

TESTERS, VALVE, AVO

TECHNICAL HANDBOOK—OPERATOR'S INSTRUCTIONS

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INTRODUCTION

1. The operator's instructions for the Testers, valve, Avo as detailed in this regulation enable general purpose Service valves and British and American valve types to be tested for serviceability. Testing is carried out by simulating the necessary d.c. test conditions and the true mutual conductance figures produced by application of a.c. voltages of suitable amplitude to all electrodes. A comprehensive table listing selector switch settings, test voltages and characteristics will be found at the end of this regulation (Table 6).
2. It should be noted that the capabilities of all the testers are not identical and the capability of any one tester will be found in the relevant section of this regulation.
3. It should also be noted that the instrument test results are

not necessarily conclusive. For example, few circuit stages are of such critical design that a large percentage change, either in the slope of the valve, or its anode current cannot be tolerated. On the other hand, the fundamental characteristics of a valve may be found to be correct but when the valve is used in a particular circuit stage it may not perform in a satisfactory manner, eg an a.f. output pentode that is microphonic or an r.f. pentode that is noisy. Such defects can only be found by testing the valve in its correct stage in the particular equipment for which it is needed.

4. It is essential to read paras 5-19 before reading the instructions applicable to any one tester, as these paras are general instructions applicable to all testers. A full technical description of these testers will be found in Tels Y 812, Parts 1 and 2 of this regulation.

GENERAL

SETTING-UP VALVE TEST CIRCUITS—ALL TESTERS

5. Prior to the insertion of the valve to be tested, it is *essential* to determine the settings of the ROLLER SELECTOR switch to ensure the connection of the electrodes to their correct circuits and supplies. This information is detailed in Table 6 of this regulation. In addition, Table 7 will give the Service type equivalent of civilian type valves.
6. From Table 6 determine the pin basing connections for the valve in order of their standard numbering. Rotate the rollers of the SELECTOR SWITCH until the correct combination appears in the escutcheon windows, ie corresponding to the combination already determined from the table. For example, consider the Service type CV 138, an indirectly heated miniature h.f. pentode. This valve has a B7G base. For this valve, the left to right ROLLER SELECTOR switch settings are:—
4 1 2 3 6 1 5 0 0
7. Rotation of the nine switch rollers to bring the above numbers in the escutcheon windows, in the order left to right, provides the connections for the valve electrodes to their correct circuits. The method is illustrated in Fig 1. It will be seen that the valve grid, which is terminated at pin

number 1 of the B7G base, is connected to circuit number 4 of the instrument, and so on for other electrodes.

8. For valves with electrodes brought out to a top cap or side terminal connection, the electrode such as a grid or anode is connected to the appropriate test circuit by means of a jumper lead provided with each instrument, to be plugged into the correct socket situated on the valve holder panel of the instrument. The number of sockets varies with each instrument and they are detailed as follows:—

<i>Tester, valve, Avo, No 1</i>	<i>Tester, valve, Avo, No 3</i>	<i>Tester, valve, Avo, CT 160</i>
G1—Circuit No 4	G1—Circuit No 4	C —Circuit No 1
S —Circuit No 5	S —Circuit No 5	H —Circuit No 2
A1—Circuit No 6	A1—Circuit No 6	H+—Circuit No 3
	A2—Circuit No 7	G1 —Circuit No 4
	D1—Circuit No 8	S —Circuit No 5
		A1 —Circuit No 6
		A2 —Circuit No 7
		D1 —Circuit No 8
		D2 —Circuit No 9

VALVE TO BE TESTED : CV138
 COMMERCIAL EQUIVALENT: EF91
 VALVE BASE TYPE : B7G
 ROLLER SELECTOR
 SWITCH SETTING : 412361500
 FILAMENT VOLTS : 16.0
 NEG GRID VOLTS : 2.0
 ANODE VOLTS : 250
 SCREEN VOLTS : 250

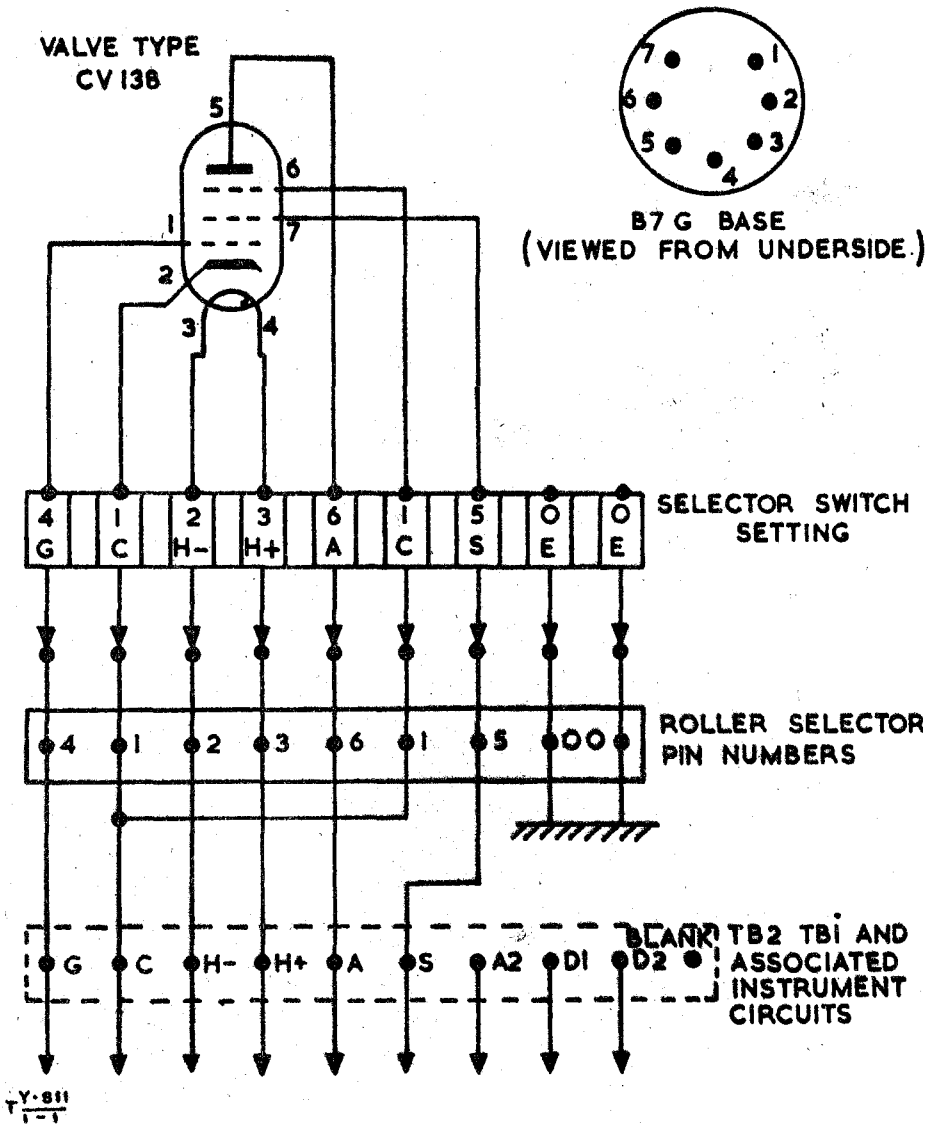


Fig 1—Method of setting-up test circuits

USE OF VALVE TESTING DATA CONTAINED IN TABLE 6

9. The function of a valve is indicated in Table 6 by a symbol in the form of letters in the TYPE column at the extreme right of the test data. The following coding is used:—

D	—Diode	DT	—Diode-triode
DD	—Double-diode	DDT	—Double-diode triode
DDD	—Triple-diode	DDDT	—Triple-diode triode
DP	—Diode-pentode	TH	—Triode-hexode
DDP	—Double-diode pentode	TP	—Triode-pentode
P	—Pentode	H	—Hexode or heptode
PP	—Double-pentode	O	—Octode
T	—Triode	R	—Half-wave rectifier
TT	—Double-triode	RR	—Full-wave rectifier
TI	—Tuning indicator	CCR	—Cold cathode rectifier

10. On each instrument there is a combination of switches to enable multiple valves to be tested. The basic methods only are outlined here, but detailed instructions are given later in this regulation.

11. The various switching combinations enable mutual conductance, and in the case of Tester, valve, Avo, No 3 and CT 160, the anode current, to be indicated on the meter. These readings are relevant either to the anode connected by the ROLLER SELECTOR switch to circuit 6 as denoted by the roller setting $\frac{6}{A_1}$, or to circuit 7 as denoted by $\frac{7}{A_2}$.

12. With all instruments, switching combinations will allow rectifiers and signal diodes to be tested. In the case of the Tester, No 1 the cathode current is measured with a fixed anode voltage and no external resistance whilst with the other testers the valves are tested 'on load'.

13. It should be noted that no complication exists in metering the majority of multiple valves such as double-diode triodes, double-triodes and double-pentodes. The ROLLER SELECTOR switch settings provide the key to the electrode arrangement, and thus the various valve systems can be metered individually.

14. The system can be summarized by an example. Consider the Service valve type CV 1428. Reference to Table 6 shows this to be a double-diode triode, coding DDT. The ROLLER SELECTOR switch setting is:—

0	2	3	1	8	9	0	6	0
E	H-	H+	C	D ₁	D ₂	E	A ₁	E

The grid has a top cap connection. The triode element can be dealt with in a normal manner and the diode elements subsequently tested by using the anode selector switch.

TESTER, VALVE, AVO, No 1

GENERAL

20. The chief disadvantage of this instrument is that it is not possible to apply grid-bias to the valve being tested and consequently errors may arise due to grid current loading of the grid supply which is likely to vary between different valves of the same type.

21. Some high slope valves go into oscillation on the slope test and this may be recognized by a slight unsteadiness of

15. In the case of triple-diodes, since only two anode systems are catered for in the instruments, a special procedure must be adopted. Table 6 provides the ROLLER SELECTOR switch settings, in which the third anode is represented by the symbol †. The valve should be tested normally with the ROLLER SELECTOR switch at $\frac{0}{E}$ for the † symbol. This test provides emission figures for diodes 1 and 2. For the third diode, the ROLLER SELECTOR switch should be reset so that diodes 1 and 2 are set to $\frac{0}{E}$ and the third diode denoted by the symbol † is set to $\frac{8}{D_1}$. Then the emission of the third diode can be tested.

Example: Valve, type AAB1

Selector setting 0 2 3 1 † 0 9 8 0

Selector setting for diode 1 and 2 tests:—

0	2	3	1	0	0	9	8	0
$\frac{0}{E}$	$\frac{2}{H-}$	$\frac{3}{H+}$	$\frac{1}{C}$	$\frac{0}{E}$	$\frac{0}{E}$	$\frac{9}{D_2}$	$\frac{8}{D_1}$	$\frac{0}{E}$

Selector setting for diode 3 test:—

0	2	3	1	8	0	0	0	0
$\frac{0}{E}$	$\frac{2}{H-}$	$\frac{3}{H+}$	$\frac{1}{C}$	$\frac{8}{D_1}$	$\frac{0}{E}$	$\frac{0}{E}$	$\frac{0}{E}$	$\frac{0}{E}$

FREQUENCY CHANGER TESTING

16. Heptodes and hexodes should be set-up on the instrument and tested as an h.f. pentode. Anode current and mutual conductance figures are provided in Table 6. In fact, a substitution test is the only true test of the serviceability of these valves.

17. An octode type can be tested as though it had two separate electrode assemblies.

18. The sections of a triode-hexode are not interdependent and they can be tested in two separate sections as a triode and pentode respectively. This arrangement is effected in the ROLLER SELECTOR switch settings.

EMISSION CHECK

19. An indication of failing emission in a valve can be obtained by reducing the heater voltage by 10 to 15% for a short period and noting the corresponding percentage change in anode current. In the case of a valve with failing emission this will result in an excessive decrease in the anode current, considerably greater than the percentage decrease in heater voltage. Such a result would indicate that the valve would not oscillate very satisfactorily and this test is particularly useful for valves or sections of valves required for use as oscillators.

the meter needle. This condition may usually be cured by connecting a small capacitor (say 0.001μF) between the grid and cathode pins of the valve.

Capabilities

22. General purpose diodes, triodes, tetrodes and pentodes can be tested in the normal manner and sections of multi-assembly valve types such as double-diode triodes and hexodes, etc, can be tested in sequence.

VIEWED FROM UNDERSIDE OF BASE

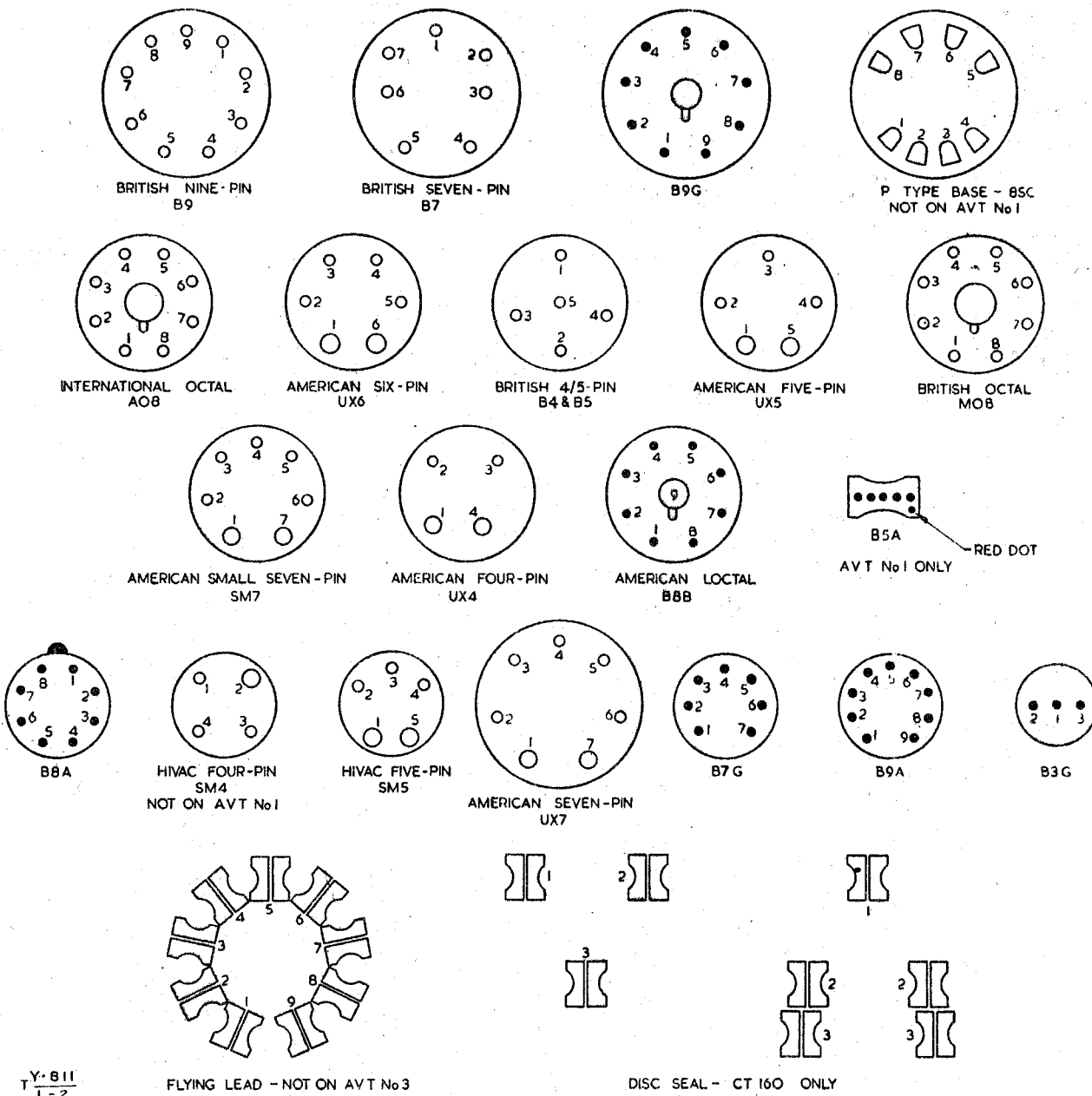


Fig 2—Valve pin connections

23. The full test facilities are detailed below:—

- (a) Heater continuity
- (b) Cathode to heater insulation (valve hot).
- (c) Inter-electrode insulation (valve cold) by comparison tests using the glow of a neon lamp.
- (d) Mutual conductance directly in mA/V.
- (e) The indication of comparative 'goodness' on the basis of mutual conductance reading.
- (f) Anode current of rectifiers to a maximum of 100mA.
- (g) Signal diode current up to 10mA.

24. Valveholders are provided for valves with the following bases and the numbering of pin connections is given in Fig 2:

- | | |
|----------------------|-----------|
| British 4/5-pin | B4 and B5 |
| British 7-pin | B7 |
| British octal | MO8 |
| British 9-pin | B9 |
| American 4-pin | UX4 |
| American 5-pin | UX5 |
| American 6-pin | UX6 |
| American 7-pin | UX7 |
| American small 7-pin | SM7 |
| International octal | AO8 |

B9G
B7G
B9A
B3G
B8A
B5A
B5B

These valve bases have been added to the original instrument by modification action

Controls

25. A list of controls and their functions is shown in Table 3.

Power requirements

26. The instrument may be operated from the following a.c. supplies:—

200-250 volts 50 or 60c/s

The power consumption is approx 20VA.

General precautions

27. Do not insert a valve until the correct valve pin connections have been established as detailed in paras 5-8.

28. The key switch should not be moved from its central position until the inter-electrode insulation has been checked as detailed in paras 33 and 34, and the filament, screen and anode voltages have been set to the values appropriate to the valve under test.

29. Particular care is needed in the setting-up of the FILAMENT VOLTS selector switch and the NORMAL ÷ BY 7 switch before the valve is inserted in the valveholder. *Nothing can save the heater from being burnt out* if excessive voltage is applied by the wrong setting of these switches. Hence it is good practice to return FILAMENT VOLTS to zero and the NORMAL ÷ BY 7 switch to NORMAL after a test has been applied and before a new valve is inserted, except of course, when testing a batch of valves.

Initial setting-up for use

30. Remove the disc plate from the underside of the main unit and adjust the mains input to the correct tapping.

31. In the 3-core mains lead the red and black leads are line and neutral respectively and the earth lead is green or yellow.

INITIAL VALVE TESTS

Heater continuity test—all valves

32. (a) Plug two flexible leads into the sockets below the ON/OFF switch.
- (b) Switch ON. (The neon lamp should not glow.)
- (c) Touch the ends of the leads together to check that the instrument is working. The neon lamp should glow.
- (d) Apply leads to heater pins, the neon lamp will serve as a continuity indicator.

N.B.—In making this test hold the leads by their insulated parts to prevent leakage through the body falsifying the result.

Insulation test—all hard valves

Inter-electrode insulation—valve cold

33. Using the flexible leads as in para 32, connect them to every possible combination of two pins on the valve base between which reference to Table 6 shows no direct con-

nection. The neon lamp serves as a short-circuit indicator and the brighter it glows, the lower the resistance between the probes. If the lamp glows on any pair of contacts other than the heater or filament pins, the valve is unserviceable and no further test need be made. *The tests detailed in paras 32 and 33 must be carried out before proceeding further.*

Setting-up valve test voltages

34. From details given in Table 6 set up ROLLER SELECTOR switch, paras 5-8 refer, and all voltage controls. The setting of the voltage controls applies to all subsequent tests unless otherwise detailed.

Insulation test—Indirectly heated valves

Cathode to heater insulation test—valve hot

35. (a) Set the SET MA/V control to 100.
- (b) In the case of a pentode set SCREEN volts to 60.
- (c) Insert valve and after allowing time for it to warm up, turn the SET ZERO control anti-clockwise until meter reads zero.
- (d) Press the key switch to the right (to the C. INS. position) and the heater/cathode insulation resistance may be read off directly on the lower black scale.

MUTUAL CONDUCTANCE TESTS

Direct reading

Triodes, tetrodes, pentodes and heptodes

36. (a) Set SELECT ANODE to NORMAL.
- (b) Check the settings of the ROLLER SELECTOR switch and all voltage controls, para 34 refers.
- (c) Set MA/V control to 100.
- (d) Set the SET ZERO control fully clockwise.
- (e) If the mutual conductance is expected to be below 10mA/V turn the SET MA/V control to MA/V and zero accurately by means of SET ZERO control.
- (f) Press the key switch to the left (to the MA/V position) and the reading on the meter will be directly in mA/V.
- (g) If the mutual conductance is expected to be above 10mA/V then set the MA/V control to 100 and zero accurately by means of the SET ZERO control.
- (h) Press the key switch to the left (to the MA/V position) and the reading on the meter should be multiplied by ten to give the correct value of mutual conductance.

Double-triodes, double-tetrodes and double-pentodes

37. (a) For these valves only one set of figures is given in Table 6. These figures are applicable to each half of the valve.
- (b) To test one half of the valve proceed as for para 36 (a) to (h).
- (c) Set SELECT ANODE to A₂.
- (d) To test the other half of the valve proceed as for para 36 (b) to (h).

Triode-pentodes, triode-hexodes, triode-heptodes and octodes

38. (a) For these valves two sets of figures are given in Table 6.
- (b) Using the first set of figures proceed as for para 36 (a) to (h).

- (c) Set SELECT ANODE to A₂.
- (d) Using the second set of figures proceed as for para 36 (b) to (h).

Comparative reading

Triodes, tetrodes, pentodes and heptodes

- 39. (a) Set SELECT ANODE to NORMAL.
- (b) Check the settings of the ROLLER SELECTOR switch and all voltage controls, para 34 refers.
- (c) Set the SET MA/V control to the value given in Table 6 for the valve being tested.
- (d) Rotate the SET ZERO control until the meter indicates zero.
- (e) Press the key switch to the left (MA/V position) and all valves can be regarded as satisfactory if the meter needle lies within the green band on the scale.

Double-triodes, double-tetrodes and double-pentodes

- 40. (a) For these valves only one set of figures is given in Table 6. These figures are applicable to each half of the valve.
- (b) To test one half of the valve proceed as for para 39 (a) to (e).
- (c) Set SELECT ANODE to A₂.
- (d) To test the other half of the valve proceed as for para 39 (b) to (e).

Triode-pentodes, triode-hexodes, triode-heptodes and octodes

- 41. (a) For these valves two sets of figures are given in Table 6.
- (b) Using the first set of figures proceed as for para 39 (a) to (e).
- (c) Set SELECT ANODE to A₂.
- (d) Using the second set of figures proceed as for para 39 (b) to (e).

RECTIFIER AND DIODE TESTING

Half-wave rectifier

- 42. (a) Set ANODE volts to REC.
- (b) Set SELECT ANODE to D1.
- (c) Set the SET MA/V control to 100.
- (d) Turn the SET ZERO control fully clockwise.
- (e) Switch ON. The indicated meter reading is the current passed by the rectifier, full scale deflection representing 100mA.

Full-wave rectifier

- 43. (a) Set anode volts to REC.
- (b) Set SELECT ANODE to D1.
- (c) Set the SET MA/V control to 100.
- (d) Turn the SET ZERO control fully clockwise.
- (e) Switch ON. The indicated meter reading is the current passed by one half of the rectifier, full scale deflection representing 100mA.
- (f) To test the other half of the valve set SELECT ANODE to D2, and repeat as for D1.

Signal diodes and diode sections of multiple valves

- 44. (a) Set ANODE volts to D.
- (b) Set SELECT ANODE to D1.
- (c) Set the SET MA/V control to MA/V.
- (d) Turn the SET ZERO control fully clockwise.
- (e) Switch ON. The indicated meter reading is the anode current of the valve, full scale deflection representing 10mA.
- (f) Should the valve be a double-diode, the other half is tested by setting the SELECT ANODE to D2, and repeating as for D1.

TESTER, VALVE, AVO, No 3

GENERAL

Capabilities

45. General purpose diodes, triodes, tetrodes and pentodes can be tested in the normal manner, and sections of the multi-assembly valve types such as double-diode triodes, and hexodes etc can be tested in sequence.

46. The full test facilities are detailed below:—

- (a) Heater continuity.
- (b) Cathode to heater insulation (valve hot or cold).
- (c) Inter-electrode insulation (valve hot or cold) up to 10·0MΩ.
- (d) Anode or screen currents (100mA max).
- (e) Gas current.
- (f) Mutual conductance directly in mA/V.
- (g) The indication of comparative valve 'goodness' on the basis of mutual conductance reading.
- (h) Rectifier output with loadings variable between 5 and 120mA.

- (j) Signal-diode output with d.c. loading up to 1mA.
- (k) Mutual characteristics plotting.

47. Valveholders are provided for valves with the following bases, and the numbering of the pin connections is given in Fig 2:—

British 4/5-pin	B4 and B5
British 7-pin	B7
British octal	M08
British 9-pin	B9
American 4-pin	UX4
American 5-pin	UX5
American 6-pin	UX6
American 7-pin	UX7
American small 7-pin	SM7
American loctal	B8B
Hivac 4-pin	SM4
Hivac 5-pin	SM5
International octal	AO8
P. type base 8-pin, side contact	8SC

Miniature 3-pin	B3G
Miniature 7-pin	B7G
Phillips 8-pin locking	B8A
Miniature 9-pin	B9A or noval
All glass 9-pin	B9G

To cover the introduction of new valve bases, a plug-in adaptor is provided with the instrument which enables non-standard valveholders to be adapted and plugged into a suitable base on the valveholder panel.

Controls

48. A list of controls and their functions is given in Table 4.

Power requirements

49. The instrument may be operated from the following a.c. supplies:—

95V-125V }
185V-255V } 50 or 60c/s

The power consumption is approximately 60VA.

General precautions

50. *Do not* insert a valve until the correct valve pin connections have been established as detailed in paras 5-8.

51. THE CIRCUIT SELECTOR switch must not be moved from the CHECK (C) position until the filament, grid, screen and anode voltages have been set to the values appropriate to the valve under test.

52. Particular care is needed in the setting-up of the FILAMENT VOLTS selector switches before the valve to be tested is inserted in the valveholder. *Nothing can save the heater from being burnt out* if excessive voltage is applied by the wrong setting-up of these switches. Hence it is good practice to return all voltage selector switches, especially the FILAMENT VOLTS, to zero after a test has been applied and before a new valve is inserted, except of course when testing a batch of identical valves.

53. Valves should be tested for inter-electrode insulation *before* the CIRCUIT SELECTOR switch is moved to position TEST.

54. The safety cut-out prevents damage to the transformers in the event of the h.t. supplies being short-circuited, but it does *not protect the meter movement against heavy d.c. currents* occurring in the valve anode or screen circuits. Where any doubt exists as to the probable value of the electrode current likely to be passed the METER SELECTOR switch (SG) should be set to the highest current range and the range subsequently reduced according to the value of the current passing.

55. Do not apply test voltages to a valve without ensuring that where necessary the top cap or side terminal connections have been correctly made. Furthermore, where the jumper lead termination is not of the shrouded type, particular care should be taken to ensure that it is not left lying on the valveholder panel when connected to one of the voltage supply sockets as there is a danger of it shorting to frame.

Initial setting-up for use

56. Check the coarse mains input transformer link LK1, situated at the rear of the instrument, for the setting appropriate to the normal mains voltage of the workshops supply.

57. Connect the mains lead to the supply. Red and black

leads are line and neutral respectively, and the green or yellow the earth connection.

58. Check that 2.5A cartridge fuse is fitted in the holder at the rear of the instrument.

59. Ensure that the anode circuit link LK2 at the rear of the instrument is in circuit.

60. Switch on and operate RESET switch SL; the meter scale should then be illuminated.

INITIAL VALVE TESTS

Mains input fine adjustment

61. This adjustment is important as it establishes the correct electrode voltages for the calibrated controls. It should be carried out each time the tester is used and the setting checked at intervals if the instrument is in continuous use for a long period of time.

62. Turn the CIRCUIT SELECTOR to the CHECK (C) position and the ELECTRODE LEAKAGE switch to position ~. The meter needle should now rise and assume a position near the black region of the insulation scale denoting zero ohms. Rotate the SET ~ until the meter needle assumes its nearest point to the red line in the middle of the black scale marking. With a correct setting of the initial mains voltage adjustment, rotation of the SET ~ control should enable the needle to be moved either side of the red line. If this cannot be achieved, then the mains tapping link LK1 should be moved to the next appropriate tapping, i.e. the higher tapping if the needle is to the right of the marker, and the lower tapping if to the left.

Setting-up valve test voltages

63. (a) From the details given in Table 6 set up the ROLLER SELECTOR switch, paras 5-8 refer, and all voltage controls with the instrument switched off. The setting of the voltage controls applies to all subsequent tests unless otherwise detailed.

(b) Insert valve.

(c) Switch on and operate RESET button.

(d) The insulation tests as detailed in paras 64-67 must be carried out prior to mutual conductance testing.

Heater continuity test—all valves

64. (a) Set CIRCUIT SELECTOR switch to CHECK (C).

(b) Set ELECTRODE LEAKAGE switch to H.

(c) Heater continuity is indicated on the meter by deflection of the pointer to the SHORT marker.

Insulation test—all valves

Inter-electrode insulation—valve cold

65. (a) Set CIRCUIT SELECTOR switch to CHECK (C)

(b) Rotate ELECTRODE LEAKAGE switch through its various electrode positions without moving the CIRCUIT SELECTOR switch from its position CHECK (C).

(c) Thereafter any meter reading will show an electrode insulation breakdown corresponding to the electrode indicated by the ELECTRODE LEAKAGE switch setting. It should be noted that wherever electrode leakage occurs an indication will be seen at two positions of the ELECTRODE LEAKAGE switch.

For example, if the anode to screen cold insulation is down at $2.0M\Omega$, this leakage figure will be indicated by the meter at two positions, namely S and A1.

Insulation test—valve hot.

66. (a) Set CIRCUIT SELECTOR switch to CHECK (H).
(b) In this position the cathode and heaters are strapped together and the remaining electrodes are strapped to each other. After allowing half a minute for the valve to warm up, any meter deflection indicates a leakage between cathode and heater strapped and all other electrodes.

Insulation test—indirectly heated valves

Cathode to heater insulation test

67. (a) Set CIRCUIT SELECTOR switch to C/H INS.
(b) A deflection on the meter indicates leakage between heater and cathode with valve hot.

Anode and screen currents

68. The following procedure with appropriate settings of the ROLLER SELECTOR and ANODE SELECTOR switches is applicable to all valves with the exception of those dealt with in paras 81-86.

69. (a) Check the settings of the anode, screen and grid voltage control switches.
(b) Set the METER SELECTOR switch to the 100mA meter range.
(c) Rotate the SET ZERO control fully clockwise.
(d) Set CIRCUIT SELECTOR switch to TEST.
(e) Set the ANODE SELECTOR switch to the electrode for which the current reading is required, ie A1 or A2 for the anode and S for the screen current.
(f) Reduce the current range setting if required by means of the METER SELECTOR switch. The meter indicates directly the anode or screen current.
(g) If the cut-out operates during this test, as will be shown by the meter lamps going out, *do not* operate the cut-out RESET button until the settings of the ROLLER selector switch and the electrode voltage controls have been checked. If these are correct then the valve is probably 'soft'.

MUTUAL CONDUCTANCE TESTS

Direct reading

Triodes, tetrodes, pentodes and heptodes

70. (a) Set the ANODE SELECTOR switch to A1.
(b) Check the settings of the ROLLER SELECTOR switch and voltage controls, para 63 refers.
(c) Set CIRCUIT SELECTOR switch to TEST.
(d) Ensure that the METER SELECTOR switch is set to the appropriate range for the valve anode current.
(e) Zero the meter reading by rotation of the SET ZERO control.
(f) Press the mA/V button. The indicated meter reading is the direct reading of mutual conductance in mA/V.

Double-triodes, double-tetrodes and double-pentodes

71. (a) For these valves only one set of figures is given in Table 6. These figures are applicable for each section of the valve.
(b) To test one section proceed as for para 70 (a) to (f).
(c) To test the other section set ANODE SELECTOR switch to A2.
(d) Repeat para 70 (e) and (f).

Triode-pentodes, triode-hexodes, triode-heptodes and octodes

72. (a) For these valves two sets of figures are given in Table 6.
(b) Using the first set of figures proceed as for para 70 (a) to (f).
(c) Set ANODE SELECTOR switch to A2.
(d) Using the second set of figures proceed as for para 70 (b) to (f).

Comparative testing

Triodes, tetrodes, pentodes and heptodes

73. (a) Set ANODE SELECTOR switch to A1.
(b) Check the settings of the ROLLER SELECTOR switch and all voltage controls, para 63 refers.
(c) Set CIRCUIT SELECTOR switch to TEST.
(d) Zero the meter reading by rotation of the SET ZERO control.
(e) Set METER SELECTOR switch to position mA/V.
(f) Rotate SET mA/V control to the value given in Table 6 for the mutual conductance of the valve.
(g) Press the mA/V button. All valves may be regarded as satisfactory if the meter needle lies within the green band on the scale.

Double-triodes, double-tetrodes and double-pentodes

74. (a) For these valves only one set of figures is given in Table 6. These figures are applicable to both sections of the valve.
(b) To test one section of the valve proceed as for para 73 (a) to (g).
(c) To test the other section set the ANODE SELECTOR switch to A2.
(d) Proceed as for para 73 (b) to (g).

Triode-pentodes, triode-hexodes, triode-heptodes and octodes

75. (a) For these valves two sets of figures are given in Table 6.
(b) Using the first set of figures proceed as for para 73 (a) to (g).
(c) Set ANODE SELECTOR switch to A2.
(d) Using the second set of figures proceed as for para 73 (b) to (g).

GRID CURRENT TEST

Method

76. (a) Set CIRCUIT SELECTOR switch to TEST.
(b) Set ANODE SELECTOR switch to appropriate position for the valve or valve section under test.

- (c) Set METER SELECTOR switch to the appropriate range for the anode current of the valve or valve section under test.
- (d) Reduce the standing anode current to zero by anti-clockwise rotation of the SET ZERO control and set METER SELECTOR switch to give the most sensitive current range of the meter.
- (e) Press the GAS button and note the change of anode current.

77. The value of grid current flowing will then be given by:—

$$I_g(\mu A) = \frac{dI_a \times 10}{g}$$

Where dI_a is the anode current change and g is the mutual conductance in mA/V. The direction of anode current change will denote the nature of the grid current flowing.

I_g should not exceed $5\mu A$.

78. It should be noted that with valves operated about zero bias, positive grid current may flow, as will be indicated in a change of anode current in the backward direction due to the polarity change of the voltage developed across the grid resistor. This change can be observed by establishing a false zero on the meter using the SET ZERO control, and the value of positive grid current calculated as in para 77.

PLOTTING OF MUTUAL CHARACTERISTICS

Static

79. When more comprehensive tests of a valve are required, static mutual characteristic curves may be plotted with this instrument with the CIRCUIT SELECTOR switch in position TEST. For example, I_a/V_g curves can be taken at fixed settings of anode and screen voltages, the readings of anode current being plotted against settings of the grid bias control.

Dynamic

80. By removing the anode link LK2, situated at the rear of the instrument and inserting a suitable load, dynamic characteristic curves may be obtained in a similar manner to that outlined for static curves, in para 79.

RECTIFIER AND DIODE TESTING

81. The setting-up and initial tests for insulation, etc as already described for other valve types should be carried out prior to making the following load tests, paras 64-67 refer.

Half-wave rectifiers

- 82. (a) Set the METER SELECTOR switch to a load current range appropriate to the valve. This load current setting can be determined from the valve data in Table 6, or can be related to the current the valve is required to deliver.
- (b) Set the CIRCUIT SELECTOR switch to REC.
- (c) Set the ANODE SELECTOR switch to A1.
- (d) All valves can be regarded as satisfactory if the meter needle lies within the green band on the scale.

Full-wave rectifiers

83. The operations are the same as detailed in para 82, sub-paras (a) to (d), with the addition of checking the second rectifier element by switching the ANODE SELECTOR switch to A2, see para 12.

Gas-filled and cold cathode rectifiers

84. For these valves a suitable load must be used in the anode circuit at LK2, to limit the anode current. The CIRCUIT SELECTOR switch should be set to the TEST position and the anode voltage set in the normal way by means of the ANODE VOLTS switch. The value of the load resistor and its rating is provided in the mA/V column of Table 6. Anode current readings should be taken and compared with those detailed in the Table 6.

Signal diodes and diode sections of multiple valves

- 85. (a) Set METER SELECTOR switch for 1.0mA loading. Note that signal diodes are always tested with the METER SELECTOR switch in this position. Care must be taken when carrying out this test as the majority of diodes give full scale deflection or slightly above.
- (b) Set CIRCUIT SELECTOR switch to DIODE.
- (c) Set ANODE SELECTOR switch to A1 or A2, according to connection of diode elements.
- (d) All valves can be regarded as satisfactory if the meter needle lies within the green band on the scale.

Tuning indicators

86. These can be tested with the controls set according to figures obtained from Table 6, and inserting the given anode load, R_a , at LK2. At the bias detailed in the table the triode section should be cut-off and the 'eye' fully closed. On reducing the bias to zero, the 'eye' should open fully and the value of indicated anode current should be that appearing in Table 6.

TESTER, VALVE, AVO, CT 160

GENERAL

Capabilities

87. General purpose diodes, triodes, tetrodes and pentodes can be tested in the normal manner, and sections of multi-assembly valve types such as double-diode-triodes and hexodes, etc, can be tested in sequence.

88. The full test facilities are detailed below:—

- (a) Heater continuity.
- (b) Cathode to heater insulation (valve hot or cold).

- (c) Inter-electrode insulation (valve hot or cold) up to $25M\Omega$.
- (d) Anode current (100mA max).
- (e) Gas current (limited to $100\mu A$).
- (f) Mutual conductance directly in mA/V.
- (g) The indication of comparative valve 'goodness' on the basis of mutual conductance reading.
- (h) Rectifier output with loadings variable between 5 and 120mA.

- (j) Signal diode output with d.c. loading up to 1mA.
- (k) Mutual characteristics plotting.

89. Valveholders are provided with the following bases and the numbering of the pin connections is given in Fig 2.

British 4/5-pin	B4 and B5
British 7-pin	B7
British octal	MO8
British 9-pin	B9
American 4-pin	UX4
American 5-pin	UX5
American 6-pin	UX6
American 7-pin	UX7
American small 7-pin	SM7
American loctal	B8B or B8G
Hivac 4-pin	SM4
Hivac 5-pin	SM5
International octal	AO8
P type base 8-pin side contact	8SC
Miniature 3-pin	B3G
Miniature 7-pin	B7G
Phillips 8-pin locking	B8A
Miniature 9-pin	B9A or noval
All glass 9-pin	B9G
Disc seal	
Flying lead	

Controls

90. A list of controls and their functions is given in Table 5.

Power requirements

91. The instrument may be operated from the following 50-500c/s a.c. supplies.

105-120V
175-250V

The power consumption is approximately 50VA maximum.

General precautions

92. Do not insert a valve until the correct valve pin connections have been established as detailed in paras 5-8.

93. The CIRCUIT SELECTOR switch must not be moved from the H/CONT position until the filament, grid, screen and anode voltages have been set to the values appropriate to the valve under test.

94. Particular care is needed in the setting-up of the HEATER VOLTS selector switches before the valve to be tested is inserted in the valve holder. *Nothing can save the heater from being burnt out* if excessive voltage is applied by the wrong setting of these switches. Hence it is good practice to return all voltage selector switches, especially the HEATER VOLTS to zero after a test has been applied and before a new valve is inserted, except of course when testing a batch of identical valves.

95. Valves should be tested for inter-electrode insulation before the CIRCUIT SELECTOR switch is moved to position TEST.

96. The safety cut-out prevents damage to the transformers in the event of any of the h.t. supplies being short-circuited, but it does not protect the meter movement against heavy d.c. currents occurring in the valve anode circuit. Where any doubt exists as to the probable value of electrode current likely to be passed the ANODE CURRENT selector switch and fine control (SH and RV1) should be set to the highest current range and the range subsequently reduced according to the value of the current passing.

97. Do not apply test voltages to a valve without ensuring that, where necessary, the top caps or side terminal connections have been correctly made. Furthermore, where a jumper lead is used, particular care should be taken to ensure that it is not left lying on the valveholder panel when connected to one of the voltage supply sockets, as there is danger of it shorting to frame.

Initial setting-up for use

98. Check the coarse mains transformer link LK4 and the fine control SK, for the settings appropriate to the nominal mains voltage of the workshops supply.

99. Connect the mains lead to the supply. Red and blue leads are line and neutral respectively, and green the earth connection.

100. Check that two 2A cartridge fuses are fitted in the holders on the control panel.

101. Check that the anode circuit links LK1 and LK2 on the valveholder panel are secure.

INITIAL VALVE TESTS

Mains input fine adjustment

102. This adjustment is important as it establishes the correct electrode voltages for the calibrated controls. It should be carried out each time the tester is used and the setting checked at intervals if the instrument is in continuous use for a long period of time.

103. Turn the CIRCUIT SELECTOR to the SET ~ position and switch ON. The meter needle will rise after some 30 seconds and assume a position near the black region of the insulation scale denoting zero ohms. Set the voltage adjustment control so that the meter needle assumes its nearest position to the red line in the middle of the black zero. If the meter needle will not lie in the black zero, the mains tapping link LK4 requires adjustment and should be moved to the next higher tapping if the meter needle is to the right, and to the next lower tapping if the needle is to the left, of the black zero.

Setting-up valve test voltages

104. (a) From the details given in Table 6 set up the ROLLER SELECTOR switch, paras 5-8 refer, and all voltage controls with the instrument switched off. The setting of the voltage controls applies to all subsequent tests unless otherwise detailed.

(b) Insert valve and switch on.

(c) The insulation tests as detailed in paras 105-108 must be carried out prior to mutual conductance testing.

Heater continuity test—all valves

105. (a) Set CIRCUIT SELECTOR switch to H/CONT.

(b) Set ELECTRODE SELECTOR switch to C/H.

(c) Heater continuity is indicated on the meter by deflection of the pointer to the SHORT marker.

Insulation test—all valves

Inter-electrode insulation—valve cold

106. (a) Proceed with the tests in the order given in Table 1 below.

(b) Any breakdown between electrodes will be shown by deflection of the meter needle.

Circuit selector switch position	Electrode selector switch position	Insulation check
A/R	A ₁	Checks insulation anode 1 to screen, filament, cathode, anode 2 and grid
A/R	A ₂	Checks insulation anode 2 to screen, filament, cathode, anode 1 and grid
A/R	D ₁	Checks insulation D ₁ to screen, filament, cathode, anode 1 and grid
A/R	D ₂	Checks insulation D ₂ to screen, filament, cathode, anode 2 and grid
S/R	A ₁	Checks insulation screen to filament, cathode and grid

Table 1—Insulation checks—valve cold. CT 160

Insulation test—valve hot

107. (a) Proceed with the tests in the order given in Table 2 below.
- (b) Any deflection of the meter needle indicates a leakage between cathode and heater strapped and any other electrode.

Circuit selector switch position	Electrode selector switch position	Insulation check
CH/R	A ₁	Checks insulation cathode and heater to A ₁ , A ₂ , G ₁ , S
CH/R	D ₁	Checks insulation cathode and heater to D ₁
CH/R	D ₂	Checks insulation cathode and heater to D ₂

Table 2—Insulation checks—valve hot. CT 160

Insulation test—indirectly heated valves

Cathode to heater insulation test

108. (a) Set CIRCUIT SELECTOR switch to C/H.
- (b) Set ELECTRODE SELECTOR switch to C/H.
- (c) A deflection of the meter needle indicates leakage between heater and cathode with the valve hot.

Anode current

109. The following procedure with appropriate settings of the ROLLER SELECTOR switch is applicable to all valves with exception of those dealt with in paras 124-129.

110. (a) Check the settings of the anode, screen and grid voltage control switches, para 104 refers.

- (b) Set the ANODE CURRENT control switch and fine potentiometer to the value given in column 8 of Table 6.
- (c) Set the CIRCUIT SELECTOR switch to TEST.
- (d) Set the ELECTRODE SELECTOR switch to the anode for which the current reading is required, ie A₁ or A₂.
- (e) Reduce the meter reading to zero by means of the ANODE CURRENT control switch and the fine control.
- (f) Rotate the SET mA/V control to the SET ZERO position and finally zero the meter reading by means of the fine ANODE CURRENT control.
- (g) The anode current is found by adding the readings of the ANODE CURRENT control switch and the fine control.

Operation of protective relay

111. Should the protective relay operate, switch off. Check for correct setting of the ROLLER SELECTOR switch and electrode voltages. If these are correct and the relay continues to 'buzz' when the instrument is switched on again the valve is probably 'soft', and the test should proceed no further.

MUTUAL CONDUCTANCE TESTS

Direct reading using recommended anode current

Triodes, tetrodes, pentodes and heptodes

112. (a) Set ELECTRODE SELECTOR switch to A₁.
- (b) Check setting of ROLLER SELECTOR switch, all voltage controls, para 104 refers, and set the ANODE CURRENT controls to the value given in Table 6.
- (c) Set CIRCUIT SELECTOR switch to TEST.
- (d) Do not alter the ANODE CURRENT controls but adjust NEG GRID VOLTS control until meter indicates zero.
- (e) Slowly rotate the SET mA/V control to the SET ZERO position and make any final adjustment to zero using the fine ANODE CURRENT control. Ensure that the valve has reached its correct working temperature, this being shown by no further rise of the meter needle, whilst the SET mA/V control is in the SET ZERO position.
- (f) Continue rotation of the SET mA/V control until the meter needle reaches the calibration line in the centre of the 'good' zone, marked '1 mA/V'.
- (g) Read the actual value of mutual conductance from the SET mA/V dial. This should be compared with the value given in Table 6.

Double-triodes, double-tetrodes and double-pentodes

113. (a) For these valves only one set of figures is given in Table 6. They are applicable to each section of the valve.
- (b) To test one section of the valve proceed as for para 112 (a) to (g).
- (c) To test the other section set ELECTRODE SELECTOR switch to A₂.
- (d) Proceed as for para 112 (d) to (g).

Triode-pentodes, triode-hexodes, triode-heptodes and octodes

114. (a) For these valves two sets of figures are given in Table 6.
(b) Using the first set of figures proceed as for para 112 (a) to (g).
(c) Set ELECTRODE SELECTOR switch to A2.
(d) Using the second set of figures proceed as for para 112 (b) to (g).

Valves having a mutual conductance less than 1mA/V

115. Since the SET mA/V dial is not calibrated below 1mA/V it is not possible to check the valves on the coloured comparison scale. Such valves are checked by direct measurement of mutual conductance using the procedure set out in para 112 (a) to (e). Then rotate the SET mA/V dial to the 1mA/V position and read the mutual conductance on the scale calibrated 0.1-1mA/V.

Direct reading using recommended grid voltage

116. An alternative method of obtaining mutual conductance is by using the recommended grid voltage. Proceed as for paras 112, 113 or 114, since the only difference between this method and that outlined in those paras is that during the test the NEG GRID VOLTS control is left set to the value given in Table 6, and meter reading zeroed by means of the ANODE CURRENT controls.

Comparative reading using recommended anode current

Triodes, tetrodes, pentodes and heptodes

117. (a) Set ELECTRODE SELECTOR switch to A1.
(b) Check setting of ROLLER SELECTOR switch, all voltage controls, para 104 refers, and set the ANODE CURRENT control to the value given in Table 6.
(c) Set CIRCUIT SELECTOR switch to TEST.
(d) Do not alter the ANODE CURRENT controls but adjust NEG GRID VOLTS until the meter indicates zero.
(e) Slowly rotate the SET mA/V control to the SET ZERO position and make any final adjustment to zero, using the fine ANODE CURRENT control. Ensure that the valve has reached its correct working temperature, this being shown by no further rise of the meter needle whilst the SET mA/V control is in the SET ZERO position.
(f) Continue rotation of the SET mA/V control to the expected value of mA/V (meter needle should rise).
(g) All valves can be regarded as satisfactory if the meter needle lies within the green band on the scale.

Double-triodes, double-tetrodes and double-pentodes

118. (a) For these valves only one set of figures is given in Table 6. They are applicable to each section of the valve.
(b) To test one section of the valve, proceed as for para 117 (a) to (g).
(c) To test the other section set ELECTRODE SELECTOR switch to A2.
(d) Proceed as for para 117 (d) to (g).

Triode-pentodes, triode-hexodes, triode-heptodes and octodes.

119. (a) For these valves two sets of figures are given in Table 6.
(b) Using the first set of figures proceed as for para 117 (a) to (g).
(c) Set ELECTRODE SELECTOR switch to A2.
(d) Using the second set of figures proceed as for para 117 (b) to (g).

Comparative reading using recommended grid voltage

120. An alternative method of obtaining a comparative reading is by using the recommended grid voltage. Proceed as for paras 117, 118 or 119, since the only difference between this and that outlined in those paras is that during the test the NEG GRID VOLTS control is left set at the value given in Table 6, and the meter reading zeroed by the ANODE CURRENT controls.

GRID CURRENT TEST

Method

121. (a) Set ANODE SELECTOR switch to the appropriate position for the valve or valve section under test.
(b) Check all voltage controls, para 104 refers.
(c) Set CIRCUIT SELECTOR to GAS.
(d) Deflection of the meter needle will indicate grid current, if any, directly in μA .
(e) I_g should not exceed $5\mu\text{A}$.

PLOTTING OF MUTUAL CHARACTERISTICS

Static

122. When more comprehensive tests of a valve are required, static mutual characteristic curves may be plotted using this instrument with the CIRCUIT SELECTOR in position TEST. For example, I_a/V_g curves can be taken at fixed settings of anode and screen voltages, the readings of anode current being plotted against settings of the grid bias control.

Dynamic

123. By opening the anode links LK1 or LK2 situated on the valveholder panel and inserting a suitable load, dynamic characteristic curves may be obtained in a similar manner to that outlined for static curves in para 122.

RECTIFIER AND DIODE TESTING

124. The setting-up and initial tests for insulation, etc as already described for other valve types should be carried out prior to making the following load tests, paras 101-105 refer.

Half-wave rectifiers

125. (a) Set the right-hand ANODE CURRENT control switch to a reading on the inner ring of figures corresponding to the load current given for the valve in Table 6.
(b) Set CIRCUIT SELECTOR switch to TEST.
(c) Set ELECTRODE SELECTOR to D1.
(d) All valves can be regarded as satisfactory if the meter needle lies within the green band on the scale.

Full-wave rectifiers

126. The operations are the same as detailed in para 125, sub-paras (a) to (d), with the addition of checking the second rectifier element by switching the ELECTRODE SELECTOR to D2, para 12 refers.

Gas-filled and cold cathode rectifiers

127. For these valves a suitable load must be inserted at the anode link or links (if a full-wave). The CIRCUIT SELECTOR should be set to TEST and the appropriate voltage and representative anode current figures found in Table 6. Full-wave examples of this class of valve are tested with the ELECTRODE SELECTOR at positions A1 and A2 in turn. The maximum loading on these rectifiers must be limited to 100mA per anode to avoid damage to the instrument. It should be noted that with these valves the anode voltage is set in normal manner by means of the ANODE VOLTS control switch.

Signal diodes and diode sections of multiple valves

128. (a) Set ANODE CURRENT control switch to figure given in Table 6, using the inner ring of figures. If no figure is given set ANODE CURRENT control switch to 1.0mA. Care must be taken when carrying out this test as the majority of diodes give full-scale deflection or slightly above.

- (b) Set CIRCUIT SELECTOR switch to TEST.
- (c) Set ELECTRODE SELECTOR switch to D1.
- (d) All valves can be regarded as satisfactory if the meter needle lies within the green band.
- (e) If a double-diode, test second diode with ELECTRODE SELECTOR switch set to D2.

Tuning indicators

129. (a) Check the settings of anode, screen and bias voltage controls, para 101 refers.
- (b) Open LK1 and insert the anode load, the value of which is given in the REMARKS column of Table 6.
 - (c) Set CIRCUIT SELECTOR switch to TEST.
 - (d) Set ELECTRODE SELECTOR switch to A1.
 - (e) Insert valve and allow to warm up, when at the given value of bias the triode section should be cut off, ie the 'eye' fully closed and no anode current indicated.
 - (f) Reduce the bias to zero, the 'eye' should now be fully open and the indicated value of anode current that given in Table 6.

Control	Circuit ref	Function
OFF-ON	SA	Power supply on-off switch
HEATER	SB	Filament voltage selector switch
ANODE	SC	Anode voltage selector switch
SCREEN	SD	Screen voltage selector switch
SELECT ANODE	SE	Anode current metering switch
MA/V/C. INS	SF	Applies 1 volt change to grid for mA/V test Applies voltage to C/Heater for insulation test
SET mA/V	RV1	Variable meter shunt for mutual conductance test
SET ZERO	RV2	Resistor controlling anode current backing-off voltage
ROLLER SELECTOR	SG	Valve pin circuit selector switch
NORMAL / ÷ BY 7	SH	Filament voltage range control switch

Table 3—List of controls—Tester, valve, Avo, No 1

Control	Circuit ref	Function
OFF-ON	SA	Power supply on-off switch
SET ~	SB	Mains transformer input tapping selector switch
FILAMENT VOLTS	{ SC SD	High and low, filament voltage selector switches
ANODE VOLTS	SE	Anode voltage selector switch
SCREEN VOLTS	SF	Screen voltage selector switch
METER SELECTOR	SG	Meter shunt selector switch
ANODE SELECTOR	SH	Anode and screen current metering switch
CIRCUIT SELECTOR	SI	Test circuit selector switch
ELECTRODE LEAKAGE	SJ	Inter-electrode insulation test switch
GAS	SK	Reverse grid current switch
RESET	SL	Overload relay reset switch
MA/V	SM	Mutual conductance test push-button switch
V _{gx1} /V _{gx10}	SN	Grid voltage multiplier switch
SET ZERO	{ RV1 RV2	Ganged variable resistors controlling anode current backing-off voltage
NEG GRID VOLTS	RV3	Fine control grid voltage
SET MA/V	RV4	Variable meter shunt for mutual conductance test
ROLLER SELECTOR	SO	Valve pin circuit selector switch

Table 4—List of controls—Tester, valve, Avo, No 3

Control	Circuit ref	Function
OFF-ON	SA	Power supply on-off switch
HEATER VOLTS	{ SB SC	Heater voltage selector switch Heater voltage range switch
ANODE VOLTS	SD	Anode voltage selector switch
SCREEN VOLTS	SE	Screen voltage selector switch
ELECTRODE SELECTOR	SF	Anode current metering switch
CIRCUIT SELECTOR	SG	Test circuit selector switch
ANODE CURRENT	{ SH RV1	Anode current backing-off voltage range switch Anode current backing-off voltage fine control
SET mA/V	RV2	Variable control for mutual conductance test
NEG GRID VOLTS	RV3	Variable control of grid volts
ROLLER SELECTOR	SJ	Valve pin circuit selector switch
	SK	Mains input fine voltage control

Table 5—List of controls—Tester, valve, Avo, CT 160

Table 6—Table of valve data

Valve	Selector Switch No	TC	Vf	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data			Base	Type	Remarks	
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts				mA/V
CV6	020 000 310	G1 A1	6-0	5-5	250		14	3-0	100		3-0	A08	T	
CV9	041 231 500	A1	(5-0)	7-0	250	250	72	14-5	100	PenLF	8-5	E7	P	See Note K
CV16	234 000 000	A1	4-0	1-0	250		6-0	4-2	No data available			Disc seal	T	Min slope fig. See Note A
CV18	204 140 300	A1 A2	6-3	7-0	250		21	2-8	100		2-1	LX7	TT	
CV20	002 300 000	A1	4-0	60		100			REC		20mA	B4	R	
CV21	216 510 030	G1	4-0	2-7	250	200	7-7	2-0	100	150	2-0	M08	P	
CV24	216 040 030		4-0	4-5	250		7-0	3-1	150		3-1	M08	T	
CV31	892 300 000		(5-0)				60		REC		20mA	B4	RR	See Note K
CV33	003 200 000	D1	5-0				120		REC		30mA	B4	R	
CV51	026 540 310		6-3	15	250	250						A08	TI	Ra read = 1MΩ See Note G
CV53	234 000 000	A1	4-0	1-0	250		6-0	4-5	No data available			Disc seal	T	
CV54	002 300 000	D1	4-0				60		REC		20mA	B4	R	
CV63	020 000 310	A1 G1	6-3	3-0	100		25	6-7	100		6-0	A08	T	See Note B
CV65	206 540 030		2-0	3-6	125	125	5-0	3-0	100	100	3-0	M08	P	
CV66	244 684 413		6-3	1-5	250		10	9-0	100		7-0	B9G	T	
CV72	045 231 000	A1	6-3	9-75	200	200	40	8-7	100	100	7-0	B7	P	
CV73	040 231 500	A1	(5-0)	9-75	200	200	40	8-7	100	100	7-0	B7	P	See Note K
CV74	642 300 000		2-0	4-5	75		4-0	1-0	80		1-0	Sm4	T	
CV78	366 446 612		6-3	2-3	250		32	15-0	No data available			B9G	T	
CV82	234 000 000	A1	4-0	3-0	250		20	3-7	No data available			Disc seal	T	Min mA/V See Note A
CV84	642 310 000		6-3	9-0	300		55	6-0	No data available			B5	T	
CV88	See Note C		6-3	0	250		4-0	5-0	No data available			Disc seal	T	See Note C
CV93	See Note C		1-4	0	20			0-7	No data available			Disc seal	T	See Note C

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Table 6-(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data			Base	Type	Remarks	
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts				mA/V
CV235	602 300 000	D1	4.0	40	75	75	120	1.5	REC	30mA	B4	R		
CV243	642 350 000	(5-0)							No data available		B5	P	See Note K	
CV244	542 310 000	A1	4.0	1.5	200	100	4.8	2.2	100	100	2.2	B5	P	mA/V fig min
CV245	026 510 310	G1	7.5	5.5	250	150	5.2	2.0	100	100	2.0	A08	P	
CV249	423 600 000		4.0	0	200		9.0	1.25	100		1.25	B4	T	
CV280	216 510 030	G1	6.3	1.5	200	200	10.9	8.5	100	150	8.0	M08	P	
CV261	112 311 100	D1	4.0		5.0				D		B7G	R		
CV266	632 400 000		1.4	0	100			0.8	No data available		Special	T	See Note D	
CV267	623 400 000		1.4	0	100			0.8	No data available		Special	T	See Note D	
CV273	346 000 000	H-	6.3	1.0	250		20	3.0	No data available		Disc Seal	T		
CV276	020 540 310	A1	6.0	0	200	200	25	9.0	100	150	8.0	A08	P	
CV277	020 000 300	D1	4.0				30		REC	17mA	A08	R		
CV278	461 471 230		6.3	8.0	250		9.0	2.6	100		2.6	A08	TT	
CV281	027 546 310	G1	6.3	2.0	100		5.4	2.2	100		2.8	A08	TH	
CV283	192 310 800		6.3	2.0	250	100	5.0	2.4	150	100	1.2	D		
CV290	234 000 000		6.3	0	350		30	6.0	No data available		B7G	R		
CV296	256 101 403		6.3	7.0	250	250	10	6.0	100	PenLF	6.0	B9G	P	
CV302	276 454 130		6.3	2.0	100		6.2	2.4	100		3.2	B8G	TH	
CV303	265 104 130		6.3	2.0	250	90	5.3	2.2	100	90	2.2			
CV304	265 004 130		6.3	2.5	250	100	6.0	2.2	100	100	2.2	B8B	P	
CV305	261 154 130		6.3	7.0	250	250	44	9.5	100	PenLF	9.0	B8B	P	
CV309	265 511 413		6.3	2.0	250	250	14	9.5	100	PenLF	9.0	B8B	P	
CV317	322 322 222	A1	4.0	30	300	250	25	1.9	100	100	1.9	B9G	P	
			4.0		60		80		REC	30mA	B9G	R		

CV321	026 540 310		6-3	15	250	250	85	6-2	100	PenLF	5-9	A08	P	
CV327	261 154 130		6-3	2-0	250	250	10	10	100	150	8-0	B8G	P	
CV329	412 361 500		6-3	3-7	200	200	6-5	3-8	100	150	3-3	B7G	P	
CV330	123 000 000	A1, G1	6-3	3-3	200		7-5	2-9	100		2-9	B3G	T	
CV338	362 222 272		5-0				125		REC		40mA	B9G	RR	
CV343	216 510 030	G1	6-3	4-0	200	200	6-7	3-35	100	150	3-3	M08	P	
CV344	020 000 310	A1, G1	6-3	3-0	100		25	6-7	100		6-7	A08	T	See Note B
CV345	020 540 310	A1	6-3	18	150	150	100	9-6	100	100	10	A08	P	
CV346	208 009 130		6-3				60		REC		20mA	B8B	RR	
CV347	264 *89 130		6-3	5-5	250	250	5-0	2-0	100		2-0	B8B	DDT	
CV352	026 890 310	G1	6-3	5-5	250	250	5-0	2-0	100		2-0	A08	DDT	
CV354	346 000 000	H-	6-3	2-0	250		10	6-5	No data available			Disc seal	T	mA/V fig min
CV358	026 510 310	G1	6-3	2-0	250	100	3-0	1-8	100	100	1-8	A08	P	
CV366	265 004 130		6-3	3-0	300	150	30	11	100	100	10-8	B8G	P	
CV371	112 311 100	A1	4-0		60		50		REC		25mA	B7G	R	
CV375	123 000 000	D1	6-3				1-0		D		1mA	B3G	D	
CV378	030 809 020		(5-7)				120		REC		40mA	A08	RR	See Note K
CV380	265 114 113		6-3	1-7	250	250	10	7-7	100	PenLF	7-0	B9G	P	
CV384	642 300 000		(5-0)	30	400		62-5	7-5	No data available			B4	T	See Note K
CV385	653 420 000		1-25	1-5	40	40		0-5	No data available			B8D	P	See Note D
CV385	040 230 650		1-25	1-5	40	40		0-5	No data available			B8D	P	See Note F
CV386	653 420 000		0-625	0	40	40		0-2	No data available			B8D	P	See Note D
CV386	040 230 650		0-625	0	40	40		0-2	No data available			B8D	P	See Note F
CV386	*4* 23* 650		0-625	0	40	40	0-37	0-22	No data available			B8D	P	See Note D
CV387	653 420 000		1-25	4-5	40	40		0-5	No data available			B8D	P	See Note D
CV387	040 230 650		1-25	4-5	40	40		0-5	No data available			B8D	P	See Note F
CV391	265 144 130		6-3	0	300	250	72	6-0	100	PenLF	6-0	B8G	P	
CV394	026 457 310		6-3	12	250	250			No data available			A08	TI	Ra = 1MΩ See Note G
CV399	642 310 000		4-0	4-0	250	250	5-0	3-6	150		3-6	B5	T	
CV404	030 000 020	A1	4-0		100		90		REC		30mA	A08	R	
CV408	412 300 600		6-3	2-2	150		10	8-0	150		8-0	B7G	T	

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data			Base	Type	Remarks	
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts				mA/V
CV409	265 004 130		6-3	4-0	250	250	40	10-5	100	PenLF	10-5	B8G	P	
CV415	241 657 143		6-3	1-4	250	150	30	3-9	100	100	3-9	B9G	PP	
CV416	412 361 500		6-3	2-0	150	150	46	6-0	No data available			B7G	P	
CV417	412 314 600		6-3	2-0	250		6-0	8-5	200		8-0	B7G	T	
CV419	412 314 600		6-3	2-0	250		6-0	8-5	200		8-0	B7G	T	
CV423	461 471 230		25	8-0	250		9-0	2-6	100		2-5	A08	TT	
CV424	245 134 200	A1, A2	6-3		400	250	30	3-4	No data available			B7A	PP	
CV426	023 000 000	D1	6-0				120		D			B3G	D	
CV426	230 000 000	A1	6-3		100		9-0		No data available			Special	R	See Note H
CV428	215 044 130	A1	6-3	15	250	250	72	6-0	100	100	5-0	B8B	P	
CV430	220 283 330		4-0						D			A08	D	
CV437	256 001 403		6-3	9-0	250	175	80	13-0	100	100	10-0	B9G	P	
CV443	653 420 000		0-625	0	40	40		0-2	No data available			B5A	P	See Note D
CV443	040 230 650		0-625	0	40	40		0-2	No data available			B8D	P	See Note F
CV450	120 450 310	A1	6-3	7-0	250	250	100	14-3	100	PenLF	10	A08	P	
CV452	412 389 600		6-3	3-0	250		1-0	1-2	150		1-2	B7G	DDT	
CV453	412 366 100		6-3	2-0	100		11	7-0	100		5-0	B7G	H	
CV454	412 365 100		6-3	1-0	250	100	11	4-4	100	100	4-4	B7G	P	
CV455	741 326 413		6-3	2-0	250		10	5-5	200		5-0	B9A	TT	
CV465	412 163 510		6-3	1-4	100	100	7-0	5-0	100	100	5-0	B8D	P	See Note F
CV466	412 653 160		6-3	2-0	100	100	7-5	5-0	100	100	5-0	B8D	P	See Note F
CV467	412 163 510		6-3	2-0	100	100	3-0	2-3	100	100	2-3	B8D	P	See Note F
CV468	462 603 160		6-3	2-0	100		13	5-5	100		5-5	B8D	T	See Note F
CV469	281 380 000		6-3				5-0		No data available			B5B	D	
CV471	412 163 510		6-3	9-0	100	100	31	2-2	100	90	2-2	B9D	P	See Note F
CV473	082 813 080		6-3				30		REC		15mA	B8D	R	See Note F

CV475	412 163 510		6-3	2-0	100	100	7-0	4-5	100	100	4-5	B8D	P	See Note F
CV476	402 653 160		6-3	1-5	100	100	7-0	2-4	No data available			B8D	P	See Note F
CV477	412 163 510		6-0	2-0	100	100	13	5-5	100	100	5-0	B8D	P	
CV491	741 226 413		6-3	8-5	250	250	10-5	2-2	100	100	2-2	B9A	TT	
CV492	741 226 413		6-3	2-0	250	250	1-2	1-6	150	150	1-6	B9A	TT	
CV493	802 309 100		6-3				30		REC		15mA	B7G	RR	
CV499	265 144 130		19	15	300	250	72	6-0	100	100	6-0	B8G	P	
CV500	026 980 310	G1	6-3	3-0	250	250	1-2	1-05	150	150	1-05	A08	DDT	
CV501	026 895 310	G1	6-3	2-0	250	100	5-0	1-8	100	100	1-8	A08	DDP	
CV502	642 300 000		2-0	4-5	150		3-0	1-3	125	125	1-3	B4	T	
CV503	020 809 030		5-0				60		REC		20mA	A08	RR	
CV504	264 513 000		6-3	22	250	250			No data available			LX6	TI	Ra = 1MG See Note G
CV509	026 540 310		6-3	12-5	250	250	45	4-1	100	100	4-0	A08	P	
CV510	026 540 310		6-3	12-5	250	250	45	4-1	100	100	4-0	A08	P	
CV511	026 540 310		6-3	12-5	250	250	45	4-1	100	100	4-0	A08	P	
CV512	026 510 310	G1	6-3	3-0	250	100	2-0	1-22	100	100	1-2	A08	P	
CV515	026 540 310		6-3	13-5	150	150	58	7-0	100	100	7-0	A08	P	
CV517	007 060 010				250		58		REC		3KΩW	A08	CCR	
CV518	041 231 500	A1	4-0	2-8	250	200	7-4	2-0	100	100	2-0	B7	P	
CV519	918 236 500	G1	4-0	6-0	250	250	36	9-5	100	100	8-0	B7	DDP	
CV520	065 231 500	G1	2-0	1-5	150	60	2-0	1-4	100	100	1-4	B7	H	
CV522	265 104 130		6-3	3-0	250	100	8-5	1-75	100	100	1-7	B8B	P	
CV523	892 310 000		12				30		REC		15mA	UX4	RR	
CV524	204 531 102	A1	19	13	250	250	72	6-0	100	100	6-0	B9G	P	
CV525	026 540 310		12-5	12-5	250	250	30	3-0	100	100	3-0	A08	P	
CV526	026 540 310		12-5	12-5	250	250	30	3-0	100	100	3-0	A08	P	
CV529	417 146 230		12-5	3-6	100		3-7	1-55	80	80	1-55	A08	TT	
CV531	026 985 310	G1	12-5	3-0	250	125	10	1-32	100	100	1-3	A08	DDP	
CV534	026 040 310		12-5	8-0	250		9-0	2-6	100	100	2-6	A08	T	
CV535	026 040 310		12-5	8-0	250		9-0	2-6	100	100	2-6	A08	T	
CV537	126 641 340		12-5	3-6	100		12	4-3	100	100	4-3	A08	H	
CV538	126 641 340		12-5	3-6	100		12	4-3	100	100	4-3	A08	H	

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester valve, Avo, No 3 data				Tester, valve, Avo, No 1 data			Base	Type	Remarks	
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts				mA/V
CV540	074 461 230		12.5	2.0	250		2.0	1.32	150		1.3	A08	TT	
CV541	*2 0*0 3*0	D1	1.25			5.0			D			A08	R	
CV543	021 415 360		12.5	3.0	250	9.2	2.0	2.0	100	100	2.0	A08	P	
CV544	021 415 360		12.5	3.0	250	9.2	2.0	2.0	100	100	2.0	A08	P	
CV545	061 231 500	G1	4.0	1.7	250	7.9	7.0	7.0	200	100	7.5	B7	P	
CV546	041 896 230		12.5	2.0	250	0.9	1.1	1.1	150		1.1	A08	DDT	
CV547	041 896 230		12.5	2.0	250	0.9	1.1	1.1	150		1.1	A08	DDT	
CV548	642 300 000		2.0	4.5	150	10	3.6	3.6	100		3.6	E4	T	
CV549	026 540 310		25	18	150	33	2.37	2.37	100	100	2.3	A08	P	
CV550	026 540 310		25	18	150	33	2.37	2.37	100	100	2.3	A08	P	
CV551	026 540 310		25	8.25	200	46	8.0	8.0	100	90	8.0	A08	P	
CV552	026 540 310		25	8.25	200	46	8.0	8.0	100	90	8.0	A08	P	
CV553	026 540 310		25	8.25	200	46	8.0	8.0	100	90	8.0	A08	P	
CV554	029 180 310		6.3			1.0			D		1.0	A08	DD	
CV555	291 183 000		25			60			REC		20mA	LX6	RR	
CV556	207 544 630		2.0	6.0	125	10	3.0	3.0	100	100	3.0	M08	PP	
CV557	812 300 000		4.0			1.0			D		1.0	B4	D	
CV558	029 180 310		25			60			REC		20mA	A08	RR	
CV559	029 180 310		25			60			REC		20mA	A08	RR	
CV560	061 231 500	G1	4.0	2.5	200	8.0	4.7	4.7	100	100	4.7	B7	P	
CV561	026 540 310		35	7.5	200	40	5.8	5.8	100	90	5.8	A08	P	
CV562	026 540 310		35	7.5	200	40	5.8	5.8	100	90	5.8	A08	P	
CV563	642 300 000		4.0	70	300	60	3.5	3.5	100		6.0	B5	T	
CV564	280 000 130		35			120			REC		20mA	B8B	R	
CV565	280 000 130		35			120			REC		20mA	B8B	R	
CV567	022 080 310		27.5			60			REC		20mA	A08	R	

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data			Base	Type	Remarks	
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts				mA/V
CV609	265 413 000		6-3	16-5	250	250	34	2-5	100	PenLF	2-5	UX6	P	
CV610	264 300 000		2-5	50	250		34	2-17	100		2-1	UX4	T	
CV611	264 130 090		2-5	13-5	250		5-0	1-45	100		1-45	UX5	T	
CV612	265 113 000	G1	2-5	3-0	250	100	2-0	1-22	100	100	1-2	UX6	P	
CV613	265 113 000	G1	2-5	3-0	250	100	8-0	1-5	100	100	1-5	UX6	P	
CV614	269 813 000	G1	6-3	2-0	250		0-9	1-1	150		1-1	UX6	DDT	
CV615	264 130 000		6-3	13-5	250		5-0	1-45	100		1-4	UX5	T	
CV616	265 113 000	G1	6-3	3-0	250	100	2-3	1-25	100	100	1-2	UX6	P	
CV617	298 300 000		5-0				60		REC		20mA	UX4	RR	
CV618	289 300 000		5-0				120		REC		30mA	UX4	RR	
CV619	289 130 000		6-3				30		REC		15mA	UX5	RR	
CV622	205 411 300	A1	6-0	18	400	250	30	2-2	100	PenLF	2-0	UX7	P	
CV625	642 300 000		6-0	6-0	150		10	1-4	100		1-4	B4	T	
CV635	642 300 000		6-0	6-0	150		10	1-4	100		1-4	B4	T	
CV636	2** 00* 300	D1	2-5				120		REC		30mA	B7G	R	
CV639	264 130 000		2-5	25	350		25	1-7	100		1-7	UX5	T	
CV646	300 200 000	D1	2-5				5-0		D			UX4	R	
CV647	026 040 310		6-3		300		55	4kΩ	No data available			A08	Thyra- tron	
CV648	264 130 000		2-5		300		55	4kΩ	No data available			UX5	Thyra- tron	
CV652	265 113 000	G1	6-3	3-0	250	100	2-0	1-22	100	100	1-2	UX6	P	
CV653	026 540 310		6-3	16-5	250	250	34	2-5	100	PenLF	2-5	A08	P	
CV654	026 540 310	G1	6-3	3-0	250	100	5-3	1-1	100	100	1-1	A08	H	
CV655	026 540 310		6-3	16-5	250	250	34	2-5	100	PenLF	2-5	A08	P	
CV656	200 300 000	D1	2-5				120		REC		30mA	UX4	R	
CV657	026 510 310	G1	6-3	3-0	250	100	2-0	1-22	100	100	1-2	A08	P	
CV658	026 540 310		6-3	18	350	250	54	5-2	100	100	5-2	A08	P	

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CV	254 130 000	021 415 360	021 415 360	021 415 360	612 364 100	412 365 100	021 415 360	289 300 000	121 010 310	121 010 310	240 300 000	007 060 010	021 415 360	021 415 360	021 415 360	041 986 230	027 546 310	036 500 200	026 510 310	300 200 000	365 200 000	265 130 000	020 600 310	200 300 000	030 809 020	026 540 310	200 300 000	280 000 130	036 500 200	030 809 020	264 300 000	026 540 310						
CV659	A1	6-3	12-5	400	250	83	6-5	100	PenLF	6-0	UX5	P	CV660	6-3	2-0	300	150	10	9-0	100	8-0	A08	P	CV661	6-3	3-0	300	200	12-5	5-0	100	150	10	9-0	100	8-0	A08	P
CV662	A1, G1	6-3	3-0	250	125	14	3-95	100	100	3-9	A08	P	CV663	6-3	7-0	250	100	6-7	1-8	100	2-2	B7G	T	CV664	6-3	3-0	250	100	6-3	1-8	100	100	1-8	100	1-8	B7G	P	
CV691	A1	3-0	3-0	90	125	7-5	3-95	100	100	3-9	A08	P	CV692	3-0	2-0	125	7-5	7-5	3-95	100	3-9	A08	P	CV693	3-0	2-0	125	7-5	7-5	3-95	100	3-9	3-9	100	3-9	A08	P	
CV694	A1, G1	6-3	3-0	250	125	14	3-95	100	100	3-9	A08	P	CV695	6-3	3-0	250	100	6-7	1-8	100	2-2	B7G	T	CV696	6-3	3-0	250	100	6-7	1-8	100	100	1-8	100	1-8	B7G	P	
CV697	A1, G1	6-3	3-0	250	125	14	3-95	100	100	3-9	A08	P	CV698	6-3	3-0	250	100	6-7	1-8	100	2-2	B7G	T	CV699	6-3	3-0	250	100	6-7	1-8	100	100	1-8	100	1-8	B7G	P	
CV700	A1	3-0	3-0	90	125	14	3-95	100	100	3-9	A08	P	CV701	3-0	3-0	90	125	14	3-95	100	3-9	3-9	A08	P	CV702	3-0	3-0	90	125	14	3-95	100	3-9	3-9	100	3-9	A08	P
CV703	G1	12-5	1-0	100	100	8-0	2-5	100	100	3-0	A08	TH	CV704	12-5	1-0	100	100	8-0	2-5	100	3-0	A08	TH	CV705	12-5	1-0	100	100	8-0	2-5	100	100	3-0	A08	TH			
CV705	G1	2-0	3-0	90	75	2-2	0-72	80	60	0-7	A08	P	CV706	2-0	3-0	90	75	2-2	0-72	80	60	0-7	A08	P	CV707	2-0	3-0	90	75	2-2	0-72	80	60	0-7	A08	P		
CV709	G1	6-3	3-0	250	100	8-0	1-5	100	100	1-5	A08	P	CV710	6-3	3-0	250	100	8-0	1-5	100	1-5	A08	P	CV711	6-3	3-0	250	100	8-0	1-5	100	100	1-5	A08	P			
CV711	D1	2-5	3-0	150	75	1-7	0-64	100	75	0-6	UX4	R	CV712	2-5	3-0	150	75	1-7	0-64	100	0-6	UX4	R	CV713	2-5	3-0	150	75	1-7	0-64	100	75	0-6	UX4	R			
CV712	D1	2-5	3-0	150	75	1-7	0-64	100	75	0-6	UX4	R	CV714	2-5	3-0	150	75	1-7	0-64	100	0-6	UX4	R	CV715	2-5	3-0	150	75	1-7	0-64	100	75	0-6	UX4	R			
CV715	G1	6-3	2-0	250	175	14	1-05	100	100	1-05	UX5	P	CV716	6-3	2-0	250	175	14	1-05	100	1-05	UX5	P	CV717	6-3	2-0	250	175	14	1-05	100	100	1-05	UX5	P			
CV716	D1	5-0	2-0	250	175	14	1-05	100	100	1-05	UX5	P	CV718	5-0	2-0	250	175	14	1-05	100	1-05	UX5	P	CV719	5-0	2-0	250	175	14	1-05	100	100	1-05	UX5	P			
CV717	D1	5-0	2-0	250	175	14	1-05	100	100	1-05	UX5	P	CV720	5-0	2-0	250	175	14	1-05	100	1-05	UX5	P	CV721	5-0	2-0	250	175	14	1-05	100	100	1-05	UX5	P			
CV723	D1	2-5	10	300	250	45	4-5	100	PenLF	4-5	A08	RR	CV724	2-5	10	300	250	45	4-5	100	4-5	A08	RR	CV725	2-5	10	300	250	45	4-5	100	PenLF	4-5	A08	RR			
CV724	D1	2-5	10	300	250	45	4-5	100	PenLF	4-5	A08	RR	CV726	2-5	10	300	250	45	4-5	100	4-5	A08	RR	CV727	2-5	10	300	250	45	4-5	100	PenLF	4-5	A08	RR			
CV726	D1	2-5	10	300	250	45	4-5	100	PenLF	4-5	A08	RR	CV728	2-5	10	300	250	45	4-5	100	4-5	A08	RR	CV729	2-5	10	300	250	45	4-5	100	PenLF	4-5	A08	RR			
CV728	G1	1-4	0	90	90	2-3	0-75	80	90	0-75	A08	P	CV729	1-4	0	90	90	2-3	0-75	80	90	0-75	A08	P	CV730	1-4	0	90	90	2-3	0-75	80	90	0-75	A08	P		
CV729	G1	5-0	0	90	90	2-3	0-75	80	90	0-75	A08	P	CV731	5-0	0	90	90	2-3	0-75	80	90	0-75	A08	P	CV732	5-0	0	90	90	2-3	0-75	80	90	0-75	A08	P		
CV730	G1	6-3	36	250	250	60	5-25	100	100	5-0	UX4	T	CV731	6-3	36	250	250	60	5-25	100	5-0	UX4	T	CV732	6-3	36	250	250	60	5-25	100	100	5-0	UX4	T			
CV731	G1	6-3	16-5	250	250	34	2-5	100	PenLF	2-5	A08	P	CV732	6-3	16-5	250	250	34	2-5	100	2-5	A08	P	CV733	6-3	16-5	250	250	34	2-5	100	PenLF	2-5	A08	P			

Ra each Sec 3kΩ

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data					Tester, valve, Avo, No 1 data			Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV732	091 080 230		6-0	2-0	300	150	120	9-0	REC	100	30mA	A08	R	
CV747	021 415 360		6-3	2-0	300	150	10	9-0	A08	100	8-0	A08	P	
CV750	364 200 000		5-0	4-5	90		2-5	0-72	UX4	80	0-72	UX4	T	
CV753	281 0*8 300		1-4	1-4			1-0		D			B7G	D	
CV754	265 200 000	G1	2-0	3-0	90	75	2-2	0-72	80	75	0-7	UX4	P	
CV755	036 540 200		1-4	4-5	90	90	4-0	0-85	80	75	0-8	A08	P	
CV756	036 540 200		1-4	4-5	90	90	4-0	0-85	80	75	0-8	A08	P	
CV757	266 453 000	G1	2-0	0	150	75	3-0	0-42	80	60	0-4	UX6	P	
CV758	365 200 000	G1	2-0	3-0	90	75	1-6	0-6	80	60	0-6	UX4	P	
CV759	268 943 000		2-0	3-0	150		0-8	0-57	100		0-5	UX6	DDT	
CV760	026 546 300	G1	1-4	0	90	50	1-5	0-87	80	60	0-8	A08	H	
CV764	802 310 000		40				120		REC		30mA	B5	R	
CV765	036 546 200	G1	2-0	0	150	75	3-0	0-42	150	75	1-05	A08	P	
CV766	036 500 200	G1	2-0	3-0	90	75	1-7	0-65	100	60	0-6	A08	P	
CV767	364 520 000		2-0	3-0	90	90	4-0	1-4	80	75	1-4	UX5	P	
CV768	036 540 200		2-0	3-0	90	90	4-0	1-4	80	75	1-4	A08	P	
CV769	365 892 000	G1	2-0	1-5	175	75	2-2	0-65	150	75	0-6	UX6	DDP	
CV770	036 895 200	G1	2-0	1-5	175	75	2-2	0-65	150	75	0-6	A08	DDP	
CV771	036 540 200		2-0	6-0	90	90	8-5	1-5	80	75	1-5	A08	P	
CV772	026 447 300		1-4	0	90		1-0	0-67	80		0-67	A08	TT	
CV773	026 447 300		1-4	0	90		1-0	0-67	80		0-67	A08	TT	
CV774	026 040 300		2-0	9-0	150		3-0	0-9	100		0-9	A08	T	
CV775	366 454 020		1-4	0	90	50		0-55	80	60	0-5	B8B	H	
CV776	365 004 020		1-4	9-0	90	90	5-0	0-92	80	75	0-9	B8B	P	
CV777	365 124 020		1-4	0	90	50	1-15	0-77	80	60	0-77	B8B	P	
CV778	266 454 030		1-4	0	90	50	3-0	0-55	80	60	0-5	B8B	H	

CV7779	365 804 020	1.4	0	90	50	0.6	0.57	80	60	0.5	B8B	DP
CV7780	360 804 020	1.4	0	90		0.15	0.27	80		0.27	B8B	DT
CV781	365 124 020	1.4	0	90	90	1.6	0.8	80	90	0.8	B8B	P
CV782	266 424 300	1.4	4.0	75		4.5	1.2	80		1.4	B7G	H
CV783	264 526 300	1.4	7.0	90	75	7.4	1.57	80	60	1.5	B7G	P
CV784	208 564 300	1.4	0	75	75	1.6	0.62	80	75	0.625	B7G	DP
CV785	265 024 300	1.4	0	90	75	3.5	0.9	80	75	0.9	B7G	P
CV786	036 540 200	1.4	6.0	90	90	6.5	1.15	80	75	1.15	A08	P
CV787	265 541 300	2.5	8.0	250	100	3.5	1.15	150	100	1.1	Sm7	H
CV791	265 891 300	6.3	3.0	250	125	9.0	1.12	100	100	1.1	Sm7	DDP
CV792	020 000 310	6.3	10.5	300		11	3.0	100		3.0	A08	T
CV794	892 310 000	2.0				1.0		D			B5	DD
CV795	892 310 000	4.0				1.0		D			B5	DD
CV796	892 310 000	13				1.0		D			B5	DD
CV797	412 316 100	6.3		400		50		No data available			B7G	Thyra- tron
CV798	254 130 000	6.3		400	250	100		100	PenLF		UX5	P
CV802	020 000 310	6.3	15	350		16		100			A08	T
CV803	020 000 300	2.5						D			A08	R
CV804	020 000 300	2.5						D			A08	R
CV805	029 180 310	50				60		REC		20mA	A08	RR
CV807	265 426 300	1.4	8.4	150	90	13.3	1.9	100	75	1.9	B7G	P
CV808	264 347 200	1.4	2.5	90		3.7	1.8	80		1.8	B7G	TT
CV809	623 100 000	13	0	250		15	2.1	100		2.1	B4	T
CV811	364 204 730	1.4	0	75	75	6.7	1.5	80	60	1.5	A08	P
CV812	320 200 000	2.5				30		REC		15mA	UX4	R
CV815	365 004 230	1.4	4.5	150	90	10.2	2.4	100	75	2.4	B8B	P
CV818	364 526 300	1.4	5.0	90	90	6.9	1.97	80	75	1.9	B7G	P
CV819	036 540 320	1.4	4.6	90	90	8.0	2.0	80	75	2.0	A08	P
CV820	364 526 300	1.4	7.0	90	75	7.4	1.57	80	60	1.5	B7G	P
CV824	645 231 700	4.0	5.0 2.0	100 250	100	1.5 3.5	1.5 2.5	80 100	100	1.5 2.2	B7	TH

See Note J

See Note B

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data			Base	Type	Remarks	
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts				mA/V
CV826	645 231 700	G1	4-0	5-0 2-0	100 250	100	1-5 3-5	1-5 2-5	80 100	100	1-5 2-2	B7	TH	
CV828	061 231 500	G1	4-0	3-0	250	150	12	8-0	100	100	7-0	B7	P	
CV829	061 231 500	G1	4-0	3-0	250	150	12	8-0	100	100	7-0	B7	P	
CV830	041 231 500	A1	4-0	3-0	250	150	12	8-0	100	100	7-0	B7	P	
CV833	265 113 000	G1	6-3	10	100	100	9-5	1-2	100	90	1-2	UX6	P	
CV837	026 985 310	G1	12-5	3-0	250	125	10	1-32	100	100	1-3	A08	DDP	
CV841	020 809 030		5-0				120		REC		30mA	A08	RR	
CV842	020 809 030		5-0				60		REC		20mA	A08	RR	
CV843	264 513 000		6-3	15-5	150	150	0-13		No data available			UX6	TI	Ra = 1MΩ See Note G
CV844	026 040 310		6-3	0	250		5-0	3-4	100		3-4	A08	T	
CV845	026 040 310		6-3	0	250		5-0	3-4	100		3-4	A08	T	
CV846	021 415 360		6-3	2-0	300	150	10	9-0	100	100	8-0	A08	P	
CV847	026 040 310		6-3	18-0	175		7-0	1-5	100		1-5	A08	T	
CV848	412 365 100		6-3	1-5	250	150	6-5	5-0	100	100	5-0	B7G	P	
CV849	021 415 360		6-3	2-0	300	300	10	9-0	150	150	7-5	A08	P	
CV850	412 365 100		6-3	2-3	150	150	7-0	4-3	100	100	4-0	B7G	P	
CV851	026 040 300		6-3	36	250		60	5-25	100		5-0	A08	T	
CV852	602 364 100		6-3	8-5	250		10-5	2-2	100		3-0	B7G	T	
CV854	260 981 300	G1	6-3	9-0	250		4-5	1-25	100		1-2	Sm7	T	
CV856	026 985 310	G1	6-3	3-0	250	125	9-0	1-12	100	100	1-1	A08	DDP	
CV858	762 344 100		6-3	3-0	150		5-0	4-5	100		5-3	B7G	TT	
CV859	027 546 310	G1	6-3	3-0 3-0	150 250	100	1-3	1-6	100	100	1-6	A08	TH	
CV860	026 000 310	G1	6-3	0	250		1-1	1-4	200		1-4	A08	T	
CV861	026 000 310	G1	6-3	0	250		1-1	1-4	200		1-4	A08	T	

Table 6-(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data				Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV897	276 454 130		6-3	3-0 3-0	150 250	100	6-6 1-4	1-4	150 100	100	1-4 2-6	B8B B8B	TH TT	
CV898	217 446 130		6-3	8-0	250		9-0	2-6	100		2-6	B8B	TT	
CV899	266 414 130		6-3	2-0	100		15	6-0	100		4-5	B8B	H	
CV900	269 854 130		6-3	1-0	250	100	6-2	3-4	100	100	3-4	B8B	DDP	
CV901	208 009 130		6-3				30		REC		15mA	B8B	RR	
CV902	265 114 130		6-3	2-0	300	150	10	5-8	100	150	5-8	B8B	P	
CV906	264 300 000		7-5	23-5	250		10	1-33	100		1-33	UX4	T	
CV907	264 300 000		5-0	4-5	90		5-0	1-5	80		1-5	UX4	T	
CV908	265 413 200		6-3	15	100	100	17	1-7	100	90	1-7	UX7	P	
CV909	265 181 300	G1	12-6	12-5	150	150	9	0-97	100	100	15mA 0-9	Sm7	RP	
CV910	026 545 310	G1	12-6	8-0	250	100	3-5	1-15	100	100	1-1	A08	H	
CV911	127 561 340	G1	12-6	0 3-0	90	90	2-8 7-0	2-4 1-8	80	80	2-4 1-8	A08	TP	
CV916	029 180 310		12-6				1-0		D		1-0	A08	DD	
CV917	026 510 310	G1	12-6	3-0	250	100	2-0	1-22	100	100	1-2	A08	P	
CV918	026 510 310	G1	12-6	3-0	250	125	10-5	1-65	100	100	1-6	A08	P	
CV919	014 060 320		12-6	2-0	250		0-9	1-5	150		1-5	A08	T	
CV920	014 060 320		12-6	2-0	250		0-9	1-5	150		1-5	A08	T	
CV921	041 586 230		12-6	1-0	250	100	12-4	2-05	100	100	2-0	A08	DP	
CV922	021 415 360		12-6	1-0	250	150	10-8	4-9	100	150	4-9	A08	P	
CV923	021 415 360		12-6	3-0	250	100	3-0	1-65	100	100	1-6	A08	P	
CV924	461 471 230		12-6	2-0	250		2-3	1-6	150		1-6	A08	TT	
CV925	461 471 230		12-6	8-0	250		9-0	2-6	100		2-6	A08	TT	
CV927	281 300 000		12-6				80		REC		20mA	UX4	R	

CV929	061 231 300	G1	13	3-0	200	100	2-3	1-25	100	100	1-25	B7	P
CV930	217 446 130		12-6	2-0	250		2-3	1-6	150		1-6	B8B	TT
CV931	265 130 000	G1	2-0	1-5	150	75	1-85	0-75	100	75	0-75	UX5	P
CV932	021 010 310	G1, A1, C	6-3	0	250		16-5	4-8	100		4-8	A08	T
CV936	265 130 000	G1	2-5	3-0	175	90	4-0	1-0	100	90	1-0	UX5	P
CV937	126 548 310		25						REC			A08	RP
CV938	026 040 310		25	0	180		4-0	3-8	100		3-8	A08	T
CV939	026 540 310		25	22	150	150	61	5-0	100	100	5-0	A08	P
CV940	127 561 340	G1	25	1-0 3-0	100 100	100	0-6 7-6	1-5 2-0	100 100	100	1-5 2-0	A08	TP
CV942	281 193 000		25				60		REC		20mA	UX6	RR
CV943	264 300 000		1-5	10	150		5-5	1-1	100		1-1	UX4	T
CV944	264 130 000		2-5	21	250		5-2	0-95	100		0-95	UX5	T
CV945	245 671 430		28	3-5	30	30	12-5	3-4				B8B	PP
CV946	245 671 430		28	3-5	30	30	12-5	3-4				B8B	PP
CV947	364 200 000		2-0	22-5	150		8-0	0-92	100		0-9	UX4	T
CV948	126 548 310		32-5	5-0	90	90	60	6-0	REC		20mA	A08	RP
CV949	364 520 000		2-0	14	150	150	14-5	1-45	100	100	1-4	UX5	P
CV953	365 200 000	G1	2-0	3-0	150	75	1-7	0-64	100	75	0-6	UX4	P
CV957	365 200 000	G1	2-0	3-0	150	75	1-7	0-64	100	75	0-6	UX4	P
CV995	412 365 100		6-3	1-0	30	30	2-7	2-5				B7G	P
CV993	026 500 310	G1	6-3	18	250	250	32	3-8	100		3-8	A08	P
CV1000	000 231 600	G1	13	3-0	250		10	4-0	150		4-0	B7	T
CV1001	002 300 000	D1	2-0				5-0		D			B4	R
CV1002	021 450 310	A1	6-3	11	250	150	30	3-5	100	100	3-5	A08	P
CV1018	542 300 000	A1	2-0	1-0	150	60	2-5	1-1	150	60	1-1	B4	P
CV1019	642 300 000		2-0	7-5	150		10	2-25	100		2-2	B4	T
CV1020	642 300 000		2-0	7-5	150		11	2-25	100		2-2	B4	T
CV1021	642 300 000		2-0	4-5	150		4-8	1-4	100		1-4	B4	T
CV1022	642 300 000		2-0	4-5	150		10	4-0	100		4-0	B4	T

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data					Tester, valve, Avo, No 1 data			Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV1023	642 300 000		2.0	18	150		22	3.0	100		2.0	B4	T	
CV1025	264 300 000		7.5	32	350		16	1.55	100		1.55	UX4	T	
CV1026	365 200 000	G1	3.0	1.5	150	50	1.7	0.37	No data available			UX4	P	
CV1027	642 300 000		2.0	4.5	150		11.8	1.4	100		1.4	B4	T	
CV1028	542 300 000	A1	2.0	1.0	150	60	5.0	1.6	100	60	1.6	B4	P	
CV1030	364 200 000		5.0	4.5	90		2.5	0.72	80		0.72	UX4	T	
CV1031	364 200 000		2.0	22.5	150		8.0	0.92	100		0.9	UX4	T	
CV1032	446 230 700		2.0	0	100		1.25		100			B7	TT	Check for balance
CV1033	002 300 000	D1	4.0				60		REC		20mA	B4	R	
CV1035	446 235 700		2.0	9.8	150	150	3.5	2.3	100	100	2.3	B7	PP	
CV1036	642 300 000		2.0	4.5	150		10	4.0	100		4.0	B4	T	
CV1037	642 310 000		4.0	4.0	250		5.0	3.6	100		3.6	B5	T	
CV1038	642 310 000		4.0	8.0	250		8.0	2.5	100		2.5	B5	T	
CV1039	892 310 000		4.0				60		REC		20mA	B4	RR	
CV1040	642 300 000		4.0	31	400		50	7.5	100		7.0	B4	T	
CV1041	542 300 000	A1	2.0	1.0	150	90	2.5	1.4	150	90	1.4	B4	P	
CV1042	642 300 000		2.0	4.5	150		4.8	1.4	100		1.4	B4	T	
CV1043	642 230 700	G1	2.0	0	150	40	1.1		No data available			B7	H	
CV1044	682 390 000	G1	2.0	1.0	100		2.3	1.1	100		1.1	B5	DDT	
CV1045	642 300 000		2.0	0	300		12	2.7	100		2.7	B4	T	
CV1046	642 350 000		4.0	22	400	300	62.5	6.5	100	PenLF	5.0	B5	P	
CV1047	642 300 000		6.0	20	400		50	5.0	No data available			B4	T	
CV1048	542 300 000	A1	2.0	1.0	150	60	2.5	1.1	150	60	1.1	B4	P	
CV1049	041 230 500	A1	2.0	1.0	150	60	2.9	1.3	150	60	1.3	B7	P	
CV1050	642 300 000		2.0	1.5	150		2.2	1.5	150		1.5	B4	T	

CV1051	642 350 000		2.0	16	150	150	23	3.0	100	100	3.0	B5	P
CV1052	026 500 310	G1	6.3	18	250	250	32	2.8	100	PenLF	2.8	A08	P
CV1053	026 510 310	G1	6.3	2.5	250	100	6.0	2.2	100	100	2.2	A08	P
CV1054	029 180 310		6.3				5.0		D			A08	DD
CV1055	026 890 310	G1	6.3	5.5	250		5.0	2.0	100		2.0	A08	DDT
CV1056	026 510 310	G1	6.3	2.0	250	100	3.0	1.8	100	100	1.8	A08	P
CV1057	026 545 310	G1	6.3	2.0	250	75	2.8	1.8	100	60	2.1	A08	O
CV1058	265 113 000	G1	2.5	3.0	250	100	8.0	1.5	100	100	1.5	UX6	P
CV1060	254 130 000	A1	6.3	12.5	400	250	83	6.5	100	PenLF	6.0	UX5	P
CV1061	204 140 300	A1, A2	6.0	7.0	250		22.5	2.8	100		2.1	UX7	TT
CV1064	892 300 000		4.0				60		REC		20mA	B4	RR
CV1065	216 510 030	G1	6.3	1.5	200	200	10.9	8.5	100	150	8.0	M08	P
CV1066	216 040 030		6.3	11.8	250		16	4.5	100		4.5	M08	T
CV1067	026 040 310		6.3	8.0	250		9.0	2.6	100		2.6	A08	T
CV1071	030 908 020		5.0				120		REC		30mA	A08	RR
CV1073	020 600 310	G1	6.3	2.0	250		1.0	1.5	200	200	1.5	A08	T
CV1074	026 500 310	G1	6.3	2.0	250	100	1.0	1.23	100	100	1.2	A08	P
CV1075	026 540 310		6.3	15	250	250	85	6.3	100	PenLF	6.0	A08	P
CV1076	264 130 000		6.3	13.5	250		5.0	1.45	100		1.4	UX5	T
CV1077	026 540 310		6.3	5.0	250	250	See Note H		No data available			A08	TI
CV1078	123 000 000	D1	4.0				5.0		D			B3G	R
CV1079	542 310 000	A1	6.3	16	250	250	72	6.0	100	100	6.0	B5	P
CV1080	415 230 000	A1	(5.7)	2.0	250	250	50	4.2	No data available			B7	P
CV1082	645 230 700	G1	2.0	3.0	100		1.7	1.2	100		1.2	B7	TH
CV1083	041 230 500	A1	2.0	1.0	150		0.6	0.6	125	60	0.6	B7	P
CV1088	024 234 500	A1, A2	12.6	6.5	400	200	2.9	1.1	150	60	1.1	B7	P
CV1090	029 180 310		6.3				72		No data available			B7	TT
CV1091	256 101 403		6.3	1.55	250	250	10	6.5	D	PenLF	6.0	A08	DD
CV1092	123 000 000	D1	6.3						100			B9G	P
CV1094	026 040 310		6.3	8.0	250		9.0	2.6	100		2.6	B3G	D
CV1097	027 446 310		6.3	5.0	250		3.0	1.6	100		1.6	A08	T
												A08	TT

Ra = 2MΩ
See Note G

See Note K

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data					Tester, valve, Avo, No 1 data			Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV1099	027 546 310	G1	6-3	1-0 3-0	100 250	100	8-0 4-0	2-5 1-2	100 100	100 100	1-3 1-0	A08	TH	
CV1100	026 500 310	G1	6-3	3-0	250	100	8-0	2-85	100	100	2-8	A08	T	
CV1101	026 890 310	G1	6-3	5-0	200		11-5	3-0	100	100	3-0	A08	DDT	
CV1102	264 147 300		6-3	5-0	250		6-0	3-1	200		3-1	UX7	TT	
CV1103	026 540 310		6-3	22	250	250	0-24		No data available			A08	TI	
CV1104	041 896 230		12-5	2-0	250		0-9	1-1	150		1-1	A08	DDT	
CV1105	642 310 000		6-3	8-0	200		2-4	3-8	100		3-8	B5	T	
CV1106	081 231 500	G1	13	3-0	250	125	10-5	1-65	100	100	1-8	B7	P	
CV1107	645 231 700	G1	13	3-0 20	200 250	100	4-0 2-5		100 100	100	1-25	B7	H	
CV1108	081 231 530	G1	13	3-0	250	100	2-0	1-25	100	100	4-0	B7	P	
CV1109	000 231 600	G1	13	3-0	250		10	4-0	150		4-0	B7	T	
CV1111	002 300 000	D1	4-0				60		REC		20mA	B4	R	
CV1113	002 300 000	D1	4-0				30		REC		15mA	B4	R	
CV1116	216 510 030	G1	6-3	4-0	200	200	6-7	3-35	100	150	3-3	M08	P	
CV1117	642 310 000		4-0	2-5	200		5-9	3-0	100		3-0	B5	T	
CV1118	642 350 000		2-0	4-5	125	125	5-3	2-6	100	100	2-6	B5	P	
CV1119	892 310 000		4-0				5-0		D			B5	RR	
CV1120	002 300 000	D1	2-0				5-0		D			B4	R	
CV1121	216 040 030		4-0		100		30	2KΩ	No data available			M08	Thyra- tron	
CV1122	642 310 000		4-0	12-5	200		40	7-5	100		7-0	B5	T	
CV1123	023 111 560	G1	6-3	2-5	250	250	8-0	1-8	100	PenLF	1-8	8Sc	P	
CV1124	041 231 500	A1	4-0	1-5	200	100	4-8	2-8	100	100	2-8	B7	P	
CV1125	061 231 500	G1	4-0	1-5	200	100	4-8	2-8	100	100	2-8	B7	P	
CV1126	061 231 500	G1	4-0	2-0	250	100	7-0	3-2	100	100	7-0	B7	H	

Ra = IMΩ
See Note G

See Note B.

Check for balance
Min mA/V fig
Min mA/V fig
Min mA/V fig

CV1127	210 540 030	A1	4.0	8.5	300	225	63	8.5	100	PenLF	8.0	M08	P
CV1129	041 231 500	A1	4.0	1.5	200	100	4.8	2.8	100	100	2.8	B7	P
CV1130	206 040 030		2.0	2.4	150		1.5	1.2	125		1.2	M08	T
CV1133	002 300 000	D1	4.0				60		REC		20mA	B4	R
CV1134	003 200 000	D1	4.0				3		D			B4	R
CV1135	020 000 310	A1, G1	6.3	5.5	250		14	3.0	100		3.0	A08	T
CV1136	265 114 113		6.3	1.5	250	250	10	7.7	100	PenLF	7.7	B9G	P
CV1137	241 600 003		6.3	2.5	250		10	6.5	100		5.0	B9G	T
CV1151	642 300 000		4.0	0	100		2.0	1.05	100		1.0	B4	T
CV1152	642 300 000		4.0	0	100		1.5	2.0	100		2.0	B4	T
CV1153	642 300 000		4.0	21	200		15		100			B4	T
CV1154	642 300 000		4.0		200				100			B4	T
CV1155	642 300 000		3.8		100			0.2				B4	T
CV1156	642 300 000		3.8		100			0.2				B4	T
CV1158	542 300 000	A1	4.0	0	150	75	2.75	0.87	100	75	0.8	B4	P
CV1159	542 300 000	A1	4.0	0	150	75	2.75	0.87	100	75	0.8	B4	P
CV1160	642 300 000		4.0	1.0	100		15	3.5	100		3.5	B5	T
CV1161	642 300 000		4.0	1.0	100		15	3.5	100		3.5	B5	T
CV1163	446 230 706		2.0	6.0	150		32	1.5	100		1.5	B7	TT
CV1164	542 310 000	A1	4.0	1.5	250	75	2.4	1.1	250	75	1.1	B5	P
CV1165	542 310 000	A1	4.0	1.0	200	80	14	2.4	200	75	2.4	B5	P
CV1166	642 300 000		2.0	4.5	150		10	3.6	100		3.6	B4	T
CV1167	642 350 000		4.0	22.5	300	200	20	2.0	100	100	2.0	B5	P
CV1168	642 300 000		4.0	43	300		43	6.0	100		6.0	B4	T
CV1169	041 231 500	A1	4.0	2.0	250	100	8.0	2.7	100	100	2.7	B7	P
CV1170	892 310 000		4.0						D			B5	DD
CV1171	621 340 000		4.0	6.0	200		4.5	2.0	100		2.0	B5B	T
CV1172	542 310 000	A1	4.0	2.0	200	100	4.25	2.5	100	100	2.5	B5	P
CV1173	642 310 000		4.0	4.5	250		6.5	3.5	100		3.0	B5	T
CV1174	045 231 600		4.0	22	250	250	36	2.8	100	PenLF	2.8	B7	P
CV1175	521 316 400		4.0	3.0	250	100	2.0	1.4	100	100	1.4	B7A	P
CV1176	521 316 400		4.0	3.0	250	100	2.0	1.4	100	100	1.4	B7A	P

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data					Tester, valve, Avo, No 1 data			Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV1177	000 231 600	G1	13.0	3.0	250		10	4.0	150		4.0	B7	T	
CV1178	642 300 000		4.0	70.0	300		60	3.5	100		6.0	B5	T	
CV1179	642 310 000		4.0	16	250		20	3.2	100		3.2	B5	T	
CV1180	602 310 000	G1	4.0	4.8	250		6.0	2.3	100		2.3	B5	T	
CV1181	045 231 600		4.0	4.4	250	250	40	10.5	100	PenLF	9.0	B7	P	
CV1182	000 231 600	G1	4.0	2.0	250		1.0	1.7	200		1.7	B7	T	
CV1183	061 231 500	G1	4.0	3.0	250	125	7.6	1.5	100	100	1.5	B7	P	
CV1186	026 540 310		6.3	16.5	250	250	34	2.5	100	PenLF	2.5	A08	P	
CV1187	892 310 000		4.0				1.0		D			B5	DD	
CV1188	005 231 600	G1	4.0	4.4	250	250	40	10	100	PenLF	9.0	B7	P	
CV1189	045 231 000	A1	4.0	6.9	300	225	63	9.5	100	100	8.5	B7	P	
CV1190	042 310 000	A1	4.0	1.0	100			7.0	100		7.0	B5	T	
CV1190	642 310 000		4.0	20	250		20	4.0	100		4.0	B5	T	
CV1191	061 231 500	G1	4.0	1.5	250	250	18	12	200	200	10	B7	P	
CV1192	026 510 310	G1	6.3	2.0	300	150	10	7.5	100	125	7.5	A08	P	
CV1193	027 546 310	G1	6.3	1.0	100		8.0	2.5	100		1.0	A08	TH	
CV1194	645 231 700	G1	4.0	3.0	250	100	4.0	1.2	100	100	0.5			
CV1195	026 510 310	G1	6.3	6.0	150		5.0	1.4	150		1.8	B7	TH	
CV1196	896 231 500	G1	4.0	3.0	250	75	2.3	1.4	100	75	2.0			
CV1197	123 000 000	A1, G1	6.3	3.0	250	100	7.6	1.5	100	90	1.5	A08	P	
CV1198	042 310 000	A1	4.0	3.3	200		40	9.4	100	PenLF	9.4	B7	DDP	
CV1198	642 310 000		4.0	1.0	100		7.5	2.9	100		2.9	B3G	T	Red mark indicates Anode T.C.
CV1208	642 300 000		6.3	0	150		20	4.0	100		4.0	B5	T	
CV1220	642 310 000		6.3	20	400		55	3.2	No data available		8.0	B4	T	Min mA/V fig

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data				Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV1305	000 231 600	G1	13	3.0	250		10	4.0	150		4.0	B7	T	
CV1306	206 080 930	G1	2.0	2.8	150		1.5	1.05	125		1.2	M08	DDT	
CV1307	642 300 000		2.0	4.5	150		4.8	1.4	100		1.4	B4	T	
CV1308	682 390 000	G1	2.0	6.0	150		2.2	1.8	100		1.8	B5	DDT	
CV1309	642 300 000		4.0	4.0	100		7.5	1.27	100		1.2	B4	T	
CV1310	023 004 060		2.0	1.5	150		1.2	0.6	125		0.6	8SC	T	
CV1311	642 300 000		4.0	15	150		8.0	1.4	100		1.4	B4	T	
CV1312	642 310 000		2.0	1.0	100		0.5	1.3	100		1.3	B5	T	
CV1313	642 310 000		2.0	0	100		7.5	1.7	100		1.7	B5	T	
CV1316	642 300 000		4.0	8.0	125		23	3.0	100		3.0	B4	T	
CV1318	542 300 000	A1	2.0	1.0	150	75	4.4	1.5	100	75	1.5	B4	P	
CV1319	542 300 000	A1	2.0	2.5	125	60	2.0	1.4	100	60	1.4	B4	P	
CV1320	041 230 500	A1	2.0	1.0	150	150	3.0	1.8	150	150	1.8	B7	P	
CV1321	061 231 500	G1	13	3.0	250	125	10.5	1.65	100	100	1.8	B7	P	
CV1322	041 230 500	A1	2.0	1.0	125	125	1.1	1.2	125	100	1.2	B7	P	
CV1323	041 230 500	A1	2.0	1.0	150	150	3.0	1.5	150	150	1.5	B7	P	
CV1324	041 231 500	A1	4.0	2.0	200	100	3.0	2.3	100	100	2.0	B7	P	
CV1325	041 231 500	A1	4.0	3.0	200	200	34	8.5	100	100	8.0	B7	P	
CV1326	045 231 600		4.0	8.5	225	225	52	11	100	100	10	B7	P	
CV1327	045 231 600		13	8.6	250	250	41	6.4	100	100	6.0	B7	P	
CV1328	045 231 600		13	6.0	250	250	32	10	100	100	9.0	B7	P	
CV1329	045 231 600		4.0	5.8	250	250	36	9.5	100	100	9.0	B7	P	
CV1330	161 231 500	G1	4.0	2.5	200	200	8.0	4.75	100	100	4.75	B7	P	
CV1331	206 510 030	G1	2.0	1.5	125	60	1.4	1.0	100	60	1.0	M08	P	
CV1332	041 230 500	A1	2.0	1.0	150	60	2.8	1.1	150	60	1.1	B7	P	
CV1333	040 230 500	A1	2.0	1.5	125	60	2.2	1.0	100	60	1.0	B7	P	

CV1334	642 350 000		2.0	2.8	150	150	10	3.2	100	100	3.2	B5	P
CV1335	216 510 030	G1	4.0	1.5	200	200	10.9	8.5	100	150	8.0	M08	P
CV1336	216 510 030	G1	4.0	1.3	200	125	20	8.4	100	100	8.0	M08	P
CV1337	005 231 600	G1	11.5	0	250	250	40		100	PenLF		B7	P
CV1338	061 231 500	G1	2.0	1.0	150	60	4.0	1.0	150	60	1.0	B7	P
CV1339	045 231 600		4.0	4.4	250	250	40	10.5	100	PenLF	9.0	B7	P
CV1340	041 231 500	A1	4.0	15	250	250	85	6.25	100	PenLF	6.2	B7	P
CV1341	041 231 500	A1	4.0	1.5	200	75	2.4	1.1	100	75	1.1	B7	P
CV1342	207 544 630		2.0	6.0	125	125	10	3.0	100	100	3.0	M08	PP
CV1343	026 500 310	G1	6.3	3.0	250	100	2.0	1.5	100	90	1.5	A08	P
CV1344	571 230 640	G1	2.0	1.0	100	60	0.8	1.2	100		1.4	B9	TP
				1.0	125	60	1.2	1.0	150	60	1.3		
CV1345	207 640 530	G1	2.0	1.0	100	60	3.7	1.6	100		1.7	M08	TP
				1.5	125	60	1.0	1.0	125	60	1.0		
CV1347	027 546 310	G1	6.3	2.0	100	100	5.4	2.2	100		2.8	A08	TH
				2.0	250	100	5.0	2.4	100	100	1.2		
CV1352	41 * 23 * 6 * 5		6.0	14	250	250	0.37					B9A	TI
CV1356	200 000 030	A1	2.0	22.5	60	250	4.0					M08	R
CV1359	216 040 530		4.0	12	250	250	0.23	4.2	100		4.0	M08	TT
CV1361	642 300 000		6.3	12	350		45	6.5	100		6.0	B4	T
CV1364	254 130 000	A1	6.3	12.5	400	250	83	5.2	100	PenLF	6.0	UX5	P
CV1366	200 540 030	A1	2.0	10	150	150	32	5.0	100	100	5.0	M08	P
CV1367	041 230 500	A1	3.0		250	250	16	5.0	100	PenLF	5.0	B7	P
CV1368	041 230 500	A1	6.3	5.0	400	250	14	3.0	100	150	3.0	B7	P
CV1369	205 411 300	A1	6.3	10	400	200	50	2.5	100	150	2.5	B7	P
CV1370	401 235 100	A1	12	25	250	200	40	2.0	100	100	2.0	B7	P
CV1374	254 130 000	A1	6.3	12.5	400	250	83	6.5	100	PenLF	6.0	UX5	P
CV1375	141 230 651		6.0	2.0	250	100	10	6.0	150	100	5.0	B9A	P
CV1376	141 230 651		6.0	2.0	175	175	10	7.2	100	100	6.0	B9A	P
CV1401	026 540 210		33	8.5	200	200	45	8.0	100	100	7.0	A08	P
CV1402	023 100 080		20				120		REC		30mA	8SC	R
CV1403	219 080 130		4.0						D			M08	DD

Ra = 1MΩ
See Note G

Ra = 0.5MΩ

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data				Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV1404	026 510 310	G1	6-3	2-0	250	100	3-0	1-8	100	100	1-8	A08	P	
CV1406	216 040 030		4-0	4-5	250		7-0	3-1	150		3-1	M08	T	
CV1407	216 540 030		4-0	8-5	250	250	40	8-8	100	PenLF	8-0	M08	P	
CV1408	216 040 030		4-0	11-8	250		16	4-5	100		4-5	M08	T	
CV1409	041 230 500	A1	2-0	1-0	150	150	3-0	1-8	150	150	1-8	B7	P	
CV1410	645 230 700	G1	2-0	1-5	150		0-93	1-2	150		1-2			
				1-5	250	75	4-0		150	60		B7	TH	
CV1411	217 640 530	G1	4-0	3-0	100		10-3	4-0	100		5-3	M08	TH	
				3-0	250	100	3-0	3-1	100	100	3-1			
CV1412	023 104 560		4-0	5-0	250		60	2-0	REC		20mA	M08	TI	Ra = 1MΩ See Note G
CV1413	208 099 030		4-0	2-7	250	200	7-7	2-0	100	150	2-0	M08	P	
CV1414	216 519 030	G1	4-0	3-5	250	250	11	3-1	100	200	3-1	B7	P	
CV1418	892 310 030		13				5-0		D			B5	RR	
CV1419	908 231 600	G1	13	2-0	250		0-4	1-1	200		1-1	B7	DDT	
CV1423	061 231 500	G1	13	3-0	250	125	10-5	1-65	100	100	1-8	B7	P	
				12-5	100		2-3		100					
CV1424	645 231 700	G1	4-0	1-5	250	75	2-2	2-35	100	75		B7	TH	
				16-5	250	250	34	1-8	100	PenLF	2-3	B7	P	
CV1425	045 231 600		13	2-0	250	75	2-8	2-2	100	60	2-1	S8C	O	
CV1426	023 154 560	G1	6-0	2-5	250	100	6-0	2-2	100	100	2-2	S8C	P	
CV1427	023 110 560	G1	6-0	5-5	250		5-0	2-0	100		2-0	S8C	DDT	
CV1428	023 189 060	G1	6-0	18	250	250	32	2-8	100	PenLF	2-8	S8C	P	
CV1429	023 100 560	G1	6-0	1-7	250	100	7-9	7-0	200	100	7-5	B7	P	
CV1430	061 231 500	G1	4-0	16	150		2-0	3-2	100		3-2	A08	T	
CV1433	026 040 310		6-3											

CV1434	023 164 560	6-3	4.2 12.5	200 200	200 200	2-2	1-5	No data available	150	1-5	88C	TI	Ra = IMG See Note G Ra = IMG See Note G
CV1436	642 300 000	2-0	1-5	150	150	2-2	1-5	No data available	150	1-5	B4	T	
CV1437	023 004 060	2-0	1-5	150	150	2-2	1-5	No data available	150	1-5	88C	T	
CV1438	041 231 500	4-0	15	150	150	85	6-3	PenLF	100	6-2	B7	P	
CV1443	026 540 310	6-3	4-4	250	250	40	10-5	PenLF	100	9-0	A08	P	
CV1444	892 300 000	4-0	0-5	250	250	30	11	REC	15mA		B4	RR	
CV1451	041 231 500	4-0	0-5	250	250	64	11	PenLF	100	10	B7	P	
CV1452	289 300 000	5-0	90	400	400	60		REC	20mA		UX4	RR	
CV1454	364 200 000	5-0	90	400	400	50		No data available			UX4	T	
CV1456	072 323 600	2-0	10-0	40	175	20	10-5	No data available			B7	RR	Test A1 and A2
CV1457	216 540 030	38	10-0	175	175	64	10-5	No data available	100	9-0	M08	T	
CV1458	216 510 030	13	2-7	150	150	8-0	2-1	PenLF	100	2-1	M08	P	
CV1459	642 310 200	4-0	7-5	200	200	24	7-5	100	100	7-0	B5	T	
CV1460	002 300 000	2-0	6-0 3-0	150 250	75	5-0	1-4	D	150	1-4	B7	TH	
CV1461	645 231 700	4-0	6-0 3-0	150 250	75	5-0	1-4	D	100	1-8 2-0	M08	D	
CV1462	200 000 030	2-0	0	250	100	2-0	1-5	100	100	1-5	A08	P	
CV1463	026 500 310	5-3	8-5	200	200	45	8-0	PenLF	100	7-0	A08	DDP	
CV1464	026 985 310	44	2-5	250	100	6-0	2-2	100	100	2-2	A08	P	
CV1468	026 510 310	6-3	2-0	200	100	3-0	2-3	100	100	2-3	B7	P	
CV1469	061 231 500	4-0	2-0	200	100	3-0	2-3	100	100	2-3	B5	P	
CV1468	542 310 000	4-0	2-0	200	100	3-0	2-3	100	100	2-3	B7	P	
CV1501	041 230 500	2-0	1-0	150	125	2-5	1-7	150	100	1-7	B7	P	
CV1502	021 450 310	6-3	11	250	150	30	3-5	100	100	3-5	A08	P	
CV1503	026 540 310	26	7-6	125	150	75	9-0	100	100	8-0	A08	P	
CV1505	326 540 210	13	7-0	175	175	92	10	100	100	9-0	A08	P	
CV1508	642 310 000	4-0	1-5	200		5-2	6-0	200	200	6-0	B5	T	
CV1510	002 300 000	(5-0)	10	40	150	100	3-0	REC	20mA		B4	R	See Note K
CV1535	265 511 413	6-3	10	250	150	30	3-0	REC	3-0		B7G	P	
CV1535	802 309 100	6-3	10	250	150	30	3-0	REC	15mA		B7G	RR	

Table 6-(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data					Tester, valve, Avo, No 1 data			Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV1540	421 342 134	A1, A2	6-0	1-0	300			18.5	No data available			B9G	TT	
CV1565	642 300 000		2-0	18	150		22	3-0	100		2-0	B4	T	
CV1567	264 300 000		7-0	100	350		50	No data available	No data available			UX4	T	
CV1589	892 300 000		4-0				60	1.8	REC	20mA		B4	RR	
CV1570	026 545 310	G1	6-3	2-0	250	75	2-8	6-5	100	60	2-1	A08	O	
CV1572	254 130 000	A1	6-3	12-5	400	250	83	3-2	100	PenLF	6-0	UX5	P	
CV1573	442 310 000	A1, A2	6-3	17	300		17	8-5	100	150	3-0	B5	TT	
CV1574	216 510 030	G1	4-0	1-5	200	200	10-9	6-2	100	PenLF	8-0	M08	P	
CV1576	041 231 500	A1	(5-0)	15-7	250	250	85	6-5	100	PenLF	6-2	B7	P	See Note K
CV1577	041 231 500	A1	4-0	15	250	250	85	6-25	100	PenLF	6-2	B7	P	
CV1578	256 101 403		6-3	1-55	250	250	10	6-5	100	PenLF	6-0	B9G	P	
CV1581	027 546 310	G1	6-3	2-0 2-0	100 250	100	5-4 5-0	2-2 2-4	100 100	100	2-8 1-2	A08	TH	
CV1584	642 310 000		4-0	3-5	200		5-4	3-1	100		2-7	B5	T	
CV1585	216 040 030		4-0		100		30	2k Ω	No data available			M08	Thyra- tron	
CV1586	206 040 030		2-0	2-4	150		1-5	1-2	125		1-2	M08	T	
CV1598	061 231 500	G1	13	3-9	250	125	10-5	1-65	100	100	1-6	B7	P	
CV1599	061 231 500	G1	13	3-0	250	100	2-0	1-25	100	100	1-25	B7	P	
CV1611	642 300 000		4-0	3-0	200		6-0	2-5	150		2-5	B4	T	
CV1633	365 024 300		1-4	4-5	90	90	7-7	2-0	80	75	2-0	B7G	P	
CV1635	141 236 115		6-3	1-5	200	200	15	15	No data available			B9A	P	
CV1649	026 040 310		6-0	8-0	250		8-0	2-0	100		2-0	A08	T	
CV1652	642 300 000		2-0	18	150		22	3-0	100		3-0	B4	T	
CV1653	023 004 060		2-0	1-5	150		1-2	0-6	125		0-6	8SC	T	
CV1654	642 300 000		2-0	4-5	150		4-8	1-4	100		1-4	B4	T	
CV1655	642 300 000		4-0	4-0	100		7-5	1-27	100		1-2	B4	T	

CV1656	642 300 000	4.0	6.0	100	4.2	1.1	100	1.1	B4	T
CV1657	642 300 000	2.0	1.0	100	0.6	0.6	100	0.6	B4	T
CV1658	642 300 000	2.0	1.0	100	0.6	0.5	100	0.5	B4	T
CV1659	642 300 000	4.0	4.5	130		2.0	100	1.8	B4	T
CV1660	642 300 000	4.0	3.0	100	6.0	2.1	100	2.1	B4	T
CV1661	642 310 000	16	8.0	200	25	4.5	100	4.0	B5	T
CV1662	642 300 000	2.0	7.5	150	10	2.25	100	2.2	B4	T
CV1663	642 300 000	4.0	8.0	125	23	3.0	100	3.0	B4	T
CV1664	264 300 000	4.0	15	150	8.0	1.3	100	1.3	UX4	T
CV1665	642 300 000	16	4.5	200		2.3	100	2.3	B4	T
CV1666	642 300 000	5.5		150		2.3	100	2.3	B4	T
CV1667	642 300 000	6.3	25	300		1.2	100	1.0	B4	T
CV1668	642 300 000	4.0	18	150	11	1.6	100	1.6	B4	T
CV1670	000 231 600	13	3.0	250	10	4.0	150	4.0	B7	T
CV1671	264 300 000	4.0	10	150	22.5	3.0	100	0.6	UX4	T
CV1672	045 231 600	33	8.5	200	45	8.0	100	7.0	B7	P
CV1673	642 300 000	2.0	1.5	150	2.2	1.5	150	1.5	B4	T
CV1674	041 231 500	4.0	1.5	200	4.8	2.8	100	2.8	B7	P
CV1675	005 231 600	4.0	4.4	250	40	10	100	9.0	B7	P
CV1676	642 300 000	4.0	6.0	100	16	24	100	24	B4	T
CV1677	542 310 000	4.0	1.5	200	4.6	2.5	100	2.5	B5	P
CV1678	642 310 000	4.0	1.5	200	5.2	6.0	200	6.0	B5	T
CV1679	642 300 000	4.0	70	300	60	3.7	100	0.6	B4	T
CV1680	642 300 000	2.0	12	150	14	2.5	100	2.5	B4	T
CV1681	061 231 500	4.0	2.5	200	8.0	4.7	100	4.7	B7	P
CV1682	005 231 600	4.0	5.0	250	40	9.1	100	8.0	B7	P
CV1683	045 231 600	4.0	16	250	30	3.5	100	3.5	B7	P
CV1684	145 231 600	4.0	5.0	250	36	10	100	10	B7	P
CV1685	145 231 600	4.0	5.0	250	36	10	100	10	B7	P
CV1686	102 300 000	4.0							B4	D
CV1687	102 300 000	4.0							B4	D
CV1688	642 310 000	6.3	20	400	60	10	100	8.0	B5	T

RESTRICTED

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data		Base	Type	Remarks		
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts				Screen volts	mA/V
CV1689	642 310 000		4.0	10	200		40	6.5	100		6.5	B5	T	
CV1690	542 310 000	A1	4.0	1.5	200	75	5.0	4.25	100	75	4.2	B5	P	
CV1691	892 310 000		4.0				5.0		D			B5	RR	
CV1692	642 310 000		4.0	16	250		14	4.2	100		4.2	B5	P	
CV1693	642 300 000		4.0	43	300		43	6.0	100		6.0	B4	T	
CV1695	892 310 000		13				5.0		D			B5	DD	
CV1696	447 230 600		2.0	6.0	150		2.2		100			B7	TT	Check for balance
CV1697	645 331 700	G1	4.0	6.0 3.0	150 250	75	5.0 2.3	1.4 1.4	150 100	75	1.8 2.0	B7	TH	
CV1698	060 231 500	G1	4.0	0	250	250	8.0	7.5	100	100		B7	P	
CV1699	216 510 030	G1	4.0	1.5	200	200	10.9	8.5	100	150	8.0	M08	P	
CV1700	216 510 030	G1	4.0	1.5	200	200	10.9	8.5	100	150	8.0	M08	P	
CV1701	642 300 000		2.0	0	40		1.2	1.0	60		1.2	Sm4	T	
CV1702	642 300 000		2.0	4.5	75		4.0	1.0	80		1.0	Sm4	T	
CV1703	251 630 000	G1	2.0	0	100	40	0.9	0.5	100	60	0.5	Sm5	P	
CV1704	265 113 000	G1	2.5	3.0	250	100	2.0	1.22	100	100	1.2	UX6	P	
CV1705	265 113 010	G1	2.5	3.0	250	100	8.0	1.5	100	100	1.5	UX6	P	
CV1706	265 891 300	G1	2.5	3.0	250	125	9.0	1.12	100	100	1.12	UX7	DDP	
CV1707	265 413 000		2.5	16.5	250	250	34	2.5	100		2.5	UX6	P	
CV1708	298 300 000		5.0				60		REC		20mA	UX4	RR	
CV1709	265 113 000	G1	6.3	3.0	250	100	8.2	1.6	100	100	1.6	UX6	P	
CV1710	265 113 000	G1	6.3	3.0	250	100	2.0	1.22	100	100	1.2	UX6	P	
CV1711	265 891 300	G1	6.3	3.0	250	125	9.0	1.12	100	100	1.1	Sm7	DDP	
CV1712	265 413 000		6.3	16.5	250	250	34	2.5	100		2.5	UX6	P	
CV1713	023 111 560	G1	6.3	2.5	250	250	8.0	1.8	100		1.8	8SC	P	
CV1714	023 110 560	G1	6.3	2.5	250	100	6.0	2.2	100	100	2.2	8SC	P	

CV1715	023 189 060	G1	6-3	5-5	250	5-0	2-0	100	2-0	8SC	DDT
CV1716	642 300 000		4-0	19	100	26	4-5	100	4-5	B4	T
CV1718	571 231 640	G1	4-0	3-0 5-0	150 250	1-5	1-4	100	1-4	B9	TPP
CV1719	200 000 030	D1	2-0			5-5	1-6	100	1-6		
CV1720	642 300 000		1-5	1-0	50	0-7	0-6	50	0-6	M08	D
CV1721	642 300 000		1-5	4-5	50	1-75	0-72	50	0-72	SM4	T
CV1722	045 231 600		5-0	7-5	150	70	10	100	9-0	B7	P
CV1723	206 510 030	G1	2-0	1-0	150	1-8	2-3	100	2-3	M08	P
CV1724	026 510 310	G1	7-5	18	175	42	2-5	100	2-5	A08	P
CV1725	026 510 310	G1	7-5	5-5	250	5-2	2-0	100	2-0	A08	P
CV1726	026 501 310	G1	4-0	1-0	250	15	10	100	10	A08	P
CV1727	041 230 500	A1	2-0	1-0	125	1-1	1-2	125	1-2	B7	P
CV1729	026 500 310	G1	6-3	3-0	250	8-0	2-85	100	2-8	A08	P
CV1730	026 540 310		6-3	15	250	85	6-3	100	6-0	A08	P
CV1732	642 310 000		4-0	16	250	14	4-2	100	4-2	B5	T
CV1735	642 310 000		35	13-5	200	17	3-75	200	3-75	B5	T
CV1741	126 540 310		6-3	14-5	250	67	9-0	100	9-0	A08	P
CV1745	020 540 310	A1	6-3	18	175	100	10	100	9-0	A08	P
CV1749	264 300 000		4-5	29	400	30		100	1-8	UX4	T
CV1750	020 440 310	A1 A2	6-3		300	50	3-0			A08	TT
CV1751	365 200 000	G1	2-0	3-0	150	2-8	0-6	100	0-6	UX4	P
CV1752	265 130 000	G1	2-5	3-0	250	6-5	1-05	100	1-05	UX5	P
CV1753	265 004 130		35	8-0	200	41	5-9	100	5-9	B8B	P
CV1754	365 200 000	G1	2-0	3-0	150	2-8	0-6	100	0-6	UX4	P
CV1755	026 040 310		12-5	32	250	20	2-1	100	2-1	A08	T
CV1756	026 540 310		12-5	8-0	250	0-24				A08	TI
CV1757	412 385 100		6-3	3-0	250	2-0	1-4	100	1-4	B7G	P
CV1758	265 024 300		1-4	0	90	2-9	0-92	80	0-9	B7G	P
CV1759	020 000 310	A1 G1	15	6-3	350	16		100		A08	T
CV1762	412 385 100		6-3	9-0	175	15	2-3	100	2-3	B7G	P
CV1763	412 344 600		6-3	1-5	150	15	12	100	10	B7G	T

Ra = IMQ
See Note G

See Note B

Table 6--(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data				Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV1769	268 913 000	G1	2.5	2.0	250	0.9	1.1	150	1.1	UX6	DDT			
CV1770	260 0*9 130		6.3	8.0	250	9.0	2.6	100	2.6	B8B	T			
CV1771	265 130 000	G1	6.3	3.0	175	5.8	1.0	100	1.0	UX5	P			
CV1772	264 530 000		2.5	16.5	250	31	2.5	100	3.8	UX5	P			
CV1773	289 300 000		2.5			60		REC	20mA	UX4	RR			
CV1774	364 200 000		5.0	4.5	90	5	1.57	80	1.5	UX4	T			
CV1775	285 130 000	G1	6.3	3.0	250	3.2	1.08	100	1.08	UX5	P			
CV1776	285 101 300	G1	6.3	3.0	250	2.0	1.22	100	1.2	Sm7	P			
CV1777	265 114 130		6.3	3.0	250	2.0	1.3	100	1.3	B8B	P			
CV1781	265 113 000	G1	10	3.0	150	5.5	1.8	100	1.8	UX6	P			
CV1784	120 415 360		6.3	3.0	300	30	11	100	9.0	A08	P			
CV1790	209 008 130		6.3			60		REC	20mA	B8B	RR			
CV1796	892 300 000		4.0			60		REC	20mA	B4	RR			
CV1798	026 041 310		6.3		250	75	2.5kΩ	No data available		A08	Thyatron			
CV1799	026 540 310		6.3	15	250	85	6.3	100	6.0	A08	P			
CV1800	026 546 300	G1	1.4	0	90	1.8	0.55	80	0.5	A08	H			
CV1802	026 546 300	G1	1.4	0	90	1.8	0.55	80	0.5	A08	H			
CV1803	036 540 200		1.4	7.5	90	7.5	1.55	80	1.5	A08	P			
CV1805	036 540 200		1.4	7.5	90	7.5	1.55	80	1.5	A08	P			
CV1806	036 500 200	G1	2.0	3.0	150	2.2	0.65	100	0.6	A08	P			
CV1811	037 546 280	G1	1.4	9.0	90	1.1	0.57	80	0.5	A08	DTP			
CV1812	036 447 250		2.0	4.5	150	5.0	0.92	80	0.9	A08	PP			
CV1816	020 000 030	D1	6.3			30		REC	15mA	A08	R			
CV1817	036 040 200		1.4	6.0	90	2.3	0.82	80	0.82	A08	T			
CV1818	036 080 200	G1	1.4	0.5	100	0.06	0.36	80	0.27	A08	TT			

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CV1819	026 040 310		6.3	13.5	250		5.0	1.45	100		1.4	A08	T
CV1820	036 080 200		1.4	0.5	100		0.06	0.36	80		0.27	A08	DT
CV1821	036 500 200	G1	1.4	0	90	90	1.2	0.75	80	90	0.75	A08	P
CV1823	036 500 200	G1	1.4	0	90	90	1.2	0.75	80	90	0.75	A08	P
CV1824	036 540 200		1.4	4.5	90	90	9.5	2.2	80	75	2.2	A08	P
CV1825	041 231 500	A1	4.0	15	250	250	85	6.3	100	PenLF	6.0	B7	P
CV1826	036 540 200		1.4	4.5	90	90	9.5	2.2	80	75	2.2	A08	P
CV1829	036 540 200		1.4	6.0	90	90	6.5	1.15	80	75	1.15	A08	P
CV1830	*2* 0*0 3*0	D1	1.25				5.0		D			A08	R
CV1831	264 300 000		2.5	45	250		60	5.2	100		5.2	UX4	T
CV1834	265 413 000		2.5	16.5	250	250	34	2.5	100	PenLF	2.5	UX6	P
CV1837	265 891 300	G1	2.5	3.0	250	125	9.0	1.12	100	100	1.12	UX7	DDP
CV1838	273 624 540		3.0	10	300	200	20	2.0	100	100	2.0	B8B	PP
CV1839	260 154 130		6.3	1.8	200	200	10	9.0	150	150	8.0	B8A	P
CV1843	200 300 000	D1	2.5				5		D			UX4	R
CV1846	020 809 030		5.0				120		REC		30mA	A08	RR
CV1847	020 000 300	D1	2.5				30		REC		15mA	A08	R
CV1849	020 809 030		5.0				60		REC		20mA	A08	RR
CV1850	274 164 130		6.3	1.8	200		5.0	3.1	150		3.1	B8A	TT
CV1851	008 090 230		5.0				120		REC		30mA	A08	RR
CV1852	008 090 230		5.0				120		REC		30mA	A08	RR
CV1853	026 540 310		6.3	8.5	250	250	40	8.8	100	PenLF	8.0	A08	P
CV1854	020 809 030		5.0				60		REC		20mA	A08	RR
CV1855	20* **8 130		6.3				30		REC		15mA	B8A	RR
CV1856	020 809 030		(5.7)				60		REC		20mA	A08	RR
CV1857	008 090 230		5.0				60		REC		30mA	A08	RR
CV1861	269 300 000		5.0				120		REC		30mA	UX4	RR
CV1862	412 365 400		6.3	12.5	250	250	45	4.1	100	PenLF	4.0	B7G	P
CV1863	030 809 020		(5.7)				60		REC		20mA	A08	RR
CV1864	030 809 020		5.0				60		REC		20mA	A08	RR
CV1866	401 230 060		6.3	2.0	150		30	5.5	100		4.0	B9A	T
CV1867	274 146 300		6.3	5.0	250		6.0	3.1	100		3.1	UX7	TT

See Note K

See Note K

Table 6-(cont'd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data				Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV1870	265 541 300	G1	6-3	8-0	250	100	3-5	1-15	100	100	1-1	Sm7	H	
CV1873	021 415 360		6-3	3-0	300	200	12-5	5-0	100	150	5-0	A08	P	
CV1876	021 415 360		6-3	2-0	300	150	10	9-0	100	100	8-0	A08	P	
CV1878	427 546 310		6-3	25 16-5	250	250	4-0	0-32	100	PenLF	0-32	A08	TP	
CV1879	041 231 500	A1	4-0	1-5	200	100	4-8	2-5	100	100	2-5	B7	P	
CV1882	120 415 360		6-3	3-0	300	150	30	2-8	100	100	2-8	A08	P	
CV1884	216 447 130		6-3	5-0	200		20	2-8	100		10	A08	P	
CV1886	441 230 446		6-3	1-5	250		15	12	150		10	B9A	T	
CV1887	026 980 310	G1	6-3	2-0	250		0-9	1-1	100		1-1	A08	DDT	
CV1888	401 230 060		6-3	2-0	150		30	5-5	100		4-0	B9A	T	
CV1891	265 891 300	G1	6-3	3-0	250	125	9-0	1-12	100	100	1-1	Sm7	DDP	
CV1893	026 985 310	G1	6-3	3-0	250	125	9-0	1-12	100	100	1-2	A08	DDP	
CV1894	026 985 310	G1	6-3	3-0	250	125	10	1-32	100	100	1-3	A08	DDP	
CV1896	026 147 310	G1	6-3	4-5	250		3-2	1-6	100		1-6	A08	TT	
CV1899	26* 0*4 130		6-3	13-3	250		12	5-5	80		7-0	B8A	T	
CV1900	265 113 000	G1	6-3	3-0	250	100	8-2	1-6	100	100	1-6	LX6	P	
CV1901	260 154 130		6-3	1-8	250	100	4-4	2-2	100	100	2-2	B8A	P	
CV1902	027 546 310	G1	6-3	3-0	150	100	4-2		100	100		A08	H	
CV1906	264 513 000		6-3	7-5	250	250	0-2		No data available			LX6	TI	
CV1908	020 600 310	G1	6-3	2-0	250		0-9	1-5	100		1-5	A08	T	
CV1909	020 600 310	G1	6-3	2-0	250		0-9	1-5	100		1-5	A08	T	
CV1910	020 600 310	G1	6-3	2-0	250		0-9	1-5	100		1-5	A08	T	
CV1911	026 540 310		6-3	16-5	250	250	34	2-5	100	PenLF	2-5	A08	P	
CV1912	026 540 310		6-3	16-5	250	250	34	2-5	100	PenLF	2-5	A08	P	

Ra = 1MΩ
See Note G

CV1915	275 641 300	G1	6.3	3.0	100	3.5	0.5	100	0.5	Sm7	TP
CV1917	027 146 310	G1	6.3	3.0	100	6.3	1.05	100	1.05	A08	TT
CV1918	027 146 310	G1	6.3	8.0	250	9.0	2.6	100	2.6	A08	TT
CV1919	260 154 130		6.3	1.25	150	28	10.6	100	8.0	B6A	P
CV1920	264 098 130		6.3	5.9	250	5.0	2.3	100	2.3	B8A	DDT
CV1921	020 000 300	D1	2.0			1.0		REC	2mA	A08	R
CV1926	026 540 310		6.3	9.0	175	15	2.3	100	2.3	A08	P
CV1928	412 365 100		12.5	1.0	250	11	4.4	100	4.4	B7G	P
CV1929	029 180 310		6.3					D		A08	DD
CV1930	029 180 310		6.3					D		A08	DD
CV1931	029 180 310		6.3					D		A08	DD
CV1932	026 040 310		6.3	8.0	250	9.0	2.6	100	2.6	A08	T
CV1933	026 040 310		6.3	8.0	250	9.0	2.6	100	2.6	A08	T
CV1934	026 040 310		6.3	8.0	250	9.0	2.6	100	2.6	A08	T
CV1935	026 510 310	G1	6.3	3.0	250	2.0	1.22	100	1.2	A08	P
CV1936	026 510 310	G1	6.3	3.0	250	2.0	1.22	100	1.2	A08	P
CV1937	026 510 310	G1	6.3	3.0	250	2.0	1.22	100	1.2	A08	P
CV1938	026 540 310		6.3	18	250	32	2.3	100	2.3	A08	P
CV1940	026 540 310		6.3	18	250	32	2.3	100	2.3	A08	P
CV1941	026 510 310	G1	6.3	3.0	250	10.5	1.65	100	1.6	A08	P
CV1942	026 510 310	G1	6.3	3.0	250	10.5	1.65	100	1.6	A08	P
CV1943	026 510 310	G1	6.3	3.0	250	10.5	1.65	100	1.6	A08	P
CV1944	027 546 310	G1	6.3	1.0	100	8.0	2.5	100	3.0	A08	TH
CV1945	027 546 310	G1	6.3	3.0	250	4.0	1.2	100	1.6	A08	TH
CV1946	027 546 310	G1	6.3	1.0	100	8.0	2.5	100	3.0	A08	TH
CV1947	026 540 310		6.3	1.0	250	4.0	1.2	100	1.6	A08	TH
CV1948	026 540 310		6.3	18	350	54	5.2	100	5.2	A08	P
CV1950	026 540 310	G1	6.3	3.0	250	5.3	1.1	100	1.1	A08	H

Table 6—(contd)

Valve	Selector switch No	TC	Vf	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data				Base	Type	Remarks
				Neg grid volts	Anode volts	Acreen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV1951	026 540 310	G1	6.3	3.0	250	100	5.3	1.1	100	100	1.1	A08	H	
CV1955	412 361 500		6.3	2.0	250	250	10	7.5	100	150	5.0	B7G	P	
CV1956	027 446 310		6.3	5.0	250		3.0	1.6	100		1.6	A08	TT	
CV1957	027 446 310		6.3	5.0	250		3.0	1.6	100		1.6	A08	TT	
CV1958	027 446 310		6.3	5.0	250		3.0	1.6	100		1.6	A08	TT	
CV1959	142 345 600		50	7.5	125	100	49	7.5	100	90	6.0	B7G	P	
CV1960	026 500 310	G1	6.3	3.0	250	100	7.0	1.45	100	100	1.4	A08	P	
CV1961	412 385 100		12.5	1.0	250	150	10.8	5.2	100	100	5.2	B7G	P	
CV1962	026 980 310	G1	6.3	9.0	250		9.5	1.9	100		1.9	A08	DDT	
CV1963	026 980 310	G1	6.3	9.0	250		9.5	1.9	100		1.9	A08	DDT	
CV1964	026 980 310	G1	6.3	9.0	250		9.5	1.9	100		1.9	A08	DDT	
CV1966	126 641 310		6.3	3.6	100		12	4.3	100		4.5	A08	H	
CV1967	126 641 310		6.3	3.6	100		12	4.3	100		4.5	A08	H	
CV1969	074 461 230		6.3	2.0	250		2.0	1.32	200		1.3	A08	TT	
CV1970	074 461 230		6.3	2.0	250		2.0	1.32	200		1.3	A08	TT	
CV1971	265 024 300		1.4	0	90	75	3.5	0.9	80	75	0.9	B7G	P	
CV1972	014 060 320		6.3	2.0	250		0.9	1.5	200		1.5	A08	T	
CV1973	014 060 320		6.3	2.0	250		0.9	1.5	200		1.5	A08	T	
CV1974	026 510 310	G1	6.3	3.0	250	100	8.5	1.75	100	100	1.7	A08	P	
CV1975	026 510 310	G1	6.3	3.0	250	100	8.5	1.75	100	100	1.7	A08	P	
CV1977	26* *54 130		45	9.0	175	175	54.5	9.5	100	100	7.0	B8A	P	
CV1978	021 415 360		6.3	1.0	250	125	11.8	4.7	100	100	4.7	A08	P	
CV1979	020 540 310	A1	6.3	20	200	200	40	4.0	100	100	4.0	A08	P	
CV1980	020 540 310	A1	18	18	175	175	100	9.5	100	100	8.0	A08	P	
CV1981	021 415 360		6.3	3.0	250	100	9.2	2.0	100	100	2.0	A08	P	
CV1982	021 415 360		6.3	3.0	250	100	9.2	2.0	100	100	2.0	A08	P	

Note: This issue, Pages 53 to 56 supersedes Issue 1, Pages 53 to 56 dated 23 May 58.

CV1985	021 415 360	6.3	3.0	250	100	9.2	2.0	100	100	2.0	A08	P	Check for balance
CV1984	074 461 230	6.0	2.0	250	200	2.0	1.3	200	100	1.0	A08	TT	Check for balance
CV1985	461 471 230	6.3	2.0	250	150	2.3	1.6	150	100	1.6	A08	TT	Check for balance
CV1986	461 471 230	6.0	8.0	250	100	9.0	1.9	100	100	2.5	A08	TT	Check for balance
CV1988	461 471 230	6.3	8.0	250	100	9.0	2.6	100	100	2.6	A08	TT	Check for balance
CV1989	*82 310 *00	6.3			D	5.0					B7G	R	
CV1990	041 896 230	6.3	2.0	250	200	0.9	1.1	200	100	1.1	A08	DDT	
CV1991	041 896 230	6.3	2.0	250	200	0.9	1.1	200	100	1.1	A08	DDT	
CV1993	021 415 360	6.3	3.0	250	100	9.0	1.85	100	100	1.8	A08	P	
CV1995	041 896 230	6.3	9.0	250	100	9.5	1.9	100	100	1.9	A08	DDT	
CV1996	041 896 230	6.3	9.0	250	100	9.5	1.9	100	100	1.9	A08	DDT	
CV1999	281 300 000	6.3			REC	60				20MA	UX4	R	
CV2000	412 361 500	6.3	2.0	250	250	10	7.65	100	100	5.0	B7G	P	
CV2001	412 361 500	6.3	2.0	250	250	10	7.65	100	100	5.0	B7G	P	
CV2002	412 360 500	6.3	13.5	250	250	16	2.6	100	100	2.6	B7G	P	
CV2003	412 360 500	6.3	13.5	250	250	16	2.6	100	100	2.6	B7G	P	
CV2004	192 310 800	6.3			D	5.0					B7G	RR	
CV2005	192 310 800	6.3			D	5.0					B7G	RR	
CV2006	256 101 403	6.3	4.0	250	150	10	7.0	100	100	6.0	B9G	P	
CV2007	741 226 413	6.3	8.5	250	100	10.5	2.2	100	100	2.2	B9A	TT	
CV2008	412 300 600	6.3	2.2	150	150	10	8.0	150	150	8.0	B9A	T	
CV2010	762 344 100	6.3	1.0	100	100	8.5	5.6	100	100	5.6	B9A	TT	
CV2011	741 226 413	6.3	8.5	250	100	10.5	2.2	100	100	2.2	B9A	TT	
CV2013	041 630 251	6.3	4.5	250	250	40	11.0	100	100	10	B9A	P	
CV2014	601 235 144	6.3	7.5	250	250	45	7.0	100	100	7.0	B9A	P	
CV2015	256 101 403	6.3	4.0	250	150	10	7.0	100	100	6.0	B9G	P	
CV2016	741 226 413	6.3	2.0	250	200	10.5	5.5	100	100	5.5	B9A	TT	
CV2017	412 361 500	6.3	4.0	200	200	5.8	3.8	100	100	3.8	B9A	P	
CV2020	412 365 100	6.3	2.0	150	125	1.5	5.0	100	100	4.5	B9A	P	
CV2021	902 308 100	6.3			REC	30				15MA	B7G	RR	
CV2022	*41 230 651	6.0	13	300	225	34	3.75	100	150	3.5	B9A	P	
CV2023	412 361 500	6.3	2.5	250	200	8.0	2.5	100	100	2.5	B7G	P	
CV2024	412 366 100	6.0	2.0	100	100	11	7.0	100	100	5.0	B7G	H	
CV2009	412 314 600	6.3	1.5	250	100	10	8.5	100	100	8.0	B9A	T	

Table 6 - (contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data				Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV2025	412 361 500		6.0	(2.0 1.5)	250 200	250 150	10 4.0	7.6 6.0	100 100	PenLF PenLF	5.0 5.0	B7G	P	See Note E
CV2026	412 365 100		6.3	1.0	250	100	11	4.4	100	100	4.4	B7G	P	See Note F
CV2101	040 230 650		1.25	0	75	75	2.0	1.0	No data available			B8D	P	See Note F
CV2102	*40 230 650		1.25	3.0	90	90	1.3	0.67	90	90	0.67	B8D	P	See Note F
CV2103	040 230 650		1.25	0	75	75	1.9	0.95	No data available			B8D	P	See Note F
CV2104	604 238 050		1.25	2.3	90	90	0.7	0.4	No data available			B8D	P	See Note F
CV2105	040 230 650		1.25	7.5	150	90	7.7	1.9	No data available			B8D	P	See Note F
CV2106	653 420 000		1.25	1.0	20	20	0.1	0.3	No data available			B5A	P	See Note D
CV2107	653 420 000		0.625	0.6	20	20	0.6	0.1	No data available			B5A	P	See Note D
CV2115	*2* 0*0 3*0	D1	1.25									B5A	R	
CV2127	*41 230 651		6.3	4.5	250	250	40	11	D			A08	R	
CV2128	541 237 194		6.3	(3.0 2.0)	100 250	250	5.0 6.5	2.3 2.4	100 150	150	9.0 2.3 2.4	B9A	TH	
CV2129	601 235 144		6.3	7.5	250	250	45	7.0	100	PenLF	7.0	B9A	P	
CV2131	412 360 500		6.0	13.5	250	250	16	2.6	100	150	2.5	B7G	P	
CV2135	041 230 651		6.3	3.0	250	250	2.0	1.22	100	100	1.2	B9A	P	
CV2136	041 230 651		6.3	13	300	225	34	3.7	100	150	3.7	B9A	P	
CV2143	440 230 700		2	0	150	150	7.0	3.9	100	100	3.9	B7	TT	
CV2156	241 657 143		20	14	250	150	30	3.9	D	PenLF	3.9	B9G	PP	
CV2171	6*2 300 800		4.4				5.0					B7G	R	
CV2172	402 320 060		1.2	0	150	150	20	3.5	No data available			B9A	T	
CV2179	412 36* 500	A1	6.3		175	175	55	9.5	100	100	7.0	B7G	P	
CV2180	020 000 300		2.5		100		40		REC		20mA	A08	R	
CV2195	412 361 500		6.3	2.0	250	250	10	7.65	100	PenLF	5.0	B7G	P	
CV2204	346 000 000	H-	6.3	1.0	250		20	3.0	No data available			Disc seal	T	Min fig mA/V
CV2307	346 000 000	H-	6.3	1.0	250		20	3.0	No data available			Disc seal	T	Min fig mA/V
CV2209	412 361 500		6.3	4.0	200	200	5.8	3.5	100	100	3.5*	B7G	P	

CV2212	741 226 413		6.3	4.6	250	40	6.0	2.3	100	2.3	B9A	TT	
CV2214	214 444 130	A1	6.3	1.0	300	75	50	2.7	No data available		B9G	T	
CV2217	026 040 310		6		100		30	2.6	No data available		A08	Thyatron	
CV2218	001 230 000	D1	6.3				120		REC	30mA	B9A	R	
CV2220	215 144 130	A1	12	20	300	250	50	5.6	100	5.0	B8B	P	
CV2231	041 230 051	A1	6.3	12.5	150	150	50	8.5	100	8.5	B9A	P	
CV2235	001 230 000	D1	6.3				120		REC	30mA	B9A	R	
CV2237	652 430 000		1.25	0	40	40	3.0	2.0	No data available		B5A	P	See Note D
CV2238	653 420 000		1.25	6.5	75	75	3.2	0.6	No data available		B5A	P	See Note D
CV2239	634 200 000		1.25	5.0	150	150	4.0	1.6	No data available		B5A	T	See Note D
CV2240	524 332 600		1.25	25	200	150	19.5	1.8	100	1.8	B7G	P	
CV2243	041 230 651		6.3	2.0	200	125	17	8.4	100	7.5	B9A	P	
CV2254	652 430 000		1.25	0	60	60	1.75	1.05	No data available		B5A	P	See Note D
CV2259	653 420 000		1.25	2.2	20	20	0.6	0.45	No data available		B5A	P	
CV2260	623 420 000		0.625	0.6	20	20	0.6	0.1	No data available		B5A	P	
CV2264	652 430 000		1.25	0	75	75	1.8	1.1	No data available		B5A	P	
CV2267	902 308 100		6.0				30		No data available			RR	See Note H
CV2268	412 361 500		6.0	2.0	250	250	10	7.5	No data available			P	See Note H
CV2275	400 230 060		1.25	4.5	150	150	12	3.4	150	3.4	B8D	T	
CV2276	141 321 615		6.3	10.4	350	250	15.5	1.9	100	6.0	B9A	P	
CV2277	902 308 100		6.3				30		REC	15mA	B7G	RR	
CV2288	653 420 000		1.25	1.4	20	20		0.35	No data available		B5A	P	See Note D
CV2289	023 000 000	D1	1.4						D		B3G	D	
CV2299	040 230 650		1.25	9.0	100	100	15	2.5					
CV2300	365 426 300		1.4	8.4	150	90	13.3	1.9	100	1.9	B7G	P	
CV2331	652 430 000		1.25	1.5	20	20	0.15	0.18	No data available		B5A	P	
CV2360	601 225 413		2.5	1.5	150	150	20		100		B9A	P	
CV2361	652 430 000		1.25	2.5	90	90	1.75	0.85	No data available		B5A	P	See Note D
CV2370	364 526 300		1.4	7.0	90	75	7.4	1.574	80	1.5	B7G	P	
CV2371	652 420 000		1.25	0	60	60	1.5	0.8	No data available		B5A	P	See Note D
CV2390	365 426 300		1.4	8.4	150	90	13.3	1.9	100	1.9	B7G	P	
CV2500	020 080 310		35				120		REC	30mA	A08	R	
CV2501	364 200 000		5.0	1.5	175	175	0.2	0.2	150	0.2	UX4	T	
CV2502	642 310 000		4.0	18	250	250	19	2.8	100	2.8	B5	T	
CV2503	642 310 000		4.0	1.5	200	200	3.2	4.0	150	4.0	B5	T	

Table 6 - (cont'd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data						Tester, valve, Avo, No 1 data			Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	rA/V	Anode volts	Screen volts	mA/V				
CV2504	642 310 000		4.0	3.0	200		4.0	4.5	150		4.5	B5	T		
CV2505	545 231 600	G1	4.0	1.5	250	100	3.3		100	100		B7	H		
CV2506	041 231 500	A1	4.0	1.5	250	100	12	4.8	100	100	4.8	B7	P		
CV2507	265 024 300		1.4	0	90	90	1.6	0.9	80	90	0.9	B7G	P		
CV2508	645 231 700	G1	4.0	{ 1.5	100		2.0		100			B7	TH		
CV2509	642 310 000		4.0	{ 1.5	200	60	1.0	2.8	100	60	2.8	B5	T		
CV2510	232 232 300	D1	1.4	18.0	250		19.0		100			B7G	R		
CV2511	045 231 600		4.0	5.5	250	275	34	7.0	100	PenLF	7.0	B7	P		
CV2512	968 231 500	G1	4.0	5.5	250	250	34	7.0	100	PenLF	7.0	B7	P		
CV2514	265 913 000		25	18	150	125	33	2.37	100	100	2.3	UX6	P		
CV2517	413 365 200		3.0	20	250	250	40	3.7	100	PenLF	3.7	B7G	P		
CV2521	412 365 100		6.3	2.0	300	150	10	9.0	100	100	8.0	B7G	P		
CV2522	412 365 100		6.3	2.0	125	125	5.5	3.5	100	100	3.5	B7G	P		
CV2523	471 461 230		6.3	40	100		53	7.0	100		7.0	A08	TT		
CV2524	412 365 100		6.3	1.0	250	150	10.6	5.2	100	150	5.2	B7G	P		
CV2525	412 389 600		6.3	2.0	250		1.2	1.6	200		1.6	B7G	DDT		
CV2526	412 389 600		6.3	2.0	250		1.2	1.6	200		1.6	B7G	DDT		
CV2527	641 231 106		6.3	2.0	100		18	7.0	100		7.0	H	H		
CV2529	892 300 000		4.0				120		REC			B4	RR		
CV2530	020 080 310		45				60		REC			A08	R		
CV2531	264 630 000		2.5	33	250		22	2.35	100		20mA	UX5	T		
CV2532	264 630 000		2.0	20	125		6.0	1.12	100		1.1	UX5	T		
CV2533	264 300 000		7.5	70	400		55	2.1	100		2.1	UX4	T		
CV2534	026 540 310		50	8.25	200	125	46	8.0	100	75	8.0	A08	P		
CV2535	274 146 300		2.5	5.0	250		6.0	3.1	100		3.1	UX7	TT		

CV2536	274 146 300		2.5	5.0	250		6.0	3.1	100	3.1	UX7	TT
CV2537	269 813 000	G1	2.5	20	250		8.0	1.1	100	1.1	UX6	DDT
CV2538	265 411 300		2.5	18	250	250	35	2.5	100	PenLF	UX7	P
CV2541	264 300 000		5.0	16.5	90		10	1.4	80	1.4	UX4	T
CV2542	300 200 000	D1	2.5				30		REC	15mA	UX4	R
CV2543	*2* 0** 3*0	D1	2.5				15		REC	10mA	A08	R
CV2544	265 113 000	G1	6.3	3.0	250	125	10.5	1.65	100	1.6	UX6	P
CV2545	274 163 000	G1	6.3	0	250		5.3	1.8	150	1.8	UX6	TT
CV2546	280 300 000		7.5				60		REC	20mA	UX4	R
CV2547	398 200 000		5.0				60		REC	20mA	UX4	RR
CV2548	289 130 000		6.3				30		REC	15mA	UX5	RR
CV2549	269 813 000	G1	6.3	20	250		8.0	1.1	100	1.1	UX6	DDT
CV2556	128 458 310		117	5.2	100	100	60	5.3	REC	20mA	A08	RP
CV2557	028 451 810		117	6.0	100	100	51	7.0	REC	7.0	A08	RP
CV2558	029 180 310		117				60		REC	20mA	A08	RR
CV2562	642 310 000		4.0	9.0	200		12	3.4	100	3.4	B5	T
CV2566	264 300 000		4.5	22.5	350		29	1.94	No data available		UX4	T
CV2567	264 300 000		4.5	18	300		31	1.75	No data available		UX4	T
CV2569	642 300 000		2.0	4.5	150		3.0	1.1	100	1.1	B4	T
CV2570	642 300 000		2.0	3.0	150		1.6	1.5	100	1.5	B4	T
CV2571	642 300 000		2.0	3.0	150		1.6	1.1	100	1.1	B4	T
CV2574	041 230 600	A1	2.0	1.0	150	60	2.9	1.1	150	1.1	B7	P
CV2575	214 607 413		6.3	2.0	150		8.5	5.5	125	5.5	B9A	TT
CV2577	414 752 360		26	4.5	30	30	20	5.5	No data available		A08	PP
CV2578	641 221 437		6.3	12.5	250		16	4.1	100	4.1	B9A	TT
CV2581	642 350 000		2.0	4.5	150	150	9.5	2.5	100	2.5	B5	P
CV2582	542 300 000	A1	2.0	1.0	150	60	3.6	1.6	100	1.6	B4	P
CV2584	264 300 000		3.0	3.0	90		2.1	0.84	100	0.84	UX4	T
CV2585	265 130 000		6.3	3.0	175	90	5.8	1.0	100	1.0	UX5	P
CV2586	446 230 700	G1	2.0	1.0	125		8.5		100		B7	TT

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Av _o , No 3 data						Tester, valve, Av _o , No 1 data			Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	I _a mA	mA/V	Anode volts	Screen volts	mA/V				
CV2593	240 300 000	A1	3-0	3-0	90		2-1	0-51	100		0-51	UX4	T		
CV2595	265 130 000	G1	2-0	1-5	175	75	5-5	1-38	100	75	1-3	UX5	P		
CV2599	264 300 000		1-5	8-0	100		2-1	0-58	100		0-58	UX4	T		
CV2601	264 130 000		5-0	30	400		37-5	2-9	100		2-9	UX5	T		
CV2602	264 130 000		10	15	150		5-4	0-76	100		0-76	UX5	T		
CV2603	289 300 000		5-0				60		REC		20mA	UX4	RR		
CV2604	264 300 000		5-0	4-5	200		47	2-7	100		2-7	UX4	T		
CV2613	265 113 000	G1	10	3-0	150	150	5-5	1-8	100	125	1-8	UX6	P		
CV2614	265 130 000	G1	10	15	150	150	30	2-8	100	100	2-8	UX6	P		
CV2619	265 113 000	G1	7-5	3-0	150	150	5-5	1-8	100	125	1-8	UX6	P		
CV2620	265 130 000	G1	7-5	15	150	150	37-5	3-3	100	100	3-0	UX5	P		
CV2622	642 300 000		6-3	6-0	150		10	1-4	100		1-4	B4	T		
CV2624	265 113 000	G1	10	3-0	150	150	6-3	1-6	100	125	1-6	UX6	P		
CV2627	026 540 310		6-3	14	250	250	30	4-25	100	PenL F	4-25	A08	P		
CV2630	028 090 310		1-0				120		REC		30mA	A08	RR		
CV2631	268 913 000	G1	10	6-0	150		2-1	0-65	100		0-65	UX6	DDT		
CV2633	243 560 000		1-4	0	50	50	1-26	0-57				UX5	P		
CV2636	026 540 310		20		40		12	4-7				A08			
CV2640	892 300 000		4-0				15		REC		10mA	B4	RR		
CV2643	021 010 310	A G1 C	6-3	0	250		16-5	4-8				A08	T	Test A1 and A2	
CV2644	892 300 000		4-0				60		REC		20mA	B4	RR		
CV2645	892 300 000		4-0				30		REC		15mA	B4	RR		
CV2650	641 227 413		6-0	4-0	250		3-0	1-75	100		1-7	B9A	TT		
CV2659	320 504 210	A1	6-3	0	400	300	30	5-5				A08	P		
CV2662	412 163 510		6-3	2-0	150	100	20	9-0				B9D	P	See Note F	
CV2663	241 531 420	A1 A2	6-3	22	400	200	25	4-0	100	100	4-0	A08	PP		

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data						Tester, valve, Avo, No 1 data			Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V				
CV2805	264 460 300		2.0	0	150			1.8					B7	TT	
CV2806	642 310 000		4.0	1.75	200		4.9	5.0	100		5.0		B5	T	
CV2807	642 310 000		4.0	1.75	200		4.9	5.0	100		5.0		B5	T	
CV2808	045 231 600		4.0	5.3	250	250	32	8.5	100	PenLF	8.0		B7	P	
CV2809	045 231 600		4.0	8.5	250	250	40	9.4	100	PenLF	9.4		B7	P	
CV2811	642 310 000		4.0	4.5	250		7.0	3.0	100		3.0		B5	T	
CV2812	642 310 000		4.0	4.5	250		7.0	3.0	100		3.0		B5	T	
CV2813	809 231 600	G1	4.0	3.0	200		4.9	2.6	100		2.6		B7	DDT	
CV2815	642 310 000		4.0	13.5	200		17	2.75	100		2.75		B5	T	
CV2817	026 540 310		6.3	18	350	250	54	5.2	100	PenLF	5.2		A08	P	
CV2820	041 231 500	A1	4.0	3.0	200	200	4.9	2.7	100	PenLF	2.7		B7	P	
CV2821	461 471 230		6.3	4.0	250		9.0	3.6	100		3.6		A08	TT	
CV2822	542 310 000	A1	4.0	1.5	200	60	4.5	1.9	200	60	1.9		B5	P	
CV2823	061 231 500	G1	4.0	1.7	250	100	7.9	7.0	200	100	7.5		B7	P	
CV2827	026 985 310	G1	12.5	3.0	250	125	10	1.3	100	100	1.3		A08	DDP	
CV2829	265 413 000		10	18	175	175	14.5	1.0	100	100	1.0		UX6	P	
CV2830	645 231 700	G1	4.0	2.7	75		6.0	3.0	80		3.0		B7	TH	
CV2831	214 607 413		6.3	3.0	250	100	3.0	3.5	100	100	3.5		B9A	TT	
CV2832	081 231 500	G1	4.0	2.0	150		8.2	5.5	125		5.5		B7	P	
CV2833	023 110 560	G1	4.0	2.8	250	200	7.4	2.0	100	PenLF	2.0		B7	P	
CV2835	030 809 020		5.0	3.0	250	100	8.0	1.8	250	100	1.8		8SC	P	
CV2835	030 809 020		5.0	3.0	250	100	8.0	1.8	250	100	1.8		8SC	P	
CV2836	005 231 600	G1	4.0	6.0	250	250	36	10	100	PenLF	10	20mA	A08	RR	
CV2837	005 231 600	G1	4.0	6.0	250	250	36	10	100	PenLF	10		B7	P	
CV2841	206 510 036	G1	2.0	4	150	150	3.15	1.1	100	100	1.1		M08	P	
CV2842	602 364 100		6.3	8.5	250		10.5	2.2	100		3.0		B7G	T	

Issue 1, 23 May 58

Check for balance
Check for balance

CY2843	762 344 100	6-3	3-0	150	5-0	4-5	100	5-3	B7G	TT
CY2844	802 309 100	6-3			30		REC	15mA	B7G	RR
CY2845	642 300 000	6-0		400	20	0-9	200	0-6	B4	T
CY2846	642 300 000	6-0		400	20	1-75	200	1-5	B4	T
CY2853	802 300 000	6-3			120		REC	30mA	B4	R
CY2854	412 365 100	6-3	6-0	125	35	8-0	100	7-0	B7G	P
CY2855	462 603 161	6-3	2-0	100	13	5-5	100	5-5	M08	T
CY2858	320 200 000	2-5			30		REC	15mA	UX4	R
CY2860	023 080 090	4-0			30		REC	15mA	8SC	RR
CY2861	023 080 090	4-0			60		REC	20mA	8SC	RR
CY2862	020 809 030	4-0			30		REC	15mA	A08	RR
CY2864	447 230 600	2-0	6-0	150	2-2		100		B7	TT
CY2865	447 231 600	13	0	175			100		B7	TT
CY2866	214 607 413	6-0	2-0	150	8-2	5-5	125	5-5	B9A	TT
CY2874	008 092 030	6-3			30		REC	15mA	A08	RR
CY2875	023 100 560	33	8-5	200	45	8-0	100	7-0	8SC	P
CY2876	412 316 100	6-0		400	50	6kΩ	No data available		B7G	Thyra- tron
CY2877	412 365 100	6-3	2-3	150	7-0	4-3	100	4-0	B7G	P
CY2882	192 310 800	6-3			5-0		D		B7G	RR
CY2883	412 365 400	6-3	12-5	250	45	4-1	100	4-0	B7G	P
CY2884	412 365 100	6-3	2-0	125	5-5	3-5	100	3-5	B7G	P
CY2887	023 008 060	1-4	1-0	90	0-14	0-27	80	0-27	8SC	DT
CY2888	120 540 310	6-3	9-0	300	91	14	100	10	A08	P
CY2889	892 310 000	6-3					D		B5	DD
CY2890	908 231 600	4-0	3-0	200	3-0	2-4	150	2-4	B7	DDT
CY2891	280 300 000	2-5			120		REC	30mA	UX4	R
CY2901	501 236 014	6-3	1-0	250	3-0	1-85	100	1-8	B9A	P
CY2907	032 000 560	1-4	1-0	90	1-2	0-75	80	0-75	8SC	P
CY2909	026 890 310	6-3	1-0	250		2-0	250	2-0	A08	DDT
CY2910	023 064 560	1-4	0	90	1-8	0-55	80	0-55	8SC	H
CY2911	032 004 560	1-4	7-5	90	7-5	1-55	80	1-55	8SC	P
CY2912	026 890 310	6-3	3-0	250	4-2	1-6	100	1-6	A08	DDT

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data					Tester, valve, Avo, No 1 data			Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV2920	020 000 310	G1 A1	6-3	5-5	250	14	14	3-0	100	3-0	A08	T		
CV2925	032 198 560	G1	6-3	2-0	250	5-0	5-0	1-8	100	1-8	SSC	DDP		
CV2926	026 895 310	G1	6-3	6-0	250	36	36	9-5	100	9-0	A08	DDP		
CV2929	023 164 570	G1	6-3	2-0	100	5-0	5-0	2-4	100	2-8	SSC	TH		
CV2930	027 546 310	G1	6-3	2-0	100	5-0	5-0	2-5	200	2-5				
CV2931	021 010 310	D1	6-3	2-0	250	3-0	3-0	2-4	100	2-8	A08	TH		
CV2938	026 540 310		6-3	6-0	250	36	36	9-0	100	8-0	A08	D		
CV2940	026 540 310		6-3	7-0	250	72	72	14-5	100	10	A08	P		
CV2941	023 114 500	A1	6-3	14	250	275	72	8-5	100	8-0	SSC	P		
CV2942	023 104 560		6-0	5-0	250	250	0-095				SSC	TI		
CV2954	645 230 700	G1	2-0	0	150	50	2-1		150	60	B7	O		
CV2955	645 231 700	G1	4-0	4-0	90	90	2-0	1-0	100	90	B7	O		
CV2956	645 231 700	G1	13	3-0	90	75	2-0	1-3	80	75	B7	O		
CV2959	289 300 000	D1	2-5	2-0	200	75	2-6		200	2-5				
CV2966	230 232 032	D1	6-0	0	150	50	0-7		150	60	B7	O		
CV2967	200 300 000	D1	5-0	4-0	250	90	2-0	1-0	250	90	B7	O		
CV2968	427 116 340		6-3	3-0	250	120	6-0	3-3	REC	30mA	UX4	RR		
CV2970	544 231 761		6-3	2-0	150	125	15	5-8	REC	30mA	UX4	R		
CV2975	*41 23* 6*5		6-3	7-3	250	250	48	11-3	100	100	B9A	PP		
CV2977	642 300 000		2-0	1-0	150		2-5	0-8	100	0-8	B4	T		
CV2978	642 300 000		2-0	1-5	100		0-6	1-2	100	1-2	Sm4	T		
CV2979	000 231 600	G1	13	1-5	250	7-5	7-5	6-0	200	6-0	B7	T		

Ra = 2MΩ
See Note G

RESTRICTED

ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

TELECOMMUNICATIONS

Table 6—(contd)

Valve	Selector switch No	TC	Vf	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data			Base	Type	Remarks	
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts				mA/V
CV3533	206 080 930	G1	2.0	42	150		4.0	1.55	100		1.55	A08	DDT	
CV3534	040 231 600		13	8.0	200		25	4.2	100		4.2	B7	T	
CV3538	642 300 000		6.0	0	150			2.0	100		2.0	B4	T	
CV3541	642 300 000		6.0	0	400		62	2.3	250		2.3	B4	T	
CV3546	908 231 600	G1	4.0	4.0	250		4.0	2.2	150		2.2	B7	DDT	
CV3552	045 231 600		4.0	9.0	250		32	3.0	100		3.0	B7	P	
CV3553	542 310 000	A1	4.0	1.0	200		3.4	3.2	200		3.2	B5	P	
CV3561	542 310 000	A1	4.0	1.5	200		4.8	2.8	100		2.8	B5	P	
CV3562	041 231 500	A1	4.0	4.0	250		8.5	3.2	100		3.2	B7	P	
CV3565	216 040 530		4.0	22.5	250		0.23					M08	TI	Ra = 1MΩ See Note G
CV3567	002 300 000	D1	4.0				60					B4	R	
CV3570	232 300 100	D1	4.0				120					B4	R	
CV3571	041 231 500	A1	4.0	1.5	200		4.3	2.2	100		2.2	B7	P	
CV3572	061 231 500	G1	4.0	1.5	200		4.3	2.2	100		2.2	B7	P	
CV3573	642 300 000		6.3	12	350		45	4.2	100		4.0	B4	T	
CV3575	030 000 200	D1	2.5				15				10mA	A08	R	
CV3576	645 231 700	G1	4.0	1.0	150			0.6	150		0.6	B7	TH	
CV3577	414 752 360		26	3.0	250			1.4	250		1.4			
CV3578	642 350 000		2.0	4.5	40		5.5					A08	PP	
CV3582	061 231 500	G1	4.0	3.0	150		5.0	3.0	100		3.0	B5	P	
CV3593	021 415 360		6.3	3.0	250		11.5	2.0	100		2.0	B7	P	
CV3594	021 415 360		6.3	2.0	120		7.5	3.95	100		3.9	A08	P	
CV3601	020 000 310	A1 G1	6.0	2.0	120		7.5	4.0	100		4.0	A08	P	
CV3612	141 235 615		6.3	10.5	300		11	3.0	100		3.0	A08	T	
CV3613	106 052 430		6.3	12.5	250		27	3.1				B9A	P	
CV3616	142 354 600		6.3	36	300		58	4.3				A08	P	
				1.0	60		0.25	1.0	80		1.0	B7G	P	

CV3618	026 540 310	6-3	18	350	250	54	5-2	100	PenLF	5-2	A08	P
CV3619	021 415 360	6-3	3-0	250	100	3-0	1-65	100	100	1-6	A08	P
CV3620	642 300 000	2-0	7-5	150		6-0	3-0	100		3-0	B4	T
CV3621	642 300 000	4-0	12	150		8-0	1-5	100		1-5	B4	T
CV3622	642 300 000	6-0	0	150			2-28	100		2-28	B4	T
CV3623	642 300 000	4-0	90	400		200	10	100		9-0	B4	T
CV3626	045 231 600	4-0	14	250	275	72	8-5	100	PenLF	7-0	B7	P
CV3627	461 471 230	6-3	8-0	250		9-0	2-6	100		2-6	A08	TT
CV3630	216 540 030	4-0	11	300	275	70	10-6	100	PenLF	9-0	M08	P
CV3631	216 590 830	4-0	11	300	275	70	10-6	100	PenLF	9-0	M08	DDP
CV3633	642 350 000	2-0	2-5	125	125	5-0	3-6	100	100	3-6	B5	P
CV3634	045 231 600	4-0	0	250	250	72		100	PenLF		B7	P
CV3635	045 231 600	13	8-6	250	250	41	6-4	100	PenLF	6-0	B7	P
CV3638	005 231 600	4-0	5-0	250	250	40	9-1	100	100	8-0	B7	P
CV3641	642 300 000	2-0	1-5	150		2-3	1-2	150		1-2	B4	T
CV3642	642 300 000	2-0	6-0	125		3-0	0-9	100		0-9	B4	T
CV3643	642 300 000	2-0	6-0	150		5-0	2-0	100		2-0	B4	T
CV3645	642 300 000	2-0	5-0	150		2-3	1-05	100		1-0	B4	T
CV3647	642 350 000	2-0	4-5	150	150	5-6	2-2	100	100	2-2	B5	P
CV3648	642 350 000	4-0	40	300	300	83	3-9	100	150	3-9	B5	P
CV3649	642 350 000	2-0	10	150	150	15	1-3	100	100	1-3	B5	P
CV3650	641 227 413	6-3	4-0	250		3-0	1-75	100		1-7	B9A	TT
CV3651	021 415 360	12-5	1-0	250	150	10-8	4-9	100	150	4-9	A08	P
CV3652	045 231 600	26	7-0	250	250	36	9-0		No data available		B7	P
CV3656	642 350 000	4-0	0	150	150	15	2-0	100	100	2-0	B5	P
CV3658	401 235 100	12-5	25	250	200	40	2-0	100	100	2-0	B7	P
CV3666	041 986 230	12-5	9-0	250		9-5	1-9	100		1-9	A08	DDT
CV3668	126 642 340	12-5	0	100		27	4-5	100		4-5	A08	T
CV3680	200 300 000	5-0				120		REC		30mA	UX4	RR
CV3691	542 300 000	2-0	1-0	150	75	2-8	1-1	150	75	1-1	B4	P
CV3692	542 300 000	2-0	1-0	150	75	2-8	1-1	150	75	1-1	B4	P
CV3695	542 300 000	2-0	1-5	150	90	2-75	1-5	100	90	1-5	B4	P

Table 6—(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data					Tester, valve, Avo, No 1 data			Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV3696	542 300 000	A1	2-0	1-0	150	60	2-0	1-1	150	60	1-1	B4	P	
CV3697	471 461 230		12-5	8-0	250		9-0	2-6	100		2-6	A08	TT	
CV3699	021 415 360		6-3	3-0	250	100	3-0	1-65	100	100	1-6	A08	P	
CV3702	542 300 000	A1	2-0	1-5	150	75	2-7	1-0	100	75	1-0	B4	P	
CV3703	061 231 500	G1	4-0	2-4	250	250	4-0	3-4	100	100	3-4	B7	P	
CV3704	061 231 500	G1	13	2-2	200	200	2-5	2-8	100	150	2-8	B7	P	
CV3705	471 461 230		6-3	2-0	250	250	2-3	1-6	150		1-6	A08	TT	
CV3711	412 36* 500		6-3	5-5	250	250	35	10	100	150	9-0	B7G	P	
CV3721	123 000 000	D1	4-0						D			B3G	D	
CV3723	216 040 030		4-0		100		30	2K01W	No data available			M08	—	Thyatron
CV3726	682 390 000	G1	2-0	1-5	150		1-95	1-2	125		1-2	B5	DDT	
CV3727	908 231 600	G1	4-0	7-0	250		4-0	2-0	100		2-0	B7	DDT	
CV3734	028 090 310		6-3				30		REC		15mA	A08	RR	
CV3735	207 640 530	G1	2-0	1-0 1-0	125 125	75	2-2 1-5	1-3 1-5	125 125	75	1-3 1-5	M08	TP	
CV3743	892 300 000		5-0				15		REC		12mA	B4	RR	
CV3746	892 300 000		4-0				60		REC		20mA	B4	RR	
CV3747	802 300 000		6-3				120		REC		30mA	B4	R	
CV3748	300 200 000	D1	2-5				5-0		D			UX4	R	
CV3750	200 000 030	D1	2-0						D			M08	D	
CV3751	002 300 000	D1	2-0				5-0		REC		5mA	B4	R	
CV3752	391 221 800		13				60		REC		20mA	B7	RR	
CV3753	020 050 310		26				120		REC		30mA	A08	R	
CV3754	020 908 030		5-0				60		REC		30mA	A08	RR	
CV3755	471 461 230		6-0	2-0	250		2-3	1-6	200		1-6	A08	TT	
CV3758	091 231 800		30				60		REC		20mA	B7	RR	
CV3759	892 300 000		4-0				60		REC		20mA	B4	RR	

CV	892 300 000	208 090 030	642 300 000	041 230 500	602 310 000	000 231 600	642 300 000	216 510 030	218 090 130	216 540 030	041 231 500	041 231 500	041 231 500	041 230 500	041 231 500	602 441 443	061 231 500	041 230 500	206 510 030	041 230 500	041 230 500	542 300 000	061 231 500	542 300 000	542 300 000	542 300 000	041 230 500	041 230 500	041 231 500	041 231 500	642 314 600	254 130 000	560 231 890	289 300 000
CV	3760	3761	3762	3765	3766	3767	3768	3769	3772	3778	3785	3786	3787	3788	3789	3790	3791	3792	3793	3794	3795	3796	3800	3802	3803	3804	3805	3806	3808	3809	3810	3815		
	4.0	4.0	2.0	6.0	4.0	4.0	4.0	2.0	4.0	4.0	4.0	4.0	2.0	4.0	6.0	13	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	13	6.3	13	2.5			
	0	0	5.0	4.8	0	85	0	0	2.0	2.0	2.0	2.0	1.0	2.0	1.5	2.0	1.0	1.5	1.5	1.5	1.0	2.8	2.5	1.0	1.0	1.0	1.0	3.0	12.5	1.0				
	150	400	250	250	250	400	250	275	275	250	250	250	150	200	150	200	150	150	125	125	125	150	250	125	150	150	150	80	300	250				
	60	60	14	6.0	100	150	65	275	275	100	100	100	150	200	60	200	60	60	60	60	60	75	200	60	75	75	75	100	150	100				
	1.5	3.0	2.3	1.7	4.5	2.0	11	2.2	2.2	2.7	2.7	2.7	1.5	2.3	2.4	2.2	1.1	1.1	1.0	0.82	0.82	1.25	2.0	1.4	1.5	1.5	1.5	4.0	6.5	2.6				
	REC	REC	150	100	100	100	100	100	100	100	100	100	100	100	100	200	150	150	100	100	100	150	100	100	100	150	150	80	100	250				
	PenLF	150	100	100	100	150	PenLF	200	60	60	60	60	100	100	100	200	100	60	60	60	75	100	60	60	75	75	250	90	PenLF	100				
	20mA	20mA	1.5	3.0	2.3	1.7	10	2.2	2.2	2.7	2.7	2.7	1.5	2.3	2.4	2.2	1.1	1.1	1.0	0.8	0.8	1.25	2.0	1.4	1.5	1.5	4.0	6.0	2.6					
	B4	M08	B4	B7	B5	B7	M08	M08	M08	M08	B7	B7	B7	B7	B7	B9A	B7	B7	M08	B7	B7	B4	B7	B4	B4	B4	B7	B7	B7G	UX5	B9			
	RR	RR	T	P	T	T	DD	P	P	P	P	P	P	P	T	P	P	P	P	P	P	P	P	P	P	P	P	T	P	DDP	RR			

Table 6--(contd)

Valve	Selector switch No	TC	Vf	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data				Base	Type	Remarks	
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V				
CV3816	645 230 600	G1	2-0	0	150	75				100	75		B7	H	
CV3817	645 230 600	G1	2-0	0	150	75				100	75		B7	H	
CV3818	645 320 600	G1	2-0	0	150	75				100	75		B7	H	
CV3819	645 231 700	G1	2-0	0	100	60	2-1	0-7	100	100	60		B7	TH	
CV3820	645 231 700	G1	2-0	0	150	60	2-1	0-7	100	100	60		B7	TH	
CV3821	645 231 700		13	0	150	75	2-2	2-3	100	100	75		B7	TH	
CV3822	645 231 700		13	0	150	75	2-2	2-3	150	100	75		B7	TH	
CV3823	645 231 700	G1	4-0	6-0	150	75	5-0	1-4	150	150	1-8		B7	TH	
CV3825	026 545 310	G2	6-0	3-0	250	100	6-0	1-6	100	100	1-6		A08	H	
CV3826	027 546 310	G1	6-3	1-0	100	100	8-0	2-5	100	100	1-0		A08	TH	
CV3827	026 985 310	G1	12-5	3-0	250	125	10	1-32	100	100	1-3		A08	DDP	
CV3828	027 546 310	G1	6-0	1-0	100	100	8-0	2-5	100	100	1-3		A08	TH	
CV3829	265 413 000		10	18	175	175	14-5	1-05	100	100	1-05		LX6	P	
CV3830	642 300 000		1-5	0	50		0-45	0-5	60		0-5		B4A	T	
CV3831	642 300 000		2-0	1-0	50		1-0	0-84	No data available				Sm4	T	
CV3832	642 300 000		2-0	4-5	75		4-0	1-0	80		1-0		Sm4	T	
CV3833	542 300 000	A1	2-0	0	50	30	0-6	0-4	No data available				Sm4	P	
CV3834	251 630 000	G1	2-0	1-0	50	50	0-95	0-6	No data available				Sm5	P	
CV3835	542 300 000	A1	2-0	1-6	150	125	2-5	1-7	150	100	1-7		B4	P	
CV3836	542 300 000	A1	2-0	1-0	150	125	2-5	1-7	150	100	1-7		B4	P	

CV3837	041 230 500	A1	2.0	1.0	150	125	2.5	1.7	150	100	1.7	B7	P
CV3838	026 510 310	G1	6.3	2.0	300	150	10	7.5	100	125	7.5	A08	P
CV3839	026 510 310	G1	6.3	1.5	200	200	10.9	8.5	100	150	8.0	A08	P
CV3841	261 514 130		6.3	1.8	200	200	10	9.0	100	PenLF	8.0	B8A	P
CV3881	201 908 130		6.3				5.0		D			B8A	RR
CV3882	264 098 130		6.3	3.0	250		1.0	1.3	150		1.3	B8A	DDT
CV3883	238 154 130		6.3	2.0	250	100	5.0	1.8	100	100	1.8	B8A	DP
CV3884	274 164 130		6.3	5.2	250		6.0	2.7	100		2.7	B8A	TT
CV3885	26* 145 130		6.3	2.0	250	150	3.0	1.8	100	150	1.8	B8A	P
CV3886	261 154 130		6.3	2.5	250	100	6.0	2.2	100	100	2.2	B8A	P
CV3887	260 154 130		6.3	2.0	250	250	10	9.5	100	PenLF	8.0	B8A	P
CV3888	276 454 130		6.3	2.0	100	100	5.0	2.2	100		2.8	B8A	TH
CV3889	120 540 310	A1	6.3	7.0	250	250	3.0	2.0	100	100	3.5	B8A	TH
CV3890	261 054 130		6.3	10	225	225	26	3.2	100	PenLF	3.2	B8A	P
CV3891	280 *09 130		6.3				30	10	100	PenLF	8.0	B8A	P
CV3892	*8 **9 230		4.0				30	3.2	REC		15mA	B8A	RR
CV3894	642 113 470		6.3	0	100		8.0	4.8	100		4.8	M08	TT
CV3899	026 540 310		6.0	14	250	250	72	6.0	100	PenLF	5.2	A08	P
CV3900	741 226 413		6.0	0	75		8.0	2.8	80		2.8	B9A	TT
CV3905	402 106 053		6.0	2.0	150	150	13	12.5	150	150	12	B9A	P
CV3908	412 365 100		6.3	1.0	250	150	7.4	4.6	100	100	3.4	B7G	P
CV3909	412 365 100		6.3	1.0	250	100	9.2	3.6	100	100	3.6	B7G	P
CV3912	265 804 300		1.4	0	75	75	1.6	0.62	80	75	0.6	B7G	DP
CV3916	381 280 000		6.0				5.0		D			B5A	D
CV3919	209 008 130		6.3				30		REC		15mA	B8B	RR
CV3924	021 415 360		6.0	2.0	300	150	10	9.0	100	100	8.0	A08	P
CV3927	027 546 310	G1	12.5	1.0	100		8.0	2.5	100		3.0	A08	TH
CV3928	412 163 510		6.0	3.0	100	100	4.0	1.2	100	100	1.6	B8D	P
CV3929	412 163 510		6.0	1.4	100	100	7.0	5.0	100	100	5.0	B8D	P
CV3930	412 013 060		6.0	2.0	100		13	5.5	100		5.5	B8D	T

Table 6--(contd)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data					Tester, valve, Avo, No 1 data			Base	Type	Remarks
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts	mA/V			
CV3931	412 163 510		26	1.5	100	100	7.5	5.0	100	100	5.0	A08	P	
CV3932	402 013 060		6.0	2.7	100		10	4.5	100		4.5	B8B	T	
CV3935	265 104 130		12.5	3.0	250	100	9.2	2.0	100	100	2.0	B8B	P	
CV3936	276 454 130		12.5	1.0	100	200	4.8	1.4	100	100	1.6	B8B	TH	
CV3937	269 854 130		12.5	2.0	250	100	4.0	2.0	100	100	2.0	B8B	DDP	
CV3942	471 461 230		6.0	1.0	250	100	6.2	3.4	100	100	3.4	B8B	DDP	
CV3943	028 090 310		6.0	9.0	250		6.5	2.2	100		2.2	A08	TT	
CV3961	642 113 470		6.0	1.9	100		30		REC		15mA	A08	RR	
CV3963	021 010 030	D1	6.0	1.9	100		8.5	5.0	100		5.0	B8B	TT	
CV3970	641 227 413		6.0	2.0	250		5.0		D		5.0	A08	R	
CV3972	412 365 400		6.0	12.5	250	250	1.3	1.6	100	100	1.6	B9A	TT	
CV3973	021 415 360		6.0	2.0	300	150	45	4.1	100	PenLF	4.0	B7G	P	
CV3974	471 461 230		6.0	31.5	150		10	9.0	100	100	8.0	A08	P	
CV3978	120 415 360		6.0	3.0	300	150	125	7.0	100	100	7.0	A08	TT	
CV3980	041 986 230		12.5	9.0	250		30	11	100	100	10	A08	P	
CV3983	041 986 230		12.5	9.0	250		9.5	1.9	100	100	1.9	A08	DDT	
CV3985	461 471 230		6.0	2.0	250		9.5	1.9	100	100	1.9	A08	DDT	
CV3986	642 113 470		6.0	1.0	100		2.3	1.6	150		1.6	A08	TT	
CV3989	642 314 600		6.0	1.3	200		6.5	5.5	100	100	5.0	B8D	TT	
CV3990	125 141 300	A1	6.0	20	200		13	1.0	100	100	1.0	B7G	T	
CV3994	8** 230 **8		0.625	20	200		20	3.5	100	75	3.5	A08	P	
CV3995	412 365 100		6.0	1.0	125		13	8.0	100	150	6.0	B9A	D	
CV3996	8*1 23* 9**		6.0	1.0	200		60		D			B9A	P	
CV3998	141 23* 615		6.0	1.0	150		13	16.5	REC		20mA	B9A	RR	
CV4001	902 308 100		6.3		200		30		No data available			B9A	P	
CV4002	412 361 500		6.3	2.0	250		10	7.5	No data available			Special RR	P	See Note H
									No data available			Special P		See Note H

Note: This issue, Pages 71 to 91, supersedes Issue 1, Pages 71 to 92 dated 23 May 58.

CV4003	741 226 413	6.3	8.5	250	10.5	2.2	No data available	B9A	TT	See Note H
CV4004	741 226 413	6.3	2.0	250		1.6	No data available	B9A	TT	See Note H
CV4005	802 309 100	6.3			30			B7G	RR	
CV4006	041 230 651	6.3	3.0	250	2.0	1.22	100	B9A	P	
CV4007	192 310 800	6.3			5.0			B7G	RR	
CV4008	402 013 060	6.3	1.0	100	0.7	1.7	100	B8D	T	
CV4009	412 365 100	6.3	1.0	250	11	4.4	100	B7G	P	
CV4010	412 365 100	6.3	2.0	125	7.5	5.0	100	B7G	P	
CV4011	412 365 100	6.3	2.0	125	5.5	3.5	100	B7G	P	
CV4012	412 366 400	6.3	2.0	100	11	7.0	100	B7G	H	
CV4013	214 607 413	6.3	2.0	150	8.2	5.5	125	B9A	TT	
CV4014	412 361 500	6.3	2.0	250	10	7.5	150	B7G	P	
CV4015	412 361 500	6.3	2.5	250	8.25	2.45	No data available	B7G	P	See Note E
CV4016	741 226 413	6.3	8.5	250	10.5	2.2	100	B9A	TT	
CV4017	741 226 413	6.3	3.0	250	1.0	1.2	150	B9A	TT	
CV4018	412 316 100	6.0		400	50	6.2	No data available	B7G	Thyatron	
CV4019	412 365 400	6.3	12.5	250	45	4.0	150	B7G	P	
CV4021	320 200 000	2.5			30			UX4	R	
CV4022	6*2 364 100	6.3	8.5	250	10.5	1.2	100	B7G	T	
CV4023	412 365 100	6.3	1.0	250	10.6	5.2	150	B7G	P	
CV4024	741 226 413	6.3	8.5	250	10.5	2.2	100	B9A	TT	
CV4025	192 310 800	6.3			5.0			B7G	RR	
CV4026	020 908 030	5.0			60			A08	RR	
CV4027	020 908 030	5.0			60			A08	RR	
CV4029	412 163 510	6.0	6.5	100	30	4.2	No data available	A08	P	
CV4031	762 344 100	6.3	3.0	150	5.0	4.5	100	B8A	TT	
CV4032	741 226 413	6.3	8.5	250	10.5	2.2	100	B9A	TT	
CV4033	741 226 413	6.3	8.5	250	10.5	2.2	No data available	B9A	TT	See Note H
CV4034	741 226 413	6.3	8.5	250	10.5	2.2	No data available	B9A	TT	See Note H
CV4035	741 226 413	6.3	2.0	250	1.2	1.6	No data available	B9A	TT	See Note H
CV4036	001 230 000	6.3			120			B9A	R	See Note H
CV4039	601 235 144	6.0	7.5	250	4.5	7.0	150	B9A	P	
CV4040	412 361 500	6.3	2.0	150	4.6	6.0	No data available	B7G	P	
CV4041	412 361 500	6.3	2.0	150	4.6	6.0	No data available	B7G	P	See Note H
CV4042	111 311 100	4.0		60	80		No data available	B7G	R	See Note H
CV4043	441 230 651	6.3	13	300	34	3.7	150	B9A	P	

Table 6 - (cont.)

Valve	Selector switch No	TC	VF	CT 160 and Tester, valve, Avo, No 3 data				Tester, valve, Avo, No 1 data			Base	Type	Remarks	
				Neg grid volts	Anode volts	Screen volts	Ia mA	mA/V	Anode volts	Screen volts				mA/V
CV4044	001 230 000	D1	6.3	13	300	225	120	34	3.7	REC	30mA	B9A	R	See Note H
CV4045	441 230 651		6.3	1.4	250	150	30	3.9	3.9	No data available		B9A	P	
CV4046	241 657 143		6.3							100	100	B9G	PP	
CV4049	192 310 800		6.3							D		B7G	RR	See Note H
CV4050	412 365 100		6.3	2.0	125	125	5.0	5.0	5.0	No data available		B7G	P	See Note H
CV4051	741 226 413		6.3	3.75	150	125	7.5	1.5	1.3	No data available		B9A	TT	See Note H
CV4055	*41 230 651		6.3	4.5	250	250	40	40	11	100	150	B9A	P	
CV4056	*41 230 651		6.3	4.5	250	250	40	40	11	No data available		B9A	P	See Note H
CV4057	111 311 100	A1	4.0		60		80			No data available		B7G	R	
CV4058	602 364 100		6.3	8.5	250		10.5		2.2	100		B7G	T	
CV4059	812 314 600		6.3	2.8	200		7.5		2.8	100		B7G	DT	
CV4061	203 000 000	D1	1.4							D		B3G	R	
CV4062	412 368 500		6.3	0	175	175	55	9.5	9.5	100	100	B7G	P	
CV4063	412 360 500		6.3	13.5	250	250	16	2.6	2.6	100	PenLF	B7G	P	
CV4064	412 361 500		6.3	4.0	200	200	5.8	3.5	3.5	100	100	B7G	P	
CV4065	412 368 500		6.3	0	175	175	55	9.5	9.5	No data available		B7G	P	See Note H
CV4067	412 163 510		6.3	9.0	100	100	31	2.2	2.2	No data available		B7G	P	See Note H
CV4068	741 226 413		6.3	4.6	250	250	6.0	2.3	2.3	100		B9A	TT	
CV4069	741 226 413		6.3	4.6	250	250	6.0	2.3	2.3	No data available		B9A	TT	
CV4070	412 314 600		6.0	2.0	250		6.0		8.5	200		B7G	T	See Note H
CV4071	020 000 030	D1	4.0				30			REC		B7G	T	
CV4501	402 163 510		6.0	1.4	100	100	7.0	5.0	5.0	100	100	A08	R	
CV4502	412 653 160		6.0	2.0	100	100	7.5	5.5	5.5	100	100	B8D	P	
CV4504	281 380 000		6.0				5.0			D		B8D	P	
CV4505	082 813 080		6.0				30			REC	15mA	B8D	R	
CV4506	412 163 510		6.0	2.0	100	100	13	5.5	5.5	100	100	B8D	P	
CV4507	412 163 510		6.0	9.0	100	100	31	2.2	2.2	100	90	B8D	P	
CV4508	412 163 510		6.0	2.0	100	100	3.0	2.5	2.5	100	100	B8D	P	
CV5005	812 093 100		6.0				5.0			D		B8B	RR	
CV5006	642 113 470		6.0	1.0	100	100	6.5	5.4	5.4	100		B8D	TT	
CV5007	642 113 470		6.0	1.4	150		1.75	2.5	2.5	100		A08	TT	
CV5008	471 461 230		6.0	30	100			7.0	7.0	No data available		A08	TT	
CV5009	800 230 109		6.0							REC		B9A	RR	

CV5021	080 230 808	C	6.0	3.0	250	100	120	1.22	REC	30mA	B9A	R
CV5027	265 113 000	G1	2.5	1.5	150	15	12	100	100	1.2	UX6	P
CV5029	412 344 600		6.0						100	10	B7G	T
CV5030	801 229 013	D2	1.25			30			REC	15mA	B9A	RR
CV5032	230 232 032		6.0	4.0	100	15	6.6	80	D	6.0	B9A	R
CV5036	642 314 800		6.0	1.0	250	11	4.5	100	100	4.0	B7G	T
CV5037	412 365 100		6.0	1.5	150	14.5	10	100	100	10	B8A	T
CV5038	642 314 460		6.0	9.0	250	40	6.2	100	100	6.0	A08	TT
CV5039	471 461 230		6.0	22.5	250	57	5.9	100	100	5.0	A08	P
CV5040	020 540 310	A1	6.0	3.0	250	30	11	No data available	No data available	4.0	B9A	P
CV5041	145 236 154		6.0	10.5	250	11.5	3.1	100	100	3.0	B9A	TT
CV5042	741 226 413		6.0	2.3	100	4.8	3.4	100	100	5.0	B7G	TT
CV5046	672 244 100		6.0	22.5	250	77	5.4	100	100	5.0	A08	P
CV5053	106 052 430		6.0	10.5	250	20	0.37	No data available	No data available	7.0	B9A	TT1
CV5055	41* 23* 9*5		6.0	2.0	250	18	8.5	100	100	5.0	B9A	P
CV5060	141 023 651		6.0	1.0	150	10	5.2	150	100	5.0	B9A	TP
CV5065	645 237 114		6.3	1.0	250	10.8	4.9	REC	REC	30mA	A08	P
CV5067	021 415 360		6.0	1.0	200	60	9.8	100	100	6.0	B9A	RR
CV5072	8*1 23* 9**		6.0	3.0	100	20	7.5	100	100	7.0	B7G	T
CV5073	414 464 234		6.0	28	200	30	6.0	100	100	6.0	B9A	P
CV5074	642 314 800	A1	21.5	2.0	250	64	11	100	100	1.5	A08	P
CV5077	041 231 551		6.3	10.5	250	64	11	100	100	9.0	A08	P
CV5080	026 510 310	G1	6.0	10.5	250	2.0	1.25	100	100	1.2	B9A	P
CV5081	520 604 310	A1	6.0	3.0	250	10	7.2	100	100	5.0	B9A	P
CV5086	001 230 651		6.3	2.0	175	36	10	100	100	6.0	B9A	P
CV5092	141 230 651		6.3	3.5	200	70	10	100	100	9.0	B9A	P
CV5093	541 231 600		6.3	12.5	175	6.0	2.2	100	100	2.0	A08	P
CV5094	*21 23* 9*5		6.0	2.5	250	5.0	2.2	100	100	2.5	A08	P
CV5110	026 510 310	G1	6.0	3.0	100	2.9	2.5	75	100	2.0	B9A	TH
CV5115	541 237 46*		19	1.0	300	50	27	No data available	No data available		B8B	T

Ra = 0.5M²

See following page for 'Notes'.

Note:- INTERNAL CONNECTION (*)

When the symbol * appears among the selector switch set-up figures, it indicates that an unknown electrode may be connected to this pin internally. To obtain the complete selector switch coding, test with an ohmmeter between the pin marked * and all others. (The ohmmeter should be on a sufficiently low range to discriminate between a dead short and a filament resistance). Dependent on the electrode to which this pin is internally connected the correct code can be set up and normal test procedure followed.

NOTES REFERRED TO IN VALVE DATA REMARKS COLUMN

- A. The heater/cathode lead identified with the red marking should be connected to Pin No 1.
- B. The grid top cap is situated over Pins No 7 and 8.
- C. This valve does not fit special valveholders supplied, and Roller Selector Data will depend on connections made to the valve electrodes.
- D. Pin No 1 on the flat pinch type of base is the lead adjacent to the coloured blob which identifies the anode connections, the remaining pins being numbered across the base from Pin No 1.
- E. Alternative test figures are given for use when the valve shows signs of back emission from anode to G3. This phenomenon can be recognized by the anode current apparently decreasing as the valve heats.
- F. Valves on the B8D base when the leads are cut, should be tested either by insertion in a B8D adaptor, or leads lengthened and tested in the same way as those with flexible leads, by using the special 9 clip valveholder.
- G. Tests on tuning indicators should not be made until the resistor value (Ra), indicated in the remarks column, has been inserted across the link(s) on the valve panel.
- H. Use special 9 clip valveholder.
- J. The grid top cap is situated over Pins No 4 and 5.
- K. Where the figures in the Vf column appears in brackets, the HEATER VOLTS control should be set to that figure to ensure the correct working voltage on the pins of the valve.

Table Z - Table of equivalents

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
AC/HL	CV2811	AZ31	CV2862	DAC32	CV1818
AC/HL Met	CV2812	AZ32	CV2861	DAF70	CV2104
AC/HLDD	CV2813	AZ41	CV3892	DAF91	CV784
AC/P	CV2815	A40	CV2800	DA30	{ CV563
ACPT	CV2818	A901	CV1732		{ CV1178
	{ CV207	A915	CV1462		{ CV1769
ACP4	{ CV1190	A915 Met	CV2803	D/41	CV1076
	{ CV1198	A915 Met	CV2804	DA90	CV753
ACSG	CV2822	A924	CV2805	DC2P	CV1735
AC/SP1	CV2820	A1065	CV1343	DC70	CV2275
AC/SP3	CV2823	A1714	CV408	DC80	CV2172
AC/SP3RH	CV1430	A1820	CV409	DCC90	CV808
ACT6	{ CV1022	A2134	CV2179	DDL4	{ CV1119
	{ CV2825	A4229	CV824		{ CV1691
AC/TH1	CV2830	BL63	CV1102	DDL5	CV1190
AC/TP	CV1718	BR1	CV692	DDL11	CV1691
AC/VP1	CV518	B21	{ CV1696	DDL13	CV1695
AC/VP2	CV2832		{ CV2864	DDRIR	CV138
AC2/HL	CV2806	B30	CV2865	DDR2	{ CV173
AC2/HL Met	CV2807	B65	CV278		{ CV296
AC/2 Pen	CV2808	B329	CV491	DDR3	CV135
AC/2 Pen DD	CV519	B339	CV492	DDR7	CV136
AC/4 Pen	CV1326	B406	{ CV1311	DDR25	CV139
AC/5 Pen	CV2809		{ CV1664	DDR26	CV137
AC/6 Pen	CV1189	CBL31	CV1463	DDT	CV2813
AC/5 Pen DD	CV1196	CE72	CV709	DDT Met	CV2890
	{ CV1282	CE230	CV812	DD41	CV1403
AC/S2 Pen	{ CV1674	CK502K	CV385	DD620	CV2889
AF3	CV2833	CK505AX	{ CV386	DET5	{ CV384
AL60	CV9		{ CV443		{ CV1223
APP4C	{ CV1684	CK506AX	CV387	DET12	CV1288
	{ CV1685	CK1005	CV2874	DET18	CV419
	{ CV1329	CL4	CV2875	DET19	{ CV18
APP4G	{ CV2836	CL33	CV1401		{ CCV1061
	{ CV2837	CY31	CV1402	DET20	{ CV6
ARP12T	CV2841	C144	CV2666		{ CV1135
AZ1	CV2860	C180	CV788	DET22	CV273
AZ2	CV2861	DAC1	CV2887	DET23	CV352

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Table 7 - (contd)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
DET25	CV1025	DL95	CV818	ECC33	CV2821
DE5	CV2891	DL98	CV2240	ECC35	CV569
DF1	CV2907	DL620	CV2238	ECC40	CV3884
DF33	CV1821	DT70	CV798	ECC81	CV455
DF60	CV2254	DW4/350	CV1796	ECC82	CV491
DF61	CV2371	DW4/500	CV1064	ECC83	CV492
DF62	CV2237	DY70	CV2241	ECC91	CV858
DF63	CV2433	D1	CV1078	ECH3	CV2929
DF64	CV2260	D2	CV2778	ECH22	CV302
DF66	CV2107		{ CV1170	ECH33	CV2930
DF70	{ CV386	D41	{ CV1187	ECH35 Met	CV1347
	{ CV443		{ CV557	ECH35	CV1581
DF72	CV2101	D42	{ CV1302	ECH42	CV3888
DF73	CV2103		{ CV554	ECH81	CV2128
DF91	CV785	D63	{ CV1301	EC3 1	CV1433
DF92	CV1758	D77	CV140	EC52	CV1137
DH63	CV587		{ CV1686		{ CV330
DH73M	CV2909	D418	{ CV1687	EC53	{ CV1197
DH77	CV452	EAC91	CV137	EC54	CV66
DK1	CV2910	EAF42	CV3883		{ CV468
DK32	CV1800	EA50	CV1092	EC70	{ CV2855
DK91	CV782		{ CV469		{ CV4507
DL	CV1661	EA76	{ CV4504	EC80	CV1886
DL2	CV2911		{ CV1428	EC81	{ CV1865
DL33	CV819	EBC3	{ CV1715		{ CV1888
DL35	CV1803	EBC21	CV347	EC90	CV133
DL63	CV2912	EBC33	CV1055	EC91	{ CV417
DL66	{ CV2106	EBC41	CV3882		{ CV2009
	{ CV2288	EBC90	CV452	EF8	{ CV1173
DL69	CV2361	EBF2	CV2925		{ CV1213
DL70	CV2105	EBF32	CV501	EF9	{ CV1427
DL71	CV385	EBL31	CV2926		{ CV1714
DL72	CV387	EB34	CV1054	EF22	CV303
DL73	CV2299	EB41	CV3881		{ CV1056
DL75	CV2102		{ CV140	EF36	{ CV1404
DL91	CV783	EB9 1	{ CV2004	EF37	CV358
DL92	CV820		{ CV2005	EF37A	CV358
DL93	CV807	ECC31	CV1285		{ CV1053
DL94	CV2983	ECC32	CV181	EF39	{ CV1464
					{ CV5110

Table 7 - (contd)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
EF40	CV3885	EK90	CV4012	EZ35	CV574
EF41	CV3886	EL2	CV1429	EZ40	CV3891
EF42	CV3887	EL22	CV304	EZ80	CV1535
EF50	{ CV1091	EL31	CV2888	EZ81	CV5072
	{ CV1578	EL32	CV1052	EZ90	CV493
EF51	CV305	EL33	CV2938	E80F	CV2729
EF52	CV327	EL34	CV1741	E420	CV1668
	{ CV380	EL35	CV1286	E960	CV1058
EF54	{ CV1136	EL36	CV2940	E1046	CV1090
	{ CV2006	EL37	CV586	E1148	{ CV1135
EF55	{ CV2015	EL38	CV450		{ CV2920
	{ CV173	EL41	CV3889	E1192	{ CV1002
	{ CV296	EL42	CV3890		{ CV1501
	{ CV467	EL50	CV2941	E1320	C51
EF70	{ CV4508	EL70	CV471	E1323	CV63
	{ CV475	EL81	CV2721		{ CV124
EF71	{ CV4506	EL83	CV2726	E1326	{ CV229
EF72	CV4501	EL84	CV2975		{ CV266
	{ CV466	EL85	CV3526		{ CV267
EF73	{ CV4502	EL86	CV5094	E1416	CV281
	{ CV472		{ CV136	E1371	CV105
EF74	{ CV4503	EL91	{ CV2002	E1468	CV172
EF80	CV2729		{ CV2003	E1474	CV78
EF86	CV2901			E1489	CV222
	{ CV138	EL803	CV5093	E1511	CV354
	{ CV1955	EL821	CV2127	E1524	CV338
EF91	{ CV2000	EL822	CV2382	E1541	CV1716
	{ CV2001	EM4	CV1434	E1606	CV278
	{ CV2025	EM31	CV1077	E1956	CV261
	{ CV2195	EM34	CV394	E2014	CV2115
EF92	{ CV131	EM35	CV1103	E2134	CV2179
	{ CV2023	EM80	CV1352	E2214	CV2235
	{ CV454	ESU74	CV74	E2266	CV2231
EF93	{ CV4009	ET30	CV1030	E2314	CV2180
EF94	CV2524	EY51	CV426	FC2A	CV2954
EF95	CV850	EY70	CV473	FC4	CV2955
EF800	CV5092	EY77	CV4505	FC13C	CV2956
EK2	CV1426	EY84	CV2235		{ CV31
	{ CV1057	EY91	CV135	FW4/500	{ CV1264
EK32	{ CV1570	EZ22	CV346		

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Table 7 - (contd.)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
FVD7	CV404	HL610	CV3501		{ CV321
F/2726	CV4049		{ CV1670	KT66	{ CV1075
F/5654	CV4050	HL1320	{ CV3502		{ CV1730
F/6057	CV4035	HL1320DD	CV3503	KT67	CV437
F/6060	CV4033		{ CV409	KTW61	CV1281
F/6061	CV4045	HR7	{ CV4071		{ CV1100
F/6062	CV4034	HVR2	CV1134	KTW62	{ CV1729
F/6132	CV4056	HVR2A	CV1291	KTW63	CV1195
F/6158	CV4051	HY615	CV3506	KTW73M	CV3527
GL446A	CV932	H2	CV2977		{ CV1191
GL446B	CV687	H12	CV2978	KTZ41	{ CV3529
GL464A	CV688	H30	CV2979	KTZ63	CV1074
GL8020	CV2967	H42	CV1182	KTZ73	CV1343
GZ30	CV2748	H63	CV1073	KTZ73M	CV3530
GZ32	CV593	H410	CV2981	KTZ737	CV3530
GZ33	CV378	H610	CV2982	LD210	CV502
GZ34	CV1377	IW4/350	CV1039	LL2	CV1732
HA2	CV1171		{ CV1039		{ CV548
HD24	CV2985	IW4/500	{ CV1289	LP2	{ CV1166
HK54	CV1754		{ CV1310		
HK257	CV824	KC1	{ CV1653	LP2 Selected	CV1304
	{ CV1436	KK2	CV3516		{ CV1636
HL2	{ CV1673	KT2	CV1118	LS5	{ CV1637
HL2 Met	CV2991	KT8C	CV1079		{ CV2845
	{ CV1050	KT24	CV1334		{ CV1647
HL2K	{ CV1436	KT30	CV3519	LS5B	{ CV2846
HL2K Met	CV1673	KT31	CV3520	LS5X	CV1667
	{ CV1130		{ CV1287	LS6A	CV3541
HL23	{ CV1586	KT32	{ CV1502	LS7	CV1660
	{ CV1306	KT33C	CV1503	LS8	CV1656
HL23DD	{ CV2995		{ CV1181	LS8A	CV1676
	{ CV24	KT41	{ CV1339	LS9B	CV1658
HL41	{ CV1406		{ CV1437	L2	CV3531
HL41DD	CV2996	KT44	{ CV1577	L21	CV3532
HL92	CV1959	KT44T	CV1576	L21DD	CV1308
HL133	CV2998	KT45	CV1825	L22DD	CV3533
HL133DD	CV2999	KT61	CV1438	L30	CV3534
HL210	CV3500	KT63	CV1186	L63	CV1067
HL210A	CV1303				CV1933

Table 7 - (contd)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
L410	CV1152	M8082	CV4063	Pen B4	CV3626
L610	CV3538	M8091	CV4044	Pen 4DD	CV519
ME41	{ CV1359 CV3565	M8096	CV4039	Pen 4VA	CV1174
MH4 Met	CV399	M8097	CV4059	Pen 25	CV65
MH4	CV1037	M8099	CV4070	Pen 36C	CV1672
MH41	{ CV1505 CV1678	M8136	CV4003	Pen 44	CV3630
MHD4	{ CV1182 CV3546	M8137	CV4004	Pen 45	CV1407
MHL4	{ CV1038 CV1692 CV1732	M8140	CV4002	Pen 45DD	CV3631
MHLD6	CV1101	M8144	CV4033	Pen 46	CV1127
ML4	CV1732	M8149	CV4034	Pen 220A	CV1051
ML6	CV1105	M8157	CV483	Pen 231	CV3633
MP Pen	CV1683	M8161	CV4015	Pen 383	CV1456
MPT4K	CV3552	M8162	CV4024	Pen 428	CV3634
MS4	CV1164	M8167	CV4067	Pen 1340	{ CV1327 CV3635
MS4B (B4 Base)	CV3553	M8180	CV4050	PL81	CV5077
MSP4	CV1341	M8196	CV4011	PM1 HF	CV1303
MSP41	CV3562	M8204	CV4018	PM1 HL	CV3641
MS Pen (B5 Base)	{ CV244 CV3561	M8212	CV4007	PM1 LF	CV3642
MS Pen (B7 Base)	CV1124	M8214	CV4035	PM2	CV1019
MS Pen B	CV1125	M8232	CV5029	PM2A	{ CV2977 CV3643
MS Pen T	{ CV1129 CV1879	M8237	CV4049	PM2BA	CV1163
MU1	CV3567	M8245	CV4019	PM2DX	CV3645
MU2	{ CV1279 CV1459	N43	{ CV1188 CV1675	PM2HL	CV1050
MU4-250	CV3570	N78	CV3711	PM4DX	CV1152
MU12/14	CV1039	O9	CV2725	PM12M	CV1041
MU14	CV1296	OA2	CV1832	PM12V	CV1319
MVS Pen	CV3571	OA2WA	CV4020	PM14	{ CV1158 CV1159
MVS Pen B	CV3572	OA4	CV752	PM22	CV3649
MX40	CV3576	OA85	CV1354	PM22A	CV3647
MZO5-20	{ CV1361 CV3573	OB2	CV1833	PM22D	CV3578
		OB2WA	CV4028	PM24A	CV1167
		OB3	CV3799	PM24D	{ CV1237 CV1238
		O1A	CV750	PM24E	CV3648
		O2DF	CV2260	PM40X	CV1152
		OZ4	CV692	PM202	{ CV185 CV1680
		OZ4A	CV517		
		PA1	CV1689		
		PA40	CV3623		
		Pen A4	CV3638		

Table 7 - (contd)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
PM254	{ CV1153 CV1154	PV1-35	{ CV1370 CV3658	RL18	CV1197
PP36	CV1672	PX4	{ CV1168 CV1693	RL37	CV66
PP60	CV1075	PX25	CV1040	RX235	CV709
AF3	CV2833	P2	CV1246	RZ1-250	CV2853
AL1	CV159	P41	CV1408	R1	{ CV1443 CV2645
A819	CV1698	P61	CV1066	R2	CV3759
B24	CV2143	P215	{ CV1019 CV1662	R3	CV1569
DEQ	CV1156	P220	CV3620	R4	CV1796
DF70	CV386	P410	CV3621	R10	CV261
DL64	CV2231	P610	CV3622	R12	CV426
DL68	CV2259	P625	CV1208	R231	CV378
DL75	CV2102	QA2401	CV133	R612G	CV597
DL93	CV2390	QA2402	CV136	SD6	CV1989
DM70	CV2980	QA2405	CV415	SG250	CV1031
EA50	CV375	QA2406	CV4024	SG215	CV3702
EBL31	CV2926	QP21	CV1035	SP2	{ CV1320 CV1409
EF52	CV327	QP25	{ CV556 CV1342	SP4 7-pin	{ CV1324 CV1468
EF80	CV1376	QQV03-10	CV2798	SP4B	CV3703
EF85	CV1375	QQV04-15	CV788	SP13C	CV3704
EM1	CV2942	QQV06-40	CV424		{ CV1335 CV1574
EM91	CV5055	QV03-12	CV2129	SP41	{ CV1699 CV1700
EY51	CV426	QV04-7	CV309	SP42	CV1336
EY86	CV2966	QV04-7R	CV483		{ CV118 CV260
E180F	CV3998	QV05-25	CV124	SP61	{ CV1065 CV1322
E280	CV1535	QQZ04-15	CV1838		{ CV1727 CV261
E1323	CV63	RK25	CV622	SP210	CV261
HL133	CV2998	RK33	CV875	SU44	CV371
KB2	CV3515	RK34	CV18	SU45	{ CV1290 CV1291
K308	CV2282	RK57	CV625	SU2150A	CV797
MR4	CV1611	RK60	CV3680	SV-2D21	CV2659
PM256	CV1208	RKR72	CV709	SV3D21A	CV1677
PP5-400	CV1040	RKR73	CV2543	S4VB	
PSG8	CV2243	RL7	{ CV380 CV1136		
PT2	CV1118	RL16	CV1137		
PT5	CV3652				
PT15	CV1104				
PT25H	CV1046				
PT425	CV3656				

Table 7 - (contd)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
SW75 Pen	CV1221	T4D	CV3721	VMP4G	{ CV3785
S23	CV3691	T41	CV3723		{ CV3786
S23 Met	CV3692	T240	CV1076	VMP4G	CV1169
S25A	CV16	T250	CV1030	(B7 Base)	
S26A	CV53	UE905	CV625	VMP4G	CV1165
S27A	CV82	UL41	CV1977	(B5 Base)	
S410	CV1159	URIC	CV1267	VP2	{ CV1323
S215	CV3695	UR3C	CV3758		{ CV3787
S215A	CV3696	UU4	CV3759	VP2B	CV520
S6F12	CV4014	UU5	CV3760	VP4A	CV1172
S6F17	CV4040	UU6	CV1413	VP4B	CV3582
T41	{ CV1121	UU7	CV3761	VP4 Met	CV3788
	{ CV1585	UU9	CV1855	VP13C	CV3790
TDD2A	CV3726	U5	CV3743	VP21	CV1332
TDD4	CV3727	U8	CV148	VP23	{ CV1331
TDO3-5	CV352	U10	CV1443		{ CV3792
TDO3-10	CV273	U12/14	CV1064	VP24 Met	CV3793
TDO3-10F	CV2204	U14	CV3746	VP41	{ CV21
TH2	CV1410	U15	{ CV1265	VP133	CV1457
TH41	CV1411		{ CV3747	VP210	CV3794
TP22	CV1344	U17	CV1113	VP215	CV3795
(9-Pin)		U18	CV1264	VP1322	CV3796
TP25	CV1345	U19	CV187	VS2	{ CV1319
TP26	CV3735	U20	CV31		{ CV3800
TS70	CV798	U21	CV3751	VS24	{ CV1318
TSP4	{ CV560		{ CV1356		{ CV3802
	{ CV1330	U22	{ CV1719	VS24K Met	CV3803
	{ CV1681		{ CV3750	VX6002	CV276
TT4	CV1179	U23	CV235	VX7006	CV261
TT12	CV524	U24	CV1921	V120	CV3762
TT15	{ CV222	U30	CV3752	V226	{ CV1368
	{ CV415	U31	CV3753		{ CV3765
TV4	CV1412	U37	CV2289	V245	CV1367
TVO3-10	CV1573	U43	CV426	V248A	CV1366
TVO3-10A	CV1089	U50	CV1268	V257	CV1723
TY1-50	CV1288	U52	CV1071	V312	{ CV1180
TY2-125	CV1921	U82	CV3919		{ CV3766
TY4-350	CV635	U709	CV3996	V339	CV3767
TZ05-20	CV1047	U4020	CV1267	V503	CV3768

Table 7 - (contd)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
V524	CV1318	XP1.5	{ CV176	Z21 (B7 Base)	CV3837
V625	CV93		{ CV1721		
V630	CV201	XP2	CV3832	Z22	{ CV1469
V738	CV139	XR6	CV465		{ CV1727
V872	CV1116	XR7	CV466	Z62	{ CV1192
V877	CV3769	XR8	CV468		{ CV3838
V884	CV131	XSG1.5	CV175	Z66	CV3839
V885	CV132	XSG2.0	CV3833		{ CV2505
V887	CV136	XW	CV1703	Z77	{ CV138
V888	CV138	XW2	CV3834		{ CV1955
V960	CV1133	X21	CV3816	Z319	CV2276
V970	CV3772	X21 Met	CV3817	Z729	CV2901
V984	CV140	X22	CV3818	Z759	CV5060
V1105	CV3778	X24	CV3819	1A3	CV753
V1120	CV72	X24 Met	CV3820	1A4P	CV754
V1120B	CV73	X31	CV3821	1A5G	CV755
V1906	CV20	X31 Met	CV3822	1A5GT	CV756
V1907	CV1111	X41	{ CV1194	1A5GT/G	CV756
V1913	CV1508		{ CV1460	1A6	CV757
V1920	CV121	X41 Met	CV3823	1A7G	CV1800
V1922	CV74	X56	CV1045	1A7GT	CV1802
V1928	CV261	X61M	CV281	1AD4	CV2237
WD30	CV3810	X63	CV3825	1B3	CV2115
W21 (B4 Base)	CV171	X64	CV1280	1B21	CV3586
W21 (B7 Base)	CV3804	X65	{ CV1193	1B22	CV761
W30K	CV3805	X66	{ CV3826	1B23	CV539
W31	CV3806	X77	CV1099	1B24	CV725
W42	CV1183		{ CV453	1B3GT	{ CV1830
W77	CV131	X79	{ CV4012		{ CV2115
W731D	CV2538	X719	CV5115	1B3/3016	CV541
XG2-500	CV1144	Y63	CV2128	1B4P	CV758
XH1.5	CV3850	Y65	CV1103	1B5/25S	CV759
XLO	CV1701	ZA1	CV51	1B7GT	CV760
XL1.5	CV1720		{ CV1175	1C5G	CV1803
XL2	CV1720	Z21 Clear	{ CV1176	1C5GT	CV1805
XL2	CV3831	Z21	CV3853	1C5GT/G	CV1805
XP	CV1702	(B4 Base)	CV3836	1D5	CV764
				1D5GT	CV1806

Table 7 - (contd)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
1D5GP	CV705	1G5GT	CV1826	2D2	CV794
1D7G	CV765	1Q5GT/G	CV1826	2D4A	CV795
1D8GT	CV1811	1R4/1294	CV2709	2D13C	CV796
1D13	CV753	1R5	CV782	2D21	CV797
1E5GP	CV766	1S4	CV783	2D21W	{ CV2876
1E5GT	CV766	1S5	CV784		{ CV4018
1E7G	CV1812	1T4	{ CV785	2E22	CV798
1F2	CV1758		{ CV1971	2E26	CV3990
1F3	CV785	1T5	CV786	2E30	CV2517
1F4	CV767	1T5GT	CV1829	2T/270K	CV261
1F5G	CV768	1U4	CV2507	2V3	CV803
1F6	CV769	1U5	CV3912	2V3G	CV804
1F7GV	CV770	1V	CV1999	2X2	CV3748
1G4GT	CV1817	1V2	CV3994	2X2A/879	CV597
1G5G	CV771	1Z2	CV2510	2Y2	CV1843
1G6G	CV772	2A3	CV1831	3A4	{ CV807
1G6GT	CV773	2A5	{ CV1707		{ CV2300
1G6GT/G	CV773		{ CV1834	3A5	CV808
1H4G	CV774	2A6	CV1769	3A/105B	CV809
1H5G	CV1818	2A7	CV787	3A/107A	CV249
1H5GT	CV1820	2B7	{ CV1706	3A/107B	CV1655
1H5GT/6	CV1820		{ CV1837	3A/108A	CV1653
1LA6	CV775	2B7/1291	CV791	3A/108B	CV1657
1LB4	CV776	2B21	CV597	3A/109A	CV1671
1LC5	CV777	2B22	CV2931	3A/146J	CV53
1LC6	CV778	2B36	CV1078	3A/147J	CV82
1LD5	CV779	2C21	CV875	3A/148J	CV88
1LH4	CV780	2C22	CV792	3B4	CV2240
1L4	{ CV1758	2C25	CV1567	3B7/	CV811
	{ CV2742	2C26	CV802	3B21	CV2959
	{ CV2795	2C26A	CV1759	3B22	CV3815
1LN5	CV781	2C34	{ CV18	3B24	CV812
2LN5E	CV781		{ CV1061	3B24WA	CV4021
1N5G	CV1821	2C40	{ CV2643	3B24W	CV2858
1N5GT	CV1823		{ CV687	3B26	CV3575
1N5GT/G	CV1823		{ CV932	3B/100B	CV1689
1P5GT	CV728	2C43	CV688	3B/102B	CV84
1P1	CV820	2C51	CV2831	3B/240M	CV2214
1Q5G	CV1824	2C51W	CV2866	3B/241M	CV5116

Table 7 - (cont)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
3B/252B	{ CV1220 CV1688	5R4WGY	CV2835	6AH6	CV2521
3B/244	CV2858	5T4	CV1846	6AJ5	CV995
3B/400A	CV1452	5U4	CV1071	6AJ7/6AC7	CV849
3D6/1299	CV815	5U4G	CV575	6AJ8	CV2128
3D21A	CV2659	5U4GT	CV841	6AK5	CV850
3D24W	CV2858	5V4G	CV729	6AK5W	CV2877
3Q4	CV818	5W4	CV1849	6AK6	CV1762
3Q5GT	CV819	5W4G	CV842	6AK7	CV1784
3Q5GT/G	CV819	5W4GT	CV503	6AL5	{ CV140 CV283
3S4	CV820	5X4	CV1852	6AL5W	CV2882
3V4	CV1633	5X4G	CV1851	6AL7G	CV3707
	{ CV1000	5Y3	CV1268	6AM4	CV5073
4D1	{ CV1109	5Y3G	CV1854	6AM5	CV136
	{ CV1177	5Y3GT	CV1856	6AM6	{ CV138 CV1955
	{ CV1305	5Y3WGTA	CV4027	6AN4	CV3989
4E27	CV824	5Y4G	CV1857	6AN5	CV2854
4SH	CV1126	5Z3	CV1861	6AQ4	CV417
4THA	CV826	5Z4	CV1864	6AQ5	CV1862
4TPB	CV828	5Z4G	CV1863	6AQ5W	CV2883
4TPB Met	CV829	5Z4GT	CV2748	6AQ6	CV2937
4TSP	CV830	6AB5/6N5	CV843	6AR6	CV3613
4XP	CV1168	6AB7/1853	CV1873	6AS6	CV2522
4X1500	CV3991	6AC5G	CV844	6AS6W	CV2884
5A6	CV2360	6AC5GT	CV845	6AS7G	CV2523
5A/102D	CV1724		{ CV660	6AS7Y	CV3974
5A/105A	CV1726		{ CV747	6AT6	CV452
5A/163K	CV1635	6AC7/1852	{ CV846	6AU6	CV2524
5B1	CV1018		{ CV1876	6AU6WA	CV4023
5B/250A	CV124	6AC7W	CV3974	6AV6	CV2526
5B/251M	CV428	6AC7Y	CV3973	6A3	CV730
5B/252M	CV391	6AD7G	CV1878	6A6	CV1867
5B/253M	CV499	6AF4	CV5036	6A7	CV1870
5B/254M	CV428	6AF4A	CV5074	6A8	CV579
5B/255M	CV391	6AF6G	CV847	6A8G	CV578
5B/256M	CV499	6AG5	CV848	6A8GT	CV580
5B/257/M	CV2220	6AG6	CV1438		{ CV454
5R4GY	CV717	6AG7	CV1882	6BA6	{ CV2026 CV4009
5R4WGA	CV4026	6AG7Y	CV3978		

Table 7 - (cont)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
6BA6W	CV5037		{ CV2127	6G6G	CV1926
6BA7	CV2527	6CH6	{ CV4055	6G8G	CV856
6BC4	CV5038		{ CV4056	6H6	CV1930
6BE6	{ CV453	6CJ6	CV2721	6H6G	CV1929
	{ CV2024	6CK6	CV2726	6H6GT	CV1931
6BF7	CV3894	6CL6	CV5041	6H6GT/G	CV1931
6BH6	CV3908	6CQ6	CV2937	6J4	CV1763
6BJ6	CV3909		{ CV375	6J4WA	CV5029
6BL7	CV5039	6D1	{ CV1092	6J5	CV1933
6BN6	CV3616	6D2	{ CV140	6J5G	CV1932
6BQ5	CV2975		{ CV383	6J5GT	CV1934
6BQ6	CV5040	6D6	{ CV1709	6J5GT/G	CV1934
6BR7	CV2135		{ CV1900		
6BS7	CV5086	6D7	CV1776	6J6	{ CV858
		6D8G	CV1902		{ CV2010
6BW6	{ CV2136	6E5	CV1906	6J6W	CV2843
	{ CV2022	6F1	CV3841	6J6WA	CV4031
6B4G	CV851	6F5	CV1909	6J7	CV1936
6B6G	CV1887	6F5G	CV1908	6J7G	CV1935
6B6GT	CV2024		{ CV715	6J7GT	CV1937
6B5	CV1885	6F5GT	{ CV1910	6J8G	CV859
				6JL7WGT	CV3985
6B7	{ CV1711	6F6	CV1912	6K4	CV2855
	{ CV1891	6F6G	CV1911	6K25	CV2217
6B8	CV1894	6F6GT	CV731	6K5G	CV860
6B8G	CV1893	6F6GT/G	CV731	6K5GT	CV861
6C4	CV852	6F7	CV1915	6K5GT/G	CV861
6C4W	CV2842	6F8G	CV1917	6K6G	CV1938
		6F8	CV1918	6K6GT	CV1940
6C4WA	{ CV4058	6F11	CV1901	6K6GT/G	CV1940
	{ CV4059	6F12	CV138	6K7	CV1942
6C5	CV582	6F13	CV1839	6K7G	CV1941
6C5G	CV581	6F14	CV1919	6K7GT	CV1943
6C5GT	CV583	6F17	CV416	6K8	CV1945
				6K8G	CV1944
6C6	{ CV585	6F32	{ CV343	6K8GT	CV1946
	{ CV1710		{ CV1116	6LD3	CV3882
6C7	CV854	6F33	CV329	6LD20	CV1920*
6C8G	CV1896	6F33 (Spec)	CV2209	6L5G	CV862
6C10	CV3888	6G5	CV504		
6CB6	CV3995				

Table 7 - (cont)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
6L6	CV1948	6SF5	CV1972	6V6GT/G	CV511
6L6G	CV1947	6SF5GT	CV1973	6V7	CV870
6L6GA	CV2817	6SG7	CV1978	6V7G	CV870
6L6WGA	CV3618	6SH7	CV594	6W4GT	CV732
6L6WGB	CV2796	6SH7L	CV5067	6W7G	CV512
6L7	CV1951	6SH7GT	CV595	6X2	CV426
6L7G	CV1950	6SJ7	CV591	6X4	{ CV493
6L13	CV492	6SJ7G	CV590		{ CV4005
6L18	CV1899	6SJ7GT	CV592	6X4W	CV2844
6L19	CV1850	6SJ7WGT	CV3619	6X5	CV573
6L34	{ CV319	6SJ7Y	CV866	6X5G	CV572
	{ CV417	6SK7	CV1981	6X5GT	CV574
6M1	{ CV1103	6SK7GT	CV1982	6X5GT/G	CV574
	{ CV2747	6SK7GT/G	CV1982	6X5WGT	CV3734
6N5	CV843	6SL7GT	CV1985	6Y3G	CV1816
6N7	CV1957	6SN7	CV278	6Y6G	CV515
6N7G	CV1956	6SN7GT	CV1988	6ZY5G	CV873
6N7GT	CV1958	6SN7WGT	CV3627	6Z4	CV619
6P5GT	CV1819	6SQ7	CV1990	6Z5	CV871
6P5GT/G	CV1819	6SQ7GT	CV1991	6Z7G	CV872
6P7G	CV864	6SQ7GT/G	CV1991	7A2	CV1174
6P7GT/G	CV864	6SR7	CV867	7A3	CV1181
6P17	CV136	6SS7	CV1993	7A4	CV1770
6P25	CV1853	6ST7	CV1996	7A6	CV876
6Q4	CV1886	6ST7G	CV1995	7A7	CV877
6Q7	CV588	6S5G	CV1908	7A7LM	CV877
6Q7G	CV587	6S7G	CV1974	7A8	CV878
6Q7G7	CV589	6S7	CV1975	7B4	CV879
6R4	CV1865	6T4	CV3808	7B5	CV880
6R6G	CV1960	6T7	CV500	7B5E	CV880
6R7	CV1963	6U5/6G5	CV504	7B5LT	CV881
6R7G	CV1962	6U5G	CV2747	7B6	CV882
6R7GT	CV1964	6U7G	CV706	7B6LM	CV882
6R7GT/G	CV1964	6U5GT	CV869	7B7	CV522
6SA7	CV1966	6U8	CV5065	7B8	CV883
6SA7GT/G	CV1967	6V6	CV510	7B8LM	CV883
6SC7	{ CV1969	6V3A	CV5021	7C4/1203A	CV2706
	{ CV2716	6V6G	CV509	7C5	CV885
6SC7GT	CV1970	6V6GT	CV511	7C5LT	CV886
6SD7GT	CV865				

Table 7 - (contd)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
7C6	CV887	9D6	{ CV131	12J5GT	CV535
7C7	CV1777		{ CV2023	12J7GT	CV917
7D5	CV1425	10	CV603	12J7GT/G	CV917
7D6	CV1672	10 (Spec)	CV906	12K7GT	CV918
7D8	CV889		{ CV1300	12K7GT/G	CV918
7D8S	CV1328	10D1	{ CV1418	12K8	CV703
7D9 (B7G Base)	CV136	11A2	CV2813	12K8GT	CV3927
	{ CV2013	11D3	CV1419	12BA6	CV1928
7D10	{ CV2127	11E2	CV276	12SA7	CV537
	{ CV890	11E3	CV73	12SA7GT	CV538
7E5	{ CV2704	12A/112A	CV1774	12SC7	CV540
7E5/1201	CV2704	12AH7GT	CV529	12SF5	CV919
7E6	CV891		{ CV455	12SD5GT	CV920
7E7	CV892	12AT7	{ CT2016	12SF7	CV921
7F7	CV893		{ CV4024	12SG7	CV694
7F8	CV2968	12AT7WA	{ CV4033	12SH7	CV922
7G7	CV894	12AU6	CV1961	12SH7GT	CV3651
7G7/1232	CV894	12AU7	{ CV2007	12SJ7	CV697
7H7	CV895		{ CV491		{ CV698
7J7	CV897	12AX7	{ CV492	12SJ7GT	{ CV923
7K7	CV896		{ CV2011	12SK7	CV543
7N7	CV898	12AY7	CV3650	12SK7GT	CV544
7Q7	CV899	12A	CV907	12SK7GT/G	CV544
7R7	CV900	12A5	CV908	12SL7GT	CV924
7W7	CV902	12A6	CV525	12SN7GT	CV925
7Y4	CV901	12A6GT	CV526	12SQ7	CV546
7Z4	CV1790	12A6GT/G	CV526	12SQ7GT	CV547
8A1	CV1124	12A7	CV909	12SQ7GT/G	CV547
	{ CV1108	12A8GT	CV910	12SR7	CV700
8D2	{ CV1599	12BA6	CV1928	12SR7GT	CV3980
8D3	CV138	12BH7	CV5042	12SW7	CV3666
8D5	CV2135	12B8GT	CV911	12SW7GT	CV3983
	{ CV1690	12C8	CV531	12SX7GT	CV3697
9A1	{ CV1172	12C8GT	CV531	12SY7	CV3668
	{ CV1106		{ CV3827	12Y4	CV523
9D2	{ CV1321	12C8 (spec)	CV837	12Z3	CV927
	{ CV1423	12E1	CV345	13D1	CV423
	{ CV1598	12H6	CV916	13D3	CV2212
9D5	CV1053	12J5	CV534	13E1	CV2377

Table 7 - (contd)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
13SPA	CV929	26A7	CV2577	40SUA	CV1267
13VPA	CV1106	26A7GT	CV3577	40Z5	CV2530
14A7	CV3935	26Z5W	CV5030	41	CV608
14F7	CV930	27	CV944	41FP	{ CV2502 CV2509
14R7	CV3937	28D7	CV945	41MH	CV2503
14S7	CV3936	28D7GT/G	CV946	41MHF	CV1037
15	CV931	29C1	CV430	41MHL	CV2504
15A2	CV3576	30	CV604	41MLF	CV1038
15D1	CV2956	31	CV947	41MP	CV1458
15D2	CV1107	32	CV711	41MPG	CV2505
19G3	CV277	32L7GT	CV948	41MPT	CV2506
19G6	CV371	33	CV949	41MTL	{ CV1117 CV1584
19H1	CV121	33A/100A	CV1750	41MXP	CV1122
19H4	{ CV1847 CV2180	33A/138A	CV18	41STH	{ CV1697 CV2508
225/200A	CV1451	33A/158M	CV1884	42	{ CV609 CV1712
20A1	CV1424	33B/152M	CV1540	42MPT	CV1325
24A	CV936	34	CV1751	42MP/Per	CV1181
25AC5GT	CV938	34E	CV1751	42/OT	CV2511
25AC5GT/G	CV938	35/51	CV1752	42/OTDD	CV2512
25A6	CV549	35A5LT	CV1753	42SPT	CV1444
25A6GT	CV550	35L6	CV561	43	CV2514
25A6GT/G	CV550	35L6GT	CV562	43E	CV2514
25A7GT	CV937	35L6GT/G	CV562	43IU	CV1039
25A7GT/G	CV937	35T	CV668	44A/160M	{ CV222 CV415
25B6G	CV939	35TG	CV1754	44IU	CV1039
25B8GT	CV940	35Z3	CV564	45	CV610
25L6	CV552	35Z3GT	CV565	45IU	CV2529
25L6G	CV551	35Z3LT	CV726	45Z5GT	CV2530
25L6GT	CV553	35Z4GT	CV2500	46	CV2531
25L6GT/G	CV553	35Z5	CV567	47	CV1772
25SN7	CV423	35Z5GT	CV568	49	CV2532
25SN7GT/G	CV423	35Z5GT/G	CV568	50	CV2533
25Y5	CV942	36	CV1775	50C5	CV1959
25Z5	CV555	37	CV606	50L6G	CV2534
25Z6	CV558	38	CV712		
25Z6GT	CV559	38A	CV712		
25Z6GT/G	CV559	39	CV2585		
26	CV943	39/44	CV1771		
		40	CV2501		

Table 7 - (contd)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
50L6GT	CV571	84/624	CV619	220/OT	CV2581
50Y6GT	CV805	85	CV2549	220PA	{ CV1022
50Y6GT/G	CV805	89	CV833		{ CV1036
52KU	CV1863	104V	{ CV1160	220HPT	CV1118
53	CV2535		{ CV1161	220IPT	CV1333
53A	CV2536	112A	CV1774	220LPT	CV1195
53KU	CV378	116/Pen	CV1337	220P	CV1020
54KU	CV729	117L7GT	CV2556	220PT	CV1051
55	CV2537	117N7	CV2557	220R	CV1312
56	CV611	117Z6GT	CV2558	220SG	CV1018
57	{ CV612	117Z6GT/G	CV2558	220TH	CV1082
	{ CV1704			220VPT	CV1338
	{ CV5027			220VS	CV2582
58	{ CV613	185BT	CV1980	220VSG	CV1028
	{ CV1705	205D	CV1748	225DU	CV1454
59	CV2538	205E	CV2566	230KP	CV1652
61BT	CV1979	205F	CV2567		{ CV1023
61SPT	CV5081	210DDT	CV1044	230XP	{ CV1565
62BT	CV1745	210DET	CV2569	231D	CV2584
63ME	CV2747	210HF	CV2570	239	CV1771
63SPT	CV1091	210HL	CV2571	240B	CV2586
71A	CV2541	210LF	{ CV1021	244V	CV1288
72	CV709		{ CV1027	250QP	CV1035
72R	{ CV709		{ CV1042	257A	CV2593
	{ CV2542	210LF Met	CV1307	259A	CV2595
73	CV2543	210PG	CV1043	264C	CV2599
73R	CV2543	210RC	CV2977	271A	CV2601
75	CV614	210SPT	CV1049	272A	CV2602
76	CV615	210VPA	CV2574	274A	CV2603
77	CV616	210VPT (B4 Base)	CV171	274B	CV684
78	CV2544	210VPT (B7 Base)	{ CV1083	265A	CV2604
79	CV2545		{ CV1332	279A	CV669
80	{ CV617	215G	CV1048	293A	CV3829
	{ CV1708	215P	{ CV1019	310A	CV2613
81	CV2546		{ CV1662	310B	CV1781
82	CV1773	215SG	{ CV1018	311A	CV2614
83	CV618		{ CV1048	328A	CV2619
83V	CV2547	220B	CV1032	329A	CV2620
84	{ CV619	220LF	CV1313	331A	CV2622
	{ CV2548			332Pen	CV1401

Table 7 - (contd)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
337A	CV2624	832A	CV788	1629	CV1756
349A	CV2627	833	CV635	1637	CV996
350B	CV1799	836	CV636	1642	CV875
351A	CV2630	841	CV906	1655	CV2716
352A	CV2631	843	CV639	1821	CV1443
354V	CV1173	864	CV2675	1851	CV599
357A	CV691	866JR	CV2679	1852	{ CV660
362A	CV2633	879	CV597		{ CV1876
400TDD	CV2512	884	CV647	1853	{ CV1873
402Pen	CV1672	885	CV648		{ CV661
405BU	CV2640	895	CV648	1861	CV1039
410PT	CV1167	904V	CV2690	1876	CV2718
425XP	{ CV1309	958A	CV2601	2051	CV1798
	{ CV1655	1003	CV517	4003A	CV2743
428T	CV812	1005	CV2874	4019A	CV249
442BU	CV1796	1043	CV1097	4019B	{ CV1309
446	CV932	1201A	CV2704		{ CV1655
446B	CV687	1203	CV2705	4020A	{ CV1310
460BU	CV2644	1229	CV711		{ CV1653
464A	CV688	1231	CV2707	4020B	CV1657
484V	CV1678	1282	CV902	4021A	CV1671
506BU	CV2645	1294	CV2709	4021B	{ CV1316
559	CV3963	1299	CV815		{ CV1663
615	CV3506	1561	CV1289		{ CV1311
713A	CV3593	1602	CV906	4022AR	{ CV1664
717A	CV3594	1603	CV652		{ CV2740
731A	CV850	1609	CV2712	4022B	CV1659
802	CV622	1610	CV2713	4033A	CV1220
805	CV625	1611	CV653	4033AF	CV2743
	{ CV1060	1612	CV654	4033L	CV1688
807	{ CV1364	1613	CV655	4045A	CV243
	{ CV1374	1614	CV2714	4046A	CV244
	{ CV1572	1616	CV656	4060A	CV1030
807W	CV3809	1619	CV723	4061A	CV1369
815	CV2663	1620	CV657	4074A	CV18
825	CV2665	1622	{ CV658	4074B	CV1573
816	CV724		{ CV1947	4077D	CV33
829B	CV2666	1625	CV659	4212E	{ CV1252
832	CV1088	1626	CV1755		{ CV1619

Table 7 - (contd)

Civilian No	Service No	Civilian No	Service No	Civilian No	Service No
4274A	{ CV1451 CV2603	5749	CV4009	6064	CV4014
4300A	CV1452	5749/6BA6	CV4009	6065	CV4015
4307A	CV1080	5750	CV4012	6067	CV4003
4328A	CV2619	5750/6BE6W	CV4012	6080	CV2984
4328D	{ CV245 CV1725	5751	CV4017	6080WA	CV5008
4673	CV2765	5751WA	CV4017	6088	CV2699
4713A	CV3593	5755	CV3970	6095	CV3972
4717A	CV3594	5755/420A	CV3755	6096	CV4010
5556	CV2640	5763	{ CV2014 CV2129	6097	CV4007
5629	CV2662	5784	CV3986	6100	CV4022
5636	CV3828	5814	CV4016	6101	CV4031
5639	CV2662	5814WA	CV4032	6101/6J6WA	CV4031
5641	CV473	5840	CV3829	6106	CV2992
5647	CV3916	5842	CV3789	6110	CV5005
5654	CV4010	5844	CV5046	6111	CV3961
5654/6AK5W	CV4010	5847	CV3905	6112	CV5007
5656	CV2970	5852	CV3943	6132	CV4055
5670	CV4013	5861	CV273	6134	CV5021
5670WA	CV4013	5884	CV424	6135	CV4022
5672	CV2238	5894	CV2797	6136	CV2990
5676	CV2239	5894A	CV2698	6146	CV3523
5678	CV2254	5896	CV475	6156	CV2131
5686	CV3612	5899	{ CV471 CV4029	6156/4-125A	CV2131
5687	CV2578	5902	CV3931	6168	CV4068
5691	CV3705	5906	CV3899	6187	CV4011
5692	CV3942	5932	CV3517	6201	CV3508
5693	CV3699	5933	CV3900	6203	CV5009
5702	CV3895	5963	CV3932	6205	CV2432
5704	CV2874	5977	CV4019	6443	CV2230
5718	CV3930	6005	CV4019	6516	CV4064
5719	CV4008	6005/6AQ5W	CV4019	7193	CV3601
5721	CV3970	6021	{ CV3986 CV5006	8001	CV824
5725	CV4001	6057	CV4004	8013A	CV716
5725/6AS6W	CV4011	6058	CV4025	8016	{ CV541 CV1830 CV2115
5726/6AL5	{ CV4007 CV4025	6059	CV4006	8020	CV2967
5727	CV4018	6060	CV4024	8022	CV944
5727/2D21W	CV4018	6062	CV4039	9001	CV1757
		6063	CV4005	9002	CV664
				9003	CV665
				9006	CV2769

57/Maint/S921

END