Radio, Television, Industrial Tube, Transistor and Diode Equivalents Handbook

by B. B. BABANI

BERNARDS (Publishers) LTD.

THE GRAMPIANS
WESTERN GATE
LONDON W.6

General Editor: CLIVE SINCLAIR

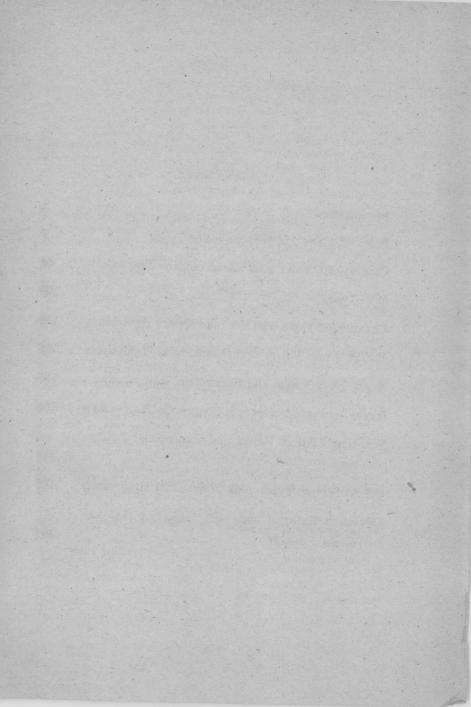
First Published January 1960

We invite all authors, whether new or well established, to submit manuscripts for publication. The manuscripts may deal with any facet of electronics but should always be practical. Any circuit diagrams that may be included should have been thoroughly checked by the author. If you are considering trying your hand at writing this type of book we suggest that you let us have a short summary of the subject you intend to cover. We will then be able to let you know the size of book required and perhaps give you some advice on presentation.

C. M. S.

Printed by

V. Cooper & Partners Ltd., Flitcroft Street, London, W.C.2 for Bernards (Publishers) Ltd., The Grampians, Western Gate, London, W.6



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INTRODUCTION

Due to the introduction of many hundreds of new types of receiving valves during the last two years, it has been decided to adopt in this latest edition an entirely new method of presentation, otherwise the book would become unwieldy in use. At the same time, because of many requests we have included in addition all industrial and transmitting valves with their equivalents and all diodes and transistors with their equivalents, therefore there are some 8,000 more types included in this book than in any other previous book either published by ourselves or any other publisher.

To use the table of commercial equivalents, find the valve or semi-conductor to be replaced in the index. Against the type there is shown a number denoting the section in the equivalents portion of the book in which this type appears; every other type in this section is a directly interchangeable equivalent.

When replacing a valve in the high frequency stages of a receiver it should be remembered that re-alignment is desirable to ensure peak performance.

Attention is drawn to the industrial types quoted in the Equivalent Tables. These have been developed to meet the stringent demands of modern industry where reliability is of the utmost importance, electrically they have standard equivalents. An example is type 6058, for normal working this may be replaced with a 6AL5 or an EB91, but if the equipment is intended for continuous working conditions an industrial long life type should be selected.

Certain valves are suitable for use with either parallel or series heater circuits, that is AC or AC/DC equipment. Equivalents of a given valve are not necessarily suitable for both applications. An example is the 0M10. Types 6K8, X147, 6C31, ECH35, X61M, 6E8, and 6TH8 are equivalents when used with parallel heater circuits because they all have 6.3 volt heaters. Equivalent types ECH3G and ECH33 have the same heater voltage and current rating as the 0M10 (6.3v. 0.2A) and are equally suitable for series or parallel circuits. The CCH35 has a heater rating of 7.0v. 0.2A and is intended for series circuits only.

In view of the fact that many of the early Octal based valves are now becoming obsolete, and in many cases rather rare equivalents have been shown which are not necessarily identical electrical equivalents, it has been felt that this was necessary so as to enable effective substitution to take place, and it is suggested that with these early types reference should be made to the four radio valve characteristic manuals published by this Company, so that a check can be effected on the actual operating characteristics and this will enable any minor changing of biasing etc., to be corrected. The four books in question are:

Comprehensive Radio Valve Guide Book 1. (Bernards Radio Manual No. 100). Price 5/-.

Comprehensive Radio Valve Guide Book 2. (Bernards Radio Manual No. 121). Price 5/-.

Comprehensive Radio Valve Guide Book 3. (Bernards Radio Manual No. 143). Price 5/-.

Comprehensive Radio Valve Guide Book 4. (Bernards Radio Manual No. 157). Price 5/-.

In using the book for transistor or diode equivalents, rather more caution must be exercised than with the valve equivalents because of the greater range of variation in parameters, tolerated by the Manufacturers. Where one transistor or diode is shown as an equivalent to another it may be replaced in any circuit without physical damage to either the transistor itself or any other components of the circuit. However, in certain circumstances, minor component changes may be necessary for optimum operation. This will occur particularly when the original transistor or diode is operated near to or at its maximum capabilities.

In the special case of high frequency transistor circuitry, it will usually be necessary to make slight alignment changes after replacing the transistor. In extreme cases neutralization may have to be provided where it was unnecessary in the original circuit. This is due to the comparatively large range of intra-electrode capacitances, found in transistors. Because there has, as well, been no recognised international agreement on the form of the transistor or diode encapsulation the transistors or diodes listed as equivalents to another may not have the same physical shape. This will not affect the performance of the circuit but in certain very compact types of assembly, such as printed circuit construction, may make installation difficult. This should be taken into consideration when choosing a replacement.

Because manufacturers tend to alter the form of construction of their semi-conductors, from time to time, it has not been possible to include any indication of physical size. In case of difficulty the manufacturer concerned should be consulted.

The C.V. and Armed Forces sections will be found particularly useful when attempting to identify valves obtained from ex-Government sources.

A complete section is devoted to Television Picture Tubes, this feature is unique in its conception.

Not only have equivalents been shown, but also near equivalents. The necessary electrical changes are outlined in the remarks column. It should be noted that the changes relate only to the electrical characteristics of the various tubes and that differences in physical measurements have not been considered. This may necessitate slight structural alterations in certain cases.

When substituting ordinary tubes by ion trap models care should be taken to see that there is sufficient room on the tube neck after the scanning and focus components have been mounted, to position the ion trap magnet.

It is sometimes difficult to centre the picture with these tubes without modifying the focus mounting brackets, in cases of doubt or difficulty, the ion trap tube manufacturer should be consulted regarding its suitability.

Tubes with an external coating (aquadag) can be used to replace plain glass tubes, but arrangements should be made to connect the coating to chassis potential.

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| 2P | | | | 1109 |
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| 2V/471C 1061 3A/144A 663 2V/490C 1435 3A/145J 1434 2V/500C 79 3A/146J 1436 2V/531E 784 3A/147J 1437 2W/542E 1465 3A/148J 1439 2X2 477 3AB4 265 2X/103G 876 3ACP1 911 2X/104G 876 3ACP1 911 2X/105G 876 3ACP1 911 2X/106G 876 3ACP1 912 2X/106G 876 3ACP1 912 2X/106G 876 3ACP1 913 2XP 478 3ALP1 913 2XP 478 3ALP1 915 3-25D3 671 3B4 62 3-50A4 875 3B7 476 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-75A2 1018 3B25 | | | 3A/142A | 662 |
| 2V/490C 1435 3A/145J 1434 2V/500C 797 3A/146J 1436 2V/531E 784 3A/147J 1437 2W/542E 1465 3A/148J 1439 2X2 477 3AB4 265 2X/103G 876 3ACP1 911 2X/105G 876 3ACP7 912 2X/105G 876 3ACP1 911 2X/106G 876 3ACP1 912 2X/106G 876 3ACP1 912 2X/106G 876 3ACP1 912 2X/106G 876 3ACP1 912 2X/106G 876 3ACP1 913 2XM600A 660 3AFP1 914 2XP 478 3ALP1 915 3-25D3 672 3AP1 1083 3-25D3 671 3B4 62 3-50D4 1016 3B22 984 3-50D4 1016 3B22 | | | 3A/144A | 663 |
| 2V/500C 797 3A/146J 1436 2V/531E 784 3A/147J 1437 2W/542E 1465 3A/148J 1439 2X2 477 3AB4 265 2X/103G 876 3ABP1 1365 2X/104G 876 3ACP1 911 2X/105G 876 3ACP1 912 2X/106G 876 3ACP1 913 2XM600A 660 3AFP1 913 2XP 478 3ALP1 915 2Y2 477 3AMP1 916 3-25A3 672 3AP1 1083 3-25D3 671 3B4 62 3-50A4 875 3B7 476 3-50A4 875 3B2 476 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 | | | 3A/145J | 1434 |
| 2V/531E 784 3A/147J 1437 2W/542E 1465 3A/148J 1439 2X2 477 3AB4 265 2X/103G 876 3ABP1 1365 2X/104G 876 3ACP1 911 2X/105G 876 3ACP7 912 2X/106G 876 3ACP1 913 2XM600A 660 3AFP1 914 2XP 478 3ALP1 915 2Y2 477 3AMP1 916 3-25A3 672 3AP1 1083 3-25D3 671 3B4 62 3-50A4 875 3B7 476 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-50I4 1122 3B24W 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 | | | 3A/146J | 1436 |
| 2W/542E 1465 3A/148J 1439 2X2 477 3AB4 265 2X/103G 876 3ABP1 1365 2X/104G 876 3ACP1 911 2X/105G 876 3ACP7 912 2X/106G 876 3ACP1 913 2XM600A 660 3AFP1 914 2XP 478 3ALP1 915 2Y2 477 3AMP1 916 3-25D3 671 3B4 62 3-50A4 875 3B7 476 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-50I4 1122 3B24W 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | | | 3A/147J | 1437 |
| 2X2 477 3AB4 265 2X/103G 876 3ABP1 1365 2X/104G 876 3ACP1 911 2X/105G 876 3ACP7 912 2X/106G 876 3ACP1 913 2XM600A 660 3AFP1 914 2XP 478 3ALP1 915 2Y2 477 3AMP1 916 3-25A3 672 3AP1 1083 3-25D3 671 3B4 62 3-50A4 875 3B7 476 3-50G2 752 3B24 664 3-50I4 1122 3B24W 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | | | 3A/148J | 1439 |
| 2X/103G 876 3ABP1 1365 2X/104G 876 3ACP1 911 2X/105G 876 3ACP1 912 2X/106G 876 3ACP1 913 2XM600A 660 3AFP1 914 2XP 478 3ALP1 915 2Y2 477 3AMP1 916 3-25D3 671 3B4 62 3-50A4 875 3B7 476 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | | | 3AB4 | 265 |
| 2X/104G 876 3ACP1 911 2X/105G 876 3ACP7 912 2X/106G 876 3ACP11 913 2XM600A 660 3AFP1 914 2XP 478 3ALP1 915 2Y2 477 3AMP1 916 3-25A3 672 3AP1 1083 3-25D3 671 3B4 62 3-50A4 875 3B7 476 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-50I4 1122 3B24W 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | | | 3ABP1 | 1365 |
| 2X/105G 876 3ACP7 912 2X/106G 876 3ACP1 913 2XM600A 660 3AFP1 914 2XP 478 3ALP1 915 2Y2 477 3AMP1 916 3-25A3 672 3AP1 1083 3-25D3 671 3B4 62 3-50A4 875 3B7 476 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-5014 1122 3B24W 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | | | 3ACP1 | 911 |
| 2X/106G 876 3ACP11 913 2XM600A 660 3AFP1 914 2XP 478 3ALP1 915 2Y2 477 3AMP1 916 3-25A3 672 3AP1 1083 3-25D3 671 3B4 62 3-50A4 875 3B7 476 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-50I4 1122 3B24W 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | | | 3ACP7 | 912 |
| 2XM600A 660 3AFP1 914 2XP 478 3ALP1 915 2Y2 477 3AMP1 916 3-25A3 672 3AP1 1083 3-25D3 671 3B4 62 3-50A4 875 3B7 476 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-5014 1122 3B24W 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | | | 3ACP11 | |
| 2XP 478 3ALP1 915 2Y2 477 3AMP1 916 3-25A3 672 3AP1 1083 3-25D3 671 3B4 62 3-50A4 875 3B7 476 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-5014 1122 3B24W 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | | | 3AFP1 | 914 |
| 2Y2 477 3AMP1 916 3-25A3 672 3AP1 1083 3-25D3 671 3B4 62 3-50A4 875 3B7 476 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-50I4 1122 3B24W 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | | | 3ALP1 | 915 |
| 3-25A3 672 3AP1 1083 3-25D3 671 3B4 62 3-50A4 875 3B7 476 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-50I4 1122 3B24W 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | | | 3AMP1 | 916 |
| 3-25D3 671 3B4 62 3-50A4 875 3B7 476 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-5014 1122 3B24W 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | 3-25A3 | | 3AP1 | 1083 |
| 3-50A4 875 3B7 476 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-50I4 1122 3B24W 664 3-75A2 1018 3B25 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | | | 3B4 | 62 |
| 3-50D4 1016 3B22 984 3-50G2 752 3B24 664 3-5014 1122 3B24W 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | 3-50A4 | | 3B7 | 476 |
| 3-50G2 752 3B24 664 3-5014 1122 3B24W 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | 3-50D4 | | 3B22 | 984 |
| 3-5014 1122 3B24W 664 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | | | 3B24 · | 664 |
| 3-75A2 1018 3B25 660 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | | | 3B24W | 664 |
| 3-75A3 1017 3B27 660 3-100A2 723 3B28 660 3-100G3 689 3B/100B 589 | | | | |
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