | | | | | | | | | | | | |

* Normal Shorts refer to position of "C" Switch. ▲ Use TC-63 Adapter. ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)
 † Do not connect Plate Cap to Adapter. □ Use TC-62-A Adapter. ▼ Use TC-70 Adapter.



| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|---|--------|-----|----|---|--------|-------------------------------------|--------|-----|---|---|--------|-----------------------------------|--------|-----|----|---|--------|--|--------|-----|----|----|--------|
| 6J11 | 6 | 28 | 6 | 1 | 9 | 6JE6■ | 6 | *29 | 5 | 1 | 18 | 6JQ6 | 6 | *35 | 8 | 8 | 2 | 6JW8 | 6 | 29 | 6 | 2 | 2 |
| 6JA8 | 6 | 26 | 6 | 1 | 9 | *Normally shows short position 2-4. | | | | | | 6JR6■ | 6 | 34 | 2 | 7 | 8 | 6JX8 | 6 | 26 | 6 | 2 | 2 |
| 26 6 1 9 | | | | | | 6JEB | 6 | 25 | 6 | 7 | 2 | *May show short position 2-3. | | | | | | 6JY8 | 6 | 30 | 6 | 7 | 2 |
| 99 6 3 2 | | | | | | *Normally shows short position 2-4. | | | | | | 6JS6 | 6 | *29 | 10 | 5 | 9 | *Normally shows short position 1-3-4-10. | | | | | |
| Normally shows short position 1-3-4-10. | | | | | | 6JF6■ | 6 | *26 | 5 | 1 | 8 | 6JT6■ | 6 | 27 | 2 | 5 | 18 | 6JZ6 | 6 | 30 | 6 | 2 | 2 |
| 6JB5 | 6 | *35 | 10 | 2 | 9 | *Normally shows short position 2-4. | | | | | | 6JT6A■ | 6 | 27 | 2 | 5 | 18 | *Some tubes may show short position 1-9. | | | | | |
| 6JB6■ | 6 | *29 | 5 | 1 | 18 | 6JG6■ | 6 | 24 | 2 | 5 | 18 | 6JT8 | 6 | 25 | 2 | 7 | 2 | 6JZ8 | 6 | 29 | 7 | 7 | 9 |
| *Normally shows short position 2-4. | | | | | | 6JG6A■ | 6 | 24 | 2 | 5 | 18 | 34 6 2 2 | | | | | | 40 7 10 9 | | | | | |
| 6JB6A■ | 6 | *29 | 5 | 1 | 18 | 6JH6 | 6 | 25 | 6 | 1 | 1 | 6JU6■ | 6 | 27 | 5 | 1 | 18 | 6K6 | 6 | 41 | 6 | 5 | 3 |
| *Normally shows short position 2-4. | | | | | | 6JH8 | 6 | 32 | 6 | 6 | 2 | 6JU8 | 6 | *42 | 2 | 1 | 2 | 6K7 | 6 | 52 | 1 | 10 | 3 |
| 6JC6 | 6 | 26 | 3 | 2 | 2 | 6JK6 | 6 | 26 | 6 | 1 | 1 | **42 9 7 2 | | | | | | 6K8 | 6 | 35 | 1 | 5 | 3 |
| 6JC6A | 6 | 26 | 3 | 2 | 2 | 6JK8 | 6 | 30 | 6 | 2 | 2 | *Normally shows short position 8 | | | | | | 6K11 | 6 | 35 | 6 | 1 | 9 |
| 6JC8 | 6 | 27 | 1 | 2 | 2 | 31 6 7 2 | | | | | | **Normally shows short position 2 | | | | | | 35 6 7 9 | | | | | |
| 27 1 8 2 | | | | | | 6JL6 | 6 | 26 | 6 | 1 | 1 | 6JU8A | 6 | *42 | 2 | 1 | 2 | 35 6 9 9 | | | | | |
| 6JD6 | 6 | 26 | 1 | 2 | 2 | 6JL8 | 6 | 35 | 6 | 2 | 2 | **42 9 7 2 | | | | | | 6KA8 | 6 | 26 | 6 | 6 | 2 |
| 6JE6C■ | 6 | *29 | 5 | 1 | 18 | 82 6 8 2 | | | | | | *Normally shows short position 2. | | | | | | 33 6 2 2 | | | | | |
| *Normally shows short position 2-4. | | | | | | 6JM6 | 6 | 26 | 4 | 5 | 9 | *Normally shows short position 8. | | | | | | 6KD6 | 6 | *25 | 10 | 5 | 9 |
| 6JN6 | 6 | 27 | 4 | 1 | 9 | 6JN8 | 6 | 26 | 6 | 9 | 2 | 33 6 2 2 | | | | | | *Normally shows short position 1-3-4-10. | | | | | |
| 26 6 1 2 | | | | | | | | | | | | | | | | | | | | | | | |

* Normal Shorts refer to position of "C" Switch. ▲ Use TC-63 Adapter. ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)
 † Do not connect Plate Cap to Adapter. □ Use TC-62-A Adapter. ▼ Use TC-70 Adapter.

| TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket |
|-----------|--------|----|---|----|--------|-------------------------------------|--------|-----|---|---|--------|-----------|--------|----|---|----|--------|-----------|--------|----|---|----|--------|
| 6S4 | 6 | 37 | 3 | 6 | 2 | 6SQ7 | 6 | 42 | 1 | 2 | 8 | 6T8A | 6 | 43 | 6 | 8 | 2 | 6V8 | 6 | 40 | 6 | 6 | 2 |
| 6S7 | 6 | 47 | 1 | 10 | 3 | | | 82 | 1 | 4 | 8 | | | 35 | 6 | 2 | 2 | | | 32 | 6 | 6 | 2 |
| 6S8 | 6 | 45 | 5 | 10 | 8 | 6SR7 | 6 | 46 | 1 | 5 | 8 | 6T9 | 6 | 35 | 6 | 1 | 2 | 6W4 | 6 | 61 | 6 | 9 | 2 |
| | | 62 | 5 | 1 | 8 | | | 68 | 1 | 4 | 8 | | | 27 | 6 | 8 | 9 | | | 32 | 6 | 5 | 8 |
| | | 62 | 5 | 4 | 8 | | | 68 | 1 | 5 | 8 | 6T10 | 6 | 27 | 6 | 4 | 9 | 6W6 | 6 | 35 | 6 | 5 | 3 |
| 6SA7 | 6 | 37 | 1 | 5 | 3 | 6SS7 | 6 | 46 | 1 | 4 | 3 | | | 33 | 6 | 3 | 9 | 6W7 | 6 | 50 | 6 | 10 | 3 |
| 6SB7Y | 6 | 34 | 1 | 5 | 3 | 6ST7 | 6 | 52 | 1 | 2 | 8 | 6U6 | 6 | 27 | 6 | 8 | 9 | 6X4 | 6 | 44 | 6 | 1 | 1 |
| 6SC7 | 6 | 48 | 1 | 3 | 8 | | | 72 | 1 | 4 | 8 | 6U7 | 6 | 36 | 6 | 5 | 3 | | | 44 | 6 | 6 | 3 |
| | | 48 | 1 | 4 | 8 | 6SU7 | 6 | 43 | 6 | 1 | 8 | 6U8 | 6 | 48 | 6 | 10 | 3 | 6X5 | 6 | 40 | 1 | 3 | 3 |
| 6SD7 | 6 | 35 | 6 | 4 | 3 | | | 43 | 6 | 4 | 8 | | | 33 | 6 | 2 | 2 | | | 40 | 1 | 5 | 3 |
| 6SF5 | 6 | 41 | 1 | 3 | 8 | 6SZ7 | | 44 | 1 | 2 | 8 | 6U10 | 6 | 33 | 6 | 9 | 2 | 6X6 | 6 | 48 | 6 | 3 | 3 |
| 6SF7 | 6 | 46 | 1 | 2 | 8 | | | 44 | 1 | 2 | 8 | | | 39 | 6 | 7 | 9 | 6X8 | 6 | 48 | 6 | 5 | 3 |
| | | 69 | 1 | 5 | 8 | | | 72 | 1 | 4 | 8 | | | 25 | 6 | 9 | 9 | | | 30 | 6 | 7 | 2 |
| 6SG7 | 6 | 34 | 5 | 4 | 3 | | | 72 | 1 | 5 | 8 | | | 39 | 6 | 1 | 9 | | | 32 | 6 | 2 | 2 |
| 6SH7 | 6 | 33 | 5 | 4 | 3 | 6T4 | 6 | *33 | 2 | 6 | 1 | 6V3 | 6 | 31 | 6 | 7 | 7 | 6Y6 | 6 | 36 | 6 | 5 | 3 |
| 6SJ7 | 6 | 35 | 1 | 4 | 3 | *Normally shows short position 1-7. | | | | | | 6V4 | 6 | 40 | 6 | 1 | 2 | 6Y10 | 6 | 29 | 4 | 3 | 9 |
| 6SK7 | 6 | 40 | 1 | 4 | 3 | 6T8 | 6 | 43 | 6 | 8 | 2 | | | 40 | 6 | 7 | 2 | | | 29 | 4 | 8 | 9 |
| 6SL7 | 6 | 43 | 6 | 1 | 8 | | | 35 | 6 | 2 | 2 | 6V6 | 6 | 40 | 6 | 7 | 2 | | | 30 | 6 | 1 | 9 |
| | | 43 | 6 | 4 | 8 | | | 35 | 6 | 1 | 2 | | | 41 | 1 | 5 | 3 | | | 95 | 6 | 6 | 9 |
| 6SN7 | 6 | 44 | 6 | 1 | 8 | | | 35 | 6 | 6 | 2 | | | | | | | 6Z10 | 6 | 30 | 6 | 1 | 9 |
| | | 44 | 6 | 4 | 8 | | | | | | | | | | | | | | | 44 | 6 | 6 | 1 |
| | | | | | | | | | | | | | | | | | | | | 44 | 6 | 6 | 1 |

*Normal Shorts refer to position of "C" Switch.
: Do not connect Plate Cap to Adapter.

▲ Use TC-63 Adapter.
□ Use TC-62-A Adapter.
▼ Use TC-70 Adapter.

■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

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| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | |
|-----------|--------|----|----|---|--------|-----------|--------|----|---|---|--------|-----------|--------|----|---|---|--------|-----------|--------|----|----|---|--------|---|
| 6ZY5 | 6 | 43 | 6 | 3 | 3 | 7B6 | 6 | 40 | 4 | 3 | 4 | 7F7 | 6 | 45 | 6 | 4 | 4 | 7M-P18 | 7 | 35 | 1 | 7 | 1 | |
| | | 43 | 6 | 5 | 3 | | | 68 | 4 | 5 | 4 | | | 45 | 6 | 5 | 4 | 7N7 | 6 | 42 | 6 | 4 | 4 | |
| 7A4 | 6 | 41 | 6 | 6 | 4 | 7B7 | 6 | 45 | 6 | 6 | 4 | 7FC7 | 7 | 29 | 6 | 2 | 2 | | | 42 | 6 | 5 | 4 | |
| 7A5 | 6 | 34 | 6 | 6 | 4 | 7B8 | 6 | 42 | 6 | 4 | 4 | 7G7 | 6 | 29 | 2 | 6 | 2 | 7Q7 | 6 | 35 | 6 | 4 | 4 | |
| 7A6 | 6 | 48 | 6 | 3 | 4 | | | | | | | | | 36 | 6 | 6 | 4 | 7R7 | 6 | 35 | 6 | 6 | 4 | |
| | | 48 | 6 | 6 | 4 | 7C4 | 6 | 53 | 6 | 4 | 4 | 7GS7 | 7 | 30 | 9 | 9 | 2 | | | 72 | 6 | 3 | 4 | |
| 7A7 | 6 | 45 | 6 | 6 | 4 | 7C5 | 6 | 38 | 6 | 6 | 4 | | | 30 | 9 | 1 | 2 | | | 72 | 6 | 4 | 4 | |
| 7A8 | 6 | 40 | 6 | 4 | 4 | 7C6 | 6 | 50 | 4 | 3 | 4 | 7GV7 | 7 | 33 | 9 | 9 | 2 | 7S7 | 6 | 38 | 6 | 6 | 4 | |
| 7AD7 | 6 | 35 | 6 | 6 | 4 | | | 68 | 4 | 5 | 4 | | | 30 | 9 | 7 | 2 | | | 52 | 6 | 4 | 4 | |
| 7AF7 | 6 | 41 | 6 | 4 | 4 | | | 68 | 4 | 6 | 4 | 7H7 | 6 | 35 | 6 | 6 | 4 | 7V7 | 6 | 32 | 6 | 6 | 4 | |
| | | 41 | 6 | 5 | 4 | 7C7 | 6 | 37 | 6 | 6 | 4 | 7HG8 | 7 | 24 | 3 | 2 | 2 | | | 31 | 4 | 6 | 4 | |
| 7AG7 | 6 | 32 | 6 | 6 | 4 | 7DJ8 | 7 | 31 | 6 | 2 | 2 | | | 25 | 1 | 6 | 2 | 7W7 | 6 | 31 | 4 | 6 | 4 | |
| 7AH7 | 6 | 32 | 6 | 6 | 4 | | | 31 | 6 | 7 | 2 | 7J7 | 6 | 35 | 6 | 6 | 4 | 7X6 | 6 | 35 | 6 | 3 | 4 | |
| 7AK7 | 6 | 33 | 6 | 6 | 4 | 7E6 | 6 | 40 | 4 | 3 | 4 | | | 50 | 6 | 4 | 4 | | | 35 | 6 | 6 | 4 | |
| 7AN7 | 7 | 33 | 8 | 2 | 2 | | | 69 | 4 | 5 | 4 | 7K7 | 6 | 45 | 6 | 4 | 4 | 7X7 | 6 | 43 | 6 | 3 | 4 | |
| | | 33 | 8 | 6 | 2 | 7E7 | 6 | 47 | 6 | 6 | 4 | | | | | | | | | 36 | 6 | 5 | 4 | |
| 7AU7 | 7 | 40 | 10 | 2 | 2 | | | 69 | 4 | 6 | 4 | | | 65 | 6 | 5 | 4 | | | 35 | 6 | 6 | 4 | |
| | | 40 | 10 | 7 | 2 | 7E8 | 7 | 30 | 6 | 2 | 2 | 7KY6 | 7 | 27 | 3 | 2 | 2 | 7Y4 | 6 | 45 | 6 | 3 | 4 | |
| 7B4 | 6 | 40 | 6 | 6 | 4 | | | 68 | 6 | 3 | 4 | 7KZ6 | 7 | 26 | 3 | 2 | 2 | 7Z4 | 6 | 50 | 6 | 3 | 4 | |
| 7B5 | 6 | 52 | 6 | 6 | 4 | 7ES8 | 7 | 30 | 6 | 2 | 2 | 7L7 | 6 | 36 | 6 | 6 | 4 | | | 50 | 6 | 6 | 4 | |
| | | | | | | 7EY6 | 7 | 30 | 6 | 7 | 2 | | | | | | | | | | 34 | 6 | 9 | 2 |
| | | | | | | | | 35 | 6 | 5 | 3 | | | | | | | | | | | | | |

6S4-8A8

*Normal Shorts refer to position of "C" Switch.
: Do not connect Plate Cap to Adapter.

▲ Use TC-63 Adapter.
□ Use TC-62-A Adapter.
▼ Use TC-70 Adapter.

■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

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| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|-----------|--------|----|---|----|--------|-----------|--------|----|---|----|--------|-----------|--------|-----|----|----|--------|-----------|--------|----|---|---|--------|
| 8AC9 | 8 | 28 | 3 | 9 | 9 | 8B10 | 8 | 43 | 6 | 3 | 9 | 8BU11 | 8 | 28 | 6 | 8 | 9 | 8CX8 | 8 | 33 | 6 | 7 | 2 |
| | | 47 | 3 | 2 | 9 | | | 43 | 6 | 5 | 9 | | | 28 | 6 | 4 | 9 | | | 34 | 6 | 2 | 2 |
| | | 35 | 2 | 3 | 9 | | | 34 | 6 | 8 | 9 | | | 28 | 6 | 6 | 9 | | | 35 | 2 | 1 | 1 |
| 8AC10 | 8 | 30 | 6 | 1 | 9 | 8BA8 | 8 | 31 | 6 | 10 | 9 | 8CB11 | 8 | 28 | 6 | 5 | 9 | 8CY5 | 8 | 31 | 2 | 3 | 2 |
| | | 30 | 6 | 7 | 9 | | | 37 | 6 | 7 | 2 | | | 28 | 6 | 10 | 9 | 8CY7 | 8 | 45 | 2 | 7 | 2 |
| | | 30 | 6 | 9 | 9 | 8BA11 | 8 | 29 | 6 | 2 | 2 | 8CG7 | 8 | 45 | 6 | 2 | 2 | 8DE7 | 8 | 33 | 2 | 3 | 2 |
| 8AL9 | 8 | 30 | 6 | 5 | 9 | | | 37 | 6 | 2 | 2 | | | 45 | 6 | 7 | 2 | | | 44 | 2 | 7 | 2 |
| | | 28 | 6 | 1 | 9 | 8BH8 | 8 | 34 | 6 | 9 | 9 | 8CH8 | 8 | 33 | 6 | 7 | 2 | 8DX8 | 8 | 25 | 6 | 8 | 2 |
| 8AR11 | 8 | 28 | 6 | 5 | 9 | | | 33 | 6 | 2 | 2 | | | 36 | 6 | 8 | 2 | | | 25 | 6 | 1 | 2 |
| | | 28 | 6 | 10 | 9 | 8BM11 | 8 | 29 | 6 | 6 | 9 | 8CL8 | 8 | 32 | 6 | 9 | 2 | 8EB8 | 8 | 33 | 6 | 7 | 2 |
| 8AU8 | 8 | 31 | 6 | 7 | 2 | | | 29 | 6 | 1 | 9 | | | 32 | 6 | 1 | 2 | | | 34 | 6 | 2 | 2 |
| | | 32 | 6 | 2 | 2 | 8BN8 | 8 | 35 | 6 | 8 | 2 | 8CM7 | 8 | 40 | 6 | 7 | 2 | 8EM5 | 8 | 36 | 3 | 6 | 2 |
| 8AV11 | 8 | 35 | 6 | 1 | 9 | | | 35 | 6 | 1 | 2 | | | 35 | 6 | 8 | 2 | 8ET7 | 8 | 30 | 6 | 7 | 2 |
| | | 35 | 6 | 7 | 9 | | | 35 | 6 | 6 | 2 | 8CN7 | 8 | 44 | 10 | 7 | 2 | | | 82 | 6 | 2 | 2 |
| | | 35 | 6 | 9 | 9 | 8BN11 | 8 | 25 | 6 | 3 | 9 | | | 33 | 10 | 1 | 2 | | | 82 | 6 | 3 | 2 |
| 8AW8 | 8 | 32 | 6 | 7 | 2 | | | 25 | 6 | 7 | 9 | 8CS7 | 8 | 34 | 6 | 3 | 2 | 8FQ7 | 8 | 36 | 6 | 2 | 2 |
| | | 33 | 6 | 2 | 2 | 8BQ5 | 8 | 33 | 1 | 2 | 2 | | | 47 | 6 | 7 | 2 | | | 36 | 6 | 7 | 2 |
| 8B8 | 8 | 33 | 6 | 3 | 2 | 8BQ7 | 8 | 32 | 6 | 2 | 2 | 8CU8 | 8 | 32 | 1 | 7 | 2 | 8GJ7 | 8 | 24 | 3 | 2 | 2 |
| | | 39 | 6 | 1 | 2 | 8BQ11 | 8 | 26 | 6 | 5 | 9 | | | 33 | 7 | 8 | 2 | | | 26 | 3 | 9 | 2 |
| | | | | | | | | 26 | 6 | 10 | 9 | 8CW5 | 8 | *30 | 1 | 2 | 2 | 8GM6 | 8 | 30 | 6 | 1 | 1 |
| | | | | | | | | | | | | | | | | | | 8GN8 | 8 | 33 | 6 | 7 | 2 |
| | | | | | | | | | | | | | | | | | | | | 35 | 6 | 2 | 2 |

*Normal Shorts refer to position of "C" Switch. Do not connect Plate Cap to Adapter.
 ▲ Use TC-63 Adapter.
 □ Use TC-62-A Adapter.
 ▼ Use TC-70 Adapter.
 ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)



| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|-----------|--------|-----|---|---|--------|-----------|--------|-----|---|---|--------|-----------|--------|----|---|----|--------|-----------|--------|----|----|---|--------|
| 8GU7 | 8 | 31 | 6 | 2 | 2 | 8JV8 | 8 | 25 | 6 | 7 | 2 | 8MD8 | 8 | 35 | 6 | 1 | 8 | 9AK10 | 9 | 30 | 6 | 1 | 9 |
| | | 31 | 6 | 7 | 2 | | | 33 | 6 | 2 | 2 | | | 35 | 6 | 3 | 8 | | | 30 | 6 | 7 | 9 |
| 8GX7 | 8 | 26 | 3 | 2 | 2 | 8K11 | 8 | 35 | 6 | 1 | 9 | | | 35 | 6 | 10 | 8 | 9AQ8 | 9 | 32 | 6 | 2 | 2 |
| | | 26 | 3 | 9 | 2 | | | 35 | 6 | 7 | 9 | 8M-P12 | 8 | 34 | 6 | 1 | 1 | | | 32 | 6 | 7 | 2 |
| 8HA6 | 8 | *27 | 3 | 2 | 2 | | | 35 | 6 | 9 | 9 | 8MU8 | 8 | 31 | 6 | 2 | 2 | 9AU7 | 9 | 40 | 10 | 2 | 2 |
| | | | | | | 8KA8 | 8 | 26 | 6 | 6 | 2 | | | 31 | 6 | 9 | 2 | | | 40 | 10 | 7 | 2 |
| | | | | | | | | 33 | 6 | 2 | 2 | 8R-HP1 | 8 | 33 | 6 | 3 | 2 | 9BJ11 | 9 | 26 | 6 | 1 | 9 |
| | | | | | | 8KR8 | 8 | 24 | 6 | 7 | 2 | | | 39 | 6 | 1 | 2 | | | 26 | 6 | 6 | 9 |
| | | | | | | | | 26 | 6 | 2 | 2 | 8RLP1 | 8 | 29 | 6 | 3 | 2 | 9BR7 | 9 | 32 | 10 | 2 | 2 |
| | | | | | | 8KS8 | 8 | *27 | 6 | 7 | 2 | | | 36 | 6 | 1 | 2 | | | 37 | 10 | 6 | 2 |
| | | | | | | | | *31 | 6 | 2 | 2 | 8SN7 | 8 | 44 | 6 | 1 | 8 | 9BR8 | 9 | 32 | 6 | 9 | 2 |
| | | | | | | | | | | | | | | 44 | 6 | 4 | 8 | | | 37 | 10 | 7 | 2 |
| | | | | | | 8KT8 | 8 | 28 | 6 | 7 | 2 | 9A8 | 9 | 31 | 6 | 2 | 2 | 9CG8A | 9 | 30 | 3 | 9 | 2 |
| | | | | | | | | 28 | 6 | 2 | 2 | | | 34 | 6 | 9 | 2 | | | 31 | 6 | 1 | 2 |
| | | | | | | 8LC8 | 8 | 25 | 3 | 6 | 2 | 9AH9 | 9 | 37 | 5 | 2 | 9 | 9CL8 | 9 | 32 | 6 | 1 | 2 |
| | | | | | | | | 32 | 7 | 2 | 2 | | | 30 | 5 | 6 | 9 | | | 32 | 3 | 1 | 2 |
| | | | | | | 8LE8 | 8 | 29 | 6 | 9 | 2 | 9AK8 | 9 | 43 | 6 | 8 | 2 | 9DZ8 | 9 | 30 | 6 | 3 | 2 |
| | | | | | | 8LT8 | 8 | 26 | 8 | 9 | 2 | | | 35 | 6 | 2 | 2 | | | 32 | 6 | 1 | 2 |
| | | | | | | | | 30 | 1 | 6 | 2 | | | 35 | 6 | 1 | 2 | 9EA8 | 9 | 30 | 6 | 2 | 2 |
| | | | | | | | | 30 | 1 | 8 | 2 | | | 35 | 6 | 6 | 2 | | | 31 | 6 | 9 | 2 |

8AC9-9EA8
 *Normally shows short position 8.
 **Normally shows short position 2.
 ▲ Use TC-63 Adapter.
 □ Use TC-62-A Adapter.
 ▼ Use TC-70 Adapter.
 ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | |
|--|--------|------|---|----|--------|-----------|--------|----|---|---|--------|-----------|--------|-----|---|----|--------|-----------|--------|----|-----|---|--------|---|
| 9ED4 | 9 | **54 | 6 | 10 | 8 | 9LA6 | 9 | 30 | 3 | 2 | 2 | 10C8 | 10 | 32 | 6 | 8 | 2 | 10EM7 | 10 | 32 | 6 | 1 | 8 | |
| **Connect Plate Cap to Adapter. *Normally shows short position 1-2-3-5-6. | | | | | | 9M-HH3 | 9 | 34 | 6 | 5 | 1 | 10CW5 | 10 | *30 | 1 | 2 | 2 | 10EW7 | 10 | 31 | 2 | 3 | 2 | |
| 9GH8A | 9 | 31 | 6 | 2 | 2 | 9MN8 | 9 | 33 | 8 | 8 | 9 | 10D2 | 19 | 33 | 6 | 2 | 1 | 10FD7 | 10 | 45 | 2 | 7 | 2 | |
| 9HS6 | 9 | 26 | 6 | 1 | 1 | 9M-P12 | 9 | 33 | 8 | 1 | 9 | 10DE7 | 10 | 33 | 6 | 7 | 1 | 10FR7 | 10 | 38 | 2 | 7 | 2 | |
| 9GV8 | 9 | 29 | 6 | 9 | 2 | 9R-A6 | 9 | 44 | 6 | 1 | 1 | 10DR7 | 10 | 33 | 2 | 3 | 2 | 10GF7 | 10 | 25 | 2 | 3 | 2 | |
| 9J6 | 9 | 34 | 6 | 5 | 1 | 9R-AL1 | 9 | 35 | 6 | 7 | 7 | 10DX8 | 10 | 44 | 2 | 7 | 2 | 10GH8 | 10 | 35 | 2 | 7 | 2 | |
| 9JW8 | 9 | 29 | 6 | 2 | 2 | 9R-HR2 | 9 | 35 | 2 | 3 | 2 | 10E/312 | 25 | 32 | 2 | 3 | 2 | 10GV8 | 10 | 26 | 6 | 5 | 18 | |
| 9KC6 | 9 | 34 | 6 | 9 | 2 | 9U8 | 9 | 31 | 6 | 2 | 2 | 10E/349 | 6 | 41 | 6 | 5 | 3 | 10HA6 | 10 | 41 | 6 | 3 | 18 | |
| 9KG6 | 9 | 27 | 6 | 2 | 2 | 9X8 | 9 | 33 | 6 | 9 | 2 | 10E/558 | 6 | 52 | 6 | 10 | 3 | 10GN8 | 10 | 24 | 2 | 3 | 2 | |
| 9KX6 | 9 | 90 | 6 | 9 | 2 | 10AF11 | 10 | 32 | 6 | 2 | 2 | 10E/11448 | 6 | 42 | 6 | 5 | 3 | 10GV8 | 10 | 38 | 2 | 7 | 2 | |
| 9KZ8 | 9 | 26 | 6 | 2 | 2 | 10AL11 | 10 | 31 | 6 | 1 | 9 | 10E/11533 | 6 | 39 | 6 | 5 | 3 | 10HA6 | 10 | 31 | 6 | 2 | 2 | |
| *Normally shows short position 1-2-5-6. | | | | | | 10BQ5 | 10 | 31 | 6 | 6 | 9 | 10E/11581 | 6 | 40 | 6 | 10 | 3 | 10GK6 | 10 | 31 | 6 | 9 | 2 | |
| 9KV8 | 9 | 27 | 6 | 7 | 2 | | | 35 | 6 | 3 | 9 | 10EB8 | 10 | 33 | 6 | 7 | 2 | 10GM8 | 10 | 33 | 3 | 2 | 2 | |
| 9KX6 | 9 | 27 | 3 | 2 | 2 | | | 31 | 6 | 3 | 9 | 10EG7 | 10 | 34 | 6 | 2 | 2 | 10GN8 | 10 | 33 | 6 | 7 | 2 | |
| 9KZ8 | 9 | 26 | 6 | 2 | 2 | | | 27 | 6 | 8 | 9 | | | 45 | 6 | 4 | 8 | 10GV8 | 10 | 35 | 6 | 2 | 2 | |
| | | 25 | 6 | 9 | 2 | | | 33 | 1 | 2 | 2 | | | | | | | 10HA6 | 10 | 29 | 6 | 9 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | *27 | 3 | 2 | 2 |

*Normal Shorts refer to position of "C" Switch. ▲ Use TC-63 Adapter. ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel. 25)
 † Do not connect Plate Cap to Adapter. □ Use TC-62-A Adapter. ▼ Use TC-70 Adapter.



| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|-----------|--------|-------------------------------------|---|---|--------|-----------|--------|----|---|----|--------|-----------|--------|----|---|----|--------|-------------------------------------|--------|-----|----|---|--------|
| 10HF8 | 10 | 24 | 6 | 7 | 2 | 10LE8 | 10 | 35 | 6 | 6 | 2 | 11BT11 | 11 | 27 | 7 | 1 | 9 | 11LT8 | 11 | 26 | 8 | 9 | 2 |
| 10JA8 | 10 | 25 | 6 | 7 | 2 | 10LW8 | 10 | 29 | 6 | 9 | 2 | | | 30 | 9 | 5 | 9 | | | 30 | 1 | 6 | 2 |
| 10JT8 | 10 | 99 | 6 | 3 | 2 | 10LY8 | 10 | 27 | 6 | 7 | 2 | 11C5 | 12 | 26 | 9 | 3 | 9 | 11MS8 | 11 | 30 | 1 | 8 | 2 |
| 10JY8 | 11 | 25 | 2 | 7 | 2 | 10LZ8 | 10 | 26 | 6 | 7 | 2 | 11CA11 | 11 | 38 | 2 | 5 | 1 | | | 29 | 6 | 9 | 2 |
| 10KR8 | 10 | 34 | 6 | 2 | 2 | 10T10 | 10 | 38 | 6 | 2 | 2 | | | 33 | 9 | 6 | 9 | 11R3 | 11 | 30 | 2 | 9 | 2 |
| 10KU8 | 10 | 26 | 6 | 7 | 2 | 10Z10 | 10 | 34 | 6 | 2 | 2 | 11CY7 | 12 | 33 | 8 | 8 | 9 | 12A4 | 12 | 32 | 3 | 7 | 7 |
| 10LB8 | 10 | 26 | 6 | 2 | 2 | 11AR11 | 11 | 29 | 6 | 7 | 2 | 11DS5 | 11 | 45 | 2 | 7 | 2 | 12A6 | 12 | 45 | 6 | 5 | 3 |
| 10LD6 | 10 | 24 | 6 | 7 | 2 | 11BM8 | 11 | 27 | 6 | 8 | 9 | 11FY7 | 11 | 33 | 1 | 7 | 1 | 12A8 | 12 | 45 | 6 | 5 | 3 |
| 10LD12 | 10 | 26 | 6 | 2 | 2 | 11BN11 | 11 | 30 | 6 | 1 | 9 | 11HM7 | 10 | 25 | 9 | 3 | 9 | 12AB5 | 12 | *42 | 3 | 6 | 2 |
| | | 65 | 6 | 2 | 2 | 11BQ11 | 11 | 95 | 6 | 6 | 9 | 11JE8 | 11 | 43 | 9 | 10 | 9 | *Normally shows short position 1-8. | | | | | |
| | | 65 | 6 | 3 | 2 | | | 28 | 6 | 5 | 9 | 11KV8 | 11 | 25 | 7 | 2 | 2 | 12AC6 | 12 | 42 | 6 | 1 | 1 |
| | | 39 | 6 | 2 | 2 | | | 28 | 6 | 10 | 9 | 11LQ8 | 11 | 25 | 6 | 7 | 2 | 12AD6 | 12 | 35 | 6 | 1 | 1 |
| | | 39 | 6 | 2 | 2 | | | 39 | 6 | 1 | 2 | | | 26 | 6 | 2 | 2 | 12AD7 | 12 | 40 | 10 | 2 | 2 |
| | | *29 | 7 | 2 | 2 | | | 25 | 6 | 7 | 9 | | | 26 | 6 | 2 | 2 | | | 40 | 10 | 7 | 2 |
| | | *Normally shows short position 3-9. | | | | | | 25 | 6 | 7 | 9 | | | 34 | 6 | 2 | 2 | 12AE6 | 12 | 40 | 10 | 7 | 2 |
| | | | | | | | | 26 | 6 | 5 | 9 | | | 26 | 6 | 2 | 2 | | | 40 | 10 | 7 | 2 |
| | | | | | | | | 26 | 6 | 10 | 9 | | | 26 | 6 | 2 | 2 | 12AE7 | 12 | 52 | 6 | 1 | 1 |
| | | | | | | | | | | | | | | 26 | 6 | 2 | 2 | | | 66 | 6 | 5 | 1 |
| | | | | | | | | | | | | | | 34 | 6 | 2 | 2 | 12AE10 | 12 | 66 | 6 | 6 | 1 |
| | | | | | | | | | | | | | | 26 | 6 | 2 | 2 | | | 32 | 10 | 2 | 2 |
| | | | | | | | | | | | | | | 26 | 6 | 2 | 2 | | | 32 | 10 | 7 | 2 |
| | | | | | | | | | | | | | | | | | | | | 31 | 6 | 3 | 9 |

*Normal Shorts refer to position of "C" Switch. ▲ Use TC-63 Adapter. ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel. 26)
 † Do not connect Plate Cap to Adapter. □ Use TC-62-A Adapter. ▼ Use TC-70 Adapter.

9ED4-12AE10

| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | | |
|-----------|--------|----|---|----|--------|-----------|--------|----|----|----|--------|-----------|--------|-----|----|----|--------|-----------|--------|----|----|----|--------|---|--|
| 12AF3 | 12 | 32 | 2 | 9 | 2 | 12AT6 | 12 | 39 | 6 | 1 | 1 | 12AY3 | 12 | 30 | 5 | 2 | 18 | 12BF6 | 12 | 50 | 6 | 1 | 1 | | |
| 12AF6 | 12 | 37 | 6 | 1 | 1 | | | 72 | 6 | 5 | 1 | 12AY3A | 12 | 30 | 5 | 2 | 18 | | | | | | | | |
| 12AF11 | 12 | 28 | 6 | 8 | 9 | 12AT7 | 12 | 72 | 6 | 6 | 1 | 12AY7 | 12 | 44 | 10 | 2 | 2 | | | | | | | | |
| | | 34 | 6 | 5 | 9 | | | 32 | 10 | 2 | 2 | | | 44 | 10 | 7 | 2 | 12BF11 | 12 | 66 | 6 | 6 | 1 | 1 | |
| | | 34 | 6 | 10 | 9 | | | 32 | 10 | 7 | 2 | 12AZ7 | 12 | 33 | 10 | 2 | 2 | | | | | | | | |
| 12AG6 | 12 | 35 | 6 | 1 | 1 | 12AU5 | 12 | 40 | 6 | 1 | 3 | | | 33 | 10 | 7 | 2 | | | | | | | | |
| 12AH7 | 12 | 48 | 6 | 1 | 8 | 12AU6 | 12 | 33 | 6 | 1 | 1 | 12B4 | 12 | 35 | 3 | 7 | 7 | 12BH7 | 12 | 35 | 10 | 2 | 2 | | |
| | | 48 | 6 | 5 | 8 | 12AU7 | 12 | 40 | 10 | 2 | 2 | 12B7 | 12 | 45 | 6 | 6 | 4 | | | | | | | | |
| 12AJ6 | 12 | 40 | 6 | 1 | 1 | | | 40 | 10 | 7 | 2 | 12BA6 | 12 | 33 | 2 | 1 | 1 | 12BK5 | 12 | 37 | 3 | 7 | 2 | | |
| | | 66 | 6 | 5 | 1 | 12AU8 | 12 | 31 | 6 | 7 | 2 | 12BA7 | 12 | 33 | 6 | 2 | 2 | 12BK6 | 12 | 39 | 6 | 1 | 1 | | |
| | | 66 | 6 | 6 | 1 | | | 32 | 6 | 2 | 2 | | | 28 | 6 | 4 | 9 | | | | | | | | |
| 12AJ7 | 12 | 32 | 6 | 2 | 2 | 12AV5 | 12 | 33 | 6 | 1 | 3 | 12BA11 | 12 | 36 | 6 | 9 | 9 | | | | | | | | |
| | | 35 | 6 | 9 | 2 | 12AV6 | 12 | 40 | 6 | 1 | 1 | | | *33 | 4 | 5 | 8 | 12BL6 | 12 | 57 | 6 | 6 | 1 | | |
| 12AL5 | 12 | 33 | 6 | 2 | 1 | | | 78 | 6 | 5 | 1 | | | | | | | | | | | | | | |
| | | 33 | 6 | 7 | 1 | | | 78 | 6 | 6 | 1 | | | | | | | | | | | | | | |
| 12AL8 | 12 | 34 | 6 | 3 | 2 | 12AV7 | 12 | 32 | 10 | 2 | 2 | | | | | | | | | | | | | | |
| | | 52 | 6 | 8 | 2 | | | 32 | 10 | 7 | 2 | 12BC32 | 12 | 40 | 6 | 1 | 1 | 12BR7 | 12 | 32 | 10 | 2 | 2 | | |
| 12AL11 | 12 | 31 | 6 | 3 | 9 | 12AW6 | 12 | 38 | 6 | 1 | 1 | | | | | | | | | | | | | | |
| | | 27 | 6 | 8 | 9 | 12AX3 | 12 | 34 | 4 | 10 | 9 | | | | | | | | | | | | | | |
| 12AQ5 | 12 | 35 | 1 | 7 | 1 | 12AX4 | 12 | 35 | 6 | 5 | 8 | | | | | | | | | | | | | | |
| 12AS5 | 12 | 36 | 2 | 5 | 1 | 12AX7 | 12 | 42 | 10 | 2 | 2 | 12BD5 | 12 | 43 | 6 | 1 | 1 | 12BS3 | 12 | 27 | 2 | 5 | 18 | | |
| | | | | | | | | 42 | 10 | 7 | 2 | 12BE3 | 12 | 26 | 4 | 10 | 9 | 12BT3 | 12 | 27 | 4 | 10 | 9 | | |
| | | | | | | | | | | | | 12BE6 | 12 | 35 | 6 | 1 | 1 | | | | | | | | |

*Normal Shorts refer to position of "C" Switch.
 † Do not connect Plate Cap to Adapter.
 ▲ Use TC-63 Adapter.
 □ Use TC-62-A Adapter.
 ▼ Use TC-70 Adapter.
 ■ Use TC-62-B Adapter or Novar Socket If Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)



| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | |
|-------------|--------|-------------------------------------|----|----|--------|-----------|--------|------------------------------|---|----|--------|-----------|--------|-------------------------------------|----|---|--------|-----------|--------|-----|----|---|--------|--|
| 12BT6 | 12 | 39 | 6 | 1 | 1 | | | 65 | 6 | 4 | 3 | 12DB5 | 12 | *38 | 3 | 6 | 2 | 12DQ7 | 12 | *32 | 7 | 2 | 2 | |
| | | 64 | 6 | 5 | 1 | | | 65 | 6 | 5 | 3 | | | *Normally shows short position 2-7. | | | | | | | | | | |
| 12BU6 | 12 | 50 | 6 | 1 | 1 | 12C8Y | 12 | 55 | 6 | 10 | 3 | 12DE8 | 12 | 36 | 6 | 1 | 2 | 12DS7 | 12 | 34 | 6 | 3 | 2 | |
| | | 66 | 6 | 5 | 1 | | | 65 | 6 | 4 | 3 | | | 34 | 6 | 3 | 2 | | | | | | | |
| | | 66 | 6 | 6 | 1 | 12CA5 | 12 | 32 | 2 | 5 | 1 | 12DF5 | 12 | 52 | 10 | 1 | 2 | | | | | | | |
| 12BV7 | 12 | *31 | 7 | 2 | 2 | 12CK3 | 12 | 25 | 2 | 5 | 18 | | | 52 | 10 | 6 | 2 | | | | | | | |
| | | *Normally shows short position 3-9. | | | | 12CL3 | 12 | 27 | 5 | 2 | 18 | 12DF7 | 12 | 40 | 10 | 2 | 2 | 12DT5 | 12 | *38 | 3 | 6 | 2 | |
| 12BV11 | 12 | 27 | 6 | 6 | 9 | 12CM6 | 12 | 40 | 3 | 6 | 2 | | | 40 | 10 | 7 | 2 | | | | | | | |
| | | 27 | 6 | 7 | 9 | 12CN5 | 12 | 33 | 2 | 5 | 1 | 12DJ8 | 12 | 31 | 6 | 2 | 2 | 12DT6 | 12 | 33 | 6 | 1 | 1 | |
| 12BW4 | 12 | 50 | 6 | 1 | 2 | 12CR6 | 12 | 39 | 6 | 7 | 1 | | | 31 | 6 | 7 | 2 | 12DT7 | 12 | 41 | 10 | 2 | 2 | |
| | | 50 | 6 | 7 | 2 | | | 61 | 6 | 2 | 1 | 12DK6 | 12 | 33 | 6 | 1 | 1 | | | | | | | |
| 12BX6 | 12 | 33 | 1 | 2 | 2 | 12CS6 | 12 | 35 | 6 | 1 | 1 | 12DK7 | 12 | 33 | 9 | 1 | 2 | 12DT8 | 12 | 30 | 6 | 2 | 2 | |
| 12BY7 | 12 | *34 | 7 | 2 | 2 | 12CT3 | 12 | 32 | 2 | 6 | 2 | | | 80 | 9 | 6 | 2 | | | | | | | |
| | | *Normally shows short position 3-9. | | | | 12CT8 | 12 | 35 | 6 | 8 | 2 | 12DL8 | 12 | 80 | 9 | 9 | 2 | 12DU7 | 12 | 31 | 6 | 1 | 2 | |
| 12BZ6 | 12 | 31 | 6 | 1 | 1 | | | 37 | 6 | 2 | 2 | | | 80 | 9 | 9 | 2 | | | | | | | |
| 12BZ7 | 12 | 35 | 10 | 2 | 2 | 12CU5 | 12 | *33 | 2 | 5 | 1 | | | 35 | 6 | 3 | 2 | 12DV7 | 12 | 77 | 6 | 9 | 2 | |
| | | 35 | 10 | 7 | 2 | | | *It may show short pin 1-11. | | | | 12DM4 | 12 | 30 | 6 | 5 | 8 | | | | | | | |
| 12C5 | 12 | 35 | 2 | 5 | 1 | 12CU6 | 12 | 35 | 6 | 5 | 3 | 12DQ4 | 12 | 32 | 6 | 5 | 8 | 12DT8 | 12 | 30 | 6 | 2 | 2 | |
| 12C8 | 12 | 55 | 6 | 10 | 3 | 12CX6 | 12 | 30 | 6 | 1 | 1 | 12DQ6 | 12 | 34 | 6 | 5 | 3 | | | | | | | |
| | | | | | | 12D4 | 12 | 33 | 6 | 5 | 8 | 12DQ6B | 12 | 30 | 6 | 5 | 3 | 12DU7 | 12 | 31 | 6 | 1 | 2 | |
| 12AF3-12DV8 | | | | | | 12DA6 | 12 | 34 | 1 | 2 | 2 | | | | | | | 12DV8 | 12 | 77 | 6 | 7 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

*Normal Shorts refer to position of "C" Switch.
 † Do not connect Plate Cap to Adapter.
 ▲ Use TC-63 Adapter.
 □ Use TC-62-A Adapter.
 ▼ Use TC-70 Adapter.
 ■ Use TC-62-B Adapter or Novar Socket If Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|-----------|--------|----|----|---|--------|-----------|--------|----|---|----|--------|------------------------------------|--------|-----|----|---|-------------------------------------|--|--------|-----|----|----|--------|
| 12DW4A | 12 | 29 | 5 | 2 | 8 | 12EL6 | 12 | 38 | 6 | 1 | 1 | 12FQ8 | 12 | 39 | 6 | 2 | 2 | 12G-B7 | 12 | 33 | 6 | 5 | 3 |
| 12DW5 | 12 | 33 | 3 | 6 | 2 | | 68 | 6 | 5 | 1 | | | 12 | 39 | 6 | 7 | 2 | 12GC5 | 12 | *33 | 3 | 6 | 2 |
| 12DW7 | 12 | 43 | 10 | 2 | 2 | 12EM6 | 12 | 68 | 6 | 6 | 1 | 12FR8 | 12 | *25 | 6 | 3 | 2 | *Normally shows short position 1-8. | | | | | |
| 12DW8 | 12 | 43 | 10 | 7 | 2 | | 34 | 6 | 1 | 2 | | | 12 | *37 | 6 | 1 | 2 | 12GC6 | 12 | 33 | 4 | 5 | 3 |
| | | 32 | 6 | 2 | 2 | | 90 | 6 | 9 | 2 | | | 12 | *62 | 6 | 8 | 2 | 12GE5 | 12 | *27 | 3 | 1 | 9 |
| | | 32 | 6 | 7 | 2 | 12EN6 | 12 | 33 | 6 | 5 | 3 | *Normally shows short position 11. | | | | | 12GJ5 | 12 | *32 | 5 | 1 | 18 | |
| 12DY8 | 12 | 44 | 6 | 9 | 2 | 12EQ7 | 12 | 34 | 6 | 2 | 2 | 12FS5 | 12 | 27 | 2 | 1 | 1 | *Normally shows short position 4-10 | | | | | |
| | | 30 | 6 | 1 | 2 | | 71 | 6 | 8 | 2 | 12FT6 | 12 | 52 | 6 | 1 | 1 | *Normally shows short position 2-4. | | | | | | |
| 12DZ6 | 12 | 35 | 6 | 9 | 2 | 12EZ6 | 12 | 32 | 6 | 1 | 1 | | 12 | 66 | 6 | 5 | 1 | 12G-K17 | 12 | 35 | 6 | 5 | 8 |
| 12DZ8 | 12 | 33 | 6 | 1 | 1 | 12F5 | 12 | 40 | 6 | 10 | 3 | | 12 | 66 | 6 | 6 | 1 | 12GN7 | 12 | *24 | 7 | 2 | 2 |
| | | 30 | 6 | 3 | 2 | 12F8 | 12 | 40 | 6 | 8 | 2 | 12FV7 | 12 | 35 | 10 | 2 | 2 | *Normally shows short position 3-9. | | | | | |
| 12E5 | 12 | 37 | 6 | 1 | 2 | | 62 | 6 | 1 | 2 | | 12 | 35 | 10 | 7 | 2 | 12GT5 | 12 | *35 | 5 | 1 | 18 | |
| 12EA6 | 12 | 48 | 6 | 5 | 3 | 12F31 | 12 | 33 | 2 | 1 | 1 | 12FX5 | 12 | 32 | 2 | 5 | 1 | *Normally shows short position 2-4. | | | | | |
| 12EC8 | 12 | 32 | 6 | 1 | 1 | 12FK6 | 12 | 40 | 6 | 1 | 1 | 12FX8 | 12 | 32 | 6 | 2 | 2 | 12GT5A | 12 | *35 | 5 | 1 | 18 |
| | | 30 | 6 | 9 | 2 | | | 65 | 6 | 5 | 1 | | 12 | 28 | 6 | 6 | 2 | *Normally shows short position 2-4. | | | | | |
| 12ED5 | 12 | 32 | 6 | 1 | 2 | | | 65 | 6 | 6 | 1 | 12FX8A | 12 | 30 | 6 | 2 | 2 | 12GV5 | 12 | *26 | 10 | 5 | 9 |
| 12EG6 | 12 | 32 | 2 | 5 | 1 | 12FM6 | 12 | 35 | 6 | 1 | 1 | | 12 | 25 | 6 | 6 | 2 | *Normally shows short position 1-3-4-7-10. | | | | | |
| 12EH5 | 12 | 36 | 6 | 1 | 1 | | | 68 | 6 | 5 | 1 | 12G4 | 12 | 41 | 1 | 6 | 1 | 12GW6 | 12 | 30 | 6 | 5 | 3 |
| 12EK6 | 12 | 30 | 2 | 5 | 1 | | | 68 | 6 | 6 | 1 | 12G11 | 12 | 36 | 6 | 3 | 9 | 12H6 | 12 | 48 | 6 | 3 | 3 |
| | | 31 | 6 | 1 | 1 | 12FQ7 | 12 | 36 | 6 | 2 | 2 | | 12 | 30 | 6 | 8 | 9 | | | 48 | 6 | 5 | 3 |
| | | | | | | | | 35 | 6 | 7 | 2 | 12GA6 | 12 | 36 | 6 | 1 | 1 | 12H31 | 12 | 35 | 6 | 1 | 1 |
| | | | | | | | | | | | | 12G-B3A | 12 | 27 | 6 | 5 | 3 | | | | | | |

*Normal Shorts refer to position of "C" Switch. Use TC-63 Adapter. Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)
 † Do not connect Plate Cap to Adapter. Use TC-62-A Adapter. and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.
 Use TC-70 Adapter.



| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | |
|---|--------|-----|----|----|--------|-------------------------------------|--------|-----|----|---|-------------------------------|--|--------|-------|----|------|--------|-----------|--------|----|----|---|--------|---|
| 12HE7 | 12 | 25 | 11 | 9 | 9 | 12JB6A | 12 | *29 | 5 | 1 | 18 | 12KL8 | 12 | 30 | 6 | 2 | 2 | 12SF5 | 12 | 41 | 6 | 3 | 8 | |
| | | 27 | 11 | 2 | 9 | *Normally shows short position 2-4. | | | | | 12L6 | 12 | 34 | 6 | 5 | 3 | 12SF7 | 12 | 46 | 6 | 2 | 8 | | |
| 12HG7 | 12 | *27 | 7 | 2 | 2 | 12JM6 | 12 | 26 | 4 | 5 | 9 | 12MD8 | 12 | 35 | 6 | 1 | 8 | | 12 | 69 | 6 | 5 | 8 | |
| *Normally shows short position 3-9. | | | | | 12JN6 | 12 | 27 | 4 | 1 | 9 | | 12SG7 | 12 | 34 | 5 | 4 | 3 | 12SH7 | 12 | 33 | 5 | 4 | 3 | |
| 12HL5 | 12 | 30 | 2 | 7 | 2 | 12JN8 | 12 | 26 | 6 | 9 | 2 | | 12 | 35 | 6 | 3 | 8 | 12SJ7 | 12 | 35 | 6 | 4 | 3 | |
| 12HL7 | 12 | *28 | 7 | 2 | 2 | | 26 | 6 | 1 | 2 | 12JQ6 | 12 | *35 | 8 | 8 | 2 | | 12SK7 | 12 | 40 | 6 | 4 | 3 | |
| *Normally shows short position 3-9. | | | | | | 58 | 8 | 6 | 2 | | *May show short position 2-3. | | | | | 12Q7 | 12 | 40 | 6 | 10 | 3 | | | |
| 12J5 | 12 | 42 | 6 | 5 | 3 | 12JS6 | 12 | *29 | 10 | 5 | 9 | *Normally shows short position 1-3-4-10. | | | | | 12R5 | 12 | 39 | 2 | 5 | 1 | | |
| 12J7 | 12 | 50 | 6 | 10 | 3 | 12JT6 | 12 | 27 | 2 | 5 | 18 | 12R-K19 | 12 | 30 | 2 | 9 | 2 | | 12 | 82 | 6 | 4 | 8 | |
| 12J8 | 12 | 30 | 6 | 1 | 2 | 12JT6A | 12 | 27 | 2 | 5 | 18 | 12R-LL5 | 12 | 36 | 6 | 2 | 2 | | 12 | 82 | 6 | 5 | 8 | |
| | | 35 | 6 | 8 | 2 | 12JZ8 | 12 | 29 | 7 | 7 | 9 | | 12S8 | 12 | 45 | 5 | 10 | 8 | 12SR7 | 12 | 46 | 6 | 2 | 8 |
| | | 35 | 6 | 9 | 2 | | 40 | 7 | 10 | 9 | | | 12 | 62 | 5 | 1 | 8 | | 12 | 68 | 6 | 4 | 8 | |
| 12HB25 | 12 | *33 | 4 | 5 | 8 | 12K5 | 12 | 35 | 5 | 6 | 1 | | 12 | 62 | 5 | 4 | 8 | | 12 | 68 | 6 | 5 | 8 | |
| *May show short position 1-2-6-10. | | | | | 12K7 | 12 | 52 | 6 | 10 | 3 | | | 12 | 63 | 2 | 3 | 8 | 12SS7 | 12 | 46 | 6 | 4 | 3 | |
| *Connect plate cap lead to top of tube. | | | | | 12K8 | 12 | 35 | 6 | 5 | 3 | | | 12SA7 | 12 | 37 | 6 | 5 | 3 | 12SW7 | 12 | 52 | 6 | 2 | 8 |
| 12HUB | 12 | 29 | 6 | 2 | 2 | 12KA8 | 12 | 26 | 6 | 6 | 2 | | | 12SC7 | 12 | 48 | 6 | 3 | 8 | | 70 | 6 | 5 | 8 |
| | | 29 | 6 | 6 | 2 | | 33 | 6 | 2 | 2 | | | | | 48 | 6 | 4 | 8 | | | | | | |
| 12JB6 | 12 | *29 | 5 | 1 | 18 | | | | | | | | | | | | | | | | | | | |
| *Normally shows short position 2-4. | | | | | | | | | | | | | | | | | | | | | | | | |

12DW4A-12SW7
 *Normal Shorts refer to position of "C" Switch. Use TC-63 Adapter. Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)
 † Do not connect Plate Cap to Adapter. Use TC-62-A Adapter. and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.
 Use TC-70 Adapter.

| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | |
|--|--------|-----|----|---|--------|------------------------------------|--------|----|---|----|--------|--------------------------------------|--------|----|---|----|--------|-----------|--------|----|---|----|--------|--|
| 12SX7 | 12 | 44 | 6 | 1 | 8 | 13DR7 | 12 | 32 | 2 | 3 | 2 | 13JT8 | 13 | 25 | 2 | 7 | 2 | 14BQ11 | 14 | 26 | 6 | 5 | 9 | |
| 12SY7 | 12 | 44 | 6 | 4 | 8 | 13EM7 | 12 | 41 | 2 | 7 | 2 | 13JZ8 | 13 | 34 | 6 | 2 | 2 | 14BR11 | 14 | 26 | 6 | 10 | 9 | |
| 12T10 | 12 | 39 | 6 | 5 | 3 | 13FD7 | 12 | 32 | 6 | 1 | 8 | 13SJ7 | 12 | 29 | 7 | 7 | 9 | | | | | | | |
| | | 27 | 6 | 8 | 9 | 13FG7 | 12 | 45 | 6 | 4 | 8 | 13V10 | 12 | 40 | 7 | 10 | 9 | | | | | | | |
| 12U7 | 12 | 40 | 10 | 2 | 2 | 13FM7 | 12 | 24 | 2 | 3 | 2 | 14A4 | 12 | 35 | 6 | 4 | 3 | 14C5 | 12 | 38 | 6 | 6 | 4 | |
| | | 40 | 10 | 7 | 2 | 13FR7 | 12 | 38 | 2 | 7 | 2 | 14A5 | 12 | 38 | 6 | 3 | 9 | 14C7 | 12 | 37 | 6 | 6 | 4 | |
| 12V6 | 12 | 41 | 6 | 5 | 3 | 13GB5 | 13 | 27 | 3 | 9 | 2 | 14A7 | 12 | 32 | 6 | 8 | 9 | 14E6 | 12 | 40 | 4 | 3 | 4 | |
| 12W6 | 12 | 35 | 6 | 5 | 3 | 13GF7 | 13 | 27 | 3 | 1 | 2 | 14AF7 | 12 | 30 | 6 | 1 | 9 | | | | | | | |
| 12X4 | 12 | 44 | 6 | 1 | 1 | 13GF7A | 13 | 25 | 3 | 8 | 9 | 14B6 | 12 | 95 | 6 | 6 | 9 | | | | | | | |
| | | 44 | 6 | 6 | 1 | 13J10 | 13 | 36 | 3 | 10 | 9 | 14B8 | 12 | 41 | 6 | 6 | 4 | 14H7 | 12 | 35 | 6 | 6 | 4 | |
| 13CM5 | 12 | *25 | 9 | 5 | 3 | | | | | | | 14BF11 | 14 | 41 | 6 | 4 | 4 | | | | | | | |
| 13CW4 | 13 | *87 | 6 | 2 | 5 | | | | | | | 14BL11 | 14 | 41 | 6 | 5 | 4 | | | | | | | |
| *Normally shows short position 1-4. | | | | | | *May show short position 1-2-6-10. | | | | | | *Connect plate cap lead to the tube. | | | | | | | | | | | | |
| *For Grid Emission turn C switch position 4. | | | | | | | | | | | | | | | | | | | | | | | | |
| 13D1 | 25 | 44 | 6 | 1 | 8 | 13D7 | 13 | 26 | 6 | 5 | 18 | 14GT8 | 14 | 52 | 6 | 8 | 2 | | | | | | | |
| | | 44 | 6 | 4 | 8 | | | | | | | | | | | | | | | | | | | |
| 13DE7 | 12 | 33 | 2 | 3 | 2 | | | | | | | | | | | | | | | | | | | |
| | | 44 | 2 | 7 | 2 | | | | | | | | | | | | | | | | | | | |
| 13DF7 | 13 | 40 | 10 | 2 | 2 | | | | | | | | | | | | | | | | | | | |
| | | 40 | 10 | 7 | 2 | | | | | | | | | | | | | | | | | | | |

† Do not connect Plate Cap to Adapter. ▲ Use TC-63 Adapter. ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel)

*Normal Shorts refer to position of "C" Switch. □ Use TC-62-A Adapter. ▼ Use TC-70 Adapter.



| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | |
|--------------------|--------|----|---|---|--------|-----------|--------|----|---|---|--------|-----------|--------|----|---|----|--------|-----------|--------|----|---|----|--------|--|
| 14J7 | 12 | 35 | 6 | 6 | 4 | 15A6 | 15 | 30 | 6 | 2 | 2 | 15FM7 | 15 | 25 | 3 | 8 | 9 | 16AK9 | 16 | 30 | 7 | 10 | 9 | |
| | | 50 | 6 | 4 | 4 | 15A8 | 15 | 36 | 6 | 4 | 3 | 15FY7 | 15 | 36 | 3 | 10 | 9 | | | | | | | |
| 14JG8 | 14 | 45 | 6 | 8 | 2 | 15AF11 | 15 | 40 | 6 | 3 | 3 | 15GY5 | 15 | 25 | 9 | 3 | 9 | 16AQ3* | 16 | 30 | 7 | 3 | 7 | |
| | | 32 | 6 | 2 | 2 | | | | | | | | | | | | | | | | | | | |
| | | 32 | 6 | 6 | 2 | 15BD11 | 15 | 31 | 6 | 1 | 9 | | | | | | | | | | | | | |
| 14N7 | 12 | 42 | 6 | 4 | 4 | | | | | | | | | | | | | | | | | | | |
| | | 42 | 6 | 5 | 4 | 15BD11A | 15 | 35 | 6 | 3 | 9 | | | | | | | | | | | | | |
| 14Q7 | 12 | 35 | 6 | 4 | 4 | | | | | | | | | | | | | | | | | | | |
| 14R7 | 12 | 35 | 6 | 6 | 4 | 15CW5 | 15 | 26 | 6 | 1 | 9 | | | | | | | | | | | | | |
| | | 72 | 6 | 3 | 4 | | | | | | | | | | | | | | | | | | | |
| 14S7 | 12 | 72 | 6 | 4 | 4 | 15DQ8 | 15 | 31 | 6 | 3 | 9 | | | | | | | | | | | | | |
| | | 38 | 6 | 6 | 4 | | | | | | | | | | | | | | | | | | | |
| 14V7 | 12 | 52 | 6 | 4 | 4 | 15EA7 | 15 | 31 | 6 | 6 | 9 | | | | | | | | | | | | | |
| 14W7 | 12 | 32 | 6 | 6 | 4 | | | | | | | | | | | | | | | | | | | |
| 14X7 | 12 | 31 | 4 | 6 | 4 | 15EW6 | 15 | 31 | 6 | 6 | 9 | | | | | | | | | | | | | |
| | | 43 | 6 | 3 | 4 | 15EW7 | 15 | 26 | 6 | 1 | 9 | | | | | | | | | | | | | |
| | | 38 | 6 | 5 | 4 | | | | | | | | | | | | | | | | | | | |
| | | 35 | 6 | 6 | 4 | | | | | | | | | | | | | | | | | | | |
| 14Y4 | 12 | 45 | 6 | 3 | 4 | | | | | | | | | | | | | | | | | | | |
| | | 45 | 6 | 6 | 4 | | | | | | | | | | | | | | | | | | | |
| 12SX7-16K11 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 45 | 2 | 7 | 2 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
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| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|--|--------|-----|---|---|--------|--------------------------------------|--------|----|---|---|--------|--|--------|-----|---|---|--------|--|--------|-----|----|---|--------|
| 19EW7 | 19 | 31 | 2 | 3 | 2 | 19KG8 | 19 | 24 | 6 | 9 | 2 | 20EQ7 | 19 | 34 | 6 | 2 | 2 | 21J56 | 21 | *29 | 10 | 5 | 9 |
| 19EZ8 | 19 | 33 | 6 | 2 | 2 | 19MR9 | 19 | 35 | 6 | 1 | 1 | 20EW7 | 20 | 31 | 2 | 3 | 2 | *Normally shows short position 1-3-4-7-10. | | | | | |
| 19FX5 | 19 | 32 | 2 | 5 | 1 | 19Q9 | 19 | 25 | 6 | 1 | 2 | 20LF6 | 20 | *31 | 5 | 9 | 9 | 21JV6 | 21 | 26 | 4 | 1 | 9 |
| 19GQ7 | 19 | 31 | 3 | 2 | 2 | 19T8 | 19 | 43 | 6 | 8 | 2 | *May show short position 1-3-4-7-10. | | | | | 21JZ6 | 21 | *27 | 4 | 5 | 9 | |
| 19GY5 | 19 | *25 | 5 | 9 | 9 | | | 35 | 6 | 2 | 2 | 21A6 | 19 | *32 | 8 | 2 | 2 | *Some tubes may show short position 1-9. | | | | | |
| *Normally shows short position 1-3-4-7-10. | | | | | | 19V8 | 19 | 40 | 6 | 6 | 2 | *Normally shows short position 1-6-9. | | | | | 21KA6 | 21 | *26 | 10 | 5 | 9 | |
| 19HR6 | 19 | 24 | 6 | 1 | 1 | | | 35 | 6 | 1 | 2 | 21AK6 | 21 | 43 | 6 | 1 | 1 | *May show short position 1-3-4-7-10. | | | | | |
| 19HS6 | 19 | 26 | 6 | 1 | 1 | 19X3 | 19 | 29 | 6 | 9 | 2 | 21EX6 | 22 | 33 | 6 | 5 | 3 | 21KQ6 | 21 | *25 | 1 | 4 | 18 |
| 19HV8 | 19 | 35 | 6 | 1 | 2 | 19X8 | 19 | 30 | 6 | 7 | 2 | 21GY5 | 21 | *25 | 5 | 9 | 9 | *Normally shows short position 1-2-5-6. | | | | | |
| 19J6 | 19 | 34 | 6 | 5 | 1 | | | 61 | 6 | 9 | 2 | *Normally shows short position 1-3-4-7-10. | | | | | 21LG6 | 21 | *32 | 10 | 5 | 9 | |
| 19JC6 | 19 | 26 | 3 | 2 | 2 | 19Y3 | 19 | 29 | 6 | 9 | 2 | 21H85 | 21 | *25 | 1 | 3 | 9 | *May show short position 1-3-4-7-10. | | | | | |
| 19KF6 | 19 | 33 | 4 | 2 | 8 | 20AQ3* | 20 | 27 | 7 | 3 | 7 | *Normally shows short position 4-10. | | | | | 21LR8 | 21 | 27 | 6 | 5 | 8 | |
| 19JN8 | 19 | 26 | 6 | 9 | 2 | *If no test, use alternate settings. | | | | | | 21HD5 | 21 | *27 | 3 | 1 | 9 | 21LU8 | 21 | 28 | 7 | 7 | 9 |
| | | 26 | 6 | 1 | 2 | 20AQ3 | 20 | 27 | 3 | 7 | 7 | *Normally shows short position 4-5-9-10. | | | | | 22AL3* | 22 | 27 | 7 | 3 | 7 | |
| | | | | | | 20D1 | 9 | 33 | 6 | 2 | 1 | 21HJ5 | 21 | *26 | 3 | 1 | 9 | *If no test, use alternate settings. | | | | | |
| | | | | | | | | 33 | 6 | 7 | 1 | *Normally shows short position 4-5-9-10. | | | | | 22AL3 | 22 | 27 | 3 | 7 | 7 | |

*Normal Shorts refer to position of "C" Switch.
 † Do not connect Plate Cap to Adapter.
 ▲ Use TC-63 Adapter.
 □ Use TC-62-A Adapter.
 ▼ Use TC-70 Adapter.
 ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)



| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|--|--------|-----|----|----|--------|--------------------------------------|--------|-----|---|----|--------|--------------------------------------|--------|-----|---|---|--------|--------------------------------------|--------|-----|---|---|--------|
| 22BH3A | 22 | 30 | 5 | 2 | 18 | 24BF11 | 24 | 25 | 6 | 3 | 9 | 25CK3 | 25 | 25 | 2 | 5 | 18 | 25JQ6 | 25 | *35 | 8 | 8 | 2 |
| 22BW3 | 22 | 28 | 4 | 10 | 9 | | | 25 | 6 | 8 | 9 | 25CM3 | 25 | 25 | 5 | 2 | 18 | *May show short position 2-3. | | | | | |
| 22DE4 | 22 | 34 | 6 | 5 | 8 | 24JE6A | 24 | *29 | 5 | 1 | 18 | 25CU6 | 25 | 35 | 6 | 5 | 3 | 25L6 | 25 | 34 | 6 | 5 | 3 |
| 22JF6 | 22 | *26 | 5 | 1 | 8 | *Normally shows short position 2-4. | | | | | | 25CT3 | 25 | 32 | 2 | 6 | 2 | 25SN7 | 25 | 44 | 6 | 1 | 8 |
| *Normally shows short position 2-4. | | | | | | 24JZ8 | 24 | 29 | 7 | 7 | 9 | 25D4 | 25 | 33 | 6 | 5 | 8 | 25R-K19 | 25 | 30 | 2 | 9 | 2 |
| 22JG6 | 22 | 24 | 2 | 5 | 18 | | | 40 | 7 | 10 | 9 | 25DK4 | 25 | 28 | 7 | 5 | 1 | 25W4 | 25 | 32 | 6 | 5 | 8 |
| 22JG6A | 22 | 24 | 2 | 5 | 18 | 24LQ6 | 24 | *29 | 5 | 1 | 18 | 25DN6 | 25 | 32 | 6 | 5 | 3 | 25W6 | 25 | 35 | 6 | 5 | 3 |
| 22JR6 | 22 | 34 | 2 | 7 | 8 | *Normally shows short position 2-4. | | | | | | 25DQ6 | 25 | 34 | 6 | 5 | 3 | 25Z6 | 25 | 34 | 6 | 3 | 3 |
| 22JU6 | 22 | *27 | 5 | 1 | 18 | 25A6 | 25 | *50 | 6 | 5 | 3 | 25DT5 | 25 | *38 | 3 | 6 | 2 | *Normally shows short position 7-11. | | | | | |
| *Normally shows short position 2-4. | | | | | | *Normally shows short position 8-11. | | | | | | 25E5 | 25 | 27 | 6 | 5 | 3 | 26A6 | 25 | 34 | 6 | 1 | 1 |
| 22KM6 | 22 | *27 | 5 | 1 | 8 | 25AU4 | 25 | 33 | 6 | 5 | 8 | 25EC6 | 25 | 32 | 6 | 5 | 3 | 26AQ8 | 26 | 32 | 6 | 2 | 2 |
| *Normally shows short position 2-4. | | | | | | 25AV5 | 25 | 33 | 6 | 1 | 3 | 25EH5 | 25 | *30 | 2 | 5 | 1 | 26BK6 | 25 | 39 | 6 | 1 | 1 |
| 22KV6 | 22 | 28 | 4 | 5 | 8 | 25AX4 | 25 | 35 | 6 | 5 | 8 | *Normally shows short position 1-11. | | | | | 26C6 | 25 | 50 | 6 | 1 | 1 | |
| 23JS6A | 23 | *29 | 10 | 5 | 9 | 25B6 | 25 | 40 | 6 | 5 | 3 | 25F5 | 25 | 38 | 2 | 5 | 1 | 26D6 | 25 | 36 | 6 | 1 | 1 |
| *Normally shows short position 1-3-4-10. | | | | | | 25BK5 | 25 | 37 | 3 | 7 | 2 | 25F5A | 25 | 38 | 2 | 5 | 1 | | | | | | |
| 23Z9 | 23 | 30 | 7 | 10 | 9 | 25BQ6 | 25 | 35 | 6 | 5 | 3 | 25GB6 | 25 | 33 | 6 | 5 | 3 | | | | | | |
| | | 39 | 7 | 3 | 9 | 25BR3 | 25 | 30 | 2 | 9 | 2 | 25GE5 | 25 | *27 | 3 | 1 | 9 | *Normally shows short position 4-10. | | | | | |
| | | 28 | 7 | 8 | 9 | 25C5 | 25 | 33 | 2 | 5 | 1 | *Normally shows short position 2-4. | | | | | | | | | | | |
| | | | | | | 25C6 | 25 | 36 | 6 | 5 | 3 | 25HX5 | 25 | *55 | 7 | 1 | 8 | | | | | | |
| | | | | | | 25CA5 | 25 | 32 | 2 | 5 | 1 | | | | | | | | | | | | |
| | | | | | | 25CD6 | 25 | 33 | 6 | 5 | 3 | | | | | | | | | | | | |
| | | | | | | 25CG3 | 25 | 26 | 4 | 10 | 9 | | | | | | | | | | | | |

*Normal Shorts refer to position of "C" Switch.
 † Do not connect Plate Cap to Adapter.
 ▲ Use TC-63 Adapter.
 □ Use TC-62-A Adapter.
 ▼ Use TC-70 Adapter.
 ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|---|--------|-----|----|---|--------|---|--------|-----|---|---|--------|--|--------|-----|---|---|--------|--|--------|-----|----|---|--------|
| 26DQ5 | 26 | *35 | 5 | 1 | 3 | 28HA6 | 28 | *27 | 3 | 2 | 2 | 30CW5 | 30 | *30 | 1 | 2 | 2 | 31AL10 | 31 | 38 | 7 | 1 | 9 |
| *Normally shows short position 3-4-6-8. | | | | | | *Normally shows short position 6-8 | | | | | | *May show short position 6-7-8-9. | | | | | | 51 7 3 9 | | | | | |
| 26HU5 | 26 | *28 | 1 | 5 | 8 | 28HD5 | 28 | *27 | 3 | 1 | 9 | 30HD5 | 30 | *27 | 3 | 1 | 9 | 31JS6A | 31 | *29 | 10 | 5 | 9 |
| *Ignore glow on 2-6. | | | | | | *Normally shows short position 4-5-9-10 | | | | | | *Normally shows short position 4-5-9-10 | | | | | | *Normally shows short position 1-3-4-10. | | | | | |
| 26JG6 | 26 | 28 | 2 | 5 | 18 | 29GK6 | 29 | 33 | 3 | 2 | 2 | 30HJ5 | 30 | *26 | 3 | 1 | 9 | 33 7 8 9 | | | | | |
| 26Z5 | 26 | 45 | 10 | 1 | 2 | 29KQ6 | 29 | *25 | 1 | 4 | 18 | *Normally shows short position 4-5-9-10 | | | | | | *Normally shows short position 1-3-4-10. | | | | | |
| 45 10 6 2 | | | | | | *Normally shows short position 1-2-5-6. | | | | | | *Normally shows short position 4-5-9-10 | | | | | | 31 29 5 1 18 | | | | | |
| 27GB5 | 27 | *26 | 4 | 5 | 18 | 29LE6 | 29 | *30 | 1 | 4 | 8 | 30JZ6 | 30 | *27 | 4 | 5 | 9 | *Normally shows short position 2-4. | | | | | |
| *May show short position 1-2-6-10. | | | | | | *Normally shows short position 2-5. | | | | | | *Some tubes may show short position 1-9. | | | | | | 32 33 6 3 2 | | | | | |
| *Connect plate cap lead to the tube. | | | | | | 30A5 29 27 5 2 1 | | | | | | 30KD6 30 *25 10 5 9 | | | | | | 32ET5 30 39 6 1 2 | | | | | |
| 27KG6 | 27 | *26 | 11 | 4 | 8 | 30AE3* | 30 | 27 | 7 | 3 | 7 | *Normally shows short position 1-3-4-10. | | | | | | 32HQ7 32 34 8 2 9 | | | | | |
| *Normally shows short position 1-2-5-6. | | | | | | *If no test, use alternate settings. | | | | | | 30KG6 30 *26 11 4 8 | | | | | | 34 8 9 9 | | | | | |
| 28D7 | 30 | 40 | 6 | 2 | 4 | 30AE3 | 30 | 27 | 3 | 7 | 7 | *Normally shows short position 1-2-5-6. | | | | | | 33GT7 33 *58 8 10 9 | | | | | |
| 40 6 7 4 | | | | | | 30AG11 30 28 6 8 9 | | | | | | 30L1 7 33 8 2 2 | | | | | | *28 8 2 9 | | | | | |
| 28EC4 | 28 | *26 | 2 | 5 | 18 | 28 6 5 9 | | | | | | 30M-P23 30 30 5 2 1 | | | | | | *Normally shows short position 9-1 | | | | | |
| **Use only TC-62B Adapter. | | | | | | 34 6 10 9 | | | | | | 30M-P27 30 30 5 2 1 | | | | | | 33GY7 33 *58 8 1 9 | | | | | |
| 28GB5 | 28 | *26 | 4 | 5 | 18 | 34 6 3 9 | | | | | | 30P16 16 71 2 9 2 | | | | | | *28 8 2 9 | | | | | |
| *May show short position 1-2-6-10. | | | | | | 30C1 9 31 6 2 2 | | | | | | | | | | | | *Normally shows short position 9-10 | | | | | |
| *Connect plate cap lead to the tube. | | | | | | 34 6 9 2 | | | | | | | | | | | | | | | | | |

*Normal Shorts refer to position of "C" Switch. Use TC-63 Adapter. Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)
 † Do not connect Plate Cap to Adapter. Use TC-62-A Adapter. and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel. 37
 Use TC-70 Adapter.



| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|--|--------|-----|----|----|--------|--------------------------------------|--------|-----|----|---|--------|---|--------|-----|----|---|--------|--------------------------------------|--------|----|---|---|--------|
| 33GY7A | 33 | *58 | 8 | 1 | 9 | 35EH5 | 35 | 30 | 2 | 5 | 1 | 40KD6 | 40 | *25 | 10 | 5 | 9 | 50CA5 | 50 | 32 | 2 | 5 | 1 |
| *Normally shows short position 9-10. | | | | | | 35GL6 35 39 7 2 1 | | | | | | *Normally shows short position 1-3-4-10. | | | | | | 50CD6 50 33 6 5 3 | | | | | |
| 33HE7 | 33 | 25 | 11 | 9 | 9 | 35HB8 | 35 | 36 | 6 | 9 | 2 | 40KG6 | 40 | *26 | 11 | 4 | 8 | 50DC4 | 50 | 33 | 7 | 5 | 1 |
| 27 11 2 9 | | | | | | 35L6 35 36 6 5 3 | | | | | | *Normally shows short position 1-2-5-6. | | | | | | 50E5 50 27 6 5 3 | | | | | |
| 33JR6 | 33 | 34 | 2 | 7 | 8 | 35LR6 | 35 | *32 | 10 | 5 | 9 | 40Z5 50 31 3 5 3 | | | | | | 50EH5 50 30 2 5 1 | | | | | |
| 33JV6 | 33 | 26 | 4 | 1 | 9 | *May show short position 1-3-4-7-10. | | | | | | 42EC4 42 *26 2 5 18 | | | | | | 50FAS 50 35 2 5 1 | | | | | |
| 34CD3 | 34 | *27 | 4 | 10 | 9 | 35W4 | 35 | 33 | 7 | 5 | 1 | **Use only TC-62B Adapter. | | | | | | 50FE5 50 33 6 5 3 | | | | | |
| *Some tubes may show short position 5-6-8-9. | | | | | | 35Y4 35 31 4 2 4 | | | | | | 42KN6 21 *28 10 5 9 | | | | | | 50FK5 50 35 2 5 1 | | | | | |
| 34CE3 | 34 | 27 | 4 | 10 | 9 | 35Z3 | 35 | 31 | 6 | 2 | 4 | *Normally shows short position 1-3-4-7-10-11. | | | | | | 50FY8 50 30 6 3 2 | | | | | |
| 34CM3 | 34 | 25 | 5 | 2 | 18 | 35Z4 | 35 | 33 | 6 | 5 | 3 | 45B5 50 33 1 2 2 | | | | | | 50GY7 50 *57 8 1 9 | | | | | |
| 34GD5 | 35 | 36 | 2 | 5 | 1 | 35Z5 | 35 | 33 | 3 | 5 | 3 | 45Z3 38 32 7 2 6 | | | | | | *Normally shows short position 9-10. | | | | | |
| 34R3 | 34 | 30 | 2 | 9 | 2 | 36AM3 | 35 | 35 | 7 | 5 | 1 | 45Z5 50 31 3 5 3 | | | | | | 50HC6 50 27 7 2 1 | | | | | |
| 35A5 | 35 | 34 | 6 | 6 | 4 | 36KD6 | 36 | *25 | 10 | 5 | 9 | 50A5 50 35 6 6 4 | | | | | | 50HK6 50 29 7 2 1 | | | | | |
| *Normally shows short position 1-3-4-10. | | | | | | 38A3 38 35 1 6 7 | | | | | | 50B5 50 36 1 7 1 | | | | | | 50HN5 50 28 1 2 2 | | | | | |
| 35B5 | 35 | 38 | 1 | 7 | 1 | 38HE7 | 38 | 25 | 11 | 9 | 9 | 50BK5 50 37 3 7 2 | | | | | | 50JY6 50 28 4 5 3 | | | | | |
| 35C5 | 35 | 38 | 2 | 5 | 1 | 38HK7 | 38 | 26 | 11 | 9 | 9 | 50BM8 50 33 6 3 2 | | | | | | 50L6 50 34 6 5 3 | | | | | |
| 35CD6 | 35 | 33 | 6 | 5 | 3 | 27 11 2 9 | | | | | | 39 6 1 2 | | | | | | 50X6 50 35 6 3 4 | | | | | |
| 35DZ8 | 35 | 30 | 6 | 3 | 2 | 26 11 2 9 | | | | | | 50C5 50 35 2 5 1 | | | | | | 35 6 6 4 | | | | | |
| 37 6 1 2 | | | | | | 40FR5 38 32 2 5 1 | | | | | | 50C6 50 45 6 5 3 | | | | | | 50Y6 50 35 6 3 3 | | | | | |

*Normal Shorts refer to position of "C" Switch. Use TC-63 Adapter. Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)
 † Do not connect Plate Cap to Adapter. Use TC-62-A Adapter. and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel. 38
 Use TC-70 Adapter.

| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|-----------|--------|-----|----|---|--------|-------------------------------------|--------|-----|----|---|--------|-------------------------------------|--------|-----|----|---|--------|-------------------------------------|--------|-----|----|----|--------|
| 6193 | 12 | 40 | 10 | 2 | 2 | 6463 | 12 | 29 | 10 | 3 | 2 | 6680 | 12 | 40 | 10 | 2 | 2 | 6973 | 6 | *40 | 3 | 6 | 2 |
| 6201 | 12 | 32 | 10 | 2 | 2 | 6485 | 6 | 35 | 6 | 1 | 1 | 6681 | 12 | 42 | 10 | 2 | 2 | *Normally shows short position 1-8. | | | | | |
| 6202 | 6 | 44 | 6 | 1 | 1 | 6520 | 6 | 35 | 6 | 1 | 8 | 6686 | 6 | 26 | 1 | 2 | 2 | 7000 | 6 | 50 | 6 | 10 | 3 |
| 6203 | 6 | 44 | 6 | 6 | 1 | 6550 | 6 | 35 | 6 | 5 | 3 | 6687 | 6 | 32 | 6 | 1 | 1 | 7025 | 12 | 42 | 10 | 2 | 2 |
| 6211 | 12 | 41 | 6 | 1 | 2 | 6660 | 6 | 33 | 2 | 1 | 1 | 6688 | 6 | 27 | 3 | 2 | 2 | *Normally shows short position 1-4. | | | | | |
| 6216 | 6 | 41 | 6 | 9 | 2 | 6661 | 6 | 33 | 6 | 1 | 1 | 6689 | 6 | 25 | 6 | 2 | 2 | 7036 | 6 | 39 | 6 | 1 | 1 |
| 6218 | 6 | 34 | 10 | 2 | 2 | 6662 | 6 | 34 | 6 | 1 | 1 | 6829 | 12 | 32 | 10 | 2 | 2 | 7044 | 12 | 34 | 9 | 2 | 2 |
| 6227 | 6 | 34 | 10 | 7 | 2 | 6663 | 6 | 33 | 6 | 2 | 1 | 6883 | 12 | *38 | 1 | 5 | 3 | *Normally shows short position 3-9. | | | | | |
| 6265 | 6 | *29 | 3 | 2 | 2 | 6664 | 6 | 30 | 6 | 6 | 1 | *Normally shows short position 4-6. | | | | | 7054 | 12 | *34 | 7 | 2 | 2 | |
| 6267 | 6 | 72 | 6 | 2 | 2 | 6669 | 6 | 35 | 1 | 7 | 1 | 6887 | 6 | 33 | 6 | 2 | 1 | *Normally shows short position 3-9. | | | | | |
| 6350 | 12 | 29 | 1 | 2 | 2 | 6676 | 6 | 33 | 6 | 1 | 1 | 6888 | 6 | 32 | 6 | 4 | 3 | 7055 | 12 | 33 | 6 | 2 | 1 |
| 6360 | 12 | 33 | 6 | 1 | 1 | 6677 | 6 | *32 | 2 | 9 | 2 | 6919 | 6 | 35 | 6 | 2 | 1 | 7056 | 12 | 33 | 6 | 1 | 1 |
| 6417 | 12 | 40 | 2 | 9 | 2 | *Normally shows short position 3-8. | | | | | 6922 | 6 | 28 | 6 | 2 | 2 | 7057 | 12 | 32 | 6 | 2 | 2 | |
| | | 40 | 10 | 8 | 2 | 6678 | 6 | 33 | 6 | 2 | 2 | 6968 | 6 | 33 | 2 | 1 | 1 | 7058 | 12 | 42 | 10 | 2 | 2 |
| | | 35 | 10 | 3 | 2 | 6679 | 12 | 32 | 10 | 2 | 2 | | | | | | | | | | | | |
| | | 35 | 10 | 3 | 2 | | | 32 | 10 | 7 | 2 | | | | | | | | | | | | |

*Normal Shorts refer to position of "C" Switch. ▲ Use TC-63 Adapter. ■ Use TC-62-B Adapter or Novar Socket If Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel. 41
 † Do not connect Plate Cap to Adapter. □ Use TC-62-A Adapter. ▼ Use TC-70 Adapter.



| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|-----------|--------|-----|----|---|--------|---|--------|-----|----|---|--------|--|--------|-----|---|---|-------------------------------------|-------------------------------------|--------|-----|----|---|--------|
| 7059 | 12 | 33 | 6 | 2 | 2 | 7233 | 6 | *33 | 2 | 7 | 2 | 7586 | 6 | *58 | 6 | 2 | 5 | 7722 | 6 | 22 | 1 | 2 | 2 |
| 7060 | 12 | 33 | 6 | 2 | 2 | *Normally shows short position 1-3-6-9. | | | | | 7587 | 6 | *67 | 6 | 2 | 5 | 7724 | 14 | 52 | 6 | 8 | 2 | |
| 7061 | 12 | *42 | 3 | 6 | 2 | 7247 | 12 | 43 | 10 | 2 | 2 | *For Grid Emission Turn C Switch Position 4. | | | | | 7728 | 12 | 32 | 10 | 2 | 2 | |
| 7062 | 12 | 26 | 10 | 7 | 2 | 7258 | 12 | 32 | 6 | 8 | 2 | *For Grid Emission Turn C Switch Position 4. | | | | | 7729 | 12 | 42 | 10 | 2 | 2 | |
| 7105 | 12 | 26 | 10 | 2 | 2 | 7308 | 6 | 24 | 6 | 2 | 2 | 7591 | 6 | 34 | 4 | 6 | 3 | 7730 | 12 | 40 | 10 | 2 | 2 |
| 7119 | 12 | 28 | 9 | 2 | 2 | 7320 | 6 | 33 | 1 | 2 | 2 | 7607 | 6 | *34 | 1 | 5 | 3 | 7731 | 6 | 33 | 6 | 2 | 2 |
| 7167 | 12 | 28 | 9 | 7 | 2 | 7355 | 6 | 37 | 6 | 6 | 3 | *Normally shows short position 4-6. | | | | | 7732 | 6 | 33 | 6 | 1 | 1 | |
| 7189 | 6 | 35 | 6 | 1 | 8 | 7360 | 6 | 29 | 6 | 3 | 2 | 7643 | 6 | 25 | 6 | 2 | 2 | 7733 | 12 | *34 | 7 | 2 | 2 |
| 7199 | 6 | 35 | 2 | 1 | 1 | 7370 | 40 | 80 | 9 | 1 | 2 | 7687 | 6 | 35 | 6 | 2 | 2 | *Normally shows short position 3-9. | | | | | |
| | | 32 | 6 | 9 | 2 | 7408 | 6 | 39 | 6 | 5 | 3 | 7693 | 6 | 31 | 6 | 1 | 1 | 7738 | 6 | *33 | 2 | 6 | 1 |
| | | 32 | 6 | 9 | 2 | 7543 | 6 | 34 | 6 | 1 | 1 | 7694 | 6 | 32 | 6 | 1 | 1 | *Normally shows short position 1-7. | | | | | |
| | | 32 | 6 | 9 | 2 | 7551 | 15 | *34 | 10 | 2 | 2 | 7695 | 50 | 34 | 6 | 6 | 2 | 7751 | 6 | 30 | 4 | 5 | 3 |
| | | 32 | 6 | 9 | 2 | *Normally shows short position 3-8. | | | | | 7701 | 12 | *38 | 1 | 2 | 2 | 7754 | 6 | 34 | 6 | 6 | 2 | |
| | | 32 | 6 | 9 | 2 | 7558 | 6 | *30 | 3 | 2 | 2 | *Normally shows short position 3-7-8-9. | | | | | 7788 | 6 | *29 | 3 | 2 | 2 | |
| | | 32 | 6 | 9 | 2 | *Normally shows short position 1-9 | | | | | 7716 | 12 | 33 | 6 | 2 | 2 | *Normally shows short position 6-9. | | | | | | |
| | | 32 | 6 | 9 | 2 | 7581 | 6 | 37 | 6 | 5 | 3 | 7719 | 12 | 29 | 1 | 7 | 7 | | | | | | |

6198-7788

*Normal Shorts refer to position of "C" Switch. ▲ Use TC-63 Adapter. ■ Use TC-62-B Adapter or Novar Socket If Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel. 42
 † Do not connect Plate Cap to Adapter. □ Use TC-62-A Adapter. ▼ Use TC-70 Adapter.

| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|---|--------|-----|----|---|--------|--|--------|-----|---|----|--------|--------------------------------------|--------|----|---|----|--------|--------------|--------|----|----|---|--------|
| 7867 | 6 | 27 | 6 | 5 | 3 | 8136 | 6 | 25 | 6 | 1 | 1 | A1834 | 6 | 35 | 6 | 1 | 8 | B36 | 12 | 44 | 6 | 1 | 8 |
| 7868 | 6 | *27 | 5 | 1 | 18 | 8156 | 13 | *32 | 9 | 10 | 9 | AR18 | 6 | 35 | 6 | 4 | 8 | B65 | 6 | 44 | 6 | 1 | 8 |
| *Normally shows short position 2-4. | | | | | | *Normally shows short position 1-2-3-4-5-6-7-9 | | | | | | 63 6 4 3 | | | | | | 63 6 4 3 | | | | | |
| 7895 | 6 | *85 | 6 | 2 | 5 | 8233 | 6 | 25 | 5 | 10 | 8 | ARDD3 | 6 | 48 | 6 | 3 | 3 | B152 | 12 | 32 | 10 | 2 | 2 |
| *For Grid Emission Turn C Switch Position 4. | | | | | | *Normally shows short position 2-3. | | | | | | 6 48 6 3 3 | | | | | | 12 32 10 7 2 | | | | | |
| 7898 | 14 | 28 | 10 | 2 | 2 | 8278 | 6 | *31 | 7 | 2 | 18 | ARH1 | 6 | 48 | 6 | 5 | 3 | B309 | 12 | 32 | 10 | 2 | 2 |
| *Normally shows short position 2-4. | | | | | | *Normally shows short position 1-4-5-10. | | | | | | 6 44 6 10 3 | | | | | | 12 32 10 7 2 | | | | | |
| 7984 | 12 | *70 | 8 | 1 | 9 | 8327 | 6 | 25 | 1 | 2 | 2 | ARP15 | 6 | 52 | 6 | 10 | 3 | B319 | 7 | 33 | 8 | 2 | 2 |
| *Normally shows short position 2-3-4-5-6-8-9. | | | | | | 6 30 1 5 3 | | | | | | 6 50 6 10 3 | | | | | | 33 8 6 2 | | | | | |
| 8032 | 12.6 | *40 | 1 | 5 | 3 | 8417 | 6 | 30 | 1 | 5 | 3 | ARP17 | 6 | 54 | 6 | 5 | 3 | B329 | 12 | 40 | 10 | 2 | 2 |
| *Normally shows short position 4-6. | | | | | | 13 35 3 4 8 | | | | | | 6 41 6 5 3 | | | | | | 12 40 10 7 2 | | | | | |
| 8056 | 6 | *80 | 6 | 2 | 5 | 8458 | 13 | 35 | 3 | 6 | 8 | ARP32 | 6 | 41 | 6 | 5 | 3 | B339 | 12 | 42 | 10 | 2 | 2 |
| *For grid emission turn sw. "C" to position 4 | | | | | | 6 42 2 1 1 | | | | | | 6 41 6 5 3 | | | | | | 12 42 10 7 2 | | | | | |
| 8102 | 12 | 28 | 6 | 9 | 2 | 9001 | 6 | 42 | 2 | 1 | 1 | ARP33 | 6 | 41 | 6 | 5 | 3 | B719 | 6 | 32 | 6 | 2 | 2 |
| *Normally shows short position 2-7. | | | | | | 6 *46 1 6 1 | | | | | | 5 *51 6 4 3 | | | | | | 6 32 6 7 2 | | | | | |
| 8106 | 12 | *24 | 3 | 7 | 2 | 9003 | 6 | 42 | 2 | 1 | 1 | ARP16 | 6 | 50 | 6 | 10 | 3 | BPM04 | 6 | 35 | 1 | 7 | 1 |
| *Normally shows short position 2-6-9 | | | | | | 6 *55 1 5 1 | | | | | | *51 6 6 3 | | | | | | 6 35 6 1 1 | | | | | |
| 8113 | 6 | 28 | 8 | 1 | 1 | 9006 | 6 | *55 | 1 | 5 | 1 | ARTH-1 | 6 | 35 | 6 | 5 | 3 | CV131 | 6 | 35 | 6 | 1 | 1 |
| *Normal Shorts refer to position of "C" Switch. | | | | | | *Normally shows short position 2-7. | | | | | | *51 6 6 3 | | | | | | 6 41 1 6 1 | | | | | |
| † Do not connect Plate Cap to Adapter. | | | | | | A863 6 50 6 10 3 | | | | | | *Normally shows short position 8-11. | | | | | | 6 34 6 1 1 | | | | | |

▲ Use TC-63 Adapter. □ Use TC-62-A Adapter. ▼ Use TC-70 Adapter. ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)



| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|---|--------|-----|----|---|--------|-------------------------------------|--------|----|---|---|--------|--------------------------------------|--------|----|---|----|--------|--------------------------------------|--------|-----|---|----|--------|
| CV140 | 6 | 33 | 6 | 2 | 1 | CV493 | 6 | 44 | 6 | 1 | 1 | CV572 | 6 | 40 | 6 | 3 | 3 | CV588 | 6 | 40 | 6 | 10 | 3 |
| CV216 | 50 | *99 | 3 | 5 | 3 | CV511 | 6 | 41 | 6 | 5 | 3 | CV573 | 6 | 40 | 6 | 3 | 3 | CV589 | 6 | 63 | 6 | 4 | 3 |
| *Tube good if it reads 60 or more | | | | | | CV538 12 37 6 5 3 | | | | | | CV574 6 40 6 3 3 | | | | | | 63 6 5 3 | | | | | |
| *Normally shows short position 11. | | | | | | CV544 12 40 6 4 3 | | | | | | *Normally shows short position 8-11. | | | | | | 63 6 4 3 | | | | | |
| *Normally shows grid emission. | | | | | | CV547 12 42 6 2 8 | | | | | | CV575 5 *40 6 5 3 | | | | | | 63 6 5 3 | | | | | |
| CV283 | 6 | 33 | 6 | 2 | 1 | CV551 | 25 | 36 | 6 | 5 | 3 | CV578 | 6 | 45 | 6 | 5 | 3 | CV590 | 6 | 35 | 6 | 4 | 3 |
| CV450 | 6 | 29 | 6 | 5 | 3 | CV552 | 25 | 34 | 6 | 5 | 3 | CV579 | 6 | 45 | 6 | 5 | 3 | CV591 | 6 | 35 | 6 | 4 | 3 |
| CV452 | 6 | 39 | 6 | 1 | 1 | CV553 | 25 | 34 | 6 | 5 | 3 | CV580 | 6 | 45 | 6 | 5 | 3 | CV592 | 6 | 35 | 6 | 4 | 3 |
| *Normally shows short position 8-11. | | | | | | CV554 6 48 6 3 3 | | | | | | CV581 6 46 6 5 3 | | | | | | 5 *51 6 6 3 | | | | | |
| CV453 | 6 | 35 | 6 | 1 | 1 | CV559 | 25 | 34 | 6 | 3 | 3 | CV582 | 6 | 46 | 6 | 5 | 3 | CV593 | 5 | *51 | 6 | 4 | 3 |
| CV454 | 6 | 33 | 2 | 1 | 1 | CV561 | 35 | 36 | 6 | 5 | 3 | CV583 | 6 | 46 | 6 | 5 | 3 | *Normally shows short position 8-11. | | | | | |
| CV455 | 12 | 32 | 10 | 2 | 2 | CV562 | 35 | 36 | 6 | 5 | 3 | CV586 | 6 | 37 | 6 | 5 | 3 | CV594 | 6 | 33 | 5 | 4 | 3 |
| CV491 | 12 | 40 | 10 | 2 | 2 | CV565 | 35 | 31 | 6 | 2 | 4 | CV587 | 6 | 40 | 6 | 10 | 3 | CV595 | 6 | 33 | 5 | 4 | 3 |
| CV492 | 12 | 42 | 10 | 2 | 2 | CV567 | 35 | 33 | 3 | 5 | 3 | CV588 | 6 | 46 | 6 | 5 | 3 | CV657 | 6 | 50 | 6 | 10 | 3 |
| *Normally shows short position 2-7. | | | | | | CV568 35 33 3 5 3 | | | | | | 63 6 4 3 | | | | | | 6 33 6 4 3 | | | | | |
| CV665 | 6 | 42 | 2 | 1 | 1 | CV571 | 50 | 34 | 6 | 5 | 3 | CV660 | 6 | 33 | 6 | 4 | 3 | CV661 | 6 | 35 | 6 | 4 | 3 |
| *Normal Shorts refer to position of "C" Switch. | | | | | | *Normally shows short position 2-7. | | | | | | 63 6 5 3 | | | | | | 6 *46 1 6 1 | | | | | |
| † Do not connect Plate Cap to Adapter. | | | | | | *Normally shows short position 2-7. | | | | | | *Normally shows short position 8-11. | | | | | | *Normally shows short position 2-7. | | | | | |

▲ Use TC-63 Adapter. □ Use TC-62-A Adapter. ▼ Use TC-70 Adapter. ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|--------------------------------------|--------|-----|---|----|--------|--------------------------------------|--------|-----|---|----|-------------------------------------|--------------------------------------|--------|-----|---|-------|--------|--------------------------------------|--------|-----|---|---|--------|
| CV686 | 50 | *85 | 3 | 5 | 3 | CV731 | 6 | 54 | 6 | 5 | 3 | CV779 | 2 | 53 | 6 | 6 | 4 | CV818 | 3 | *42 | 5 | 3 | 6 |
| *Normally shows short position 11. | | | | | | CV732 | 6 | 32 | 6 | 5 | 8 | CV780 | 2 | 52 | 6 | 6 | 4 | CV819 | 3 | 45 | 9 | 5 | 3 |
| *Normally shows grid emission. | | | | | | CV747 | 6 | 33 | 6 | 4 | 3 | CV781 | 1 | 60 | 6 | 4 | 4 | CV820 | 3 | *48 | 5 | 3 | 6 |
| CV694 | 12 | 34 | 5 | 4 | 3 | CV753 | 2 | *70 | 2 | 6 | 6 | *Normally shows short position 2-6. | | | | | | | | | | | |
| CV697 | 12 | 35 | 6 | 4 | 3 | *Normally shows short position 5-11. | | | | | | CV782 | 1 | 57 | 5 | 4 | 6 | CV841 | 5 | *40 | 6 | 4 | 3 |
| CV698 | 12 | 35 | 6 | 4 | 3 | CV755 | 1 | 55 | 6 | 5 | 3 | CV783 | 1 | *55 | 5 | 3 | 6 | *Normally shows short position 8-11. | | | | | |
| CV700 | 12 | 46 | 6 | 2 | 8 | CV756 | 1 | 55 | 6 | 5 | 3 | *Normally shows short position 2-6. | | | | | | | | | | | |
| | | 68 | 6 | 4 | 8 | CV760 | 1 | 55 | 6 | 5 | 3 | CV784 | 1 | 56 | 6 | 6 | 6 | CV842 | 5 | *52 | 6 | 4 | 3 |
| | | 68 | 6 | 5 | 8 | CV764 | 2 | 54 | 6 | 10 | 3 | *Normally shows short position 8-11. | | | | | | | | | | | |
| CV703 | 6 | 35 | 6 | 5 | 3 | CV768 | 2 | 48 | 6 | 5 | 3 | CV785 | 1 | 55 | 5 | 6 | 6 | *Normally shows short position 8-11. | | | | | |
| CV706 | 6 | 48 | 6 | 10 | 3 | CV770 | 2 | 54 | 6 | 10 | 3 | CV786 | 1 | 54 | 6 | 5 | 3 | *Normally shows short position 8-11. | | | | | |
| CV717 | 5 | *45 | 6 | 4 | 3 | | 64 | 6 | 4 | 3 | CV797 | 6 | 32 | 5 | 1 | 1 | CV844 | 6 | 40 | 6 | 5 | 3 | |
| *Normally shows short position 8-11. | | | | | | CV772 | 1 | 55 | 6 | 4 | 3 | CV805 | 50 | 35 | 6 | 3 | 3 | CV845 | 6 | 40 | 6 | 5 | 3 |
| CV723 | 3 | 39 | 6 | 5 | 3 | | 55 | 6 | 5 | 3 | | 35 | 6 | 5 | 3 | CV846 | 6 | 33 | 6 | 4 | 3 | | |
| CV726 | 35 | 31 | 6 | 2 | 4 | CV773 | 1 | 55 | 6 | 4 | 3 | CV807 | 3 | *36 | 5 | 4 | 6 | CV848 | 6 | 31 | 2 | 1 | 1 |
| CV728 | 2 | 53 | 6 | 10 | 3 | | 55 | 6 | 5 | 3 | *Normally shows short position 2-6. | | | | | | | | | | | | |
| CV729 | 5 | *35 | 6 | 4 | 3 | CV775 | 1 | 62 | 6 | 4 | 4 | CV808 | 3 | 45 | 4 | 3 | 6 | CV849 | 6 | 33 | 6 | 4 | 3 |
| *Normally shows short position 8-11. | | | | | | CV776 | 1 | 55 | 6 | 6 | 4 | | 45 | 4 | 5 | 6 | CV850 | 6 | 33 | 2 | 1 | 1 | |
| | | | | | | CV777 | 1 | 54 | 5 | 6 | 4 | CV815 | 2 | 43 | 8 | 6 | 4 | CV851 | 6 | 35 | 6 | 5 | 3 |
| | | | | | | CV778 | 1 | 68 | 6 | 4 | 4 | | | | | | | CV852 | 6 | 41 | 1 | 6 | 1 |

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| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|--------------|--------|----|---|---|--------|-----------|--------|----|---|---|--------|-----------|--------|----|----|--------------------------------------|--------------------------------------|--------------------------------------|--------|-----|----|---|--------|
| CV858 | 6 | 34 | 6 | 5 | 1 | CV883 | 6 | 42 | 6 | 4 | 4 | CV899 | 6 | 42 | 6 | 5 | 4 | CV939 | 25 | 45 | 6 | 5 | 4 |
| CV862 | 6 | 34 | 6 | 6 | 1 | CV885 | 6 | 38 | 6 | 6 | 4 | CV900 | 6 | 35 | 6 | 4 | 4 | CV945 | 30 | 40 | 6 | 5 | 3 |
| CV865 | 6 | 53 | 6 | 5 | 3 | CV886 | 6 | 38 | 6 | 6 | 4 | | 72 | 6 | 6 | 4 | 4 | CV946 | 30 | 40 | 6 | 2 | 4 |
| CV866 | 6 | 35 | 6 | 4 | 3 | CV887 | 6 | 50 | 4 | 3 | 4 | | 72 | 6 | 3 | 4 | 4 | | 40 | 6 | 7 | 4 | |
| CV867 | 6 | 35 | 6 | 4 | 3 | | 68 | 4 | 5 | 4 | CV901 | 6 | 45 | 6 | 3 | 4 | CV995 | 6 | 40 | 6 | 2 | 4 | |
| | | 46 | 6 | 2 | 8 | | 68 | 4 | 6 | 4 | | 45 | 6 | 6 | 4 | CV1074 | 6 | 40 | 6 | 7 | 4 | | |
| | | 68 | 6 | 4 | 8 | CV891 | 6 | 40 | 4 | 3 | 4 | CV910 | 12 | 45 | 6 | 5 | 3 | CV1067 | 6 | 36 | 2 | 1 | 1 |
| | | 68 | 6 | 5 | 8 | | 69 | 4 | 5 | 4 | CV916 | 12 | 45 | 6 | 5 | 3 | CV1071 | 6 | 42 | 6 | 5 | 3 | |
| CV873 | 6 | 43 | 6 | 3 | 3 | CV892 | 6 | 69 | 4 | 6 | 4 | | 48 | 6 | 3 | 3 | CV1071 | 5 | *40 | 6 | 4 | 3 | |
| | | 43 | 6 | 5 | 3 | | 47 | 6 | 6 | 4 | | 48 | 6 | 5 | 3 | *Normally shows short position 8-11. | | | | | | | |
| CV876 | 6 | 48 | 6 | 3 | 4 | | 68 | 6 | 3 | 4 | CV917 | 12 | 50 | 6 | 10 | 3 | CV1268 | 5 | 50 | 6 | 10 | 3 | |
| | | 48 | 6 | 6 | 4 | | 68 | 6 | 4 | 4 | CV918 | 12 | 52 | 6 | 10 | 3 | *Normally shows short position 8-11. | | | | | | |
| CV877 | 6 | 45 | 6 | 6 | 4 | CV893 | 6 | 45 | 6 | 4 | 4 | CV919 | 12 | 41 | 6 | 3 | 8 | CV1280 | 6 | *51 | 6 | 4 | 3 |
| CV878 | 6 | 40 | 6 | 4 | 4 | | 45 | 6 | 5 | 4 | CV920 | 12 | 41 | 6 | 3 | 8 | CV1285 | 6 | *51 | 6 | 6 | 3 | |
| CV879 | 6 | 40 | 6 | 6 | 4 | CV894 | 6 | 36 | 6 | 6 | 4 | CV921 | 12 | 46 | 6 | 2 | 8 | *Normally shows short position 8-11. | | | | | |
| CV880 | 6 | 52 | 6 | 6 | 4 | CV895 | 6 | 35 | 6 | 6 | 4 | | 69 | 6 | 5 | 8 | CV1301 | 6 | 44 | 6 | 10 | 3 | |
| CV881 | 6 | 52 | 6 | 6 | 4 | CV896 | 6 | 45 | 6 | 4 | 4 | CV922 | 12 | 33 | 5 | 4 | 3 | CV1285 | 6 | 47 | 6 | 4 | 3 |
| CV882 | 6 | 40 | 4 | 3 | 4 | | 65 | 6 | 5 | 4 | CV924 | 12 | 43 | 6 | 1 | 8 | CV1285 | 6 | 47 | 6 | 5 | 3 | |
| | | 68 | 4 | 5 | 4 | CV897 | 6 | 65 | 6 | 6 | 4 | | 43 | 6 | 4 | 8 | | 47 | 6 | 5 | 3 | | |
| | | 68 | 4 | 6 | 4 | | 35 | 6 | 6 | 4 | CV925 | 12 | 44 | 6 | 1 | 8 | | 47 | 6 | 5 | 3 | | |
| CV686-CV1301 | | | | | | | 50 | 6 | 4 | 4 | CV930 | 12 | 44 | 6 | 4 | 8 | | 48 | 6 | 3 | 3 | | |
| | | | | | | CV898 | 6 | 42 | 6 | 4 | 4 | | 44 | 6 | 4 | 4 | | 48 | 6 | 5 | 3 | | |

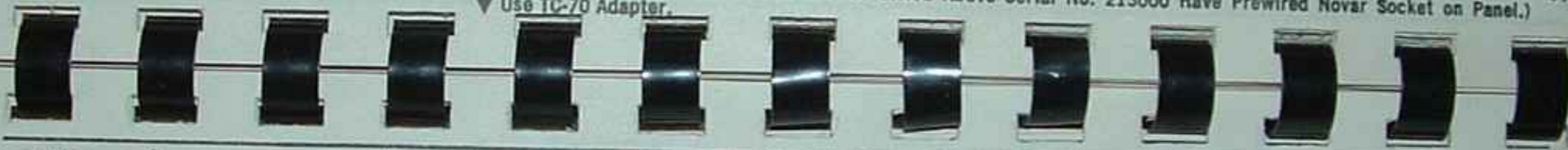
*Normal Shorts refer to position of "C" Switch. Use TC-63 Adapter. Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)
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| TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | |
|--------------------------------------|--------|-----|----|---|--------|--------------------------------------|--------|-----|---|----|--------|--------------------------------------|--------|-----|-----|---|--------|------------------------------------|--------|-----|----|----|--------|---|
| CV1375 | 6 | 33 | 1 | 2 | 2 | CV1811 | 1 | 58 | 6 | 5 | 3 | CV1851 | 5 | 47 | 6 | 3 | 8 | CV1864 | 5 | *36 | 6 | 4 | 3 | |
| CV1377 | 5 | *30 | 6 | 4 | 3 | | | 86 | 6 | 10 | 3 | | | 47 | 6 | 5 | 8 | | | *36 | 6 | 6 | 3 | |
| *Normally shows short position 8-11. | | | | | | *Tube good if it reads 30 or more. | | | | | | *Normally shows short position 8-11. | | | | | | | | | | | | |
| CV1633 | 12 | 32 | 10 | 2 | 2 | CV1818 | 1 | 55 | 6 | 10 | 3 | CV1854 | 5 | *51 | 6 | 4 | 3 | CV1873 | 6 | 35 | 6 | 4 | 3 | |
| | | 32 | 10 | 7 | 2 | | | 96 | 6 | 5 | 3 | | | *51 | 6 | 6 | 3 | | | 6 | 33 | 6 | 4 | 3 |
| CV1649 | 6 | 46 | 6 | 5 | 3 | CV1819 | 6 | 48 | 6 | 5 | 3 | *Normally shows short position 8-11. | | | | | | CV1876 | 6 | 54 | 6 | 5 | 3 | |
| CV1741 | 6 | 35 | 6 | 5 | 3 | CV1820 | 1 | 55 | 6 | 10 | 3 | | | 5 | *51 | 6 | 4 | 3 | CV1882 | 6 | 62 | 6 | 1 | 3 |
| CV1753 | 35 | 34 | 6 | 6 | 4 | | | 96 | 6 | 5 | 3 | | | *51 | 6 | 6 | 3 | CV1893 | 6 | 32 | 6 | 4 | 3 | |
| CV1757 | 6 | 42 | 2 | 1 | 1 | CV1821 | 2 | 53 | 6 | 10 | 3 | *Normally shows short position 8-11. | | | | | | CV1894 | 6 | 55 | 6 | 10 | 3 | |
| CV1758 | 1 | 55 | 5 | 6 | 6 | CV1823 | 2 | 53 | 6 | 10 | 3 | | | 5 | 52 | 6 | 3 | 65 | 6 | 4 | 4 | 3 | | |
| CV1762 | 6 | 43 | 6 | 1 | 1 | CV1824 | 1 | 48 | 6 | 5 | 3 | | | 52 | 6 | 5 | 8 | 65 | 6 | 4 | 3 | 3 | | |
| CV1777 | 6 | 37 | 6 | 6 | 4 | CV1826 | 1 | 48 | 6 | 5 | 3 | *Normally shows short position 8-11. | | | | | | 65 | 6 | 5 | 3 | | | |
| CV1784 | 6 | 32 | 6 | 4 | 3 | CV1829 | 1 | 54 | 6 | 5 | 3 | | | 6 | 35 | 1 | 7 | 65 | 6 | 4 | 3 | 3 | | |
| CV1790 | 6 | 50 | 6 | 3 | 4 | CV1846 | 5 | *38 | 6 | 4 | 3 | *Normally shows short position 8-11. | | | | | | CV1895 | 50 | *70 | 3 | 5 | 3 | |
| | | 50 | 6 | 6 | 4 | | | *38 | 6 | 6 | 3 | *Normally shows short position 8-11. | | | | | | *Normally shows short position 11. | | | | | | |
| CV1800 | 1 | 57 | 6 | 5 | 3 | CV1849 | 5 | *52 | 6 | 4 | 3 | *Normally shows short position 8-11. | | | | | | *Normally shows grid emission. | | | | | | |
| CV1802 | 1 | 57 | 6 | 5 | 3 | | | *52 | 6 | 6 | 3 | *Normally shows short position 8-11. | | | | | | CV1902 | 6 | 45 | 6 | 5 | 3 | |
| CV1803 | 1 | 54 | 6 | 5 | 3 | *Normally shows short position 8-11. | | | | | | | | | | | | | CV1908 | 6 | 40 | 6 | 10 | 3 |
| CV1805 | 1 | 54 | 6 | 5 | 3 | *Normally shows short position 8-11. | | | | | | | | | | | | | CV1909 | 6 | 40 | 6 | 10 | 3 |
| | | | | | | | | | | | | | | | | | | CV1910 | 6 | 40 | 6 | 10 | 3 | |

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 ▼ Use TC-70 Adapter.

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|-----------|--------|----|---|----|--------|-----------|--------|----|---|----|--------|-----------|--------|----|---|----|--------|-------------------------------------|--------|-----|---|---|--------|
| CV1911 | 6 | 54 | 6 | 5 | 3 | CV1943 | 6 | 52 | 6 | 10 | 3 | CV1963 | 6 | 52 | 6 | 10 | 3 | CV1988 | 6 | 44 | 6 | 1 | 8 |
| CV1912 | 6 | 54 | 6 | 5 | 3 | CV1944 | 6 | 35 | 6 | 5 | 3 | | | 63 | 6 | 4 | 3 | | | 44 | 6 | 4 | 8 |
| CV1926 | 6 | 45 | 6 | 5 | 3 | CV1945 | 6 | 35 | 6 | 5 | 3 | | | 63 | 6 | 5 | 3 | CV1990 | 6 | 42 | 6 | 2 | 8 |
| CV1928 | 12 | 33 | 2 | 1 | 1 | CV1946 | 6 | 35 | 6 | 5 | 3 | CV1964 | 6 | 52 | 6 | 10 | 3 | | | 71 | 6 | 4 | 8 |
| CV1929 | 6 | 48 | 6 | 3 | 3 | CV1947 | 6 | 37 | 6 | 5 | 3 | | | 63 | 6 | 4 | 3 | | | 71 | 6 | 5 | 8 |
| | | 48 | 6 | 5 | 3 | CV1948 | 6 | 37 | 6 | 5 | 3 | | | 63 | 6 | 5 | 3 | CV1991 | 6 | 42 | 6 | 2 | 8 |
| CV1930 | 6 | 48 | 6 | 3 | 3 | CV1949 | 6 | 43 | 6 | 1 | 1 | CV1966 | 6 | 37 | 6 | 5 | 3 | | | 71 | 6 | 4 | 8 |
| | | 48 | 6 | 5 | 3 | CV1950 | 6 | 44 | 6 | 10 | 3 | CV1967 | 6 | 37 | 6 | 5 | 3 | | | 71 | 6 | 5 | 8 |
| CV1931 | 6 | 48 | 6 | 3 | 3 | CV1951 | 6 | 44 | 6 | 10 | 3 | CV1969 | 6 | 48 | 6 | 3 | 8 | CV1993 | 6 | 46 | 6 | 4 | 3 |
| | | 48 | 6 | 5 | 3 | CV1956 | 6 | 47 | 6 | 4 | 3 | | | 48 | 6 | 4 | 8 | CV1995 | 6 | 52 | 6 | 2 | 8 |
| CV1932 | 6 | 42 | 6 | 5 | 3 | | | 47 | 6 | 5 | 3 | CV1970 | 6 | 48 | 6 | 3 | 8 | | | 72 | 6 | 4 | 8 |
| CV1933 | 6 | 42 | 6 | 5 | 3 | CV1957 | 6 | 47 | 6 | 4 | 3 | | | 48 | 6 | 4 | 8 | | | 72 | 6 | 5 | 8 |
| CV1934 | 6 | 42 | 6 | 5 | 3 | CV1958 | 6 | 47 | 6 | 5 | 3 | CV1972 | 6 | 41 | 6 | 3 | 8 | CV1996 | 6 | 52 | 6 | 2 | 8 |
| CV1935 | 6 | 50 | 6 | 10 | 3 | | | 47 | 6 | 4 | 3 | CV1973 | 6 | 41 | 6 | 3 | 8 | | | 72 | 6 | 4 | 8 |
| CV1936 | 6 | 50 | 6 | 10 | 3 | CV1959 | 50 | 35 | 2 | 5 | 1 | CV1974 | 6 | 47 | 6 | 10 | 3 | | | 72 | 6 | 5 | 8 |
| CV1937 | 6 | 50 | 6 | 10 | 3 | CV1961 | 12 | 33 | 6 | 1 | 1 | CV1975 | 6 | 47 | 6 | 10 | 3 | CV2128 | 6 | 85 | 6 | 1 | 2 |
| CV1938 | 6 | 41 | 6 | 5 | 3 | CV1962 | 6 | 52 | 6 | 10 | 3 | CV1976 | 6 | 37 | 6 | 5 | 3 | | | 38 | 6 | 9 | 2 |
| CV1940 | 6 | 41 | 6 | 5 | 3 | | | 63 | 6 | 4 | 3 | CV1978 | 6 | 34 | 5 | 4 | 3 | CV2129 | 6 | 33 | 9 | 9 | 2 |
| CV1941 | 6 | 52 | 6 | 10 | 3 | | | 63 | 6 | 5 | 3 | CV1981 | 6 | 40 | 6 | 4 | 3 | CV2370 | 3 | *48 | 5 | 3 | 6 |
| CV1942 | 6 | 52 | 6 | 10 | 3 | | | 63 | 6 | 5 | 3 | CV1982 | 6 | 40 | 6 | 4 | 3 | *Normally shows short position 2-6. | | | | | |
| | | | | | | | | | | | | CV1985 | 6 | 43 | 6 | 1 | 8 | CV2390 | 3 | *36 | 5 | 4 | 6 |
| | | | | | | | | | | | | | | 43 | 6 | 4 | 8 | *Normally shows short position 2-6. | | | | | |

CV1375-CV2390

* Normal Shorts refer to position of "C" Switch.
 † Do not connect Plate Cap to Adapter.

▲ Use TC-63 Adapter.
 □ Use TC-62-A Adapter.
 ▼ Use TC-70 Adapter.

■ Use TC-62-B Adapter or Novar Socket If Wired. (Units Between Serial No. 152001 and 153000 or UNITS Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

| TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket |
|---------------------------------------|--------|--------|---|----|--------|-------------------------------------|--------|------------------------------------|----|--------|--------|-----------|--------|--------------------------------------|----|-------|--------|-----------|--------|----|---|----|--------|
| CV2500 | 35 | 33 | 6 | 5 | 3 | CV2938 | 6 | 35 | 6 | 5 | 3 | D63 | 6 | 48 | 6 | 3 | 3 | DCC90 | 3 | 45 | 4 | 3 | 6 |
| CV2507 | 1 | 52 | 5 | 6 | 6 | CV2975 | 6 | 33 | 1 | 2 | 2 | D77 | 6 | 33 | 6 | 2 | 1 | DD6 | 6 | 33 | 6 | 2 | 1 |
| CV2522 | 6 | 35 | 6 | 1 | 1 | CV2983 | 3 | 45 | 5 | 6 | 6 | D152 | 6 | 33 | 6 | 7 | 1 | DF33 | 2 | 53 | 6 | 10 | 3 |
| CV2524 | 6 | 33 | 6 | 1 | 1 | CV2984 | 6 | 35 | 6 | 1 | 8 | D193 | 3 | 33 | 6 | 7 | 1 | DF91 | 1 | 55 | 5 | 6 | 6 |
| CV2526 | 6 | 40 | 6 | 1 | 1 | CV3512 | 6 | 34 | 5 | 6 | 1 | DA90 | 2 | *70 | 2 | 6 | 6 | DF92 | 1 | 55 | 5 | 6 | 6 |
| CV2534 | 50 | 34 | 6 | 5 | 3 | CV3523 | 6 | *38 | 1 | 5 | 3 | DA90 | 2 | *70 | 2 | 6 | 6 | DF96 | 1 | 58 | 5 | 6 | 6 |
| CV2706 | 6 | 53 | 6 | 4 | 4 | *Normally shows short position 4-6. | | CV3798 | 50 | *70 | 3 | 5 | 3 | *Normally shows short position 2-6. | | DF97 | 1 | 40 | 5 | 6 | 6 | 6 | 6 |
| CV2714 | 6 | 40 | 6 | 5 | 3 | *Normally shows short position 11. | | *Normally shows short position 11. | | CV4007 | 6 | 33 | 6 | 2 | 1 | DF904 | 1 | 52 | 5 | 6 | 6 | 6 | 6 |
| CV2716 | 6 | 48 | 6 | 3 | 8 | *Normally shows grid emission. | | CV3799 | 50 | *69 | 3 | 5 | 3 | *Normally shows short position 5-11. | | DH63 | 6 | 40 | 6 | 10 | 3 | 3 | 3 |
| CV2721 | 6 | *32 | 8 | 2 | 2 | *Normally shows short position 11. | | *Normally shows grid emission. | | DAC32 | 1 | 55 | 6 | 10 | 3 | DH74 | 12 | 40 | 6 | 10 | 3 | 3 | 3 |
| *Normally shows short position 1-6-9. | | CV4010 | 6 | 33 | 6 | 7 | 1 | CV4018 | 6 | 32 | 5 | 1 | 1 | DH76 | 12 | 40 | 6 | 10 | 3 | 3 | 3 | 3 | 3 |
| CV2748 | 5 | *36 | 6 | 4 | 3 | CV4024 | 12 | 32 | 10 | 2 | 2 | DAF91 | 1 | 56 | 6 | 6 | 6 | DH77 | 6 | 39 | 6 | 1 | 1 |
| *Normally shows short position 8-11. | | D2M9 | 6 | 33 | 6 | 2 | 1 | DC90 | 1 | *70 | 5 | 6 | 6 | *Normally shows short position 2-3. | | 64 | 6 | 5 | 1 | 1 | 1 | 1 | 1 |
| CV2769 | 6 | *55 | 1 | 5 | 1 | 33 | 6 | 7 | 1 | 64 | 6 | 6 | 1 | 1 | 64 | 6 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| *Normally shows short position 2-7. | | | | | | | | | | | | | | | | | | | | | | | |
| CV2901 | 6 | 40 | 2 | 9 | 2 | | | | | | | | | | | | | | | | | | |

* Normal Shorts refer to position of "C" Switch. ▲ Use TC-63 Adapter. ■ Use TC-62-B Adapter or Novar Socket If Wired. (Units Between Serial No. 152001 and 153000 or UNITS Above Serial No. 213000 Have Prewired Novar Socket on Panel.)
 † Do not connect Plate Cap to Adapter. □ Use TC-62-A Adapter. ▼ Use TC-70 Adapter.



| TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | | |
|-----------|--------|----|---|---|--------|--|--------|--|---|-------|--------|--------------------------------------|--------|-------------------------------------|----|-------|--------|-----------|--------|------|---|----|--------|---|---|
| DH107 | 19 | 39 | 6 | 1 | 1 | DL36 | 1 | 48 | 6 | 5 | 3 | DY87 | 1 | *95 | 1 | 10 | 7 | E90F | 6 | 32 | 6 | 1 | 1 | | |
| | | 64 | 6 | 5 | 1 | DL91 | 1 | *55 | 5 | 3 | 6 | *Normally shows short position 6-11. | | E91AA | 6 | 33 | 6 | 2 | 1 | 1 | 1 | 1 | | | |
| DH149 | 6 | 50 | 4 | 3 | 4 | *Normally shows short position 2-6. | | DL92 | 3 | *48 | 5 | 3 | 6 | E91H | 6 | 32 | 6 | 1 | 1 | 1 | 1 | 1 | | | |
| | | 68 | 4 | 5 | 4 | *Normally shows short position 2-6. | | DL93 | 3 | *36 | 5 | 4 | 6 | E91N | 6 | 32 | 5 | 1 | 1 | 1 | 1 | 1 | | | |
| DH710 | 6 | 68 | 4 | 6 | 4 | *Normally shows short position 2-6. | | DL94 | 3 | 45 | 5 | 6 | 6 | E92CC | 6 | 27 | 6 | 6 | 1 | 1 | 1 | 1 | | | |
| | | 35 | 6 | 2 | 2 | *Normally shows short position 2-6. | | DL95 | 3 | *42 | 5 | 3 | 6 | E235L | 6 | 30 | 4 | 5 | 3 | 1 | 1 | 1 | | | |
| | | 35 | 6 | 1 | 2 | *Normally shows short position 2-6. | | DL96 | 2 | 48 | 5 | 6 | 6 | E55L | 6 | *25 | 5 | 10 | 8 | E99F | 6 | 32 | 6 | 1 | 1 |
| | | 35 | 6 | 6 | 2 | *Normally shows short position 2-6. | | DP61 | 6 | 33 | 2 | 1 | 1 | *Normally shows short position 2-3. | | E180F | 6 | 27 | 3 | 2 | 2 | 2 | | | |
| DH719 | 6 | 43 | 6 | 8 | 2 | DL96 | 2 | 48 | 5 | 6 | 6 | E80CC | 12 | 42 | 10 | 2 | 2 | E182CC | 6 | 28 | 9 | 7 | 2 | | |
| | | 35 | 6 | 2 | 2 | DP61 | 6 | 33 | 2 | 1 | 1 | E80CF | 6 | 25 | 6 | 2 | 2 | E188CC | 6 | 24 | 6 | 2 | 2 | | |
| | | 35 | 6 | 1 | 2 | DY30 | 1 | *96 | 3 | 10 | 3 | E80F | 6 | 39 | 8 | 9 | 2 | E280F | 6 | 22 | 1 | 2 | 2 | | |
| | | 35 | 6 | 6 | 2 | *Normally shows short position 5-8-11. | | *Normally shows short position 5-8-11. | | E80L | 6 | 29 | 1 | 2 | 2 | AAA91 | 6 | 33 | 6 | 2 | 1 | 1 | 1 | | |
| DK32 | 1 | 57 | 6 | 5 | 3 | DY80 | 1 | *99 | 1 | 10 | 7 | E80T | 6 | 72 | 6 | 2 | 2 | EABC80 | 6 | 33 | 6 | 7 | 1 | | |
| DK91 | 1 | 57 | 5 | 4 | 6 | *Tube good if reads 20 or more. | | *Normally shows short position 6-11. | | E81L | 6 | 26 | 1 | 2 | 2 | E83F | 6 | 25 | 6 | 2 | 2 | 2 | | | |
| DK92 | 1 | 48 | 6 | 4 | 6 | *Normally shows short position 6-11. | | *Normally shows short position 6-11. | | E88CC | 6 | 28 | 6 | 2 | 2 | E88CC | 6 | 28 | 6 | 2 | 2 | 2 | | | |
| DK96 | 1 | 54 | 6 | 4 | 6 | DY86 | 1 | *95 | 1 | 10 | 7 | E90CC | 6 | 32 | 6 | 5 | 1 | EB34 | 6 | 48 | 1 | 3 | 3 | | |
| DL33 | 3 | 45 | 9 | 5 | 3 | *Normally shows short position 6-11. | | *Normally shows short position 6-11. | | | | | | | | | | | | | | | | | |
| DL35 | 1 | 54 | 6 | 5 | 3 | | | | | | | | | | | | | | | | | | | | |

* Normal Shorts refer to position of "C" Switch. ▲ Use TC-63 Adapter. ■ Use TC-62-B Adapter or Novar Socket If Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)
 † Do not connect Plate Cap to Adapter. □ Use TC-62-A Adapter. ▼ Use TC-70 Adapter.

| TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | |
|---------------------------------------|--------|-------------------------------------|---|--------------------------------|--------|-------------------------------------|--------|-------------------------------------|----|---|--------|-------------------------------------|--------|------|----|----|--------|-----------|--------|----|----|----|--------|---|
| CV2500 | 35 | 33 | 6 | 5 | 3 | CV2938 | 6 | 35 | 6 | 5 | 3 | D63 | 6 | 48 | 6 | 3 | 3 | DCC90 | 3 | 45 | 4 | 3 | 6 | |
| CV2507 | 1 | 52 | 5 | 6 | 6 | CV2975 | 6 | 33 | 1 | 2 | 2 | D77 | 6 | 48 | 6 | 5 | 3 | DD6 | 6 | 45 | 4 | 5 | 6 | |
| CV2522 | 6 | 35 | 6 | 1 | 1 | CV2983 | 3 | 45 | 5 | 6 | 6 | D152 | 6 | 33 | 6 | 2 | 1 | DF33 | 2 | 33 | 6 | 7 | 1 | |
| CV2524 | 6 | 33 | 6 | 1 | 1 | CV2984 | 6 | 35 | 6 | 1 | 8 | D193 | 6 | 33 | 6 | 7 | 1 | DF91 | 2 | 53 | 6 | 10 | 3 | |
| CV2526 | 6 | 40 | 6 | 1 | 1 | | | | | | | DA90 | 3 | 33 | 6 | 7 | 1 | DF92 | 1 | 55 | 5 | 6 | 6 | |
| | | 67 | 6 | 5 | 1 | CV3512 | 6 | 34 | 5 | 6 | 1 | DA90 | 1 | 36 | 5 | 4 | 6 | DF96 | 1 | 55 | 5 | 6 | 6 | |
| CV2534 | 50 | 34 | 6 | 5 | 3 | CV3523 | 6 | *38 | 1 | 5 | 3 | DA90 | 2 | *70 | 2 | 6 | 6 | DF97 | 1 | 58 | 5 | 6 | 6 | |
| CV2706 | 6 | 53 | 6 | 4 | 4 | *Normally shows short position 4-6. | | *Normally shows short position 2-6. | | | | DF904 | 1 | 40 | 5 | 6 | 6 | DH63 | 1 | 40 | 5 | 6 | 6 | |
| CV2714 | 6 | 40 | 6 | 5 | 3 | CV3798 | 50 | *70 | 3 | 5 | 3 | *Normally shows short position | | DH74 | 6 | 52 | 5 | 6 | 6 | 6 | 40 | 6 | 10 | 3 |
| CV2716 | 6 | 48 | 6 | 3 | 8 | *Normally shows grid emission. | | 5-11. | | | | DAC32 | 1 | 55 | 6 | 10 | 3 | 6 | 63 | 6 | 4 | 3 | 3 | |
| CV2721 | 6 | 48 | 6 | 4 | 8 | CV3799 | 50 | *69 | 3 | 5 | 3 | DAF91 | 1 | 96 | 6 | 5 | 3 | 6 | 63 | 6 | 5 | 3 | 3 | |
| *Normally shows short position 1-6-9. | | *Normally shows short position 11. | | *Normally shows grid emission. | | CV4007 | 6 | 33 | 6 | 2 | 1 | DAF92 | 2 | 95 | 6 | 3 | 6 | 6 | DH76 | 12 | 40 | 6 | 10 | 3 |
| CV2748 | 5 | *36 | 6 | 4 | 3 | CV4010 | 6 | 33 | 6 | 7 | 1 | DAF96 | 1 | 70 | 6 | 4 | 6 | 6 | 63 | 6 | 4 | 3 | 3 | |
| *Normally shows short position 8-11. | | *Normally shows short position 2-3. | | | | CV4018 | 6 | 32 | 5 | 1 | 1 | DC90 | 1 | 70 | 6 | 3 | 6 | 6 | 63 | 6 | 5 | 3 | 3 | |
| CV2769 | 6 | *55 | 1 | 5 | 1 | CV4024 | 12 | 32 | 10 | 2 | 2 | *Normally shows short position 2-3. | | DH77 | 6 | 39 | 6 | 1 | 1 | 64 | 6 | 5 | 1 | |
| CV2901 | 6 | 40 | 2 | 9 | 2 | D2M9 | 6 | 33 | 6 | 2 | 1 | | | | 64 | 6 | 6 | 6 | 1 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

* Normal Shorts refer to position of "C" Switch.
 † Do not connect Plate Cap to Adapter.
 ▲ Use TC-63 Adapter.
 □ Use TC-62-A Adapter.
 ▼ Use TC-70 Adapter.
 ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)



| TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | | |
|-------------|--------|----|---|---|--------|--|--------|------|---|-----|--------|--------------------------------------|--------|-------------------------------------|----|-------|--------|-----------|--------|----|----|---|--------|---|---|
| DH107 | 19 | 39 | 6 | 1 | 1 | DL36 | 1 | 48 | 6 | 5 | 3 | DY87 | 1 | *95 | 1 | 10 | 7 | E90F | 6 | 32 | 6 | 1 | 1 | | |
| | | 64 | 6 | 5 | 1 | DL91 | 1 | *55 | 5 | 3 | 6 | *Normally shows short position 6-11. | | E91AA | 6 | 33 | 6 | 2 | 1 | 6 | 33 | 6 | 7 | 1 | |
| DH149 | 6 | 50 | 4 | 3 | 4 | *Normally shows short position 2-6. | | DL92 | 3 | *48 | 5 | 3 | 6 | E91H | 6 | 32 | 6 | 1 | 1 | 6 | 32 | 5 | 1 | 1 | |
| | | 68 | 4 | 5 | 4 | *Normally shows short position 2-6. | | DL93 | 3 | *36 | 5 | 4 | 6 | E91N | 6 | 32 | 5 | 1 | 1 | 6 | 32 | 5 | 1 | 1 | |
| DH710 | 6 | 68 | 4 | 6 | 4 | DL94 | 3 | *45 | 5 | 6 | 6 | Normally shows short position 6-11. | | E92CC | 6 | 27 | 6 | 6 | 1 | 6 | 27 | 6 | 5 | 1 | |
| | | 43 | 6 | 8 | 2 | DL95 | 3 | *42 | 5 | 3 | 6 | E235L | 6 | 30 | 4 | 5 | 3 | 6 | 27 | 6 | 5 | 1 | 1 | | |
| | | 35 | 6 | 2 | 2 | *Normally shows short position 2-6. | | DL96 | 2 | 48 | 5 | 6 | 6 | E55L | 6 | *25 | 5 | 10 | 8 | 6 | 32 | 6 | 1 | 1 | |
| | | 35 | 6 | 1 | 2 | *Normally shows short position 2-6. | | DP61 | 6 | 33 | 2 | 1 | 1 | *Normally shows short position 2-3. | | E80CC | 12 | 42 | 10 | 2 | 2 | 6 | 27 | 3 | 2 |
| DH719 | 6 | 43 | 6 | 8 | 2 | DL96 | 2 | 48 | 5 | 6 | 6 | E80CF | 6 | 42 | 10 | 7 | 2 | 6 | 28 | 9 | 7 | 2 | 2 | | |
| | | 35 | 6 | 2 | 2 | DY30 | 1 | *96 | 3 | 10 | 3 | 6 | 6 | 25 | 6 | 2 | 2 | 6 | 24 | 6 | 2 | 2 | 2 | | |
| | | 35 | 6 | 1 | 2 | *Normally shows short position 5-8-11. | | DP61 | 6 | 33 | 2 | 1 | 1 | 25 | 6 | 9 | 2 | 6 | 24 | 6 | 7 | 2 | 2 | | |
| DK32 | 1 | 57 | 6 | 5 | 3 | *Normally shows short position 5-8-11. | | DY30 | 1 | *96 | 3 | 10 | 3 | E80F | 6 | 39 | 8 | 9 | 2 | 6 | 22 | 1 | 2 | 2 | |
| DK91 | 1 | 57 | 5 | 4 | 6 | DL96 | 2 | 48 | 5 | 6 | 6 | E80L | 6 | 29 | 1 | 2 | 2 | 6 | 33 | 6 | 2 | 1 | 1 | | |
| DK92 | 1 | 48 | 6 | 4 | 6 | DL96 | 2 | 48 | 5 | 6 | 6 | E80T | 6 | 72 | 6 | 2 | 2 | 6 | 33 | 6 | 7 | 1 | 1 | | |
| DK96 | 1 | 54 | 6 | 4 | 6 | DP61 | 6 | 33 | 2 | 1 | 1 | E81L | 6 | 26 | 1 | 2 | 2 | 6 | 43 | 6 | 8 | 2 | 2 | | |
| DL33 | 3 | 45 | 9 | 5 | 3 | *Normally shows short position 6-11. | | DY80 | 1 | *99 | 1 | 10 | 7 | E83F | 6 | 25 | 6 | 2 | 2 | 6 | 35 | 6 | 2 | 2 | |
| DL35 | 1 | 54 | 6 | 5 | 3 | *Normally shows short position 6-11. | | DY86 | 1 | *95 | 1 | 10 | 7 | E88CC | 6 | 28 | 6 | 2 | 2 | 6 | 35 | 6 | 1 | 2 | |
| CV2500-EB34 | | | | | | *Normally shows short position 6-11. | | | | | | E90CC | 6 | 32 | 6 | 5 | 1 | 6 | 48 | 1 | 3 | 3 | 3 | | |
| | | | | | | | | | | | | | | 32 | 6 | 6 | 1 | 6 | 48 | 1 | 5 | 3 | 3 | | |

* Normal Shorts refer to position of "C" Switch.
 † Do not connect Plate Cap to Adapter.
 ▲ Use TC-63 Adapter.
 □ Use TC-62-A Adapter.
 ▼ Use TC-70 Adapter.
 ■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|--|--------|-----|---|---|--------|-------------------------------------|--------|-----|----|---|--------|-----------|--------|----|----|---|--------|-----------|--------|----|---|---|--------|
| EB91 | 6 | 33 | 6 | 2 | 1 | EC90 | 6 | 41 | 1 | 6 | 1 | ECC88 | 6 | 31 | 6 | 2 | 2 | ECF801 | 6 | 24 | 3 | 2 | 2 |
| EBC90 | 6 | 33 | 6 | 7 | 1 | EC91 | 6 | *29 | 7 | 1 | 1 | ECC89 | 6 | 31 | 6 | 7 | 2 | ECF802 | 6 | 26 | 3 | 9 | 2 |
| | | 64 | 6 | 5 | 1 | *Normally shows short position 2-5. | | | | | | ECC91 | 6 | 29 | 6 | 2 | 2 | ECF-805 | 6 | 29 | 6 | 2 | 2 |
| | | 64 | 6 | 6 | 1 | EC92 | 6 | 30 | 6 | 6 | 1 | ECC91 | 6 | 29 | 2 | 6 | 2 | | 6 | 34 | 6 | 9 | 2 |
| EBC91 | 6 | 40 | 6 | 1 | 1 | EC95 | 6 | 33 | 1 | 2 | 1 | | 6 | 34 | 6 | 5 | 1 | | 6 | 33 | 9 | 9 | 2 |
| | | 67 | 6 | 5 | 1 | EC97 | 6 | 33 | 1 | 2 | 1 | ECC189 | 6 | 34 | 6 | 6 | 1 | | 6 | 30 | 9 | 7 | 2 |
| | | 67 | 6 | 6 | 1 | EC900 | 6 | 27 | 2 | 1 | 1 | ECC801S | 12 | 30 | 6 | 2 | 2 | | 6 | 85 | 6 | 1 | 2 |
| EBF80 | 6 | 37 | 6 | 2 | 2 | ECC35 | 6 | 43 | 6 | 1 | 8 | | 12 | 30 | 6 | 7 | 2 | | 6 | 38 | 6 | 9 | 2 |
| | | 64 | 6 | 7 | 2 | ECC81 | 12 | 43 | 6 | 4 | 8 | | 12 | 32 | 10 | 2 | 2 | | 6 | 30 | 6 | 2 | 2 |
| | | 64 | 6 | 8 | 2 | | 12 | 32 | 10 | 2 | 2 | ECC802S | 12 | 32 | 10 | 7 | 2 | | 6 | 34 | 6 | 9 | 2 |
| EBF83 | 6 | 31 | 6 | 2 | 2 | ECC82 | 12 | 32 | 10 | 7 | 2 | ECC808 | 6 | 40 | 10 | 2 | 2 | | 6 | 26 | 6 | 2 | 2 |
| | | 62 | 6 | 7 | 2 | ECC83 | 12 | 40 | 10 | 2 | 2 | ECC960 | 6 | 40 | 10 | 7 | 2 | | 6 | 33 | 6 | 9 | 2 |
| | | 62 | 6 | 8 | 2 | ECC84 | 6 | 42 | 10 | 2 | 2 | ECF80 | 6 | 36 | 6 | 1 | 2 | | 6 | 37 | 6 | 9 | 2 |
| EBF89 | 6 | 33 | 6 | 2 | 2 | ECC85 | 6 | 42 | 10 | 7 | 2 | ECF82 | 6 | 36 | 6 | 9 | 2 | | 6 | 44 | 6 | 2 | 2 |
| | | 60 | 6 | 7 | 2 | ECC86 | 6 | 33 | 8 | 2 | 2 | ECF86 | 6 | 32 | 6 | 5 | 1 | | 6 | 33 | 6 | 3 | 2 |
| | | 60 | 6 | 8 | 2 | | 6 | 33 | 8 | 6 | 2 | | 6 | 32 | 6 | 6 | 1 | | 6 | 39 | 6 | 1 | 2 |
| EC81 | 6 | 35 | 6 | 1 | 2 | | 6 | 32 | 6 | 2 | 2 | | 6 | 31 | 6 | 2 | 2 | | 6 | 25 | 6 | 8 | 2 |
| EC86 | 6 | 29 | 3 | 6 | 7 | | 6 | 32 | 6 | 7 | 2 | | 6 | 34 | 6 | 9 | 2 | | 6 | 25 | 6 | 1 | 2 |
| EC88 | 6 | *85 | 7 | 8 | 2 | | 6 | 32 | 6 | 7 | 2 | | 6 | 33 | 6 | 2 | 2 | | 6 | 29 | 6 | 9 | 2 |
| *Normally shows short position 1-3-7-9 | | | | | | | 6 | 33 | 6 | 2 | 2 | | 6 | 33 | 6 | 9 | 2 | | 6 | 29 | 6 | 2 | 2 |
| | | | | | | | 33 | 6 | 7 | 2 | | | 6 | 24 | 3 | 2 | 2 | | 6 | 26 | 6 | 8 | 2 |
| | | | | | | | | | | | | | 6 | 25 | 1 | 6 | 2 | | 6 | 30 | 6 | 1 | 2 |

*Normal Shorts refer to position of "C" Switch.
‡ Do not connect Plate Cap to Adapter.

▲ Use TC-63 Adapter.
□ Use TC-62-A Adapter.
▼ Use TC-70 Adapter.

■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

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| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|---|--------|------|---|----|--------|---------------------------------------|--------|-----|---|---|--------|--|--------|-----|----|---|--------|--------------------------------------|--------|------|---|----|--------|
| ECLL800 | 6 | *99 | 6 | 1 | 2 | EF96 | 6 | 31 | 2 | 1 | 1 | EL86 | 6 | *30 | 1 | 2 | 2 | ELL80 | 6 | 29 | 6 | 2 | 2 |
| | | 35 | 6 | 2 | 2 | EF98 | 6 | 30 | 6 | 1 | 1 | *Normally shows short position 7-8. | | | | | | EM-87 | 6 | *55 | 2 | 1 | 2 |
| | | 35 | 6 | 6 | 2 | EF183 | 6 | 30 | 3 | 2 | 2 | EL90 | 6 | 35 | 1 | 7 | 1 | *Normally shows short position 6-8. | | | | | |
| *Tube good if it reads 20 or more. | | | | | | EF184 | 6 | 29 | 3 | 2 | 2 | EL91 | 6 | 34 | 6 | 1 | 1 | EN93 | 6 | 43 | 6 | 1 | 1 |
| ED2 | 6 | 33 | 6 | 2 | 1 | EF804 | 6 | 39 | 2 | 9 | 2 | EL95 | 6 | 34 | 1 | 7 | 1 | EQ80 | 6 | 33 | 3 | 7 | 2 |
| | | 33 | 6 | 7 | 1 | EF-806S | 6 | 40 | 2 | 9 | 2 | EL-500 | 6 | *26 | 4 | 5 | 18 | EY81 | 6 | 30 | 2 | 9 | 2 |
| ED500 | 6 | **54 | 6 | 10 | 8 | EH90 | 6 | 35 | 6 | 1 | 1 | *May show short position 1-2-6-10. | | | | | | EY82 | 6 | 29 | 6 | 9 | 2 |
| **Connect Plate Cap to Adapter. | | | | | | EH-900S | 6 | 42 | 6 | 1 | 1 | *Connect plate cap lead to the tube. | | | | | | EY86 | 6 | *95 | 1 | 10 | 7 |
| *Normally shows short position 1-2-3-5-6. | | | | | | EK90 | 6 | 35 | 6 | 1 | 1 | EL503 | 6 | *31 | 7 | 2 | 18 | *Normally shows short position 6-11. | | | | | |
| | | | | | | EL34 | 6 | 35 | 6 | 5 | 3 | *Normally shows short position 1-4-5-10. | | | | | | EY87 | 6 | *98 | 1 | 10 | 7 |
| EF22 | 6 | 36 | 6 | 6 | 4 | EL36 | 6 | *32 | 4 | 5 | 3 | *Normally shows short position 3-8. | | | | | | *Normally shows short position 6-11 | | | | | |
| EF80 | 6 | 33 | 1 | 2 | 2 | *Normally Shows Short Position 3-8. | | | | | | EL-505 | 6 | *26 | 11 | 4 | 8 | *Normally shows short position 6-11 | | | | | |
| EF85 | 6 | 33 | 1 | 2 | 2 | EL37 | 6 | 37 | 6 | 5 | 3 | *Normally shows short position 1-2-5-6. | | | | | | EY88* | 6 | 27 | 7 | 3 | 7 |
| EF86 | 6 | 40 | 2 | 9 | 2 | EL38 | 6 | 29 | 6 | 5 | 3 | *Normally shows short position | | | | | | *If no test, use alternate settings. | | | | | |
| EF89 | 6 | 34 | 1 | 2 | 2 | EL81 | 6 | *32 | 8 | 2 | 2 | EL508 | 6 | 28 | 11 | 4 | 18 | EY88 | 6 | 27 | 3 | 7 | 7 |
| EF91 | 6 | 30 | 6 | 1 | 1 | *Normally shows short position 1-6-9. | | | | | | EL802 | 6 | *29 | 7 | 2 | 2 | *Use only TC-62B Adapter. | | | | | |
| EF92 | 6 | 35 | 6 | 1 | 1 | EL82 | 6 | 71 | 2 | 9 | 2 | *Normally shows short position 3-9. | | | | | | EY500 | 6 | **26 | 2 | 5 | 18 |
| EF93 | 6 | 33 | 2 | 1 | 1 | EL83 | 6 | 30 | 6 | 2 | 2 | *Normally shows short position | | | | | | EZ35 | 6 | 40 | 6 | 3 | 3 |
| EF94 | 6 | 33 | 6 | 1 | 1 | EL84 | 6 | 33 | 1 | 2 | 2 | *Normally shows short position 1-6-9. | | | | | | EZ80 | 6 | 40 | 6 | 1 | 2 |
| EF95 | 6 | 33 | 2 | 1 | 1 | EL85 | 6 | *39 | 1 | 2 | 2 | *Normally shows short position 6-8. | | | | | | 40 6 7 2 | | | | | |

*Normal Shorts refer to position of "C" Switch.
‡ Do not connect Plate Cap to Adapter.

▲ Use TC-63 Adapter.
□ Use TC-62-A Adapter.
▼ Use TC-70 Adapter.

■ Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

52

| TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | | |
|-----------|--------|------|---|----|--------|-----------|--------|-----|----|---|--------|-----------|--------|------|----|---|--------|-----------|--------|-----|---|---|--------|--|--|
| PCL86 | 14 | 26 | 6 | 8 | 2 | PL505 | 40 | *26 | 11 | 4 | 8 | PY88* | 30 | 27 | 7 | 3 | 7 | QV06/20 | 6 | *38 | 1 | 5 | 3 | | |
| PD500 | 9 | **54 | 6 | 10 | 8 | PL508 | 17 | 28 | 11 | 4 | 18 | PY88 | 30 | 27 | 3 | 7 | 7 | R52 | 5 | *36 | 6 | 4 | 3 | | |
| | | | | | | PL-509 | 30 | *26 | 11 | 4 | 8 | PY500 | 42 | **26 | 2 | 5 | 18 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| PF9 | 6 | 52 | 6 | 10 | 3 | PL521 | 29 | *25 | 1 | 4 | 18 | QA240 | 6 | 41 | 1 | 6 | 1 | | | | | | | | |
| PF86 | 4 | 35 | 2 | 9 | 2 | | | | | | | QA2404 | 6 | 33 | 6 | 2 | 1 | | | | | | | | |
| PH4 | 6 | 45 | 6 | 5 | 3 | | | | | | | QA2406 | 12 | 32 | 10 | 2 | 2 | | | | | | | | |
| PL36 | 25 | 27 | 6 | 5 | 3 | | | | | | | | | | | | | | | | | | | | |
| PL81 | 19 | *32 | 8 | 2 | 2 | PL802 | 16 | *29 | 7 | 2 | 2 | QA2407 | 6 | 44 | 6 | 1 | 1 | | | | | | | | |
| | | | | | | PL820 | 19 | *32 | 8 | 2 | 2 | QA2408 | 6 | 44 | 6 | 1 | 8 | | | | | | | | |
| PL82 | 16 | 71 | 2 | 9 | 2 | | | | | | | QE03/10 | 6 | 33 | 9 | 9 | 2 | | | | | | | | |
| PL83 | 12 | 30 | 6 | 2 | 2 | | | | | | | QE05/40 | 6 | *38 | 1 | 5 | 3 | | | | | | | | |
| PL84 | 15 | *30 | 1 | 2 | 2 | PM04 | 6 | 33 | 2 | 1 | 1 | QS150/40 | 50 | *99 | 3 | 5 | 3 | | | | | | | | |
| | | | | | | PM05 | 6 | 33 | 2 | 1 | 1 | | | | | | | | | | | | | | |
| PL-500 | 28 | *26 | 4 | 5 | 18 | PY32 | 29 | 25 | 7 | 3 | 3 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | PY80 | 19 | 29 | 6 | 9 | 2 | | | | | | | | | | | | | | |
| | | | | | | PY81 | 17 | 30 | 2 | 9 | 2 | | | | | | | | | | | | | | |
| | | | | | | PY82 | 19 | 29 | 6 | 9 | 2 | | | | | | | | | | | | | | |

*Normal Shorts refer to position of "C" Switch. † Do not connect Plate Cap to Adapter. Use TC-63 Adapter. Use TC-62-A Adapter. Use TC-70 Adapter. Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)



| TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | TUBE TYPE | Heater | A | B | O | Socket | | |
|-----------|--------|-----|---|---|--------|-----------|--------|----|---|---|--------|-----------|--------|-----|---|---|--------|-----------|--------|-----|---|---|--------|--|--|
| U52 | 5 | *40 | 6 | 4 | 3 | UAA91 | 19 | 33 | 6 | 2 | 1 | UU12 | 6 | 34 | 6 | 1 | 2 | VR-150 | 50 | *99 | 3 | 5 | 3 | | |
| | | | | | | UABC80 | 30 | 43 | 6 | 8 | 2 | UY82 | 50 | 29 | 6 | 9 | 2 | | | | | | | | |
| | | | | | | | | | | | | UY85 | 38 | 35 | 1 | 6 | 7 | | | | | | | | |
| U54 | 5 | *30 | 6 | 4 | 3 | | | | | | | V2M70 | 6 | 44 | 6 | 1 | 1 | | | | | | | | |
| | | | | | | UBF80 | 17 | 30 | 6 | 2 | 2 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | V-884 | 6 | 35 | 6 | 1 | 1 | | | | | | | | |
| U78 | 6 | 44 | 6 | 1 | 1 | UCC84 | 22 | 33 | 8 | 2 | 2 | VP6 | 6 | 35 | 6 | 1 | 1 | | | | | | | | |
| | | | | | | | | | | | | VP1321 | 12 | *55 | 1 | 5 | 1 | | | | | | | | |
| U147 | 6 | 40 | 6 | 3 | 3 | UCC85 | 25 | 32 | 6 | 2 | 2 | | | | | | | | | | | | | | |
| | | | | | | UCF80 | 25 | 31 | 6 | 2 | 2 | | | | | | | | | | | | | | |
| U149 | 6 | 45 | 6 | 3 | 4 | UCH81 | 19 | 32 | 6 | 2 | 2 | | | | | | | | | | | | | | |
| | | | | | | UCL82 | 50 | 33 | 6 | 3 | 2 | | | | | | | | | | | | | | |
| U153 | 17 | 30 | 2 | 9 | 2 | UF86 | 12 | 40 | 2 | 9 | 2 | | | | | | | | | | | | | | |
| U154 | 19 | 29 | 6 | 9 | 2 | UF89 | 12 | 34 | 1 | 2 | 2 | | | | | | | | | | | | | | |
| U192 | 19 | 29 | 6 | 9 | 2 | UL84 | 50 | 33 | 1 | 2 | 2 | | | | | | | | | | | | | | |
| U709 | 6 | 34 | 6 | 1 | 2 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

PCL86-VT93
 *Normal Shorts refer to position of "C" Switch. † Do not connect Plate Cap to Adapter. Use TC-63 Adapter. Use TC-62-A Adapter. Use TC-70 Adapter. Use TC-62-B Adapter or Novar Socket if Wired. (Units Between Serial No. 152001 and 153000 or Units Above Serial No. 213000 Have Prewired Novar Socket on Panel.)

| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|-----------|--------|-----|---|----|--------|--------------------------------------|--------|-----|---|---|--------|-----------|--------|----|---|---|--------|--------------------------------------|--------|-----|---|---|--------|
| VT94 | 6 | 42 | 6 | 5 | 3 | VT114 | 5 | *38 | 6 | 4 | 3 | X727 | 6 | 35 | 6 | 1 | 1 | XF85 | 3 | 33 | 1 | 2 | 2 |
| VT96 | 6 | 47 | 6 | 4 | 3 | | | *38 | 6 | 6 | 3 | XB767A | 6 | 34 | 6 | 5 | 3 | XF183 | 3 | 30 | 3 | 2 | 2 |
| VT-97 | 5 | *52 | 6 | 4 | 3 | *Normally shows short position 8-11. | | | | | | XC95 | 2 | 33 | 1 | 2 | 1 | XF184 | 3 | 29 | 3 | 2 | 2 |
| | | *52 | 6 | 6 | 3 | VT115 | 6 | 37 | 6 | 5 | 3 | XC97 | 2 | 33 | 1 | 2 | 1 | XL36 | 12 | *25 | 9 | 5 | 3 |
| | | | | | | | | | | | | XC900 | 2 | 27 | 2 | 1 | 1 | *Normally shows short position 1-4. | | | | | |
| | | | | | | VT116 | 6 | 35 | 6 | 4 | 3 | XCC189 | 4 | 30 | 6 | 2 | 2 | XL84 | 8 | 33 | 1 | 2 | 2 |
| VT99 | 6 | 45 | 6 | 5 | 3 | VT117 | 6 | 40 | 6 | 4 | 3 | | | 30 | 6 | 7 | 2 | XL86 | 8 | *30 | 1 | 2 | 2 |
| | | 45 | 6 | 10 | 3 | VT124 | 1 | 55 | 6 | 5 | 3 | XCF80 | 4 | 31 | 6 | 2 | 2 | *Normally shows short position 7-8. | | | | | |
| VT102 | 6 | 41 | 6 | 5 | 3 | VT125 | 1 | 54 | 6 | 5 | 3 | | | 34 | 6 | 9 | 2 | XL500 | 13 | *26 | 4 | 5 | 8 |
| VT103 | 6 | 42 | 6 | 2 | 8 | VT126 | 6 | 40 | 6 | 3 | 3 | XCF86 | 5 | 24 | 3 | 2 | 2 | *Connect plate cap lead to the tube. | | | | | |
| | | 71 | 6 | 4 | 8 | | | 40 | 6 | 5 | 3 | | | 25 | 1 | 6 | 2 | *May show short position 1-2-6-10. | | | | | |
| | | 71 | 6 | 5 | 8 | VT134 | 12 | 45 | 6 | 5 | 3 | XCF801 | 4 | 24 | 3 | 2 | 2 | XXD | 12 | 41 | 6 | 4 | 4 |
| VT104 | 12 | 42 | 6 | 2 | 8 | W17 | 1 | 55 | 5 | 6 | 6 | | | 26 | 3 | 9 | 2 | | | 41 | 6 | 5 | 4 |
| | | 71 | 6 | 4 | 8 | W77 | 6 | 35 | 6 | 1 | 1 | XCH81 | 3 | 85 | 6 | 1 | 2 | XXFM | 6 | 43 | 6 | 3 | 4 |
| | | 71 | 6 | 5 | 8 | W149 | 6 | 45 | 6 | 6 | 4 | | | 38 | 6 | 9 | 2 | | | 36 | 6 | 5 | 4 |
| VT105 | 6 | 48 | 6 | 3 | 8 | W719 | 6 | 33 | 1 | 2 | 2 | XCL82 | 8 | 33 | 6 | 3 | 2 | | | 35 | 6 | 6 | 4 |
| | | 48 | 6 | 4 | 8 | W727 | 6 | 33 | 2 | 1 | 1 | | | 39 | 6 | 1 | 2 | XXL | 6 | 41 | 6 | 6 | 4 |
| VT107 | 6 | 41 | 6 | 5 | 3 | X63 (M) | 6 | 45 | 6 | 5 | 3 | XCL84 | 8 | 25 | 6 | 8 | 2 | XY88* | 16 | 30 | 7 | 3 | 7 |
| VT112 | 6 | 33 | 6 | 4 | 3 | X73 (M) | 6 | 45 | 6 | 5 | 3 | | | 25 | 6 | 1 | 2 | *If no test, use alternate settings. | | | | | |
| | | | | | | X107 | 19 | 35 | 6 | 1 | 1 | XCL85 | 18 | 29 | 6 | 9 | 2 | XY88 | 16 | 30 | 3 | 7 | 7 |
| | | | | | | X155 | 6 | 30 | 6 | 2 | 2 | | | 29 | 6 | 2 | 2 | YF183 | 4 | 30 | 3 | 2 | 2 |
| | | | | | | | | 30 | 6 | 7 | 2 | XF80 | 3 | 33 | 1 | 2 | 2 | YF184 | 4 | 29 | 3 | 2 | 2 |

*Normal Shorts refer to position of "C" Switch.
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 ▼ Use TC-70 Adapter.

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| TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket | TUBE TYPE | Heater | A | B | C | Socket |
|-----------|--------|----|---|----|--------|-------------------------------------|--------|-----|---|---|--------|-----------|--------|----|---|---|--------|-----------|--------|----|---|---|--------|
| Z14 | 2 | 53 | 6 | 10 | 3 | ZD17 | 1 | *55 | 5 | 3 | 6 | ZD151 | 6 | 37 | 6 | 2 | 2 | ZD152 | 6 | 37 | 6 | 2 | 2 |
| Z63 | 6 | 50 | 6 | 10 | 3 | *Normally shows short position 2-6. | | | | | | | | 64 | 6 | 7 | 2 | | | 64 | 6 | 7 | 2 |
| Z152 | 6 | 33 | 1 | 2 | 2 | ZD25 | 1 | 58 | 6 | 6 | 6 | | | 64 | 6 | 8 | 2 | | | 64 | 6 | 8 | 2 |
| Z719 | 6 | 33 | 1 | 2 | 2 | | | 70 | 6 | 3 | 6 | | | | | | | | | | | | |
| Z729 | 6 | 40 | 2 | 9 | 2 | | | | | | | | | | | | | | | | | | |

VT94-ZD152

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B&K **DYNA-QUIK**
TUBE SELECTOR