

THE  
"AVO"  
*Regd. Trade Mark.*  
VALVE TESTER

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VALVE DATA CHARTS

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GENERAL INSTRUCTIONS

\* Two sets of figures are given for frequency changers. The first set relates to triode section—taken with anode selector at "Normal." The second set is for the pentode or hexode section obtained with anode selector at "A.2."

‡ The mutual conductance of each half of Class B or QPP valves is obtained with the anode selector at "normal" and "A.2" respectively. Where no manufacturer's mutual conductance figure is given, each half of the valve should be checked for matching of mutual conductance.

† Diode valves are tested for emission of each diode with anode volts switch at "D" and anode selector at "D.1" and "D.2" respectively. Set mA/v. control at mA/v. when reading should be greater than .5 for a good diode. Readings will generally be between 2 and 5.

§ Multiple diode valves are tested for mutual conductance of triode or pentode section with anode selector at "Normal." Emission figure for each diode can then be obtained as above (reference †). In the case of a triple diode triode, the mutual conductance of the triode is taken with anode selector at "Normal" and emission of diodes with selector at "A.2," "D.1" and "D.2" respectively.

x To test rectifying valve or emission, set mA/v control at 100 and anode volts switch at "Rec." Emission of each anode (in case of full wave) will be obtained by setting anode selector at "D.1" and "D.2" respectively. The two emissions should match within small limits and should compare favourably with the figures given.

⊗ To test tuning indicators, 100 volts should be applied to the anode, and the triode section tested for satisfactory mutual conductance in the normal way. The target is connected to the screen voltage tapping and can be made to glow by increasing the screen volts. No manufacturer's mutual conductance figures are given for this class of valve.

o Valves with centre tapped heaters are tested with the two halves of the heater in parallel. Great care should be taken to see that the heater voltage applied is half that used for normal series working. This modification does not apply when the valves are tested in a valve panel without selector switch, and for this reason two heater voltages are shown in the column marked "H.V." when both the selector switch number and the V.H. number are shown on the chart.

IMPORTANT NOTE

Instructions in the "Remarks" column printed in heavy black type relate to the testing of valves in the English and American valve panels which do not follow the normal procedure. These instructions and also the figures in column marked V/H No. should be disregarded when the new valve panel with selector switch is used, as the valve holders are then set up so that all valves conform to the standard method of testing. Any remarks with regard to the testing of valves in this panel are printed in italics.

| TYPE  | Selector Switch No. | V/H No. | T.C. | H.V. | A.V.         | S.V.     | MA/V.      | Remarks                     |
|-------|---------------------|---------|------|------|--------------|----------|------------|-----------------------------|
| *X21  | 645230700           | 16      | G    | 2    | { 100<br>125 | 75<br>75 | .5<br>.75  |                             |
| *X22  | 645230700           | 16      | G    | 2    | { 100<br>150 | 70<br>70 | .75<br>.9  |                             |
| S23   | 542300000           | 7       | A    | 2    | 150          | 75       | 1.1        |                             |
| Z21   | 542300000           | 7 or 9  | A    | 2    | 120          | 100      | 1.7        | IF 7-PIN 040230500          |
| S24   | 542300000           | 7       | A    | 2    | 150          | 75       | 1.4        |                             |
| W21   | 542300000           | 7 or 9  | A    | 2    | 120          | 100      | 1.4        | IF 7-PIN 040230500          |
| VS24  | 542300000           | 7       | A    | 2    | 150          | 75       | 1.5        |                             |
| VS24K | 542300000           | 7       | A    | 2    | 150          | 75       | 1.5        |                             |
| VP21  | 040230500           | 9       | A    | 2    | 150          | 60       | 1.1        |                             |
| HL2   | 642300000           | 5       |      | 2    | 100          |          | 1.5        |                             |
| L21   | 642300000           | 5       |      | 2    | 100          |          | 1.8        |                             |
| §HD22 | 682390000           | 5       | G    | 2    | 100          |          | 1.5        | Test on triode section only |
| LP2   | 642300000           | 5       |      | 2    | 100          |          | 3.85       |                             |
| P2    | 642300000           | 5       |      | 2    | 100          |          | 3.5        |                             |
| PT2   | 642350000           | 6       |      | 2    | 100          | Pen.LF   | 2.5        |                             |
| KT2   | 642350000           | 6       |      | 2    | 100          | Pen.LF   | 2.5        |                             |
| KT21  | 642350000           | 6       |      | 2    | 100          | Pen.LF   | 5.3        |                             |
| †QP21 | 447235600           | 11      |      | 2    | 100          | Pen.LF   | 2.3        |                             |
| ‡B21  | 446230700           | 11      |      | 2    | 100          |          |            |                             |
| *MX40 | 645231700           | 16      | G    | 4    | { 150<br>250 | 75<br>75 | .6<br>1.4  |                             |
| *X41  | 645231700           | 16      | G    | 4    | { 100<br>200 | 75<br>75 | 2.0<br>3.0 |                             |
| *X42  | 645231700           | 16      | G    | 4    | { 100<br>250 | 90<br>90 | .25<br>3.0 |                             |
| MS4B  | 542310000           | 7       | A    | 4    | 200          | 75       | 2.2        |                             |
| MS4   | 542310000           | 7       | A    | 4    | 200          | 75       | 1.1        |                             |
| VMS4  | 542310000           | 7       | A    | 4    | 200          | 75       | 2.4        |                             |
| VMS4B | 542310000           | 7       | A    | 4    | 200          | 75       | 2.9        |                             |
| VMP4G | 040231500           | 9       | A    | 4    | 250          | 100      | 2.8        |                             |
| W42   | 060231500           | 12      | G    | 4    | 250          | 100      | 1.75       |                             |
| VMP4  | 542310000           | 7 or 9  | A    | 4    | 200          | 100      | 3.5        | IF 7-PIN 040231500          |
| §WD40 | 560231890           | 20      | G    | 4    | 250          | 100      | 2.6        |                             |
| MSP4  | 040231500           | 7 or 9  | A    | 4    | 200          | 100      | 4.0        | IF 5-PIN 542310000          |
| MSP41 | 040231500           | 9       | A    | 4    | 250          | 200      | 3.2        |                             |
| MH4   | 642310000           | 5       |      | 4    | 100          |          | 3.6        |                             |
| MH40  | 642310000           | 5       |      | 4    | 100          |          | 2.4        |                             |
| MH41  | 642310000           | 5       |      | 4    | 100          |          | 6.0        |                             |
| MHL4  | 642310000           | 5       |      | 4    | 100          |          | 2.5        |                             |
| H42   | 000231600           | 10      | G    | 4    | 100          |          | 1.7        |                             |
| ML4   | 642310000           | 5       |      | 4    | 100          |          | 4.2        |                             |
| §MHD4 | 908231600           | 13      | G    | 4    | 100          |          | 2.2        |                             |
| §DH42 | 908231600           | 13      | G    | 4    | 100          |          | 1.2        |                             |
| A802  | 642310000           | 5       |      | 4    | 100          |          | 2.5        |                             |
| †D41  | 892310000           | 8       |      | 4    | D            |          |            |                             |
| †D42  | 812300000           | 8       |      | 4    | D            |          |            |                             |
| MPT4  | 045231600           | 5 or 10 | S    | 4    | 100          | Pen.LF   | 3.0        | IF 5-PIN 642310000          |
| MKT4  | 045231600           | 5 or 10 | S    | 4    | 100          | Pen.LF   | 3.0        | IF 5-PIN 642310000          |
| KT41  | 045231600           | 10      |      | 4    | 100          | Pen.LF   | 10.0       |                             |
| KT42  | 045231600           | 10      |      | 4    | 100          | Pen.LF   | 2.5        |                             |
| N41   | 045231600           | 10      |      | 4    | 100          | Pen.LF   | 10.0       |                             |
| N43   | 005231600           | 10      | G    | 4    | 100          | Pen.LF   | 10.0       |                             |

## MARCONI and OSRAM

| TYPE     | Selector Switch No. | V/H No. | T.C. | H.V.  | A.V.         | S.V.       | MA/V.        | Remarks                        |
|----------|---------------------|---------|------|-------|--------------|------------|--------------|--------------------------------|
| §DN41    | 869231500           | 14      | G    | 4     | 100          | Pen.LF     | 10.0         |                                |
| N42      | 045231600           | 10      |      | 4     | 100          | Pen.LF     | 2.5          |                                |
| PX4      | 642300000           | 5       |      | 4     | 100          |            | 6.0          |                                |
| PT4      | 642350000           | 6       |      | 4     | 100          | Pen.LF     | 2.85         |                                |
| PX25     | 642300000           | 5       |      | 4     | 100          |            | 7.5          |                                |
| PX25A    | 642300000           | 5       |      | 4     | 100          |            | 6.9          |                                |
| PT25     | 642350000           | 6       |      | 4     | 100          | Pen.LF     | 4.0          |                                |
| PT25H    | 642350000           | 6       |      | 4     | 100          | Pen.LF     | 6.5          |                                |
| DA30     | 642300000           | 5       |      | 4     | 100          |            | 6.9          |                                |
| *X30/X32 | 645231700           | 16      | G    | 13    | { 150<br>250 | { 75<br>75 | { .6<br>1.4  |                                |
| *X31     | 645231700           | 16      |      | 13    | { 100<br>250 | { 75<br>75 | { 2.0<br>3.0 |                                |
| W30      | 040231500           | 9       | A    | 13    | 250          | 250        | 4.0          |                                |
| W31      | 040231500           | 9       | A    | 13    | 200          | 100        | 2.7          |                                |
| §WD30    | 560231890           | 20      | G    | 13    | 250          | 100        | 2.6          |                                |
| H30      | 000231600           | 10      | G    | 13    | 100          |            | 6.0          |                                |
| L30      | 040231600           | 10      |      | 13    | 100          |            | 4.2          |                                |
| §DH30    | 908231600           | 13      | G    | 13    | 100          |            | 4.5          |                                |
| N30      | 045231600           | 10      |      | 13    | 100          | Pen.LF     | 3.9          |                                |
| N30G     | 045231600           | 10      |      | 13    | 100          | Pen.LF     | 3.9          |                                |
| oN31     | 205331600           | 10      | G    | 26/13 | 100          | Pen.LF     | 10.0         |                                |
| KT30     | 045231600           | 10      |      | 13    | 100          | Pen.LF     | 3.9          |                                |
| oKT31    | 205331600           | 10      | G    | 26/13 | 100          | Pen.LF     | 10.0         |                                |
| DS       | 542310000           | 7       | A    | 16    | 200          | 75         | 1.1          |                                |
| DSB      | 542310000           | 7       | A    | 16    | 200          | 75         | 3.2          |                                |
| VDS      | 542310000           | 7       | A    | 16    | 200          | 75         | 2.4          |                                |
| VDSB     | 542310000           | 7       | A    | 16    | 200          | 75         | 3.0          |                                |
| §DHD     | 908231600           | 13      | G    | 16    | 100          |            | 2.2          |                                |
| DH       | 642310000           | 5       |      | 16    | 100          |            | 3.7          |                                |
| DL       | 642310000           | 5       |      | 16    | 100          |            | 4.5          |                                |
| DPT      | 642310000           | 5 or 10 | S    | 16    | 100          | Pen.LF     | 3.0          | IF 7-PIN 045231600             |
| xUB      | 892300000           | 8       |      |       | 7.5          | Rec        | 20mA         |                                |
| xU10     | 892300000           | 8       |      |       | 4            | Rec        | 20mA         |                                |
| xU12     | 892300000           | 8       |      |       | 4            | Rec        | 20mA         |                                |
| xU14     | 892300000           | 8       |      |       | 4            | Rec        | 18mA         |                                |
| xU16     | 002300000           | 8       | A    | 2     | Rec          | 2mA        |              | Set anode selector at "normal" |
| xU17     | 002300000           | 8       | A    | 4     | Rec          | 17mA       |              | " " " "                        |
| xU18     | 892300000           | 8       |      |       | 4            | Rec        | 28mA         |                                |
| xMU12    | 892300000           | 8       |      |       | 4            | Rec        | 28mA         |                                |
| xMU14    | 892300000           | 8       |      |       | 4            | Rec        | 28mA         |                                |
| oxU30    | 281331900           | 15      |      |       | 26/13        | Rec        | 33mA         |                                |
| *X23     | 645230700           | 16      | G    | 2     | { 100<br>150 | { 60<br>60 | { 1.1<br>1.5 |                                |
| *X24     | 645230700           | 16      | G    | 2     | { 100<br>150 | { 60<br>60 | { 1.3<br>1.6 |                                |
| §HD23    | 682390000           | 5       | G    | 2     | 100          |            | 1.4          | Test on triode section only    |
| §HD24    | 682390000           | 5       | G    | 2     | 100          |            | 1.4          | Test on triode section only    |
| HL21     | 542310000           | 5       |      | 2     | 100          |            | 1.5          |                                |
| KT24     | 642350000           | 6       |      | 2     | 100          | Pen.LF     | 3.2          |                                |
| KTZ41    | 060231500           | 12      | G    | 4     | 250          | 200        | 10.0         |                                |
| PT625    | 642350000           | 6       |      | 6     | 100          | Pen.LF     | 2.0          |                                |
| xU12/14  | 892300000           | 8       |      |       | 4            | Rec.       | 24mA         |                                |
| xMU12/14 | 892300000           | 8       |      |       | 4            | Rec.       | 30mA         |                                |

THE "AVO" VALVE TESTER

MARCONI and OSRAM OCTAL VALVES  
To be tested in the American Panel

| TYPE   | Selector Switch No. | V/H No. | T.C. | H.V. | A.V.         | S.V.       | MA/V.        | Remarks  |
|--------|---------------------|---------|------|------|--------------|------------|--------------|--|
| *X63   | 027546310           | 3       | G    | 6    | { 100<br>200 | { 90<br>90 | { .5<br>1.5  | Test triode section at A2, pentode section at "normal" |
| X64    | 026540310           | 3       | G    | 6    | 200          | 100        | 1.4          | Ditto  |
| *X65   | 027546310           | 3       | G    | 6    | { 100<br>200 | { 90<br>90 | { .7<br>1.2  | Ditto  |
| W63    | 026500310           | 3       | G    | 6    | 200          | 100        | 1.75         |  |
| KTW63  |                     |         |      |      |              |            |              |  |
| Z63    | 026500310           | 3       | G    | 6    | 200          | 100        | 1.2          |  |
| KTZ63  |                     |         |      |      |              |            |              |  |
| H63    | 020600310           | 2       | G    | 6    | 100          |            | 1.7          |  |
| D63    | 029180310           | 1       |      | 6    | D            |            |              |  |
| §DH63  | 026890310           | 2       | G    | 6    | 100          |            | 1.2          | Test triode at A2 and diodes at "Normal" and D1        |
| KT63   | 026540310           | 3       |      | 6    | 100          | Pen.LF     | 2.5          |  |
| KT66   | 026540310           | 3       |      | 6    | 100          | Pen.LF     | 6.3          |  |
| KT32   | 026540310           | 3       |      | 6    | 100          | Pen.LF     | 9.0          |  |
| xU50   | 020809030           |         |      | 5    | Rec          |            | 30mA         | Test anodes at "normal" and D2                         |
| xU31   | 020080310           | 2       |      | 26   | Rec          |            | 50mA         |  |
| Y63    | 026540310           |         |      | 6    | 100          |            |              |  |
| *X61M  | 027546310           | 3       | G    | 6    | { 100<br>200 | { 90<br>90 | { 1.5<br>3.0 | Test triode section at A2 Pentode section at "normal"  |
| *X63M  | 027546310           | 3       | G    | 6    | { 100<br>200 | { 90<br>90 | { .5<br>1.5  |  |
| *X71M  | 027546310           | 3       | G    | 15   | { 100<br>200 | { 90<br>90 |              | Test triode section at A2 Pentode section at "normal"  |
| *X73   | 027546310           | 3       | G    | 6    | { 100<br>200 | { 90<br>90 | 1.7          | Test triode section at A2 Pentode section at "normal"  |
| *X73M  |                     |         |      |      |              |            |              |  |
| Z73    | 026500310           | 3       | G    | 6    | 200          | 100        | 1.7          |  |
| KTZ73  |                     |         |      |      |              |            |              |  |
| KTZ73M |                     |         |      |      |              |            |              |  |
| KTW61  | 026500310           | 3       | G    | 6    | 200          | 100        | 2.9          |  |
| KTW61M |                     |         |      |      |              |            |              |  |
| Z62    | 026500310           | 3       | G    | 6    | 200          | 150        | 7.5          |  |
| L63    | 026040310           | 3       |      | 6    | 100          |            | 2.6          |  |
| §DL63  | 026890310           | 2       | G    | 6    | 100          |            | 1.7          | Test triode at A2 and diodes at normal and D1          |
| §DH73  | 026890310           | 2       | G    | 6    | 100          |            | 2.0          |  |
| DH73M  |                     |         |      |      |              |            |              |  |
| §DH63M | 026890310           | 2       | G    | 6    | 100          |            | 1.2          |  |
| BL62   | 027146310           |         | G    | 6    | 100          |            | 4.2          |  |
| KT61   | 026540310           | 3       |      | 6    | 100          | Pen.LF     | 10.0         |  |
| KT72   | 026540310           | 3       |      | 16   | 100          | Pen.LF     | 2.5          |  |
| KT73   | 026540310           | 3       |      | 6    | 100          | Pen.LF     | 2.5          |  |
| KT33   | 026540310           | 3       |      | 26   | 100          | Pen.LF     | 10.0         |  |
| oKT33C | 326540210           |         |      | 13   | 100          | Pen.LF     | 10.0         |  |
| KT32   | 026540310           | 3       |      | 26   | 100          | Pen.LF     | 9.0          |  |
| xU52   | 020809030           | 2       |      | 5    | Rec.         |            | 35mA         | Test anodes at normal and D2                           |
| xU70   | 028090310           |         |      | 6    | Rec.         |            |              |  |
| xU71   | 020080310           | 2       |      | 30   | Rec.         |            | 42mA         |  |
| xU134  | 029180310           |         |      | 13   | Rec.         |            |              |  |
| Y64    | 026540310           | 3       |      | 6    | 100          |            |              |  |
| Y73    | 026540310           | 3       |      | 6    | 100          |            |              |  |
| KT35   | 326540210           |         |      | 13   | 100          | Pen.LF     | 10.0         |  |

THE "AVO" VALVE TESTER

## MULLARD

| TYPE   | Selector Switch No. | V/H No. | T.C. | H.V. | A.V.         | S.V.       | MA/V.        | Remarks                     |
|--------|---------------------|---------|------|------|--------------|------------|--------------|-----------------------------|
| *FC2   | 645230700           | 16      | G    | 2    | { 80<br>125  | { 75<br>75 | { .4<br>.8   |                             |
| *FC2A  | 645230700           | 16      | G    | 2    | { 100<br>100 | { 75<br>75 | { .5<br>1.0  |                             |
| VP2    | 040230500           | 9       | A    | 2    | 150          | 150        | 1.75         |                             |
| SP2    | 040230500           | 9       | A    | 2    | 150          | 150        | 2.2          |                             |
| PM12A  | 542300000           | 7       | A    | 2    | 125          | 75         | 1.5          |                             |
| PM12M  | 542300000           | 7       | A    | 2    | 150          | 90         | 1.4          |                             |
| †2D2   | 982310000           | 8       |      | 2    | D            |            |              |                             |
| ‡TDD2A | 682390000           | 5       | G    | 2    | 100          |            | 1.2          | Test on triode section only |
| ‡TDD2  | 682390000           | 5       | G    | 2    | 100          |            | 1.4          | " " "                       |
| PM1HL  | 642300000           | 5       |      | 2    | 100          |            | 1.4          |                             |
| PM2HL  | 642300000           | 5       |      | 2    | 100          |            | 1.4          |                             |
| PM2DX  | 642300000           | 5       |      | 2    | 100          |            | 1.5          |                             |
| PM2DL  | 642300000           | 5       |      | 2    | 100          |            | 1.5          |                             |
| PM2A   | 642300000           | 5       |      | 2    | 100          |            | 3.5          |                             |
| PM2    | 642300000           | 5       |      | 2    | 100          |            | 1.7          |                             |
| PM202  | 642300000           | 5       |      | 2    | 100          |            | 3.5          |                             |
| PM22   | 642350000           | 5 or 6  | S    | 2    | 100          | Pen.LF     | 1.3          |                             |
| PM22A  | 642350000           | 5 or 6  | S    | 2    | 100          | Pen.LF     | 2.5          |                             |
| PM22C  | 642350000           | 6       |      | 2    | 100          | Pen.LF     | 3.0          |                             |
| PM22D  | 642350000           | 6       |      | 2    | 100          | Pen.LF     | 4.0          |                             |
| †PM2B  | 446230700           | 11      |      | 2    | 100          |            | 2.5          |                             |
| †PM2BA | 446230700           | 11      |      | 2    | 100          |            | 2.1          |                             |
| †QP22A | 465230574           | 19      |      | 2    | 100          | Pen.LF     | 4.0          |                             |
| PM4DX  | 642300000           | 5       |      | 4    | 100          |            | 2.0          |                             |
| PM25   | 642350000           | 5 or 6  | S    | 6    | 100          | Pen.LF     | 1.6          |                             |
| *TH4   | 645231700           | 16      | G    | 4    | { 100<br>200 | { 75<br>75 | { 1.5<br>3.0 |                             |
| *TH4A  | 645231700           | 16      | G    | 4    | { 100<br>200 | { 75<br>75 | { 5.0<br>3.0 |                             |
| *FC4   | 645231700           | 16      | G    | 4    | { 100<br>200 | { 90<br>90 | { 1.3<br>2.5 |                             |
| TSP4   | 060231500           | 12      | G    | 4    | 200          | 150        | 4.7          |                             |
| VP4    | 040231500           | 7 or 9  | A    | 4    | 200          | 100        | 2.5          | IF 5-PIN 542310000          |
| VP4A   | 040231500           | 7 or 9  | A    | 4    | 200          | 100        | 3.3          | IF 5-PIN 542310000          |
| VP4B   | 060231500           | 12      | G    | 4    | 250          | 250        | 3.5          |                             |
| SP4    | 040231500           | 7 or 9  | A    | 4    | 200          | 100        | 3.0          | IF 5-PIN 542310000          |
| SP4B   | 060231500           | 12      | G    | 4    | 250          | 250        | 4.0          |                             |
| MM4V   | 542310000           | 7       | A    | 4    | 200          | 100        | 2.5          |                             |
| VM4V   | 542310000           | 7       | A    | 4    | 200          | 100        | 1.2          |                             |
| S4VA   | 542310000           | 7       | A    | 4    | 200          | 100        | 2.0          |                             |
| S4VB   | 542310000           | 7       | A    | 4    | 200          | 100        | 2.5          |                             |
| †2D4A  | 982310000           | 8       |      | 4    | D            |            |              |                             |
| †2D4B  | 091231800           | 15      |      | 4    | D            |            |              |                             |
| ‡TDD4  | 809231600           | 13      | G    | 4    | 100          |            | 2.9          |                             |
| 994V   | 642310000           | 5       |      | 4    | 100          |            | 3.6          |                             |
| TT4    | 642310000           | 5       |      | 4    | 100          |            | 5.5          |                             |
| 904V   | 642310000           | 5       |      | 4    | 100          |            | 3.5          |                             |
| 484V   | 642310000           | 5       |      | 4    | 100          |            | 2.2          |                             |
| 354V   | 642310000           | 5       |      | 4    | 100          |            | 3.8          |                             |
| 244V   | 642310000           | 5       |      | 4    | 100          |            | 2.8          |                             |
| 164V   | 642310000           | 5       |      | 4    | 100          |            | 4.5          |                             |
| 154V   | 642310000           | 5       |      | 4    | 100          |            | 2.0          |                             |

THE "AVO" VALVE TESTER

## MULLARD

| TYPE     | Selector Switch No. | V/H No. | T.C. | H.V. | A.V.         | S.V.       | MA/V.        | Remarks                           |
|----------|---------------------|---------|------|------|--------------|------------|--------------|-----------------------------------|
| 104V     | 642310000           | 5       |      | 4    | 100          |            | 4.0          |                                   |
| 054V     | 642310000           | 5       |      | 4    | 100          |            | 4.0          |                                   |
| Pen.4VA  | 045231600           | 5 or 10 | S    | 4    | 100          | Pen.LF     | 3.5          | IF 5-PIN 642310000                |
| Pen.4VB  | 045231600           | 10      |      | 4    | 100          | Pen.LF     | 10.0         |                                   |
| Pen.A4   | 045231600           | 10      |      | 4    | 100          | Pen.LF     | 10.0         |                                   |
| AC.104   | 642300000           | 5       |      | 4    | 100          |            | 3.5          |                                   |
| Pen.B4   | 045231600           | 10      |      | 4    | 100          | Pen.LF     | 8.5          |                                   |
| Pen.428  | 045231600           | 10      |      | 4    | 100          | Pen.LF     | 8.0          |                                   |
| AC.064   | 642300000           | 5       |      | 4    | 100          |            | 3.0          |                                   |
| AC.044   | 642300000           | 5       |      | 4    | 100          |            | 6.8          |                                   |
| AC.042   | 642300000           | 5       |      | 2    | 100          |            | 6.8          |                                   |
| PM.24    | 642350000           | 5 or 6  | S    | 4    | 100          | Pen.LF     | 1.75         |                                   |
| PM.24A   | 642350000           | 6       |      | 4    | 100          | Pen.LF     | 2.0          |                                   |
| PM.24M   | 642350000           | 6       |      | 4    | 100          | Pen.LF     | 3.0          |                                   |
| PM.24B   | 642350000           | 6       |      | 4    | 100          | Pen.LF     | 2.1          |                                   |
| PM.24C   | 642350000           | 6       |      | 4    | 100          | Pen.LF     | 3.0          |                                   |
| PM.24D   | 642350000           | 6       |      | 4    | 100          | Pen.LF     | 4.0          |                                   |
| D.O.20   | 642300000           | 5       |      | 7.5  | 100          |            | 2.5          |                                   |
| D.O.24   | 642300000           | 5       |      | 4    | 100          |            | 6.5          |                                   |
| D.O.25   | 642300000           | 5       |      | 6    | 100          |            | 3.75         |                                   |
| D.O.26   | 642300000           | 5       |      | 4    | 100          |            | 6.3          |                                   |
| V.P. 20  | 542310000           | 7       | A    | 20   | 200          | 100        | 2.5          |                                   |
| SP. 20   | 542310000           | 7       | A    | 20   | 200          | 100        | 2.7          |                                   |
| SG.20    | 542310000           | 7       | A    | 20   | 200          | 100        | 2.0          |                                   |
| ‡TDD.25  | 809231600           | 13      | G    | 20   | 100          |            | 2.0          |                                   |
| H.20     | 642310000           | 5       |      | 20   | 100          |            | 2.6          |                                   |
| HL20     | 642310000           | 5       |      | 20   | 100          |            | 2.5          |                                   |
| Pen.20   | 642310000           | 5 or 10 | S    | 20   | 100          | Pen.LF     | 2.5          | IF 7-PIN 045231600                |
| *FC.13   | 023164570           | 2       | G    | 13   | { 100<br>200 | { 90<br>90 | { 1.5<br>2.5 |                                   |
| VP13A    | 023100560           | 1       | G    | 13   | 200          | 100        | 2.2          |                                   |
| SP13     | 023100560           | 1       | G    | 13   | 200          | 100        | 2.2          |                                   |
| †2D13A   | 923180000           | 3       |      | 13   | D            |            |              |                                   |
| †2D13    | 023180000           | 3       | A    | 13   | D            |            |              | Anode selector at "normal" and D2 |
| HL13     | 023100060           | 1       | G    | 13   | 100          |            | 3.2          |                                   |
| Pen.26   | 023100560           | 1       | G    | 26   | 100          | 100        | 8.0          |                                   |
| *TH13C   | 645231700           | 16      | G    | 13   | { 100<br>200 | { 75<br>75 | { 1.5<br>3.6 |                                   |
| *TH21C   | 645231700           | 16      | G    | 20   | { 100<br>200 | { 75<br>75 | { 1.5<br>3.0 |                                   |
| *FC13C   | 645231700           | 16      | G    | 13   | { 100<br>200 | { 90<br>90 | { 1.5<br>2.5 |                                   |
| VP.13C   | 060231500           | 12      | G    | 13   | 200          | 200        | 3.0          |                                   |
| SP.13C   | 060231500           | 12      | G    | 13   | 200          | 200        | 3.5          |                                   |
| †2D13C   | 982310000           | 8       |      | 13   | D            |            |              |                                   |
| ‡TDD13C  | 809231600           | 13      | G    | 13   | 100          |            | 2.9          |                                   |
| HL13C    | 000231600           | 10      | G    | 13   | 100          |            | 3.2          |                                   |
| Pen.13C  | 045231600           | 10      |      | 13   | 100          | Pen.LF     | 6.5          |                                   |
| Pen.36C  | 045231600           | 10      |      | 35   | 100          | Pen.LF     | 8.0          |                                   |
| xDW2     | 892300000           | 8       |      | 4    | Rec          |            | 22 mA        |                                   |
| xDW3     | 892300000           | 8       |      | 4    | Rec          |            | 22 mA        |                                   |
| xDW4     | 892300000           | 8       |      | 4    | Rec          |            | 22 mA        |                                   |
| xIW3     | 892300000           | 8       |      | 4    | Rec          |            | 50 mA        |                                   |
| xIW4/350 | 892300000           | 8       |      | 4    | Rec          |            | 45 mA        |                                   |
| xIW4     | 892300000           | 8       |      | 4    | Rec          |            | 50 mA        |                                   |
| xURI     | 023100080           | 4       |      | 20   | Rec          |            | 70 mA        |                                   |
| xUR3     | 123180890           | 4       |      | 30   | Rec          |            | 65 mA        |                                   |

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| TYPE     | Selector Switch No. | V/H No. | T.C. | H.V. | A.V.         | S.V.         | MA/V                          | Remarks                        |
|----------|---------------------|---------|------|------|--------------|--------------|-------------------------------|--------------------------------|
| xURIC    | 802310000           | 8       |      | 20   | Rec.         |              | 70 mA                         |                                |
| xUR3C    | 091231800           | 15      |      | 30   | Rec.         |              | 65 mA                         |                                |
| xDW4/350 | 892310000           | 8       |      | 4    | Rec.         |              | 22 mA                         |                                |
| xHVR1    | 002300000           | 8       | A    | 2    | Rec.         |              | 1.3mA                         | Set anode selector at "normal" |
| xHVR2    | 002300000           | 8       | A    | 4    | Rec.         |              | 2.0 mA                        | Set anode selector at "normal" |
| VP2B     | 065230500           |         | G    | 2    | 125          | 60           | 1.4                           |                                |
| PEN412   | 045231600           | 10      |      | 4    | 100          | Pen.LF       | 10.0                          |                                |
| PEN40DD  | 819236500           |         | G    | 40   | 100          | Pen.LF       | 8.0                           |                                |
| PM12     | 542300000           | 7       | A    | 2    | 125          | 75           | 1.1                           |                                |
| PM1HF    | 642300000           | 5       |      | 2    | 100          |              | 0.8                           |                                |
| PM1LF    | 642300000           | 5       |      | 2    | 100          |              | 0.8                           |                                |
| QP22B    | 446235700           |         |      | 2    | 100          | Pen.LF       | 3.1                           |                                |
| *TH2     | 645231700           | 16      | G    | 2    | { 100<br>125 | { 60<br>60   | { 1.8<br>0.7                  |                                |
| TV4      | 023104560           |         |      | 4    | 100          |              |                               |                                |
| TV4A     | 023104560           |         |      | 4    | 100          |              |                               |                                |
| *TH4B    | 645231700           | 16      | G    | 4    | { 100<br>200 | { 100<br>100 | { 5.5<br>3.5                  |                                |
| TT4A     | 642310000           | 5       |      | 4    | 100          |              | 4.1                           |                                |
| SD4      | 045231800           |         | A    | 4    | 200          | 100          | 3.5                           |                                |
| DO30     | 642300000           | 5       |      | 4    | 100          |              | 4.0                           |                                |
| PM24E    | 642350000           | 6       |      | 4    | 100          | Pen.LF       |                               |                                |
| *TH22C   | 645231700           | 16      | G    | 30   | { 100<br>200 | { 75<br>75   | { 5.0<br>3.0                  |                                |
| TH30C    | 645231700           | 16      | G    | 30   | { 100<br>200 | { 75<br>75   | { 5.0<br>3.0                  |                                |
| xIW2     | 892300000           | 8       |      | 4    | Rec.         |              | 40mA                          |                                |
| xR21/150 | 892300000           | 8       |      | 4    | Rec.         |              |                               |                                |
| xFW4/500 | 892300000           | 8       |      | 4    | Rec.         |              | 30mA                          |                                |
| UCH 21   | 26795600            |         |      | 20   | 100          | 90           | 4 dia min 6000 2 1/2 dia 1000 |                                |

THE "AVO" VALVE TESTER

| TYPE     | Selector Switch No. | V/H No. | T.C. | H.V. | A.V.         | S.V.         | MA/V.        | Remarks                  |
|----------|---------------------|---------|------|------|--------------|--------------|--------------|--------------------------|
| 210VPT   | 542300000           | 7 or 9  | A    | 2    | 150          | 75           | 1.1          | IF 7-PIN 040230500       |
| 210SPT   | 542300000           | 7 or 9  | A    | 2    | 150          | 75           | 1.3          | IF 7-PIN 040230500       |
| 215SG    | 542300000           | 7       | A    | 2    | 150          | 75           | 1.1          |                          |
| 220SG    | 542300000           | 7       | A    | 2    | 150          | 75           | 1.6          |                          |
| 220VSG   | 542300000           | 7       | A    | 2    | 150          | 60           | 1.6          |                          |
| 220VS    | 542300000           | 7       | A    | 2    | 150          | 60           | 1.6          |                          |
| *210PG   | 645230700           | 16      | G    | 2    | { 150<br>150 | { 75<br>75   | { .4<br>1.5  |                          |
| *210SPG  | 645230700           | 16      | G    | 2    | { 150<br>150 | { 75<br>75   | { .5<br>1.5  |                          |
| 220DD    | 892310000           | 8       |      | 2    | D            |              |              |                          |
| 210HL    | 642300000           | 5       |      | 2    | 100          |              | 1.1          |                          |
| 210HF    | 642300000           | 5       |      | 2    | 100          |              | 1.5          |                          |
| 210DET   | 642300000           | 5       |      | 2    | 100          |              | 1.15         |                          |
| 210LF    | 642300000           | 5       |      | 2    | 100          |              | 1.4          |                          |
| 210DDT   | 682390000           | 5       | G    | 2    | 100          |              | 1.1          | Test triode section only |
| 215P     | 642300000           | 5       |      | 2    | 100          |              | 2.25         |                          |
| 220P     | 642300000           | 5       |      | 2    | 100          |              | 2.25         |                          |
| 220PA    | 642300000           | 5       |      | 2    | 100          |              | 4.0          |                          |
| 230XP    | 642300000           | 5       |      | 2    | 100          |              | 3.0          |                          |
| 220PT    | 642350000           | 5 or 6  | S    | 2    | 100          | Pen.LF       | 2.5          |                          |
| 230PT    | 642350000           | 5       | S    | 2    | 100          | Pen.LF       | 2.0          |                          |
| 220HPT   | 642350000           | 5 or 6  | S    | 2    | 100          | Pen.LF       | 2.5          |                          |
| 220OT    | 642350000           | 6       |      | 2    | 100          | 100          | 2.5          |                          |
| 220B     | 446230700           | 11      |      | 2    | 100          |              |              |                          |
| 240B     | 446230700           | 11      |      | 2    | 100          |              |              |                          |
| 240QP    | 447235600           | 11      |      | 2    | 100          | 100          | 2.5          |                          |
| MS/Pen   | 542310000           | 7 or 9  | A    | 4    | 20 J         | 100          | 3.5          | IF 7-PIN 040231500       |
| MS/PenA  | 542310000           | 7       | A    | 4    | 200          | 100          | 4.0          |                          |
| MVS/Pen  | 542310000           | 7 or 9  | A    | 4    | 200          | 100          | 3.0          | IF 7-PIN 040231500       |
| 41MSG    | 542310000           | 7       | A    | 4    | 150          | 60           | 2.5          |                          |
| MVSG     | 542310000           | 7       | A    | 4    | 200          | 75           | 2.5          |                          |
| MS/PENB  | 060231500           | 12      | G    | 4    | 200          | 100          | 3.5          |                          |
| MSG/HA   | 542310000           | 7       | A    | 4    | 200          | 75           | 2.0          |                          |
| MSG/LA   | 542310000           | 7       | A    | 4    | 200          | 75           | 3.75         |                          |
| MVS/PENB | 060231500           | 12      | G    | 4    | 200          | 100          | 3.0          |                          |
| *41MPG   | 645231700           | 16      | G    | 4    | { 100<br>200 | { 60<br>60   | { 1.0<br>3.0 |                          |
| *41STH   | 645231700           | 16      | G    | 4    | { 100<br>200 | { 100<br>100 | { 1.6<br>2.5 |                          |
| 41MTS    | 645231700           | 16      |      | 4    | 100          | 100          | 1.6          |                          |
| DDT      | 809231600           | 13      | G    | 4    | 100          |              | 2.4          |                          |
| 20TDD    | 869231500           | 14      | G    | 4    | 100          | Pen.LF       | 7.0          |                          |
| DDL4     | 892310000           | 8       |      | 4    | D            |              |              |                          |
| DD4      | 892310000           | 8       |      | 4    | D            |              |              |                          |
| 41MTA    | 642310000           | 5       |      | 4    | 100          |              | 4.0          |                          |
| 41MTB    | 642310000           | 5       |      | 4    | 100          |              | 2.6          |                          |
| 41MTL    | 642310000           | 5       |      | 4    | 100          |              | 3.0          |                          |
| 41MRC    | 642310000           | 5       |      | 4    | 100          |              | 2.6          |                          |
| 41MH     | 642310000           | 5       |      | 4    | 100          |              | 4.0          |                          |
| 41MLF    | 642310000           | 5       |      | 4    | 100          |              | 1.9          |                          |
| 41MHL    | 642310000           | 5       |      | 4    | 100          |              | 4.5          |                          |
| 41MP     | 642310000           | 5       |      | 4    | 100          |              | 7.5          |                          |
| 41MXP    | 642310000           | 5       |      | 4    | 100          |              | 7.5          |                          |

THE "AVO" VALVE TESTER

## COSSOR

| TYPE     | Selector Switch No. | V/H No. | T.C. | H.V. | A.V.         | S.V.         | MA/V.        | Remarks                        |
|----------|---------------------|---------|------|------|--------------|--------------|--------------|--------------------------------|
| 410PT    | 642350000           | 6       |      | 4    | 100          | Pen.LF       | 2.5          |                                |
| 41MPT    | 040231500           | 9       | A    | 4    | 200          | 150          | 4.8          |                                |
| 41SPT    | 642350000           | 6       |      | 4    | 100          | Pen.LF       | 2.0          |                                |
| MP/Pen   | 642310000           | 5 or 10 | S    | 4    | 100          | Pen.LF       | 3.5          | IF 7-PIN 045231600             |
| 42MP/Pen | 045231600           | 10      |      | 4    | 100          | Pen.LF       | 7.0          |                                |
| 42MPT    | 040231500           | 9       | A    | 4    | 200          | 100          | 7.0          |                                |
| PT41     | 642350000           | 6       |      | 4    | 100          | Pen.LF       | 3.0          |                                |
| PT41B    | 642350000           | 6       |      | 4    | 100          | Pen.LF       | 2.25         |                                |
| 42OT     | 045231600           | 10      |      | 4    | 200          | Pen.LF       | 7.0          |                                |
| 4XP      | 642300000           | 5       |      | 4    | 100          |              | 7.0          |                                |
| 13VPA    | 060231500           | 12      | G    | 13   | 200          | 100          | 1.8          |                                |
| 13SPA    | 060231500           | 12      | G    | 13   | 200          | 100          | 2.5          |                                |
| §13DHA   | 809231600           | 13      | G    | 13   | 100          |              | 1.5          |                                |
| *13PGA   | 645231700           | 16      | G    | 13   | { 100<br>200 | { 60<br>60   | { 1.0<br>2.5 |                                |
| DS/Pen   | 542310000           | 7       | A    | 16   | 200          | 100          | 3.0          |                                |
| DVS/Pen  | 542310000           | 7       | A    | 16   | 200          | 100          | 3.0          |                                |
| DVSG     | 542310000           | 7       | A    | 16   | 200          | 75           | 2.8          |                                |
| §DDT16   | 809231600           | 13      | G    | 16   | 100          |              | 2.5          |                                |
| DHL      | 642310000           | 5       | G    | 16   | 100          |              | 4.5          |                                |
| DP/Pen   | 045231600           | 10      |      | 16   | 100          | Pen.LF       | 3.5          |                                |
| DP       | 642310000           | 5       |      | 16   | 100          |              | 6.0          |                                |
| *202MPG  | 645231700           | 16      | G    | 20   | { 100<br>200 | { 60<br>60   | { 1.0<br>2.5 |                                |
| *202STH  | 645231700           | 16      | G    | 20   | { 100<br>200 | { 100<br>100 | { 1.6<br>1.5 |                                |
| §202DDT  | 809231600           | 13      | G    | 20   | 100          |              | 2.4          |                                |
| 40PPA    | 045231600           | 10      |      | 40   | 100          | Pen.LF       | 4.0          |                                |
| 402/Pen  | 005231600           | 10      | G    | 40   | 100          | Pen.LF       | 7.0          |                                |
| 402/P    | 000231600           | 10      | G    | 40   | 100          |              | 7.5          |                                |
| 402OT    | 005231600           | 10      | G    | 40   | 100          | Pen.LF       | 7.0          |                                |
| 680XP    | 642300000           | 5       |      | 6    | 100          |              | 1.1          |                                |
| 620T     | 642300000           | 5       |      | 6    | 100          |              | 2.3          |                                |
| 660T     | 642300000           | 5       |      | 6    | 100          |              | 7.5          |                                |
| x506BU   | 892300000           | 8       |      | 4    | Rec          |              | 17 mA        |                                |
| x442BU   | 892300000           | 8       |      | 4    | Rec          |              | 24 mA        |                                |
| x460BU   | 892300000           | 8       |      | 4    | Rec          |              | 22 mA        |                                |
| x40SUA   | 802310000           | 8       |      | 40   | Rec          |              | 75 mA        |                                |
| x441U    | 892300000           | 8       |      | 4    | Rec          |              | 22 mA        |                                |
| x431U    | 892300000           | 8       |      | 4    | Rec          |              | 24 mA        |                                |
| x405BU   | 892300000           | 8       |      | 4    | Rec          |              | 14 mA        |                                |
| x4/100BU | 892300000           | 8       |      | 4    | Rec          |              | 33 mA        |                                |
| xSU2130  | 002300000           | 8       | A    | 2    | Rec          |              | 3.5 mA       | Set anode selector to "normal" |
| xSU2150  | 002300000           | 8       | A    | 2    | Rec          |              | 1.5 mA       | Set anode selector to "normal" |
| §DD Pen  | 849231500           |         | A    | 4    | 200          | 100          | 2.7          |                                |
| x225 DU  | 082323900           |         |      | 2    | Rec          |              |              |                                |

THE "AVO" VALVE TESTER

## MAZDA

| TYPE       | Selector Switch No.      | V/H No.  | T.C.     | H.V.     | A.V.         | S.V.         | MA/V.        | Remarks                     |
|------------|--------------------------|----------|----------|----------|--------------|--------------|--------------|-----------------------------|
| SP215      | 040230500                | 9        | A        | 2        | 125          | 75           | 2.3          |                             |
| VP215      | 040230500                | 9        | A        | 2        | 125          | 75           | 1.8          |                             |
| VP210      | 040230500                | 9        | A        | 2        | 125          | 60           | 1.4          |                             |
| SP210      | 040230500                | 9        | A        | 2        | 125          | 100          | 1.7          |                             |
| *TP22      | 570230640                | 17       | G        | 2        | { 100<br>125 | { 60<br>60   | { 1.4<br>1.3 |                             |
| *TP23      | 645230700                | 16       | G        | 2        | { 150<br>150 | { 100<br>100 | { 2.1<br>1.2 |                             |
| HL2        | 642300000                | 5        |          | 2        | 100          |              | 1.5          |                             |
| L2         | 642300000                | 5        |          | 2        | 100          |              | 1.9          |                             |
| §HL21DD    | 682390000                | 5        | G        | 2        | 100          |              | 1.5          | Test on triode section only |
| §L21DD     | 682390000                | 5        | G        | 2        | 100          |              | 1.8          | Test on triode section only |
| §L2DD      | 682390000                | 5        | G        | 2        | 100          |              | 1.6          | Test on triode section only |
| P220       | 642300000                | 5        |          | 2        | 100          |              | 3.4          |                             |
| QP240      | 465230574                | 19       |          | 2        | 100          | Pen.LF       | 4.0          |                             |
| PD220      | 446230700                | 11       |          | 2        | 100          |              | .9           |                             |
| S215A      | 542300000                | 7        | A        | 2        | 125          | 60           | 1.1          |                             |
| SG215      | 542300000                | 7        | A        | 2        | 125          | 60           | 1.1          |                             |
| S215B      | 542300000                | 7        | A        | 2        | 125          | 60           | 1.7          |                             |
| S215VM     | 542300000                | 7        | A        | 2        | 125          | 60           | 1.4          |                             |
| H2         | 642300000                | 5        |          | 2        | 100          |              | 1.1          |                             |
| DD207      | 892300000                | 8        |          | 2        | D            |              |              |                             |
| P220A      | 642300000                | 5        |          | 2        | 100          |              | 3.5          |                             |
| Pen220A    | 642350000                | 6        |          | 2        | 100          | Pen.LF       | 2.5          |                             |
| PD220A     | 446230700                | 11       |          | 2        | 100          |              | 1.6          |                             |
| Pen220     | 642350000                | 6        |          | 2        | 100          | Pen.LF       | 2.5          |                             |
| Pen231     | 642350000                | 6        |          | 2        | 100          | Pen.LF       | 5.3          |                             |
| QP230      | 446235700                | 11       |          | 2        | 100          | Pen.LF       | 3.0          |                             |
| AC/VP1     | 040231500                | 9        | A        | 4        | 250          | 200          | 3.0          |                             |
| *AC/TP     | 570231640                | 17       | G        | 4        | { 100<br>250 | { 200<br>200 | { 1.4<br>3.4 |                             |
| V914       | 892310000                | 8        |          | 4        | D            |              |              |                             |
| DD620      | 892310000                | 8        |          | 6        | D            |              |              |                             |
| §AC/HLDD   | 809231600                | 13       | G        | 4        | 100          |              | 2.6          |                             |
| §AC/HLDDD  | 970231680                | 18       | G        | 4        | 100          |              | 2.7          |                             |
| AC/2Pen    | 045231600                | 10       |          | 4        | 100          | Pen.LF       | 8.0          |                             |
| §AC/2PenDD | 869231500                | 14       | G        | 4        | 100          | Pen.LF       | 8.0          |                             |
| PP3/250    | 642300000                | 5        |          | 4        | 100          |              | 6.5          |                             |
| PP5/400    | 642300000                | 5        |          | 4        | 100          |              | 6.0          |                             |
| AC/S2      | 542310000                | 7        | A        | 4        | 200          | 60           | 3.4          |                             |
| AC/S1VM    | { 542310000<br>040231500 | { 7<br>9 | { A<br>A | { 4<br>4 | { 200<br>200 | { 75<br>75   | { 1.1<br>1.1 |                             |
| AC/SGVM    | 542310000                | 7        | A        | 4        | 200          | 60           | 2.0          |                             |
| AC/SG      | 542310000                | 7        | A        | 4        | 200          | 60           | 1.9          |                             |
| AC/SP3     | 060231500                | 12       | G        | 4        | 200          | 150          | 7.5          |                             |
| AC/P2      | 642310000                | 5        |          | 4        | 100          |              | 3.75         |                             |
| AC/P4      | 642310000                | 5        | A        | 4        | 100          |              | 7.0          |                             |
| PA/40      | 642300000                | 5        |          | 4        | 100          |              | 10.0         |                             |
| AC/P1      | 642310000                | 5        |          | 4        | 100          |              | 3.7          |                             |
| AC/2HL     | 642310000                | 5        |          | 4        | 100          |              | 6.5          |                             |
| AC/Pen     | 642310000                | 5 or 10  | S        | 4        | 100          | Pen.LF       | 2.5          | IF 7-PIN 045231600          |
| AC4/Pen    | 045231600                | 10       |          | 4        | 250          | Pen.LF       | 10.0         |                             |
| AC/S2Pen   | 040231500                | 9        | A        | 4        | 200          | 100          | 5.5          |                             |
| AC/HL      | 642310000                | 5        |          | 4        | 100          |              | 3.0          |                             |

THE "AVO" VALVE TESTER

## MAZDA

| TYPE       | Selector Switch No. | V/H No. | T.C. | H.V. | A.V.         | S.V.         | MA/V.        | Remarks |
|------------|---------------------|---------|------|------|--------------|--------------|--------------|---------|
| AC/SP1     | 040231500           | 9       | A    | 4    | 250          | 200          | 2.7          |         |
| AC/VP2     | 060231500           | 12      | G    | 4    | 250          | 200          | 3.0          |         |
| *AC/TH1    | 645231700           | 16      | G    | 4    | { 100<br>250 | { 100<br>100 | { 5.3<br>3.8 |         |
| DC2/SG     | 542310000           | 7       | A    | 20   | 200          | 60           | 1.5          |         |
| DC2/SGVM   | 542310000           | 7       | A    | 20   | 200          | 60           | 1.5          |         |
| DC3/HL     | 642310000           | 5       |      | 25   | 100          |              | 3.0          |         |
| §DC2/HLDD  | 809231600           | 13      | G    | 25   | 100          |              | 2.0          |         |
| DC2/P      | 642310000           | 5       |      | 35   | 100          |              | 3.75         |         |
| DC2/Pen    | 045231600           | 10      |      | 35   | 100          | Pen.LF       | 2.5          |         |
| VP1321     | 040231500           | 9       | A    | 13   | 250          | 200          | 3.0          |         |
| *TP2620    | 570231640           | 17      | G    | 26   | { 100<br>250 | { 200<br>200 | { 1.4<br>3.4 |         |
| *TP1340    | 570231640           | 17      | G    | 13   | { 100<br>250 | { 200<br>200 | { 1.4<br>3.4 |         |
| HL1320     | 000231600           | 10      | G    | 13   | 100          |              | 3.0          |         |
| §HL/DD1320 | 809231600           | 13      | G    | 13   | 100          |              | 2.0          |         |
| Pen3520    | 045231600           | 10      |      | 35   | 100          | Pen.LF       | 7.0          |         |
| Pen1340    | 045231600           | 10      |      | 13   | 100          | Pen.LF       | 6.5          |         |
| §PenDD4021 | 869231500           | 14      | G    | 40   | 200          | Pen.LF       | 10.0         |         |
| §PenDD4020 | 869231500           | 14      | G    | 40   | 100          | Pen.LF       | 7.0          |         |
| §PenDD1360 | 869231500           | 14      | G    | 13   | 100          | Pen.LF       | 8.0          |         |
| PP3521     | 040231600           | 10      |      | 35   | 100          |              | 10           |         |
| VP1322     | 060231500           | 12      | G    | 13   | 250          | 200          | 3.0          |         |
| SP2220     | 040231500           | 9       | A    | 20   | 250          | 200          | 3.0          |         |
| *TH2620    | 645231700           | 16      | G    | 26   | { 100<br>250 | { 100<br>100 | { 5.3<br>3.8 |         |
| *TH2320    | 645231700           | 16      | G    | 20   | { 100<br>250 | { 100<br>100 | { 5.3<br>3.8 |         |
| PA20       | 642300000           | 5       |      | 2    | 100          |              | 6.5          |         |
| xUU/2      | 892300000           | 8       |      | 4    | Rec          |              | 16 mA        |         |
| xUU/3      | 892300000           | 8       |      | 4    | Rec          |              | 35 mA        |         |
| xUU/4      | 892300000           | 8       |      | 4    | Rec          |              | 35 mA        |         |
| xUU/5      | 892300000           | 8       |      | 4    | Rec          |              | 30 mA        |         |
| xU4020     | 802310000           | 8       |      | 40   | Rec          |              | 76 mA        |         |
| TAC/ME     | 045231600           |         |      | 4    | 100          |              |              |         |
| AC/SPen    | 045231600           | 10      |      | 4    | 100          | Pen.LF       | 8.0          |         |
| §AC/SPen   | 869231500           | 14      | G    | 4    | 100          | Pen.LF       | 8.0          |         |
| Pen3820    | 045231600           | 10      |      | 40   | 100          | 100          | 10.0         |         |
| HL22       | 206040030           |         |      | 2    | 100          |              | 1.5          |         |
| §L22DD     | 206080930           |         | G    | 2    | 100          |              | 2.0          |         |
| Pen24      | 206540030           |         |      | 2    | 100          | Pen.LF       | 5.3          |         |
| VP133      | 216500030           |         | G    | 13   | 200          | 150          | 3.0          |         |
| §HL41DD    | 216080930           |         | G    | 4    | 100          |              | 2.3          |         |
| §HL133DD   | 216080930           |         | G    | 13   | 100          |              | 2.3          |         |
| SP22       | 206500030           |         | G    | 2    | 125          | 100          | 1.7          |         |
| VP22       | 206500030           |         | G    | 2    | 125          | 60           | 1.4          |         |
| §HL22DD    | 206080930           |         | G    | 2    | 100          |              | 1.5          |         |
| HL41       | 216040030           |         |      | 4    | 100          |              | 3.4          |         |
| HL133      | 216040030           |         |      | 13   | 100          |              | 3.0          |         |
| VP41       | 216500030           |         | G    | 4    | 250          | 200          | 3.0          |         |
| †DD41      | 218090130           |         |      | 4    | D            |              |              |         |
| †DD101     | 218090130           |         |      | 10   | D            |              |              |         |
| *TH2321    | 645231700           | 16      | G    |      | { 100<br>150 | { 100<br>100 | { 5.3<br>3.0 |         |

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## MAZDA

| TYPE       | Selector Switch No. | V/H No. | T.C. | H.V. | A.V.         | S.V.         | MA/V.        | Remarks        |
|------------|---------------------|---------|------|------|--------------|--------------|--------------|----------------|
| AC6Pen     | 045231000           |         | A    | 4    | 100          | Pen.LF       | 8.5          |                |
| SP42       | 216500030           |         | G    | 4    | 200          | 100          | 9.0          |                |
| SP41       | 216500030           |         | G    | 4    | 200          | 200          | 8.5          |                |
| †ME41      | 216040530           |         |      | 4    | 100          |              |              |                |
| VP23       | 206500030           |         | G    | 2    | 125          | 60           | 1.1          |                |
| VP21       | 040230500           | 9       | A    | 2    | 150          | 60           | 1.0          |                |
| SP21       | 040230500           | 9       | A    | 2    | 150          | 75           | 1.0          |                |
| HL23       | 206040030           |         |      | 2    | 100          |              | 1.5          |                |
| §HL23DD    | 206080930           |         | G    | 2    | 100          |              | 1.2          |                |
| Pen25      | 206540030           |         |      | 2    | 100          | Pen.LF       | 3.0          |                |
| †QP25      | 206544730           |         |      | 2    | 100          | Pen.LF       | 3.0          |                |
| Pen23      | 642350000           | 6       |      | 2    | 100          | Pen.LF       | 5.0          |                |
| OP22       | 642350000           | 6       |      | 2    | 100          | Pen.LF       | 2.0          |                |
| T2         | 642300000           | 5       |      | 2    | 100          |              | 1.0          |                |
| *TP23      | 645230700           | 16      | G    | 2    | { 100<br>150 | { 60<br>60   | { 2.1<br>1.2 |                |
| *TP25      | 207640530           |         | G    | 2    | { 100<br>150 | { 60<br>60   | { 1.7<br>1.0 |                |
| *TP26      | 207641530           |         | G    | 2    | { 100<br>150 | { 75<br>75   | { 1.3<br>1.5 |                |
| xU21       | 002300000           | 8       | A    | 2    | Rec.         |              |              | Test at normal |
| xMU2       | 002300000           | 8       | A    | 2    | Rec.         |              |              | Test at normal |
| xU22       | 200000030           |         | A    | 2    | Rec.         |              |              | Test at normal |
| *ACTHIA    | 217640530           |         | G    | 4    | { 100<br>250 | { 100<br>100 | { 5.3<br>3.1 |                |
| *TH41      | 217640530           |         | G    | 4    | { 100<br>200 | { 100<br>100 | { 5.3<br>3.1 |                |
| §HL42DD    | 216081930           |         | G    | 4    | 100          |              | 2.6          |                |
| PA40       | 642300000           | 5       |      | 4    | 100          |              | 10.0         |                |
| ACP        | 642310000           | 5       |      | 4    | 100          |              | 3.7          |                |
| AC2P       | 642310000           | 5       |      | 4    | 100          |              | 7.0          |                |
| P41        | 216040030           |         |      | 4    | 100          |              | 8.0          |                |
| Pen44      | 216540030           |         |      | 4    | 100          | Pen.LF       | 10.0         |                |
| Pen45      | 216541030           |         |      | 4    | 100          | Pen.LF       | 9.0          |                |
| Pen46      | 210540030           |         | A    | 4    | 100          | Pen.LF       | 8.5          |                |
| AC3Pen     | 045231600           | 10      |      | 4    | 100          | Pen.LF       | 6.5          |                |
| §Pen4 DD   | 216580930           |         | G    | 4    | 100          | Pen.LF       | 9.0          |                |
| §PenDD61   | 869231500           | 14      | G    | 6    | 100          | Pen.LF       | 7.0          |                |
| xUU6       | 208090030           |         |      | 4    | Rec.         |              |              |                |
| xUU7       | 208090030           |         |      | 4    | Rec.         |              |              |                |
| xU403      | 201080030           |         |      | 4    | Rec.         |              |              |                |
| xUU8       | 208090030           |         |      | 4    | Rec.         |              |              |                |
| †ME920     | 045231600           |         |      | 10   | 100          |              |              |                |
| †ME91      | 216040530           |         |      | 10   | 100          |              |              |                |
| §HL1340DD  | 216081930           |         | G    | 13   | 100          |              | 2.6          |                |
| Pen383     | 216540030           |         |      | 40   | 100          | Pen.LF       | 10.0         |                |
| §Pen453DD  | 216580930           |         | G    | 40   | 100          | Pen.LF       | 10.0         |                |
| §PenDD2530 | 869231500           | 14      | G    | 26   | 100          | Pen.LF       | 7.0          |                |

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**TUNGSRAM**

| TYPE    | Selector Switch No.    | V/H No. | T.C. | H.V. | A.V.         | S.V.       | MA/V.       | Remarks                     |
|---------|------------------------|---------|------|------|--------------|------------|-------------|-----------------------------|
| *VO2    | 645230700              | 16      | G    | 2    | { 100<br>150 | { 60<br>60 | { .6<br>1.0 |                             |
| HP210   | 542300000<br>040230500 | 7       | A    | 2    | 150          | 150        | 1.9         |                             |
| HP210   |                        | 9       | A    | 2    | 150          | 150        | 1.9         |                             |
| VP2D    | 060230500              | 12      | G    | 2    | 125          | 125        | 2.0         |                             |
| SP2D    | 060230500              | 12      | G    | 2    | 125          | 125        | 1.7         |                             |
| SS210   | 542300000              | 7       | A    | 2    | 150          | 75         | 1.4         |                             |
| HP211   | 542300000<br>040230500 | 7       | A    | 2    | 150          | 150        | 1.7         |                             |
| HP211   |                        | 9       | A    | 2    | 150          | 150        | 1.7         |                             |
| SP2B    | 060230500              | 12      | G    | 2    | 125          | 125        | 1.0         |                             |
| VP2B    | 060230500              | 12      | G    | 2    | 125          | 125        | 0.65        |                             |
| SE211   | 542300000              | 7       | A    | 2    | 150          | 75         | 1.5         |                             |
| VP2     | 060230500              | 12      | G    | 2    | 125          | 125        | 0.65        |                             |
| HR2     | 642300000              | 5       |      | 2    | 100          |            | 0.6         |                             |
| HR210   | 642300000              | 5       |      | 2    | 100          |            | 1.3         |                             |
| LD210   | 642300000              | 5       |      | 2    | 100          |            | 1.3         |                             |
| LL2     | 642300000              | 5       |      | 2    | 100          |            | 2.6         |                             |
| P215    | 642300000              | 5       |      | 2    | 100          |            | 1.5         |                             |
| LP220   | 642300000              | 5       |      | 2    | 100          |            | 3.5         |                             |
| SP220   | 642300000              | 5       |      | 2    | 100          |            | 3.0         |                             |
| PP225   | 642300000              | 5       |      | 2    | 100          | Pen.LF     | 3.0         |                             |
| PP222   | 642300000<br>642350000 | 5       | S    | 2    | 100          | Pen.LF     | 3.0         |                             |
| PP222   |                        | 6       |      | 2    | 100          | Pen.LF     | 3.0         |                             |
| PP230   | 642350000              | 6       |      | 2    | 100          | Pen.LF     | 2.0         |                             |
| §DDT2   | 682390000              | 5       | G    | 2    | 100          |            | 1.4         | Test on triode section only |
| §DDT2B  | 682390000              | 5       | G    | 2    | 100          |            | 1.0         | Test on triode section only |
| †CB220  | 446230700              | 11      |      | 2    | 100          |            |             |                             |
| †CB215  | 446230700              | 11      |      | 2    | 100          |            |             |                             |
| AS4120  | 542310000              | 7       | A    | 4    | 200          | 100        | 3.0         |                             |
| HP4101  | 542310000<br>040231500 | 7       | A    | 4    | 200          | 100        | 3.5         |                             |
| HP4101  |                        | 9       | A    | 4    | 200          | 100        | 3.5         |                             |
| HP4105  | 542310000              | 7       | A    | 4    | 200          | 100        | 3.5         |                             |
| SP4B    | 060231500              | 12      | G    | 4    | 250          | 200        | 4.0         |                             |
| AS4125  | 542310000              | 7       | A    | 4    | 200          | 100        | 3.0         |                             |
| VP4B    | 060231500              | 12      | G    | 4    | 250          | 200        | 4.0         |                             |
| HP4106  | 542310000<br>040231500 | 7       | A    | 4    | 200          | 100        | 3.5         |                             |
| HP4106  |                        | 9       | A    | 4    | 200          | 100        | 3.5         |                             |
| HP4115  | 542310000<br>040231500 | 7       | A    | 4    | 200          | 100        | 3.2         |                             |
| HP4115  |                        | 9       | A    | 4    | 200          | 100        | 3.2         |                             |
| HL4     | 642310000              |         |      | 4    | 100          |            | 3.5         |                             |
| HL4 +   |                        |         |      | 4    | 100          |            | 5.0         |                             |
| O15/400 | 642310000              | 5       |      | 4    | 100          |            | 4.0         |                             |
| PP4     | 642350000              | 6       |      | 4    | 100          | Pen.LF     | 10.0        |                             |
| APP4B   | 045231600              | 10      |      | 4    | 100          | Pen.LF     | 10.0        |                             |
| APP4C   | 045231600              | 10      |      | 4    | 100          | Pen.LF     | 10.0        |                             |
| P15/250 | 642300000              | 5       |      | 4    | 100          |            | 6.0         |                             |
| P12/250 | 642300000              | 5       |      | 4    | 100          |            | 6.0         |                             |
| APP4120 | 642310000<br>045231600 | 5       | S    | 4    | 100          | Pen.LF     | 3.5         |                             |
| APP4120 |                        | 10      |      | 4    | 100          | Pen.LF     | 3.5         |                             |
| APP4E   | 045231600              | 10      |      | 4    | 100          | Pen.LF     | 8.5         |                             |
| APP4D   | 045231600              | 10      |      | 4    | 100          | Pen.LF     | 7.0         |                             |
| §DDT4   | 809231600              | 13      | G    | 4    | 100          |            | 3.6         |                             |
| †DD4    | 892310000              | 8       |      | 4    | D            |            |             |                             |
| AR495   | 642310000              | 5       |      | 4    | 100          |            | 5.0         |                             |
| AR4101  | 642310000              | 5       |      | 4    | 100          |            | 3.0         |                             |

TELEΦΥΝΤΙΚΗ APP4120

TELEΦΩΝ ΚΕΝ 904

THE "AVO" VALVE TESTER

**TUNGSRAM**

| TYPE    | Selector Switch No.    | V/H No. | T.C. | H.V. | A.V.         | S.V.       | MA/V.          | Remarks |
|---------|------------------------|---------|------|------|--------------|------------|----------------|---------|
| HL4G    | 000231600              | 10      | G    | 4    | 100          |            | 3.5            |         |
| APP4A   | 045231600              | 10      |      | 4    | 250          | Pen.LF     | 3.5            |         |
| §DDPP4B | 869231500              | 14      | G    | 4    | 250          | Pen.LF     | 10.0           |         |
| P26/500 | 642300000              | 5       |      | 4    | 100          |            | 7.0            |         |
| P27/500 | 642300000              | 5       |      | 4    | 100          |            | 8.5            |         |
| P30/500 | 642300000              | 5       |      | 4    | 100          |            | 4.0            |         |
| P25/500 | 642300000              | 5       |      | 6    | 100          |            | 3.0            |         |
| P24/450 | 642300000              | 5       |      | 7.5  | 100          |            | 2.1            |         |
| P28/500 | 642300000              | 5       |      | 7.5  | 100          |            | 2.2            |         |
| *VO4    | 645231700              | 16      | G    | 4    | { 100<br>200 | { 75<br>75 | { 1.25<br>1.75 |         |
| *TX4    | 645231700              | 16      | G    | 4    | { 100<br>200 | { 75<br>75 | { 1.5<br>3.0   |         |
| SP13    | 060231500              | 12      | G    | 13   | 200          | 100        | 2.4            |         |
| SP13B   | 060231500              | 12      | G    | 13   | 250          | 200        | 3.5            |         |
| VP13    | 060231500              | 12      | G    | 13   | 200          | 100        | 2.8            |         |
| VP13B   | 060231500              | 12      | G    | 13   | 250          | 200        | 3.5            |         |
| HP13    | 060231500              | 12      | G    | 13   | 200          | 100        | 3.5            |         |
| HL13    | 000231600              | 10      | G    | 13   | 100          |            | 3.5            |         |
| †DD13   | 892310000              | 8       |      | 13   | D            |            |                |         |
| §DDT13  | 809231600              | 13      | G    | 13   | 100          |            | 3.6            |         |
| *VO13   | 645231700              | 16      | G    | 13   | { 100<br>200 | { 75<br>75 | { 1.25<br>1.75 |         |
| *TX21   | 645231700              | 16      | G    | 20   | { 100<br>200 | { 75<br>75 | { 1.5<br>3.0   |         |
| HP2018  | 542310000              | 7       | A    | 20   | 200          | 100        | 3.5            |         |
| SS2018  | 542310000              | 7       | A    | 20   | 200          | 100        | 3.0            |         |
| S2018   | 542310000              | 7       | A    | 20   | 200          | 60         | 1.2            |         |
| HP2118  | 542310000<br>040231500 | 7       | A    | 20   | 200          | 100        | 3.5            |         |
| HP2118  |                        | 9       | A    | 20   | 200          | 100        | 3.5            |         |
| R2018   | 642310000              | 5       |      | 20   | 100          |            | 3.0            |         |
| P2018   | 642310000              | 5       |      | 20   | 100          |            | 4.0            |         |
| PP2018  | 642310000              | 5       | S    | 20   | 100          | Pen.LF     | 2.5            |         |
| §DDPP39 | 869231500              | 14      | G    | 35   | 100          | Pen.LF     | 8.5            |         |
| PP35    | 045231600              | 10      |      | 35   | 100          | Pen.LF     | 8.5            |         |
| PP36    | 045231600              | 10      |      | 35   | 100          | Pen.LF     | 8.5            |         |
| PP6E    | 045231600              | 10      |      | 6    | 100          | Pen.LF     | 8.5            |         |
| xPV4    | 892300000              | 8       |      | 4    | Rec          |            | 16 mA          |         |
| xPV4201 | 892300000              | 8       |      | 4    | Rec          |            | 30 mA          |         |
| xAPV4   | 892300000              | 8       |      | 4    | Rec          |            | 15 mA          |         |
| xPV4200 | 892300000              | 8       |      | 4    | Rec          |            | 15 mA          |         |
| xV2118  | 892300000              | 8       |      | 20   | Rec          |            | 66 mA          |         |
| xV30    | 892300000              | 8       |      | 30   | Rec          |            | 55 mA          |         |
| LL4     | 642310000              | 5       |      | 4    | 100          |            | 3.0            |         |
| TVME4   | 045231600              |         |      | 4    | 100          |            |                |         |
| TME4S   | 023104560              |         |      | 4    | 100          |            |                |         |
| §DDPP6B | 869231500              | 14      | G    | 6    | 100          | Pen.LF     | 10.0           |         |
| VX2     | 065230500              |         | G    | 2    | 125          | 60         | 1.5            |         |
| HL2     | 642300000              | 5       |      | 2    | 100          |            | 1.5            |         |
| *ECH2   | 023164570              | 2       | G    | 6    | { 100<br>200 | { 75<br>75 | { 5.0<br>3.0   |         |
| *EK2    | 023164570              | 2       | G    | 6    | { 100<br>200 | { 75<br>75 | { 0.5<br>1.75  |         |
| EF6     | 023100560              | 1       | G    | 6    | 200          | 100        | 2.0            |         |
| EF8     | 023100560              | 1       | G    | 6    | 200          | 100        | 1.3            |         |
| EF9     | 023100560              | 1       | G    | 6    | 200          | 100        | 2.2            |         |
| †EB4    | 023180910              |         |      | 6    | D            |            |                |         |
| §EBC3   | 023198060              |         | G    | 6    | 100          |            | 1.6            |         |

THE "AVO" VALVE TESTER



TUNGSRAM

| TYPE        | Selector Switch No. | V/H No. | T.C. | H.V. | A.V. | S.V.   | MA/V.  | Remarks        |
|-------------|---------------------|---------|------|------|------|--------|--------|----------------|
|             | 023104560           |         |      | 6    | 100  | Pen.LF | 9.0    |                |
|             | 023104560           |         |      | 6    | 100  | Pen.LF | 8.5    |                |
|             | 023193560           |         | G    | 6    | 100  | Pen.LF | 9.5    |                |
| EL3         |                     |         |      | 2    | 150  | 150    | 1.7    |                |
| EV6         |                     |         |      | 2    | 150  | 150    | 1.7    |                |
| EHL1        | 542300000           | 7       | A    | 2    | 150  | 150    | 1.9    |                |
|             | 040230500           | 9       | A    | 2    | 150  | 150    | 1.9    |                |
| HP211C      | 542300000           | 7       | A    | 2    | 100  | Pen.LF | 1.7    |                |
|             | 040230500           | 9       | A    | 2    | 100  | Pen.LF | 1.7    |                |
| HP210NC     | 642350000           | 6       |      | 2    | 100  |        | 1.7    |                |
| FP215       | 446230700           | 11      |      | 2    | 100  | 60     | 0.6    |                |
| CB215       | 023064570           | 2       | G    | 2    | 125  | 125    | 1.0    |                |
| *VO2S       | 023000560           | 1       | G    | 2    | 100  |        | 1.0    |                |
| SP2B5       | 023089060           |         | G    | 2    | 100  |        | 0.6    |                |
| DDT2B5      | 023004060           |         |      | 2    | 100  |        | 2.6    |                |
| HR2S        | 023004060           |         |      | 2    | 100  | Pen.LF | 1.7    |                |
| LL2         | 023004560           |         |      | 2    | 100  | Pen.LF | 2.1    |                |
| PP215S      | 023004560           |         |      | 2    | 100  | Pen.LF | 3.0    |                |
| PP2S        | 023064470           |         |      | 4    | D    |        | 1.7    |                |
| PP225S      |                     |         |      | 4    | D    |        |        |                |
| CB215S      | 081231900           |         |      | 4    | 100  | 75     | 0.6    |                |
| DD4D        | 645231700           | 16      | G    | 4    | 250  | 75     | 1.4    |                |
| *NH410S     |                     |         |      | 4    | 100  | 75     | 5.0    |                |
|             | 645231700           | 16      | G    | 4    | 200  | 75     | 3.0    |                |
| *TH4A       |                     |         |      | 4    | 100  | 75     | 5.0    |                |
|             | 645231700           | 16      | G    | 4    | 200  | 100    | 3.5    |                |
| *TH4B       | 060231500           | 12      | G    | 4    | Rec. |        |        | Test at normal |
| SP4         | 102300000           |         | A    | 4    | 100  | Pen.LF | 10.0   |                |
| XD418       | 060231500           | 12      | G    | 4    | Rec. |        |        |                |
| APP4G       | 892300000           | 8       |      | 4    | Rec. |        |        | Test at normal |
| xRV120/500  | 892300000           | 8       | A    | 4    | Rec. |        |        |                |
| xRG250/1000 | 002300000           | 8       | G    | 4    | 200  | 100    | 3.5    |                |
| xV20/7000   | 023100560           |         |      | 4    | Rec. |        |        |                |
| SP4S        | 023080090           |         |      | 6    | Rec. |        |        |                |
| RV120/500S  | 892310000           | 8       |      | 6    | D    |        |        |                |
| xPV6B       | 892310000           | 8       |      | 6    | D    |        |        |                |
| DD6         | 023164570           | 2       | G    | 13   | 100  | 75     | 1.25   |                |
|             |                     |         |      | 13   | 200  | 100    | 1.75   |                |
| *VO133      | 023100560           | 1       | G    | 13   | 200  | 100    | 2.8    |                |
| VP13S       | 023100560           | 1       | G    | 13   | 200  | 100    | 2.4    |                |
| SP13S       | 023004060           |         | G    | 13   | 100  |        | 3.5    |                |
| HL13S       | 023198060           |         | G    | 13   | 100  | Pen.LF | 3.5    |                |
| DDT13S      | 023100560           | 1       | G    | 13   | 100  | Pen.LF | 2.65   |                |
| PP13S       | 045231600           | 10      | G    | 26   | 100  | Pen.LF | 8.0    |                |
| PP13A       | 045231600           | 10      | G    | 35   | 100  | Pen.LF | 8.0    |                |
| PP24        | 045231600           | 10      | G    | 35   | 100  | Pen.LF | 8.0    |                |
| FP34        | 023100560           | 1       | G    | 4    | 35   | 100    | Pen.LF | 8.0            |
| FP34S       | 023100560           | 1       | G    | 4    | 35   | 100    | Pen.LF | 8.0            |
| CL6         | 023100560           | 1       | G    | 4    | 26   | 100    | Pen.LF | 8.0            |
| PP24S       | 023198560           |         | G    | 40   | 100  | Pen.LF | 8.0    |                |
| DDPP39S     | 023104560           |         |      | 6    | 100  |        |        |                |
| ME6S        |                     |         |      | 6    | 100  |        |        |                |
| CL4         | 023100560           |         | G    | 6    | 100  | 15     | 8.0    |                |
| FF3         | 023100560           |         | G    | 6    | 100  |        | 2.2    |                |
| C15C3       | 023198000           |         | G    | 6    | 100  |        | 1.6    |                |

THE "AVO" VALVE TESTER

HIVAC

| TYPE       | Selector Switch No. | V/H No. | T.C. | H.V.  | A.V.       | S.V.     | MA/V.      | Remarks                     |
|------------|---------------------|---------|------|-------|------------|----------|------------|-----------------------------|
| *TP230     | 570230640           | 17      | G    | 2     | 100<br>150 | 75<br>75 | 1.1<br>1.4 |                             |
| SG215      | 542300000           | 7       | A    | 2     | 125        | 75       | 1.0        |                             |
| SG220      | 542300000           | 7       | A    | 2     | 125        | 75       | 1.5        |                             |
| VS215      | 542300000           | 7       | A    | 2     | 150        | 75       | 1.0        |                             |
| HP215      | 040230500           | 9       | A    | 2     | 150        | 75       | 1.2        |                             |
| VP215      | 040230500           | 9       | A    | 2     | 150        | 75       | 1.25       |                             |
| H210       | 642300000           | 5       |      | 2     | 100        |          | 1.15       |                             |
| D210       | 642300000           | 5       |      | 2     | 100        |          | 1.35       |                             |
| D210SW     | 602300000           | 5       | G    | 2     | 100        |          | 1.35       |                             |
| §DDT220    | 682390000           | 5       | G    | 2     | 100        |          | 1.6        | Test on triode section only |
| §DDT215    | 682390000           | 5       | G    | 2     | 100        |          | 1.6        | Test on triode section only |
| L210       | 642300000           | 5       |      | 2     | 100        |          | 1.6        |                             |
| P215       | 642300000           | 5       |      | 2     | 100        |          | 2.2        |                             |
| P220       | 642300000           | 5       |      | 2     | 100        |          | 3.0        |                             |
| PP220      | 642300000           | 5       |      | 2     | 100        |          | 3.0        |                             |
| PX230      | 642300000           | 5       |      | 2     | 100        |          | 3.5        |                             |
| PX230SW    | 602300000           | 5       | G    | 2     | 100        |          | 3.5        |                             |
| Y220       | 642350000           | 5 or 6  | S    | 2     | 100        | Pen.LF   | 2.5        |                             |
| YB230      | 446230700           | 11      |      | 2     | 100        |          |            |                             |
| Z220       | 642350000           | 5 or 6  | S    | 2     | 100        | Pen.LF   | 2.5        |                             |
| QP240      | 446235700           | 11      |      | 2     | 100        | Pen.LF   | 2.3        |                             |
| AC/SL      | 542310000           | 7       | A    | 4     | 200        | 75       | 3.3        |                             |
| AC/VS      | 542310000           | 7       | A    | 4     | 200        | 75       | 3.0        |                             |
| AC/SH      | 542310000           | 7       | A    | 4     | 200        | 75       | 3.5        |                             |
| AC/VH      | 542310000           | 7       | A    | 4     | 200        | 75       | 3.3        |                             |
| AC/HP      | 040231500           | 9       | A    | 4     | 200        | 100      | 3.2        |                             |
| AC/VP      | 040231500           | 9       | A    | 4     | 200        | 100      | 3.0        |                             |
| AC/DD      | 809231000           | 13      |      | 4     | D          |          |            |                             |
| §AC/DDT    | 809231600           | 13      | G    | 4     | 100        |          | 2.3        |                             |
| AC/HL      | 642310000           | 5       |      | 4     | 100        |          | 3.5        |                             |
| EC/L       | 642310000           | 5       |      | 4     |            | 100      | 4.25       |                             |
| AC/Q       | 045231600           | 10      |      | 4     | 100        | Pen.LF   | 6.0        |                             |
| PX41       | 642300000           | 5       |      | 4     | 100        |          | 6.0        |                             |
| PX5        | 642300000           | 5       |      | 4     | 100        |          | 6.5        |                             |
| FY         | 642350000           | 6       |      | 4     | 100        | Pen.LF   | 5.0        |                             |
| AC/Y       | 642310000           | 5 or 10 | S    | 4     | 100        | Pen.LF   | 3.5        | IF 7-PIN 045231600          |
| AC/YY      | 045231600           | 10      |      | 4     | 100        | Pen.LF   | 7.5        |                             |
| AC/Z       | 045231600           | 10      |      | 4     | 100        | Pen.LF   | 8.0        |                             |
| §AC/ZDD    | 869231500           | 14      | G    | 4     | 100        | Pen.LF   | 8.0        |                             |
| VP13       | 040231500           | 9       | A    | 13    | 200        | 100      | 3.0        |                             |
| HL13       | 000231600           | 10      | G    | 13    | 100        |          | 3.5        |                             |
| §DDT13     | 809231600           | 13      | G    | 13    | 100        |          | 2.3        |                             |
| Y13        | 045231600           | 10      |      | 13    | 100        | Pen.LF   | 4.0        |                             |
| Z26        | 045231600           | 10      |      | 26    | 100        | Pen.LF   | 8.0        |                             |
| xUU60/250  | 892310000           | 8       |      | 4     | Rec        |          | 24 mA      |                             |
| xUU120/350 | 892310000           | 8       |      | 4     | Rec        |          | 42 mA      |                             |
| xUU120/500 | 892310000           | 8       |      | 4     | Rec        |          | 44 mA      |                             |
| oxU26      | 281331900           | 15      |      | 26/13 | Rec        |          | 50 mA      |                             |
| SG220SW    | 652300000           |         | G    | 2     | 125        | 75       | 1.5        |                             |

THE "AVO" VALVE TESTER

EVER READY

| TYPE  | Selector Switch No. | V/H No. | T.C. | H.V. | A.V.         | S.V.       | MA/V.        | Remarks                     |
|-------|---------------------|---------|------|------|--------------|------------|--------------|-----------------------------|
| *K80A | 645230700           | 16      | G    | 2    | { 80<br>125  | { 75<br>75 | { .4<br>.8   |                             |
| *K80B | 645230700           | 16      | G    | 2    | { 100<br>100 | { 75<br>75 | { .5<br>1.0  |                             |
| *K50M | 040230500           | 9       | A    | 2    | 150          | 150        | 1.75         |                             |
| K40B  | 542300000           | 7       | A    | 2    | 125          | 75         | 1.5          |                             |
| K40N  | 542300000           | 7       | A    | 2    | 150          | 90         | 1.4          |                             |
| §K23A | 682390000           | 5       | G    | 2    | 100          |            | 1.4          | Test on triode section only |
| §K23B | 682390000           | 5       | G    | 2    | 100          |            | 1.2          | Test on triode section only |
| K30K  | 642300000           | 5       |      | 2    | 100          |            | 1.4          |                             |
| K30D  | 642300000           | 5       |      | 2    | 100          |            | 1.5          |                             |
| K30E  | 642300000           | 5       |      | 2    | 100          |            | 1.5          |                             |
| K70B  | 642350000           | 5 or 6  | S    | 2    | 100          | Pen.LF     | 2.5          |                             |
| K70D  | 642350000           | 6       |      | 2    | 100          | Pen.LF     | 4.0          |                             |
| †K33A | 446230700           | 11      |      | 2    | 100          |            | 2.5          |                             |
| †K33B | 446230700           | 11      |      | 2    | 100          |            | 2.1          |                             |
| †K77A | 465230574           | 19      |      | 2    | 100          | Pen.LF     | 4.0          |                             |
| *A36A | 645231700           | 16      | G    | 4    | { 100<br>200 | { 75<br>75 | { 1.5<br>3.0 |                             |
| *A36B | 645231700           | 16      | G    | 4    | { 100<br>200 | { 75<br>75 | { 5.0<br>3.0 |                             |
| *A80A | 645231700           | 16      | G    | 4    | { 100<br>200 | { 90<br>90 | { 1.3<br>2.5 |                             |
| A50M  | 542310000           | 7 or 9  | A    | 4    | 200          | 100        | 2.5          | IF 7-PIN 040231500          |
| A40M  | 542310000           | 7       | A    | 4    | 200          | 100        | 2.5          |                             |
| A50N  | 542310000           | 7 or 9  | A    | 4    | 280          | 100        | 3.3          | IF 7-PIN 040231500          |
| A50A  | 542310000           | 7 or 9  | A    | 4    | 200          | 100        | 3.0          | IF 7-PIN 040231500          |
| A50B  | 060231500           | 12      | G    | 4    | 250          | 250        | 4.0          |                             |
| A50P  | 060231500           | 12      | G    | 4    | 250          | 250        | 3.5          |                             |
| †A20B | 982310000           | 8       |      | 4    | D            |            |              |                             |
| §A23A | 809231600           | 13      | G    | 4    | 100          |            | 2.9          |                             |
| A30B  | 642310000           | 5       |      | 4    | 100          |            | 2.2          |                             |
| A30D  | 642310000           | 5       |      | 4    | 100          |            | 3.2          |                             |
| A70B  | 642310000           | 5 or 10 | S    | 4    | 100          | Pen.LF     | 3.5          | IF 7-PIN 045231600          |
| A70C  | 045231600           | 10      |      | 4    | 100          | Pen.LF     | 10.0         |                             |
| A70D  | 045231600           | 10      |      | 4    | 100          | Pen.LF     | 10.0         |                             |
| A70E  | 045231600           | 10      |      | 4    | 100          | Pen.LF     | 8.5          |                             |
| S30D  | 642300000           | 5       |      | 4    | 100          |            | 5.0          |                             |
| S30C  | 642300000           | 5       |      | 4    | 100          |            | 6.8          |                             |
| xS11A | 892300000           | 8       |      | 4    | Rec          |            | 22 mA        |                             |
| xA11B | 892300000           | 8       |      | 4    | Rec          |            | 50 mA        |                             |
| xA11A | 892300000           | 8       |      | 4    | Rec          |            | 22 mA        |                             |
| xS11D | 892300000           | 8       |      | 4    | Rec          |            | 22 mA        |                             |
| xA11C | 892300000           | 8       |      | 4    | Rec          |            | 50 mA        |                             |
| xA11D | 892300000           | 8       |      | 4    | Rec          |            | 45 mA        |                             |
| †C20C | 982310000           | 8       |      | 13   | D            |            |              |                             |
| C30B  | 000231600           | 10      | G    | 13   | 100          |            | 3.2          |                             |
| §C23B | 809231600           | 13      | G    | 13   | 100          |            | 2.9          |                             |
| *C36A | 645231700           | 16      | G    | 20   | { 100<br>200 | { 75<br>75 | { 1.5<br>3.0 |                             |
| *C80B | 645231700           | 16      | G    | 13   | { 100<br>200 | { 90<br>90 | { 1.5<br>2.5 |                             |
| C50B  | 060231500           | 12      | G    | 13   | 200          | 200        | 3.5          |                             |
| C50N  | 060231500           | 12      | G    | 13   | 200          | 200        | 3.0          |                             |

THE "AVO" VALVE TESTER

EVER READY

| TYPE              | Selector Switch No. | V/H No. | T.C. | H.V. | A.V.         | S.V.       | MA/V.                     | Remarks                   |
|-------------------|---------------------|---------|------|------|--------------|------------|---------------------------|---------------------------|
| C70D              | 045231600           | 10      |      | 35   | 100          | Pen.LF     | 8.0                       |                           |
| xC10B             | 802310000           | 8       |      | 20   | Rec          |            | 70 mA                     |                           |
| §A27D             | 819236500           |         | G    | 4    | 100          | Pen.LF     | 9.5                       |                           |
| K50N              | 065230500           |         | G    | 2    | 150          | 75         | 1.4                       |                           |
| K30A              | 642300000           | 5       |      | 2    | 100          |            | 0.8                       |                           |
| K30B              | 642300000           | 5       |      | 2    | 100          |            | 0.9                       |                           |
| K30C              | 642300000           | 5       |      | 2    | 100          |            | 1.2                       |                           |
| K30G              | 642300000           | 5       |      | 2    | 100          |            | 2.0                       |                           |
| *C36B             | 645231700           | 16      | G    | 30   | { 100<br>200 | { 75<br>75 | { 5.0<br>3.0              |                           |
| <b>TELEFUNKEN</b> |                     |         |      |      |              |            |                           |                           |
| LB 1              | 1032189160          |         |      |      | 200          | Pen.LF     | 8                         |                           |
| GY                | 1032100060          |         |      |      | Rec.         |            | 80 mA                     |                           |
| EE                | 1032110500          |         |      |      | 250          | 100        | 2.5                       |                           |
| UCH 11            | 1285541630          |         |      |      | 150          | 100        | 1.5                       | 1.5 (Pen.LF) 2.5 (Rec) 4  |
| UGL 11            | 1259441630          |         |      |      | 80           | 80         | 1                         | 1.5 (Pen.LF) 1.25 (Rec) 4 |
| UPF 11            | 1285541630          |         |      |      | 150          | 45         | 1.5 (D.C.)                |                           |
| UY 11             | 1509510000          |         |      |      | Rec.         |            | 1 (1.5 (Pen.LF) 2 (Rec) 4 |                           |
| EC 43             | 1023144160          |         |      |      | 100          | 45         | 1                         | 1.25 (Rec) 4.5            |
| CK 2              | -                   |         |      |      | 100          | 45         | 1                         | 1.25 (Rec) 4.5            |

THE "AVO" VALVE TESTER

## BRIMAR

| TYPE   | Selector Switch No. | V/H No. | T.C. | H.V. | A.V.         | S.V.         | MA/V.        | Remarks |
|--------|---------------------|---------|------|------|--------------|--------------|--------------|---------|
| PenB1  | 642350000           | 6       |      | 2    | 100          | Pen.LF       | 2.5          |         |
| *1SA2  | 645231700           | 16      | G    | 4    | { 100<br>200 | { 100<br>100 | { .6<br>3.9  |         |
| 9A1    | 542310000           | 7       | A    | 4    | 200          | 100          | 4.25         |         |
| 9A1    | 040231500           | 9       | A    | 4    | 200          | 100          | 4.25         |         |
| 8A1    | 542310000           | 7       | A    | 4    | 200          | 100          | 4.0          |         |
| 8A1    | 040231500           | 9       | A    | 4    | 200          | 100          | 4.0          |         |
| HLA2   | 642310000           | 5       |      | 4    | 100          |              | 5.5          |         |
| \$11A2 | 809231600           | 13      | G    | 4    | 100          |              | 2.8          |         |
| 7A2    | 045231600           | 10      |      | 4    | 100          | Pen.LF       | 3.2          |         |
| PA1    | 642310000           | 5       |      | 4    | 80           |              | 10.0         |         |
| 7A3    | 045231600           | 10      |      | 4    | 100          | Pen.LF       | 10.0         |         |
| PenA1  | 642350000           | 6       |      | 4    | 100          | Pen.LF       | 3.0          |         |
| *15D1  | 645231700           | 16      | G    | 13   | { 100<br>200 | { 100<br>100 | { .6<br>4.6  |         |
| 9D2    | 060231500           | 12      | G    | 13   | 250          | 150          | 1.65         |         |
| \$11D3 | 809231600           | 13      | G    | 13   | 100          |              | 1.2          |         |
| 4D1    | 000231600           | 10      | G    | 13   | 100          |              | 4.0          |         |
| 10D1   | 982310000           | 8       |      | 13   | D            |              |              |         |
| ZD5    | 045231600           | 10      |      | 13   | 200          | Pen.LF       | 2.6          |         |
| 8D2    | 060231500           | 9       |      | 13   | 200          | 100          | 1.25         |         |
| ZD8    | 045231600           | 10      |      | 13   | 100          | Pen.LF       | 10.0         |         |
| ZD6    | 045231600           | 10      |      | 40   | 100          | Pen.LF       | 10.0         |         |
| ZD3    | 045231600           | 10      | A    | 40   | 100          | Pen.LF       | 3.8          |         |
| xR1    | 892310000           | 8       |      | 4    | Rec          |              | 40 mA        |         |
| xR2    | 892310000           | 8       |      | 4    | Rec          |              | 32 mA        |         |
| xR3    | 892310000           | 8       |      | 4    | Rec          |              | 44 mA        |         |
| x1D5   | 802310000           | 8       |      | 40   | Rec          |              | 65 mA        |         |
| *20A1  | 645231700           | 16      | G    | 4    | { 100<br>200 | { 100<br>100 | { 0.6<br>1.5 |         |

THE "AVO" VALVE TESTER

## FERRANTI

| TYPE   | Selector Switch No. | V/H No. | T.C. | H.V. | A.V.         | S.V.         | MA/V.       | Remarks |
|--------|---------------------|---------|------|------|--------------|--------------|-------------|---------|
| L2     | 642300000           | 5       |      | 2    | 100          |              | 1.6         |         |
| *VHT4  | 645231700           | 16      | G    | 4    | { 100<br>250 | { 60<br>60   | { .5<br>2.3 |         |
| VPT4   | 542310000           | 7       | A    | 4    | 250          | 100          | 2.6         |         |
| SPT4A  | 040231500           | 9       | A    | 4    | 250          | 100          | 3.0         |         |
| VPT4B  | 040231500           | 9       | A    | 4    | 250          | 100          | 3.6         |         |
| \$H4D  | 809231600           | 13      | G    | 4    | 100          |              | 2.7         |         |
| D4     | 642310000           | 5       |      | 4    | 100          |              | 3.3         |         |
| LP4    | 642300000           | 5       |      | 4    | 100          |              | 5.4         |         |
| \$PT4D | 869231500           | 14      | G    | 4    | 100          | Pen.LF       | 7.5         |         |
| *VHTA  | 645231700           | 16      | G    | 13   | { 100<br>250 | { 100<br>100 | { .5<br>2.6 |         |
| VPTA   | 040231500           | 9       | A    | 13   | 250          | 100          | 2.9         |         |
| \$HAD  | 809231600           | 13      | G    | 13   | 100          |              | 2.9         |         |
| DA     | 000231600           | 10      | G    | 13   | 100          |              | 3.5         |         |
| PTA    | 045231600           | 10      |      | 13   | 100          | Pen.LF       | 4.0         |         |
| PTZ    | 005231600           | 10      | G    | 40   | 100          | Pen.LF       | 7.5         |         |
| xR4    | 892300000           | 8       |      | 4    | Rec          |              | 20 mA       |         |

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## AMERICAN

| TYPE          | Selector Switch No. | V/H No. | T.C. | F.V. | A.V.       | S.V.      | MA/V.     | Remarks   |
|---------------|---------------------|---------|------|------|------------|-----------|-----------|---|
| 6B7<br>6B7S   | 265891300           | 20      | G    | 6    | 250        | 100       | 1.0       |   |
| 6B8           | 026895310           | 1       | G    | 6    | 250        | 100       | 1.3       |   |
| 6B8G          | 026895310           | 1       | G    | 6    | 250        | 100       | 1.0       | Test pentode at D1 and one diode at D2          |
| 6C5<br>6C5G   | 026040310           | 3       |      | 6    | 100        |           | 2         |   |
| 6C6           | 265013000           | 13      | G    | 6    | 200        | 100       | 1.3       |   |
| 6C7           | 260891300           | 20      | G    | 6    | 100        |           | 1.5       | Caution screen "live" during test               |
| 6C8G          | 026147310           | 4       | G    | 6    | 100        |           | 1.5       | Duo triode                                      |
| 6D6           | 265013000           | 13      | G    | 6    | 250        | 100       | 1.8       |   |
| 6D7           | 265001300           | 18      | G    | 6    | 200        | 100       | 1.3       |   |
| 6D8G          | 027546310           | 3       | G    | 6    | 100<br>250 | 60<br>100 | .5<br>1.5 |   |
| 6E7           | 265001300           | 18      | G    | 200  | 6          | 100       | 1.8       |   |
| 6F5<br>6F5G   | 020600310           | 2       | G    | 6    | 100        |           | 1.5       |   |
| 6F6<br>6F6G   | 026540310           | 3       |      | 6    | 100        | Pen.LF    | 2.6       |   |
| 6F7<br>6F7S   | 275641300           | 19      | G    | 6    | 100<br>200 | 100       | .5<br>1.2 |   |
| 6H6<br>6H6G   | 028190310           | 1       |      | 6    | D          |           |           |   |
| 6J5G          | 026040310           | 3       |      | 6    | 100        |           | 2.6       |   |
| 6J7<br>6J7G   | 026500310           | 3       | G    | 6    | 200        | 100       | 1.25      |   |
| 6K5G          | 026000310           | 2       | G    | 6    | 100        |           | 1.5       | Anode selector at A2                            |
| 6K6G          | 026540310           | 3       |      | 6    | 100        | Pen.LF    | 1.8       |   |
| 6K7<br>6K7G   | 026500310           | 3       | G    | 6    | 200        | 100       | 1.5       |   |
| 6L5G          | 026040310           | 3       |      | 6    | 100        |           | 1.5       |   |
| 6L6<br>6L6G   | 026540310           | 3       |      | 6    | 100        | Pen.LF    | 6.0       |   |
| 6L7<br>6L7G   | 026540310           | 3       | G    | 6    | 200        | 100       | 1.5       |   |
| 6N7<br>6N7G   | 026447310           | 4       |      | 6    | 100        |           |           | Duo triode                                      |
| 6Q7<br>6Q7G   | 026890310           | 2       | G    | 6    | 100        |           | 1.5       | Test triode at A2 and diodes at "normal" and D1 |
| 6R7<br>6R7G   | 026890310           | 2       | G    | 6    | 100        |           | 2.75      | Test triode at A2 and diodes at "normal" and D1 |
| 6S7G          | 026500310           | 3       | G    | 6    | 200        | 100       | 1.6       |   |
| 6T7G          | 026890310           | 2       | G    | 6    | 100        |           | 1.0       | Test triode at A2 and diodes at "normal" and D1 |
| 6U7G          | 026500310           | 3       | G    | 6    | 250        | 100       | 1.8       |   |
| 6V6<br>6V6G   | 026540310           | 3       |      | 6    | 100        | Pen.LF    | 4.1       |   |
| 6V7G          | 026890310           | 2       | G    | 6    | 100        | Pen.LF    | 1.5       | Test triode at A2 and diodes at "normal" and D1 |
| x6X5<br>x6X5G | 028090310           | 1       |      | 6    | Rec        |           | 40 mA     |   |
| 10Y7G         | 026447310           | 4       |      | 6    | 100        |           |           | Duo triode                                      |
| 10            | 264300000           | 5       |      | 7.5  | 100        |           | 2         |   |
| 12A           | 264300000           | 5       |      | 5    | 100        |           | 2.5       |   |
| x12Z3         | 281300000           | 8       |      | 13   | Rec        |           | 60 mA     |   |
| 15            | 265130000           | 11      | G    | 2    | 80         | 60        | .8        |   |
| 19            | 264473000           | 15      |      | 2    | 100        |           |           | Duo triode—Selector at D1 and D2                |
| 24A<br>24S    | 265130000           | 11      | G    | 2.5  | 100        | 90        | 1.2       |   |

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## AMERICAN

| TYPE             | Selector Switch No. | V/H No. | T.C. | F.V. | A.V. | S.V.   | MA/V. | Remarks    |
|------------------|---------------------|---------|------|------|------|--------|-------|------------|
| 25A6             | 026540310           | 3       |      | 26   | 80   | 70     | 3.0   |            |
| 25A6G            | 026540310           | 3       |      | 26   | 100  | 90     | 3.5   |            |
| 25B6G            | 026540310           | 3       |      | 26   | 100  | 100    | 4.0   |            |
| 25L6<br>25L6G    | 026540310           | 3       |      | 26   | 100  | Pen.LF | 8.0   |            |
| x25Y5            | 281193000           | 15      |      | 26   | Rec  |        | 40 mA |            |
| x25Z5            | 281193000           | 15      |      | 26   | Rec  |        | 60 mA |            |
| x25Z5G           | 028190310           | 1       |      | 26   | Rec  |        | 60 mA |            |
| x25Z6<br>x25Z6G  | 028190310           | 1       |      | 26   | Rec  |        | 60 mA |            |
| 27<br>27S        | 264130000           | 10      |      | 2.5  | 100  |        | 1.5   |            |
| 30               | 264300000           | 5       |      | 2    | 100  |        | 1.25  |            |
| 31               | 264300000           | 5       |      | 2    | 100  |        | 1.25  |            |
| 32               | 265300000           | 7       | G    | 2    | 150  | 60     | .75   |            |
| 33               | 264530000           | 9       |      | 2    | 100  | Pen.LF | 1.75  |            |
| 34               | 265300000           | 7       | G    | 2    | 80   | 75     | .7    |            |
| 35/51<br>35S/51S | 265130000           | 11      | G    | 2.5  | 200  | 90     | 1.2   |            |
| 36               | 265130000           | 11      | G    | 6    | 200  | 90     | 1.25  |            |
| 37               | 264130000           | 10      |      | 6    | 100  |        | 1.75  |            |
| 38               | 265130000           | 11      | G    | 6    | 100  | Pen.LF | 1.2   |            |
| 39/44            | 265130000           | 11      | G    | 6    | 200  | 90     | 1.1   |            |
| 40               | 264300000           | 5       |      | 5    | 100  |        | .2    |            |
| 41               | 265413000           | 13      |      | 6    | 100  | Pen.LF | 1.8   |            |
| 42               | 265413000           | 13      |      | 6    | 100  | Pen.LF | 2.5   |            |
| 43               | 265413000           | 13      |      | 26   | 100  | 90     | 3.5   |            |
| 44               | 265130000           | 11      | G    | 6    | 100  | 100    | 1.0   |            |
| 45               | 264300000           | 5       |      | 2.5  | 100  |        | 2.5   |            |
| 46               | 264530000           | 9       |      | 2.5  | 100  | Pen.LF | 2.5   |            |
| 47               | 264530000           | 9       |      | 2.5  | 100  | Pen.LF | 2.5   |            |
| 48               | 265413000           | 13      |      | 30   | 100  | 90     | 4     |            |
| 49               | 264530000           | 9       |      | 2    | 100  | Pen.LF | 1.4   |            |
| 50               | 264300000           | 5       |      | 7.5  | 100  |        | 2     |            |
| 51               | 265130000           | 11      | G    | 2.5  | 250  | 75     | 1.1   |            |
| 55S<br>55SS      | 268913000           | 14      | G    | 2.5  | 100  |        | 1.5   |            |
| 56<br>56S        | 264130000           | 10      |      | 2.5  | 100  |        | 2.5   |            |
| 56AS             | 264130000           | 10      |      | 6    | 100  |        | 2.5   |            |
| 57<br>57S        | 265013000           | 13      | G    | 2.5  | 250  | 100    | 1.3   |            |
| 57AS             | 265013000           | 13      | G    | 6.3  | 250  | 100    | 1.8   |            |
| 58<br>58S        | 265013000           | 13      | G    | 2.5  | 250  | 100    | 1.8   |            |
| 58AS             | 265013000           | 13      | G    | 6.3  | 200  | 100    | 1.6   |            |
| 71A              | 264300000           | 5       |      | 5    | 100  |        | 2.0   |            |
| 75S<br>75S       | 268913000           | 14      | G    | 6    | 100  |        | 1.1   |            |
| 76               | 264130000           | 10      |      | 6    | 100  |        | 1.5   |            |
| 77               | 265013000           | 13      | G    | 6    | 200  | 100    | 1.25  |            |
| 78               | 265013000           | 13      | G    | 6    | 200  | 100    | 1.4   |            |
| 79               | 264173000           | 17      | G    | 6    | 100  |        |       | Duo triode |
| x80              | 289300000           | 6       |      | 5    | Rec  |        | 15 mA |            |
| x81              | 280300000           | 6       |      | 7.5  | Rec  |        | 70 mA |            |
| x82              | 289300000           | 6       |      | 2.5  | Rec  |        | 70 mA |            |
| x83              | 289300000           | 6       |      | 5    | Rec  |        | 80 mA |            |

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| TYPE          | Selector Switch No. | V/H No. | T.C. | F.V. | A.V.       | S.V.       | MA/V.     | Remarks |
|---------------|---------------------|---------|------|------|------------|------------|-----------|---------|
| x83V          | 289300000           | 6       |      | 5    | Rec        |            | 50 mA     |         |
| x84           | 289130000           | 12      |      | 6    | Rec        |            | 40 mA     |         |
| 885           | 268913000           | 14      | G    | 6    | 100        |            | 1.5       |         |
| 885AS         | 268913000           | 14      | G    | 6    | 100        |            | 1.5       |         |
| 89            | 265013000           | 13      | G    | 6    | 100        | Pen.LF     | 2.5       |         |
| 182B/482E     | 264300000           | 5       |      | 5    | 100        |            | 2.0       |         |
| 183/483       | 264300000           | 5       |      | 5    | 100        |            | 1.5       |         |
| 950           | 264530000           | 9       |      | 2    | 150        | Pen.LF     | 1         |         |
| GA            | 264530000           | 9       |      | 5    | 200        | Pen.LF     | 2.0       |         |
| PZ            | 264530000           | 9       |      | 2.5  | 250        | Pen.LF     | 2.0       |         |
| PZH           | 265401300           | 18      |      | 2.5  | 250        | Pen.LF     | 3.1       |         |
| 21OT          | 264300000           | 5       |      | 7.5  | 100        |            | 1.3       |         |
| 86            | 264130000           | 10      |      | 6    | 100        |            | 2.5       |         |
| 86S           | 264130000           | 10      |      | 6    | 100        |            | 2.5       |         |
| 01B           | 264300000           | 5       |      | 5    | 100        |            | 1.0       |         |
| 41M           | 026540310           | 3       |      | 6    | 100        | Pen.LF     | 2.2       |         |
| 77M           | 026500310           | 3       | G    | 6    | 200        | 100        | 1.2       |         |
| 85M           | 026890310           | 2       | G    | 6    | 100        |            | 1.1       |         |
| 86M           | 026040300           | 3       |      | 6    | 100        |            | 1.4       |         |
| 88M           | 026500310           | 3       | G    | 6    | 200        | 100        | 1.6       |         |
| 1A4P          | 265300000           | 7       | G    | 2    | 125        | 60         | .7        |         |
| 1B4P          | 265300000           | 7       | G    | 2    | 125        | 60         | .7        |         |
| 1B5/25S       | 268943000           |         |      | 2    | 100        |            | .6        |         |
| 1D5GP         | 026500300           | 3       | G    | 2    | 125        | 60         | .7        |         |
| *1D7G         | 027546300           |         | G    |      | 125<br>150 | 60<br>60   | .3<br>.75 |         |
| 1E7G          | 026447350           |         |      | 2    | 100        | Pen.LF     | 1.8       |         |
| 1F4           | 264530000           | 9       |      | 2    | 100        | Pen.LF     | 1.8       |         |
| 1H6G          | 026894300           |         |      | 2    | 100        |            | .7        |         |
| 12E5          | 264513000           |         |      | 2    | 100        |            |           |         |
| x5T4          | 020809030           | 2       |      | 5    | Rec        |            | 70 mA     |         |
| x5X4G         | 008090230           |         |      | 5    | Rec        |            | 30 mA     |         |
| x5Y4G         | 008090230           |         |      | 5    | Rec        |            | 15 mA     |         |
| x5Y3          | 020809030           |         |      | 5    | Rec        |            | 15 mA     |         |
| 6ACSG         | 026040310           | 3       |      | 6    | 100        |            | 3.4       |         |
| *6A7M         | 027546310           | 3       | G    | 6    | 125<br>125 | 60<br>60   | .5<br>1.5 |         |
| 16B5          | 276413000           |         |      | 6    | 100        |            | 2.4       |         |
| 16B6M/75M     | 026890310           |         | G    | 6    | 100        |            | 1.1       |         |
| 16E5          | 264513000           |         |      | 6    | 100        |            |           |         |
| 16E6          | 264147300           |         |      | 6    | 100        |            | 2.8       |         |
| 16F8G         | 026147300           |         | G    | 6    | 100        |            | 1.6       |         |
| 16N6<br>16N6G | 027640310           |         |      | 6    | 100        |            | 2.4       |         |
| *6P7G         | 023756410           |         | G    | 6    | 100<br>200 | 100<br>100 | .5<br>1.2 |         |
| x6T5          | 264513000           |         |      | 6    | 100        |            |           |         |
| x6X5G         | 264513000           |         |      | 6    | 100        |            |           |         |
| 16Y7G         | 026447310           |         |      | 6    | Rec        |            | 40 mA     |         |
| 16Y6G         | 026540310           | 3       |      | 6    | 100        | Pen.LF     | 7.0       |         |
| ox6Z5         | 238193000           |         |      | 6    | Rec        |            | 60 mA     |         |
| x6ZY5G        | 028090310           |         |      | 6    | Rec        |            | 20 mA     |         |
| 16Z7G         | 026447310           |         |      | 6    | 100        |            |           |         |
| 6F6M          | 026540310           | 3       |      | 6    | 100        | Pen.LF     | 2.5       |         |

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| TYPE     | Selector Switch No. | V/H No. | T.C. | F.V. | A.V.        | S.V.   | MA/V         | Remarks  |
|----------|---------------------|---------|------|------|-------------|--------|--------------|--|
| 16G5     | 264513000           |         |      | 6    | 100         |        |              |  |
| o12A5    | 365412300           |         |      | 6    | 100         | Pen.LF | 2.3          |  |
| ox12Z5   | 381219300           |         |      | 6    | Rec.        |        | 60 mA        |  |
| 125B5    | 276413000           |         |      | 26   | 100         |        | 2.3          |  |
| 125N6G   | 027640310           |         |      | 26   | 100         |        | 2.3          |  |
| 12A7     | 265181300           |         | G    | 13   | 100<br>Rec. | Pen.LF | 1.0<br>18 mA | Rect. Sec. Tested<br>with Anode Selector<br>at DI. + |
| 25A7G    | 126548310           |         |      | 26   | 100<br>Rec. | Pen.LF | 1.8<br>35 mA |  |
| 11C5     | 265134030           |         |      | 1.4  | 80          |        | .75          |  |
| 11D5     | 265804030           |         |      | 1.4  | 80          |        | .6           |  |
| x2X3     | 020800030           |         |      | 2.5  | Rec.        |        |              |  |
| x5W4     | 020809030           |         |      | 5    | Rec.        |        |              |  |
| 16AB6G   | 026740310           |         |      | 6    | 100         |        |              |  |
| 16E5     | 264513000           |         |      | 6    | 100         |        |              |  |
| 6R6      | 025060031           |         |      | 6    | 200         | 100    | 1.5          |  |
| 16S5     | 264513000           |         |      | 6    | 100         |        |              |  |
| 16T7     | 026890310           |         | G    | 6    | 100         |        | 1.1          |  |
| 16SC7/GT | 064471230           |         |      | 6    | 100         |        | 1.3          |  |
| 16ST7    | 041896230           |         |      | 6    | 100         |        | 1.9          |  |
| 6SH7     | 021415360           |         |      | 6    | 250         | 150    | 5.0          |  |
| 6SG7     | 021415360           |         |      | 6    | 250         | 150    | 4.0          |  |
| 16X6     | 026540310           |         |      | 6    | 100         |        |              |  |
| 16Y7     | 026447310           |         |      | 6    | 100         |        |              |  |
| x6ZY5    | 028090310           |         |      | 6    | Rec.        |        |              |  |
| x6Z6     | 028190310           |         |      | 6    | Rec.        |        |              |  |
| 112B6M   | 026080310           |         | G    | 13   | 100         |        | 1.1          |  |
| x12H6    | 028190310           |         |      | 13   | Rec.        |        |              |  |
| 12SG7    | 021415360           |         |      | 13   | 250         | 150    | 4.0          |  |
| 12SH7    | 021415360           |         |      | 13   | 250         | 150    | 5.0          |  |
| 25B6     | 026540310           |         |      | 25   | 100         |        |              |  |
| ox35Z5   | 023080210           |         |      | 16   | Rec.        |        |              |  |
| x35Z4    | 020080310           |         |      | 35   | Rec.        |        |              |  |

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