

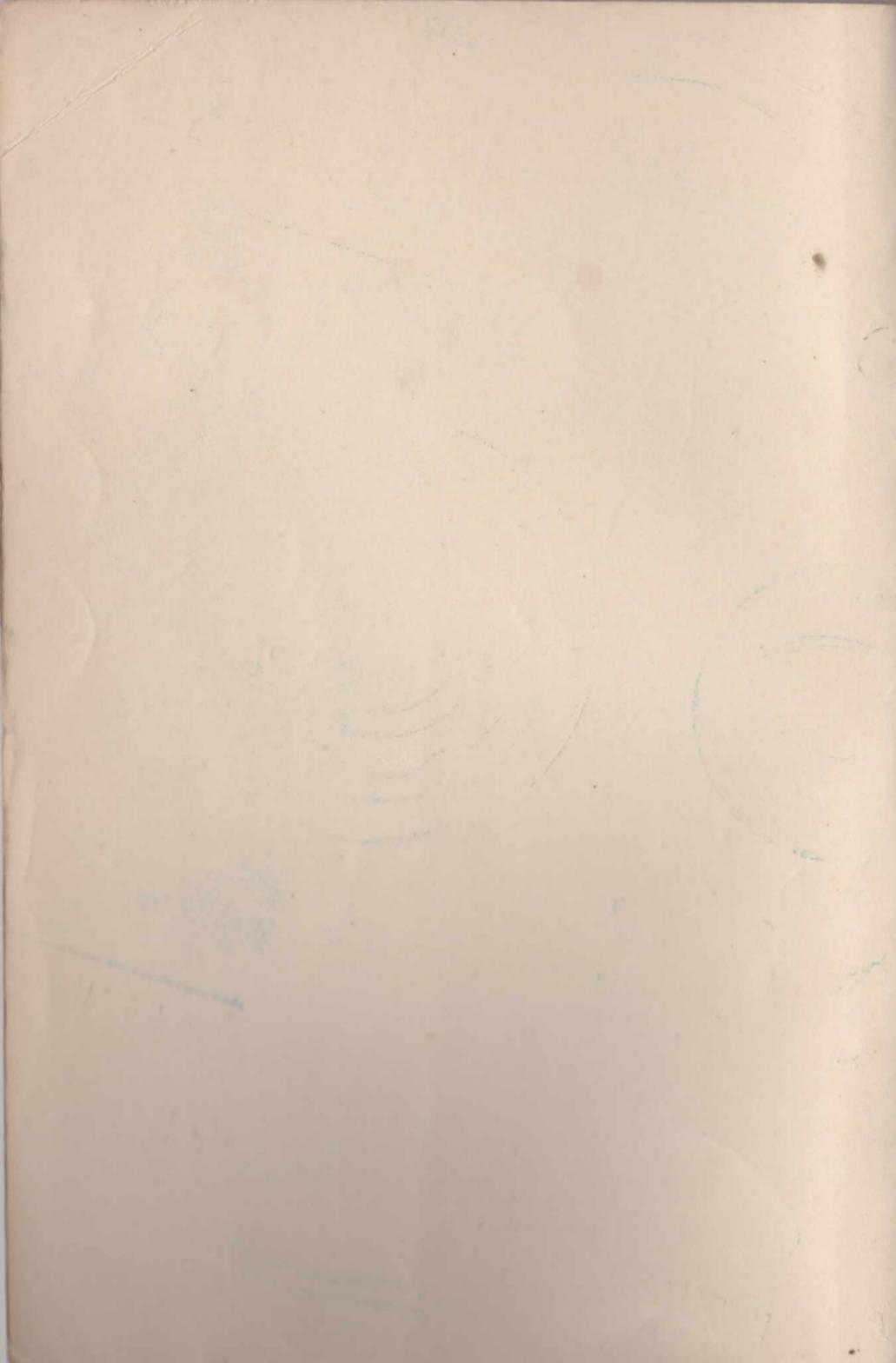
# Modern Valve Comparison Manual

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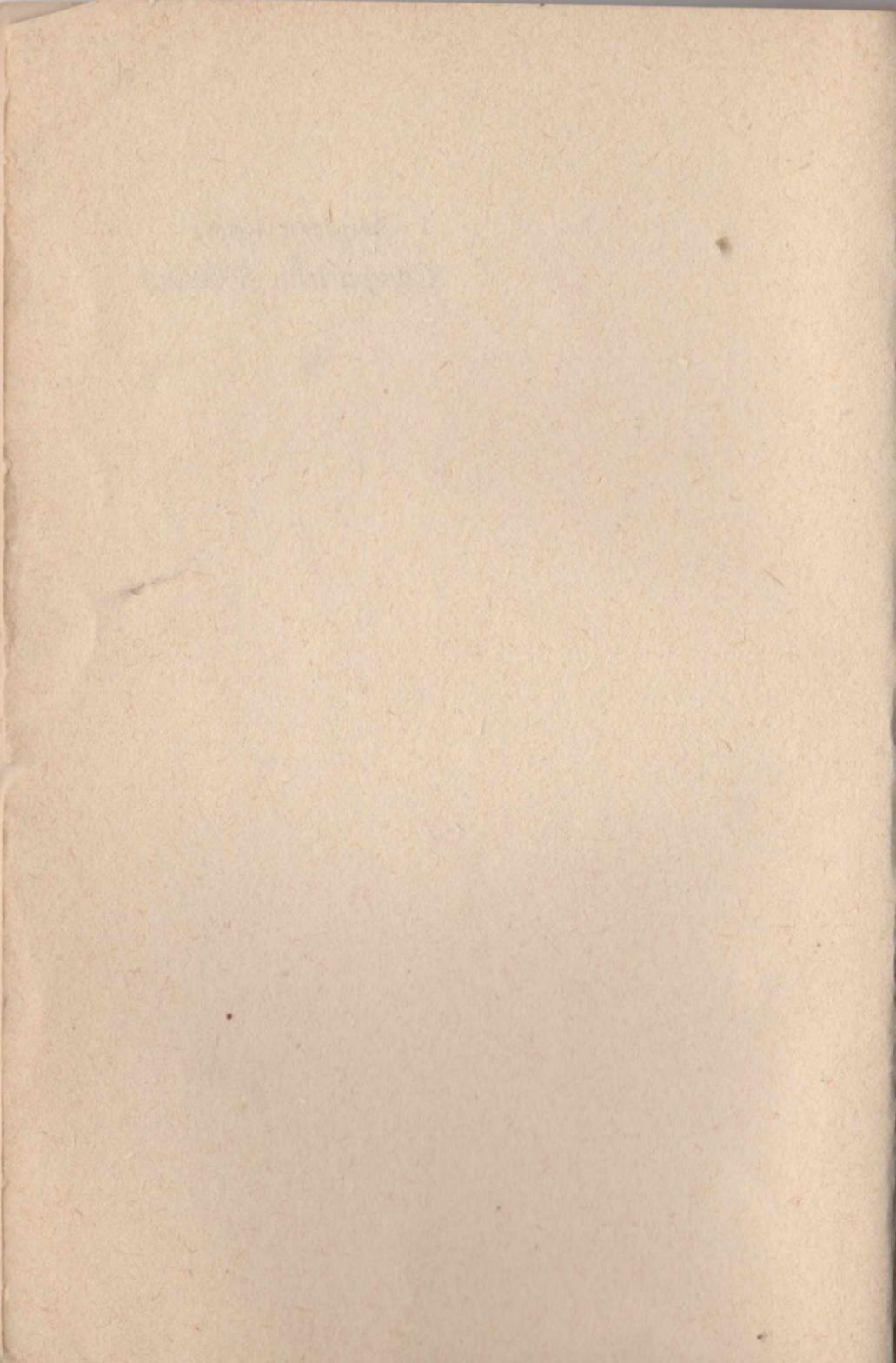


Compiled by **B. B. BABANI**

**BERNARDS RADIO MANUALS ★ No. 98**



*Modern Valve  
Comparison Manual*



# MODERN VALVE COMPARISON MANUAL

*Compiled by*

**B. B. BABANI**

*LONDON*

**BERNARDS (Publishers) LTD.**

BERNARDS RADIO MANUALS No. 98

General Editor: W. J. MAY

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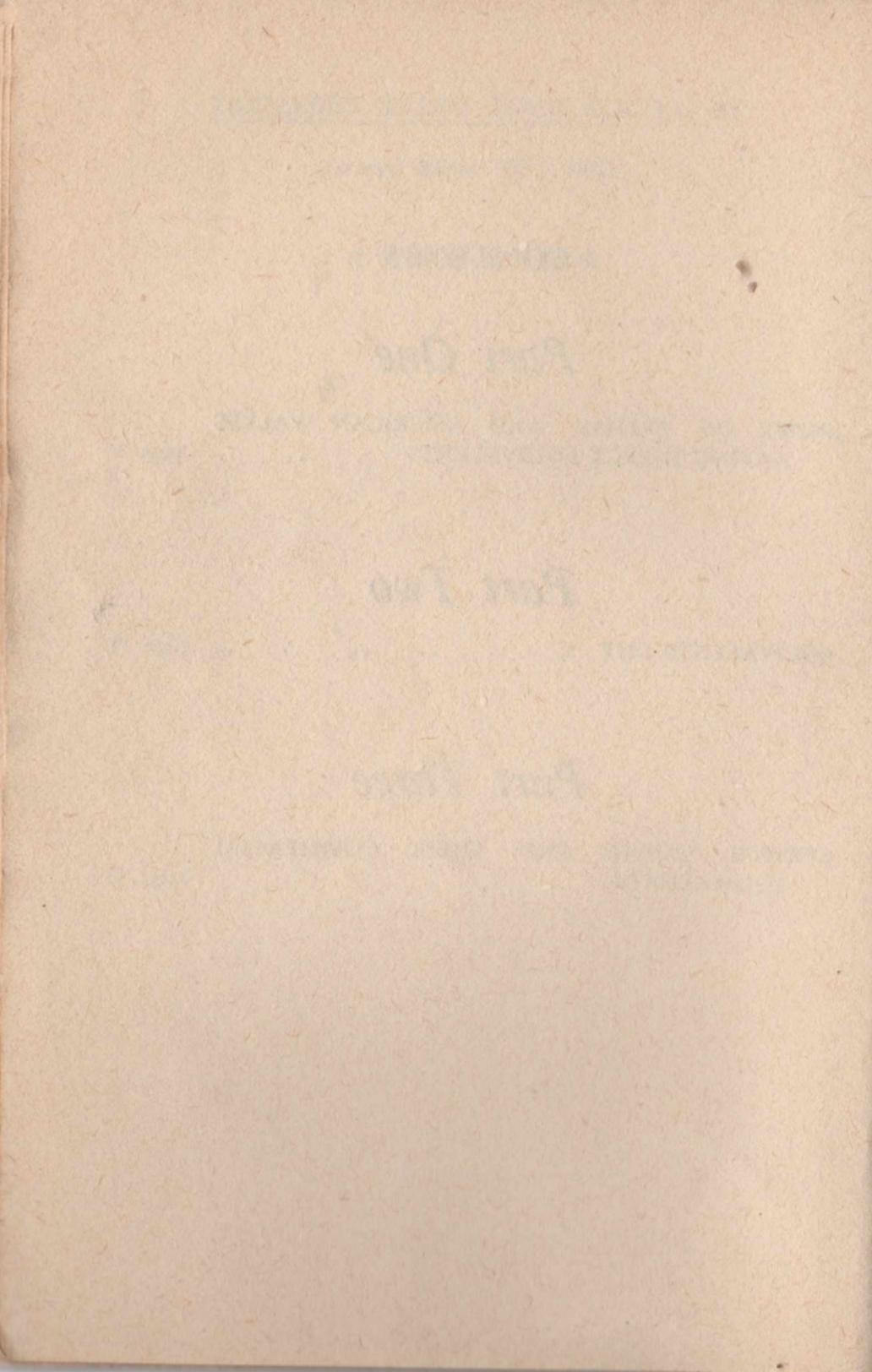
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## INTRODUCTION

As there has been a great increase in the number of new valves produced by British and American manufacturers during the last few years, it has been decided to issue a new book of valve comparison tables.

The book is in three parts. Part 1 is an index of British and American valves having direct equivalents; Part 2 is complete equivalents list of British and American types; Part 3 is an extensive list of British and American Army, Navy, Air Force and C.V. types with their commercial equivalents.

Parts 1 and 2 are used in conjunction with one another. Part 3 is complete in itself.

Valves having a direct equivalent requiring no physical changes when substituting the equivalent, appear in the Index in Part 1. It should, however, be pointed out that whilst no changes may be needed in the nature of an altered valve base, change of filament voltage, or change of screen, plate, or bias resistors, in certain cases—as when substituting an equivalent frequency changer or RF Pentode, etc.—it may be necessary, for maximum efficiency, to re-align the associated tuned circuits. This is often the case when two valves of an identical type number from the same manufacturer are substituted for one another, and is in fact, a recommended practice.

*Using Parts 1 and 2.* It is required to find a direct equivalent of MVS/PENB. All that is necessary is to look up this valve in the Index (Part 1). Opposite the valve type, two numbers will be found, namely, 53 and 54.

Reference is then made to Part 2 under sections 53 and 54, where it will be found that the valve may be substituted by any of those shown in those sections.

It will be seen, however, that in certain cases the alternative valves available are sometimes utilised at different filament current, and every valve shown in Part 2 has its filament current indicated. This is particularly important when substituting valves in AC/DC receivers.

It will also be seen that Part 2 gives the type of base used, the filament voltage and the maker's name.

The bases have been indicated by the accepted designation and the only base that may require an explanation is a P Base,

## 6SK7-44IU

VALVE TYPE NO.	EQUIVALENTS SECTION NO.	VALVE TYPE NO.	EQUIVALENTS SECTION NO.	VALVE TYPE NO.	EQUIVALENTS SECTION NO.
6SK7	70		{ 252	20A1	10
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6SN7	170	8A1	48	25A6	219
6SQ7	113	8D2	85	25L6	220
6SR7	109	8D3	56	25RE	258
6SS7	70	9A1	52	25X6	283
6ST7	109	9D2	83	25Y4	259
6SU7	171	9D6	57	25Y5	258
6SZ7	113			25Z4	259
6T7	112	10C1	33	25Z6	283
6TH8	17	10D1	102		
6U5	241	10F3	89	26B6	32
6U6	205	10F9	86	26D6	32
6U7	60	10LD11	123	27	140
6V6	207	10P13	225	32	40
6W5	279	11A1	107	34	40
6W6	205	11A2	107	35	46
	{ 60	11D3	120	35Z4	261
6W7	62	11D5	119		
6X5	279	12A	166	36	55
6Y6	205		{ 173	37	147
6Z3	251	12AT7	{ 176	39	55
6Z4	278		81	40	146
6ZY5	279	12B7	128	40PPA	223
		12C8	80	40SUA	264
7A2	197	12J7	80	40Z5	265
7A3	198	12K7	24	41	203
7A7	75	12K8	118	41FP	142
7A8	22	12Q7	79	41MH	144
7B5	212	12SJ7	79	41MHF	141
7B6	117	12SK7	174	41MHL	144
7B7	76	12SN7	174	41MLF	141
7B8	22	12SX7	254	41MP	142
7C5	212	12Z3	120	41MPG	9
7C6	116	13DHA	28	41MRC	144
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7D3	223	13SPA	83	41MTL	{ 141
7D6	221	13VPA	81	41MXP	{ 144
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7D9	204	14AF7	175	41STH	10
7G7	75	14B8	25	42	203
7H7	75	14C7	81	42MP/PEN	198
7J7	22	14J7	25	42OT	198
7L7	75	14N7	175	43IU	267
7S7	22	14S7	25	44	55
7T7	75	14Z3	254	44IU	268
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VALVE TYPE NO.	EQUIVALENTS SECTION NO.	VALVE TYPE NO.	EQUIVALENTS SECTION NO.	VALVE TYPE NO.	EQUIVALENTS SECTION NO.
45	161		{ 39	A20B	97
45IU	270	215SG	{ 188	A23A	107
45Z5	265	220B	230	A27D	{ 129
50L6	227	220DD	95		{ 130
50Y6	285	220HPT	189	A30B	144
50Z7	285	220/OT	189	A30D	141
51	46	220P	158	A36A	10
52	201	220PA	158	A36C	10
53KU	276	220PT	190	A39A	238
54KU	277	220SG	39	A40M	49
56	140	220TH	5	A50A	48
57	47	220VS	38	A50B	53
58	47	220VSG	38	A50M	52
63ME	241	230PT	190	A50N	50
63SPT	78	230XP	159	A50P	54
64ME	240	240B	230	A70B	197
71A	166	240QP	235	A70C	198
76	147	244V	141	A70D	198
77	71	302THA	31	A70E	199
78	71	332PEN	222	A80A	9
83	275	354V	141	A80M	9
84	278	402OT	224	AC/2HL	144
104V	142	402PEN	224	AC/2PEN	198
117L7	286	408BU	269	AC/2PENDD	130
117M7	286	420TDD	130	AC/4PEN	199
117N7	287	442BU	272	AC/5PEN	200
117P7	287	460BU	273	AC104	163
154V	142	484V	142	AC/DD	97
202DDT	120	506BU	269	AC/HL	141
202STH	31	807	202	AC/HLDD	107
210DDT	106	879	248	AC/ME	237
210DET	136	904V	144	ACO42	160
210HF	139	994V	142	ACO44	163
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210LF	{ 138	1232	75	ACO64	163
210PG	136	1275	275	ACO84	163
210PGA	7	1291	{ 228	AC/P	142
210RC	139	1294	{ 231	AC/P1	165
210SPG	7	1299	91	AC/P4	143
210SPT	{ 43	1852	187	AC/PEN	197
210VPA	{ 44	1853	65	AC/S2PEN	48
210VPT	43	A11B	66	AC/SG	48
215P	157	A11C	267	AC/SGVM	49
		A11D	268	AC/SP3	51
			267	AC/TH1	10
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AS4125	49	DD6G	99	DN143	131
AZ31	274	DD13	102	DO24	162
B21	229	DD13S	103	DO26	162
B36	174	DD465	96	DO30	164
B63	232	DD620	101	DS	154
B65	170	DDA41	97	DW2	269
C10B	255	DDPP4B	130	DW3	272
C20C	102	DDPP4M	129	DW4	273
C23B	120	DDPP6Bs	132	DW4/350	272
C27D	134	DDPP39	133	DW4/500	273
C30B	153	DDPP39M	134	EA50	93
C36A	31	DDT	107	EA71	94
C36B	31	DDT2	106	EA76	94
C36C	31	DDT2A	105	EA76	94
C39A	242	DDT2B	106	EA76	94
C50B	85	DDT4	107	EA76	94
C50N	83	DDT6s	114	EA76	94
C70D	221	DDT13	120	EA76	94
C70E	221	DDT13s	121	EA76	94
C80B	28	DF33	37	EA76	94
CB215	230	DF70	34	EA76	94
CB220	229	DF91	35	EA76	94
CCH35	17	DF92	36	EA76	94
CK502AX	177	DH30	119	EA76	94
CK505AX	34	DH42	107	EA76	94
CK506AX	178	DH63	110	EA76	94
CK5694	234	DH73	112	EA76	94
CK5725	58	DH76	118	EA76	94
CK5726	99	DH77	108	EA76	94
CL4	218	DH81	117	EA76	94
CL33	222	DH142	122	EA76	94
CY31	256	DH147	111	EA76	94
D1	92	DH149	116	EA76	94
D4	144	DH150	115	EA76	94
D41	97	DK32	2	EA76	94
D63	100	DK91	1	EA76	94
D77	99	DL33	185	EA76	94
DA	{ 141	DL35	184	EA76	94
DA30	153	DL63	111	EA76	94
DA90	164	DL71	177	EA76	94
	90	DL72	178	EA76	94

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VALVE TYPE NO.	EQUIVALENTS SECTION NO.	VALVE TYPE NO.	EQUIVALENTS SECTION NO.	VALVE TYPE NO.	EQUIVALENTS SECTION NO.
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EF37	62	HD22	106	K30E	136
EF37A	68	HD23	106	K30G	158
EF38	64	HD24	106	K30K	137
EF39	64			K33A	230
EF41	72	HL2	{ 137	K33B	229
EF42	73	HL2K	{ 138	K40B	39
EF50	78	HL4+	138	K40N	38
EF91	56	HL4G	141	K50M	42
EF92	57		145	K50N	43
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EK32	19	HL13C	{ 155	K70D	191
EL2	213	HL13s	153	K77A	236
EL3	214	HL20	155	K77B	235
EL32	206	HL21	156	K80A	6
EL33	207	HL21DD	137	K80B	7
EL35	208		106		
EL37	208	HL210	{ 137	KT2	189
EL41	211	HL1320	{ 139	KT24	191
EL42	210	HLA1	153	KT30	215
EL91	204	HLA2	144	KT31	216
EM1	242	HLB1	141	KT32	220
EM34	240	HLDD1320	{ 137	KT33	219
EQ80	243		{ 138	KT41	198
EY51	253	HP2	120	KT42	197
EZ35	279	HP6	230	KT61	207
EZ40	280	HP13	56	KT63	209
FC2	6	HP13s	83	KT66	208
FC2A	7	HP210nc	88	KT71	227
FC4	9	HP211c	44	KT81	212
FC13	29	HP4101c	43	KTW61	61
FC13C	28	HP4105	48	KTW63	60
FW4/500	270	HP4106c	52	KTZZ21	44
FW4/800	271	HP4115c	52	KTZ63	63
GZ32	277	HR2	50	L2	{ 136
H2	139	HR210	250	L4	{ 158
H2D	106	HSD	139	L4	142
H4D	107	HVR1	119	L21	136
H20	156	HVR2	244	L21DD	106
H30	154	HVR2A	249	L63	151
H42	145	IW4/350	246	L77	148
H63	150	IW4/500	267	LD210	136
H210	139	K23A	268	LL2	136
HAD	120	K23B	106	LL4	142
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		K30B	106	LP2	{ 158
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ME6s	242	O1A	146	PENB4	199
MH4	141	O54V	165	PENDD4020	133
MH41	144	OM1	256	PM1A	139
MH4105	9	OM3	100	PM1HF	139
MHD4	107	OM4	111	PM1HL	138
MHL4	141	OM5	67	PM1LF	136
MKT4	197	OM5A	62	PM2	{ 157
ML4	142	OM5B	68	PM2A	{ 158
MM4V	49	OM6	64	PM2B	158
MP/PEN	197	OM7	64	PM2BA	230
MP/PENA	197	OM8	19	PM2BA	229
MPT4	197	OM9	206	PM2D	136
MS4	48	OM10	17	PM2DX	138
MS4B	48	P2	158	PM2HL	{ 137
MSG/LA	48	P2/B	159	PM12	{ 138
MSP4	48	P12/250	163	PM12A	{ 39
MS/PEN	48	P27/500	162	PM12M	{ 188
MS/PENB	53	P215	{ 157	PM12V	39
MU12	267	P220	{ 158	PM22	38
MU12/14	268	P220A	{ 159	PM22A	38
MU14	268	P240	158	PM22C	38
MV/SG	49	PA1	142	PM22D	189
MVS/PEN	{ 50	PA20	160	PM24	189
MVS/PENB	{ 52	PA40	164	PM24A	191
	{ 53	PB1	158	PM24B	193
	{ 54	PD220	230	PM24C	194
MX40	9	PD220A	229	PM24D	194
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N16	185	PEN4VA	197	PM24M	193
N17	183	PEN4VB	198	PM202	{ 158
N18	182	PEN13C	215	PM252	{ 159
N19	180	PEN20	217	PP2	189
N30	215	PEN26	218	PP3/250	163
N31	216	PEN36C	221	PP4	193
N41	198	PEN40DD	134	PP5/400	162
N43	196	PEN220	189	PP6As	213
N63	209	PEN220A	190	PP6Bg	207
N66	208	PEN231	191	PP6Bs	214
N77	204	PEN428	199	PP13A	215
N142	226	PEN1340	215	PP24s	218
N144	204	PEN3520	221	PP34-35v	224
N145	225	PENA1	193	PP35	221
N147	207	PENA4	198	PP225	190
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N151	210				

VALVE TYPE NO.	EQUIVALENTS SECTION NO.	VALVE TYPE NO.	EQUIVALENTS SECTION NO.	VALVE TYPE NO.	EQUIVALENTS SECTION NO.
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	198		188	TH30	31
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PT10	200	S23	39	TH2321	31
PT25	195	S24	39	TP4	11
PT41	193	S30C	163	TSP4	51
PT41B	194	S30D	160	TT4	142
PTA	215	S215	188	TT4A	142
PTS	216	S215/M	39	TV4	238
PTZ	221	S215VM	38	TV4A	238
PV4	272	SD	97	TV6	242
PV25	282	SE211c	38	TX4	10
PV29s	260	SG215	188	TX21	31
PV30	284	SGA1	48	U10	269
PV30s	262	SP2	44	U12	272
PV495	269	SP2D	44	U12/14	273
PV4200	273	SP4	{ 48	U14	273
PX4	163	SP4B	{ 53	U16	244
PX25	162	SP6	{ 56	U18/20	270
PX25A	164	SP13	{ 85	U21	245
QP21	235	SP13A	{ 87	U24	247
QP22A	236	SP13B	85	U30	282
QP22B	235	SP13C	85	U31	259
QP230	235	SP13s	87	U50	277
QP240	236	SP210	44	U52	276
QPT2	235	SP220	159	U70	279
QVO5-25	202	SPT2	44	U76	261
R1	269	SPT4A	48	U82	252
R2	267	SS210	39	U142	263
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	273	SU61	253	U145	266
R4	272	SU2130	244	U147	279
R4A	273	SU2150	245	U149	281
R10	250	SU2150A	246	U150	280
R12	253	T4D	92	U201	256
R42	267	TDD2	106	U404	266
R52	277	TDD2A	106	U4020	264
R2018	156	TDD4	107	UAF42	126
RV120/350	272	TDD13	121	UBC41	122
RV120/500	273	TDD13C	120	UCH42	30
RV200/600	271	TH2	5	UF41	86
RZ	255	TH4A	10	UF42	89
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R4VB	48				
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VALVE TYPE NO.	EQUIVALENTS SECTION NO.	VALVE TYPE NO.	EQUIVALENTS SECTION NO.	VALVE TYPE NO.	EQUIVALENTS SECTION NO.
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UR1C	255	VP13A	88	X63	16
UR2	260	VP13B	83	X64	13
UR3	262	VP13C	83	X65	18
UR3C	284	VP13K	83	X66	18
UU3	267	VP21	43	X73/M	14
UU4	267	VP210	43	X76/M	24
UU5	268	VP215	42	X77	12
UU9	280	VP1320	26	X81/M	22
UU60/250	269	VP1322	83	X142	30
UU120/350	272	VPT2	26	X143	23
UU120/500	273	VPT4	43	X145	33
UY41	263	VPT4B	52	X147	17
V20	255	VPTA	50	X148	22
V20s	257	VPTS	84	X150	20
V21/7000	249	VS2	82	Y61	241
V503	164	VS24/K	38	Y62	241
V914	97	VSGA1	38	Y63	241
VFT6	241	VX2	49	Y64	241
VHT2	6	W17	43	Z14	37
VHT2A	{ 6	W21	35	Z21	44
VHT4	{ 7	W30	43	Z22	44
VHTA	9	W31	82	Z63	63
VHTS	28	W42	82	Z77	56
VLS61	27	W63	54	Z90	78
VME4	246	W76	60	Z142	89
VMP4	237	W77	60	Z150	73
VMP4G	52	W81	80	ZD	101
VMS4B	{ 50	W143	57	ZD17	124
VO2]	52	W145	75		
VO4	49	W147	75		
VO6s	6	W148	76		
VO13	9	W149	72		
VO13s	21	W150	72		
VP2	28	WD142	126		
VP2B	29	WD150	125		
VP2D	42	X14	2		
VP4	43	X17	1		
VP4A	43	X21	{ 6		
VP4B	49	X22	{ 7		
VP4C	{ 52	X23	{ 6		
VP6	54	X24	{ 5		
VP12D	50	X30	{ 5		
	54	X32	{ 27		
	52	X41	{ 27		
	57	X42	{ 10		
	128		{ 9		

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
1	1.4	B7G	ICI	Mazda	.05
	1.4	B7G	IR5	Am. & Brit.	.05
	1.4	B7G	DK91	Ever Ready	.05
	1.4	B7G	DK91	Mullard	.05
	1.4	B7G	X17	Osram	.05
2	1.4	I.O.	1A7	Am. & Brit.	.05
	1.4	I.O.	1B7	U.S.A.	.1
	1.4	I.O.	DK32	Ever Ready	.05
	1.4	I.O.	DK32	Mullard	.05
	1.4	I.O.	X14	Osram	.05
3	1.4	B8G	1LA6	U.S.A.	.05
	1.4	B8G	1LC6	U.S.A.	.05
4	2	UX6	1A6	U.S.A.	.06
	2	UX6	IC6	U.S.A.	.12
5	2	B7	220TH	Cossor	.2
	2	B7	TH2	Mullard	.23
	2	B7	X23	Osram	.3
	2	B7	X24	Osram	.2
	2	B7	210PG	Cossor	.1
6	2	B7	FC2	Mullard	.1
	2	B7	K80A	Ever Ready	.1
	2	B7	VHT2	Ferranti	.1
	2	B7	VHT2A	Ferranti	.1
	2	B7	VO2	Tungsram	.13
	2	B7	X21	Osram	.1
	2	B7	X22	Osram	.15
	2	B7	210PGA	Cossor	.1
7	2	B7	210SPG	Cossor	.1
	2	B7	FC2A	Mullard	.13
	2	B7	K80B	Ever Ready	.13
	2	B7	VHT2A	Ferranti	.1
	2	B7	X21	Osram	.1
	2	I.O.	1C7	U.S.A.	.12
8	2	I.O.	1D7	U.S.A.	.06

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
9	4	B7	15A2	Brimar	.65
	4	B7	41MPG	Cossor	1.0
	4	B7	41PGD	Cossor	1.0
	4	B7	A80A	Ever Ready	.65
	4	B7	A80M	Ever Ready	.65
	4	B7	FC4	Mullard	.65
	4	B7	MH4105	Tungsram	.5
	4	B7	MX40	Osram	1.0
	4	B7	VHT4	Ferranti	.65
	4	B7	VO4	Tungsram	.65
4	B7	X42	Osram	.6	
10	4	B7	4THA	Cossor	1.5
	4	B7	20A1	Brimar	1.2
	4	B7	41STH	Cossor	1.15
	4	B7	A36A	Ever Ready	1.0
	4	B7	A36C	Ever Ready	1.45
	4	B7	AC/THI	Mazda	1.3
	4	B7	TH4A	Tungsram	1.45
	4	B7	TH4B	Mullard	1.45
	4	B7	TH4B	Tungsram	1.45
	4	B7	TX4	Tungsram	1.0
4	B7	X41	Osram	1.2	
11	4	B9	AC/TP	Mazda	1.25
	4	B9	TP4	Mullard	1.2
	4	B9	TP4	Tungsram	1.25
12	6.3	B7G	6BE6	Am. & Brit.	.3
	6.3	B7G	X77	Osram	.3
13	6.3	I.O.	6L7	U.S.A.	.3
	6.3	I.O.	X64	Osram	.3
14	6.3	I.O.	6D8	U.S.A.	.15
	6.3	I.O.	X73M	Osram	.16
15	6.3	P	ECH2	Mullard	.95
	6.3	P	ECH3	Mullard	.2
16	6.3	I.O.	6A8	U.S.A.	.3
	6.3	I.O.	X63	Osram	.3

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
17	6.3	I.O.	6C31	Mazda	.85
	6.3	I.O.	6E8	Tungsram	.3
	6.3	I.O.	6TH8	Tungsram	.6
	6.3	I.O.	CCH35	Ever Ready	.2
	6.3	I.O.	CCH35	Mullard	.2
	6.3	I.O.	ECH33	Mullard	.2
	6.3	I.O.	ECH35	Mullard	.3
	6.3	I.O.	ECH35	Tungsram	.3
	6.3	I.O.	OM10	Cossor	.2
	6.3	I.O.	X147	Marconi	.3
18	6.3	I.O.	6J8	U.S.A.	.3
	6.3	I.O.	6K8	Am. & Brit.	.3
	6.3	I.O.	ECH35	Mullard	.3
	6.3	I.O.	ECH35	Tungsram	.3
	6.3	I.O.	X61M	Osram	.3
	6.3	I.O.	X65	Osram	.3
	6.3	I.O.	X66	Osram	.34
19	6.3	I.O.	AG8	Cossor	.2
	6.3	I.O.	EK32	Mullard	.2
	6.3	I.O.	OM8	Cossor	.2
20	6.3	B8A	ECH42	Mullard	.225
	6.3	B8A	X150	Marconi	.225
21	6.3	P	EK2	Mullard	.2
	6.3	P	EK2	Tungsram	.2
	6.3	P	VO6S	Tungsram	.2
22	6.3	B8G	7A8	U.S.A.	.15
	6.3	B8G	7B8	U.S.A.	.3
	6.3	B8G	7J7	U.S.A.	.15
	6.3	B8G	7S7	U.S.A.	.3
	6.3	B8G	X81M	Osram	.3
	6.3	B8G	X148	Marconi	.3
23	6.3	B8G	ECH21	Mullard	.33
	6.3	B8G	X143	Marconi	.3
24	12.6	I.O.	12K8	Am. & Brit.	.15
	12.6	I.O.	X76M	Osram	.16
25	12.6	B8G	14B8	U.S.A.	.15
	12.6	B8G	14J7	U.S.A.	.15
	12.6	B8G	14S7	U.S.A.	.15

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
<b>26</b>	13	B7	VP1320	Mazda	.2
	13	B7	VPTA	Ferranti	.2
<b>27</b>	13	B7	VHTS	Ferranti	.3
	13	B7	X30	Osram	.3
	13	B7	X32	Osram	.3
<b>28</b>	13	B7	13PGA	Cossor	.2
	13	B7	15D1	Brimar	.2
	13	B7	15D2	Brimar	.15
	13	B7	C80B	Ever Ready	.2
	13	B7	FC13C	Mullard	.2
	13	B7	VHTA	Ferranti	.2
<b>29</b>	13	P	FC13	Mullard	.2
	13	P	VO13S	Tungsrarn	.2
<b>30</b>	14	B8A	UCH42	Mullard	.1
	14	B8A	X142	Marconi	.1
<b>31</b>	20	B7	202STH	Cossor	.2
	30	B7	302THA	Cossor	.2
	21	B7	C36A	Ever Ready	.2
	29	B7	C36B	Ever Ready	.2
	29	B7	C36C	Ever Ready	.2
	21	B7	TH21C	Mullard	.2
	29	B7	TH22C	Mullard	.2
	29	B7	TH29	Tungsrarn	.2
	30	B7	TH30	Tungsrarn	.2
	29	B7	TH30C	Mullard	.2
	23	B7	TH2321	Mazda	.2
21	B7	TX21	Tungsrarn	.2	
<b>32</b>	26	B7G	26B6	U.S.A.	.07
	26	B7G	26D6	U.S.A.	.07
<b>33</b>	28	B8A	10C1	Mazda	.1
	28	B8A	X145	Marconi	.1
<b>34</b>	.625	Wires	CK505AX	Raytheon	.03
	.625	Wires	DF70	Mullard	.025

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
35	1.4	B7G	1F3	Mazda	.05
	1.4	B7G	1T4	Am. & Brit.	.05
	1.4	B7G	DF91	Ever Ready	.05
	1.4	B7G	DF91	Mullard	.05
	1.4	B7G	W17	Osram	.05
36	1.4	B7G	1F2	Mazda	.05
	1.4	B7G	1L4	U.S.A.	.05
	1.4	B7G	DF92	Mullard	.05
37	1.4	I.O.	IN5	U.S.A.	.05
	1.4	I.O.	DF33	Mullard	.05
	1.4	I.O.	Z14	Osram	.05
38	2	B4	220VS	Cossor	.2
	2	B4	220VSG	Cossor	.2
	2	B4	K40N	Ever Ready	.18
	2	B4	PM12M	Mullard	.18
	2	B4	PM12V	Mullard	.15
	2	B4	S215VM	Mazda	.15
	2	B4	SE211c	Tungsrarn	.12
	2	B4	VS2	Ferranti	.15
2	B4	VS24/K	Osram	.15	
39	2	B4	5B1	Brimar	.2
	2	B4	215SG	Cossor	.15
	2	B4	220SG	Cossor	.2
	2	B4	K40B	Ever Ready	.18
	2	B4	PM12	Mullard	.15
	2	B4	PM12A	Mullard	.18
	2	B4	S21	Osram	.1
	2	B4	S22	Osram	.2
	2	B4	S23	Osram	.1
	2	B4	S24	Osram	.15
	2	B4	S215/M	Mazda	.15
2	B4	SS210	Tungsrarn	.12	
40	2	UX4	32	U.S.A.	.06
	2	UX4	34	U.S.A.	.06
41	2	UX4	1A4	U.S.A.	.06
	2	UX4	1B4	U.S.A.	.06
42	2	B7	K50M	Ever Ready	.2
	2	B7	VP2	Mullard	.18
	2	B7	VP215	Mazda	.18

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
43	2	B7	210VPA	Cossor	·1
	2	B7	210VPT	Cossor	·1
	2	B7	HP211c	Tungsram	·12
	2	B7	K50N	Ever Ready	·135
	2	B7	VP2B	Mullard	·14
	2	B7	VP2D	Tungsram	·1
	2	B7	VP21	Osram	·1
	2	B7	VP210	Mazda	·1
	2	B7	VPT2	Ferranti	·1
	2	B7	VX2	Tungsram	·13
44	2	B7	210SPT	Cossor	·1
	2	B7	HP210nc	Tungsram	·12
	2	B7	KTZ21	Osram	·1
	2	B7	SP2	Mullard	·18
	2	B7	SP2D	Tungsram	·12
	2	B7	SP210	Mazda	·1
	2	B7	SPT2	Ferranti	·1
	2	B7	Z21	Osram	·1
45	2	I.O.	1D5G	U.S.A.	·06
	2	I.O.	1E5G	U.S.A.	·06
46	2·5	UX5	24/A	U.S.A.	1·75
	2·5	UX5	35	U.S.A.	1·75
	2·5	UX5	51	U.S.A.	1·75
47	2·5	UX6	57	U.S.A.	1·0
	2·5	UX6	58	U.S.A.	1·0
48	4	B5	8A1	Brimar	1·0
	4	B5	41MSG	Cossor	1·0
	4	B5	A50A	Ever Ready	1·0
	4	B5	AC/S2PEN	Mazda	1·0
	4	B5	AC/SG	Mazda	1·0
	4	B5	AS4120	Tungsram	1·0
	4	B5	HP4101c	Tungsram	1·0
	4	B5	MS4	Osram	1·0
	4	B5	MS4B	Osram	1·0
	4	B5	MSG/LA	Cossor	1·0
	4	B5	MSP4	Osram	1·0
	4	B5	MS/PEN	Cossor	1·0
	4	B5	S4V	Mullard	1·0
	4	B5	S4VB	Mullard	1·0
	4	B5	SGA1	Brimar	1·0
	4	B5	SP4	Mullard	1·0
4	B5	SPT4A	Ferranti	1·0	

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Ampres
49	4	B5	A40M	Ever Ready	1.0
	4	B5	AC/SGVM	Mazda	1.0
	4	B5	AS4125	Tungsrarn	1.2
	4	B5	MM4V	Mullard	1.0
	4	B5	MV/SG	Cossor	1.0
	4	B5	VMS4B	Osram	1.0
	4	B5	VP4	Mullard	1.0
	4	B5	VSGA1	Brimar	1.0
50	4	B5	A50N	Ever Ready	1.2
	4	B5	AC/VP2	Mazda	.65
	4	B5	HP4115c	Tungsrarn	1.0
	4	B5	MVS/PEN	Cossor	1.0
	4	B5	VMP4G	Osram	1.0
	4	B5	VP4A	Mullard	1.0
	4	B5	VP4A	Tungsrarn	.65
	4	B5	VPT4B	Ferranti	1.0
51	4	B7	AC/SP3	Mazda	1.0
	4	B7	TSP4	Mullard	1.3
52	4	B7	9A1	Brimar	1.0
	4	B7	A50M	Ever Ready	1.0
	4	B7	AC/VP1	Mazda	.65
	4	B7	HP4105	Tungsrarn	1.0
	4	B7	HP4106c	Tungsrarn	1.0
	4	B7	MVS/PEN	Cossor	1.0
	4	B7	VMP4	Osram	1.0
	4	B7	VMP4G	Osram	1.0
	4	B7	VP4	Mullard	1.0
	4	B7	VP4C	Tungsrarn	.65
	4	B7	VPT4	Ferranti	1.0
	53	4	B7	A50B	Ever Ready
4		B7	MS/PENB	Cossor	1.0
4		B7	SP4	Tungsrarn	.65
4		B7	SP4B	Mullard	.65
4		B7	SP4B	Tungsrarn	.65
54	4	B7	A50P	Ever Ready	.65
	4	B7	AC/VP2	Mazda	.65
	4	B7	MVS/PENB	Cossor	1.0
	4	B7	VP4	Tungsrarn	.65
	4	B7	VP4B	Mullard	.65
	4	B7	VP4B	Tungsrarn	.65
	4	B7	W42	Osram	.6

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
55	6.3	UX5	36	U.S.A.	.3
	6.3	UX5	39	U.S.A.	.3
	6.3	UX5	44	U.S.A.	.3
56	6.3	B7G	6AM6	Brimar	.3
	6.3	B7G	6AM6	Cossor	.3
	6.3	B7G	6F12	Mazda	.3
	6.3	B7G	8D3	Brimar	.3
	6.3	B7G	EF91	Mullard	.3
	6.3	B7G	HP6	Tungram	.3
	6.3	B7G	SP6	Cossor	.3
	6.3	B7G	Z77	Osram	.3
57	6.3	B7G	9D6	Brimar	.2
	6.3	B7G	EF92	Mullard	.2
	6.3	B7G	VP6	Cossor	.2
	6.3	B7G	W77	Osram	.2
58	6.3	B7G	6AS6	U.S.A.	.175
	6.3	B7G	CK5725	Raytheon	.175
59	6.3	B7G	6AG5	U.S.A.	.3
	6.3	B7G	6AK5	U.S.A.	.175
60	6.3	I.O.	6K7	Am. & Brit.	.3
	6.3	I.O.	6U7	U.S.A.	.3
	6.3	I.O.	6W7	U.S.A.	.15
	6.3	I.O.	KTW63	Osram	.3
	6.3	I.O.	W63	Osram	.3
61	6.3	I.O.	6S7	U.S.A.	.15
	6.3	I.O.	KTW61	Osram	.3
62	6.3	I.O.	6J7	Am. & Brit.	.3
	6.3	I.O.	6W7	U.S.A.	.15
	6.3	I.O.	EF37	Mullard	.2
	6.3	I.O.	OM5A	Cossor	.2
63	6.3	I.O.	6J7	Am. & Brit.	.3
	6.3	I.O.	KTZ63	Osram	.3
	6.3	I.O.	Z63	Osram	.3

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
64	6.3	I.O.	EF38	Mullard	.2
	6.3	I.O.	EF39	Mullard	.2
	6.3	I.O.	OM6	Cossor	.2
	6.3	I.O.	OM7	Cossor	.2
	6.3	I.O.	W147	Marconi	.2
65	6.3	I.O.	6AC7	U.S.A.	.45
	6.3	I.O.	6AJ7	U.S.A.	.45
	6.3	I.O.	1852	U.S.A.	.45
66	6.3	I.O.	6AB7	U.S.A.	.45
	6.3	I.O.	1853	U.S.A.	.45
67	6.3	I.O.	EF36	Mullard	.2
	6.3	I.O.	OM5	Cossor	.2
68	6.3	I.O.	EF37A	Mullard	.2
	6.3	I.O.	Om5B	Cossor	.2
69	6.3	I.O.	6SD7	U.S.A.	.3
	6.3	I.O.	6SE7	U.S.A.	.3
	6.3	I.O.	6SG7	U.S.A.	.3
	6.3	I.O.	6SH7	U.S.A.	.3
70	6.3	I.O.	6SJ7	U.S.A.	.3
	6.3	I.O.	6SK7	U.S.A.	.3
	6.3	I.O.	6SS7	U.S.A.	.15
71	6.3	UX7	6C6	U.S.A.	.3
	6.3	UX7	6D6	U.S.A.	.3
	6.3	UX7	77	U.S.A.	.3
	6.3	UX7	78	U.S.A.	.3
72	6.3	B8A	6F11	Mazda	.2
	6.3	B8A	EF41	Mullard	.2
	6.3	B8A	W150	Marconi	.2
73	6.3	B8A	6F13	Mazda	.35
	6.3	B8A	EF42	Mullard	.33
	6.3	B8A	Z150	Marconi	.33
74	6.3	B8G	7V7	U.S.A.	.45
	6.3	B8G	7W7	U.S.A.	.45
	6.3	B8G	1231	U.S.A.	.45

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
<b>75</b>	6.3	B8G	7A7	U.S.A.	.3
	6.3	B8G	7G7	U.S.A.	.45
	6.3	B8G	7H7	U.S.A.	.3
	6.3	B8G	7L7	U.S.A.	.3
	6.3	B8G	7T7	U.S.A.	.3
	6.3	B8G	1232	U.S.A.	.45
	6.3	B8G	EF22	Mullard	.2
	6.3	B8G	W81	Osram	.3
	6.3	B8G	W143	Marconi	.2
	6.3	B8G	W148	Marconi	.2
<b>76</b>	6.3	B8G	7B7	U.S.A.	.15
	6.3	B8G	7C7	U.S.A.	.15
	6.3	B8G	W149	Marconi	.15
<b>77</b>	6.3	P	EF5	Mullard	.2
	6.3	P	EF9	Mullard	.2
<b>78</b>	6.3	B9G	63SPT	Cossor	.3
	6.3	B9G	EF50	Mullard	.3
	6.3	B9G	Z90	Osram	.3
<b>79</b>	12.6	I.O.	12SJ7	U.S.A.	.15
	12.6	I.O.	12SK7	U.S.A.	.15
<b>80</b>	12.6	I.O.	12K7	U.S.A.	.15
	12.6	I.O.	12J7	U.S.A.	.15
	12.6	I.O.	W76	Osram	.16
<b>81</b>	12.6	B8G	12B7	U.S.A.	.15
	12.6	B8G	14A7	U.S.A.	.15
	12.6	B8G	14C7	U.S.A.	.15
<b>82</b>	13	B7	VPTS	Ferranti	.3
	13	B7	W30	Osram	.3
	13	B7	W31	Osram	.3
<b>83</b>	13	B7	9D2	Brimar	.2
	13	B7	13VPA	Cossor	.2
	13	B7	C50N	Ever Ready	.2
	13	B7	HP13	Tungfram	.2
	13	B7	VP13B	Tungfram	.2
	13	B7	VP13C	Mullard	.2
	13	B7	VP13K	Tungfram	.2
	13	B7	VP1322	Mazda	.2

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
84	13	B7	VP13	Tungsrarn	.2
	13	B7	VPTA	Ferranti	.2
85	13	B7	8D2	Brimar	.2
	13	B7	13SPA	Cossor	.2
	13	B7	C50B	Ever Ready	.2
	13	B7	SP13	Tungsrarn	.2
	13	B7	SP13A	Mullard	.2
	13	B7	SP13B	Tungsrarn	.2
	13	B7	SP13C	Mullard	.2
86	13	B8A	10F9	Mazda	.1
	13	B8A	UF41	Mullard	.1
	13	B8A	UF41	Tungsrarn	.1
	13	B8A	W145	Marconi	.1
87	13	P	SP13	Mullard	.2
	13	P	SP13S	Tungsrarn	.2
88	13	P	HP13S	Tungsrarn	.2
	13	P	VP13A	Mullard	.2
89	21	B8A	10F3	Mazda	.1
	21	B8A	UF42	Mullard	.1
	21	B8A	Z142	Marconi	.1
90	1.4	B7G	1A3	Am. & Brit.	.15
	1.4	B7G	DA90	Mullard	.15
91	1.4	B8G	1R4	U.S.A.	.15
	1.4	B8G	1294	U.S.A.	.15
92	4	B3G	D1	Mazda	.2
	4	B3G	T4D	Mullard	.2
93	6.3	B3G	6D1	Mazda	.15
	6.3	B3G	EA50	Mullard	.15
94	6.3	B5B	EA71	Mullard	.15
	6.3	B5B	EA76	Mullard	.15

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
95	2	B5	2D2	Mullard	.09
	2	B5	220DD	Cossor	.2
96	4	B5	2D4	Mullard	.65
	4	B5	DD465	Tungsram	.65
97	4	B5	2D4A	Mullard	.65
	4	B5	A20B	Ever Ready	.65
	4	B5	AC/DD	Mazda	1.0
	4	B5	D41	Osram	.3
	4	B5	DD4	Cossor	.75
	4	B5	DD4	Tungsram	.65
	4	B5	DDA41	Brimar	.65
	4	B5	SD	Ferranti	.3
98	4	B7	2D4B	Mullard	.35
	4	B7	DD4D	Tungsram	.4
99	6.3	B7G	6AL5	Am. & Brit.	.3
	6.3	B7G	6D2	Mazda	.3
	6.3	B7G	CK5726	Raytheon	.3
	6.3	B7G	D77	Osram	.3
	6.3	B7G	DD6	Cossor	.3
	6.3	B7G	DD6	Ferranti	.3
	6.3	B7G	DD6G	Tungsram	.3
	6.3	B7G	EB91	Mullard	.3
100	6.3	I.O.	6H6	Am. & Brit.	.3
	6.3	I.O.	D63	Osram	.3
	6.3	I.O.	EB34	Mullard	.2
	6.3	I.O.	OM3	Cossor	.2
101	6.3	B5	DD6	Tungsram	.2
	6.3	B5	DD620	Mazda	.2
	6.3	B5	ZD	Ferranti	.2
102	13	B5	2D13C	Mullard	.2
	13	B5	10D1	Brimar	.2
	13	B5	C20C	Ever Ready	.2
	13	B5	DD13	Tungsram	.2
103	13	P	2D13A	Mullard	.2
	13	P	DD13S	Tungsram	.2

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
<b>104</b>	1.4	I.O.	1H5	Am. & Brit.	.05
	1.4	I.O.	DAC32	Mullard	.05
	1.4	I.O.	HD14	Osram	.05
<b>105</b>	2	B5	DDT2A	Tungsrarn	.1
	2	B5	HD21	Osram	.2
<b>106</b>	2	B5	210DDT	Cossor	.1
	2	B5	DDT2	Tungsrarn	.1
	2	B5	DDT2B	Tungsrarn	.1
	2	B5	H2D	Ferranti	.1
	2	B5	HD22	Osram	.2
	2	B5	HD23	Osram	.15
	2	B5	HD24	Osram	.1
	2	B5	HL21DD	Mazda	.15
	2	B5	K23A	Ever Ready	.1
	2	B5	K23B	Ever Ready	.12
	2	B5	L21DD	Mazda	.1
	2	B5	TDD2	Mullard	.1
	2	B5	TDD2A	Mullard	.12
<b>107</b>	4	B7	11A1	Brimar	1.0
	4	B7	11A2	Brimar	1.0
	4	B7	A23A	Ever Ready	.65
	4	B7	AC/HLDD	Mazda	1.0
	4	B7	DDT	Cossor	1.0
	4	B7	DDT4	Tungsrarn	.65
	4	B7	DH42	Osram	.6
	4	B7	H4D	Ferranti	1.0
	4	B7	MHD4	Osram	1.0
4	B7	TDD4	Mullard	.65	
<b>108</b>	6.3	B7G	6AQ6	U.S.A.	.15
	6.3	B7G	6AV6	U.S.A.	.3
	6.3	B7G	DH77	Osram	.3
<b>109</b>	6.3	I.O.	6SR7	U.S.A.	.3
	6.3	I.O.	6ST7	U.S.A.	.15
<b>110</b>	6.3	I.O.	6B6	U.S.A.	.3
	6.3	I.O.	6Q7	U.S.A.	.3
	6.3	I.O.	DH63	Osram	.3

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
111	6.3	I.O.	6R7	U.S.A.	.3
	6.3	I.O.	DH147	Marconi	.2
	6.3	I.O.	DL63	Osram	.3
	6.3	I.O.	EBC33	Mullard	.2
	6.3	I.O.	EBC33	Tungsram	.2
	6.3	I.O.	OM4	Cossor	.2
112	6.3	I.O.	6B6	U.S.A.	.3
	6.3	I.O.	6T7	U.S.A.	.15
	6.3	I.O.	DH73	Osram	.16
113	6.3	I.O.	6SQ7	U.S.A.	.3
	6.3	I.O.	6SZ7	U.S.A.	.15
114	6.3	P	DDT6S	Tungsram	.2
	6.3	P	EBC3	Mullard	.2
115	6.3	B8A	DH150	Marconi	.23
	6.3	B8A	EBC41	Mullard	.23
116	6.3	B8G	7C6	U.S.A.	.15
	6.3	B8G	DH149	Marconi	.15
117	6.3	B8G	7B6	U.S.A.	.3
	6.3	B8G	DH81	Osram	.3
118	12.6	I.O.	12Q7	U.S.A.	.15
	12.6	I.O.	DH76	Osram	.16
119	13	B7	11D5	Brimar	.15
	13	B7	DH30	Osram	.3
	13	B7	HSD	Ferranti	.3
120	13	B7	11D3	Brimar	.2
	13	B7	13DHA	Cossor	.2
	20	B7	202DDT	Cossor	.2
	13	B7	C23B	Ever Ready	.2
	13	B7	DDT13	Tungsram	.2
	13	B7	HAD	Ferranti	.2
	13	B7	HLDD1320	Mazda	.2
	13	B7	TDD13C	Mullard	.2

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
121	13	P	DDT13S	Tungsram	·2
	13	P	TDD13	Mullard	·2
122	14	B8A	DH142	Marconi	·1
	14	B8A	UBC41	Mullard	·1
123	15	B8A	10LD11	Mazda	·1
	15	B8A	DL145	Marconi	·1
124	1·4	B7G	1FD9	Mazda	·05
	1·4	B7G	1S5	Am. & Brit.	·05
	1·4	B7G	DAF91	Ever Ready	·05
	1·4	B7G	DAF91	Mullard	·05
	1·4	B7G	ZD17	Osram	·05
125	6·3	B8A	EAF42	Mullard	·2
	6·3	B8A	WD150	Marconi	·2
126	12·6	B8A	UAF42	Mullard	·1
	12·6	B8A	WD142	Marconi	·1
127	6·3	B9A	6N8	U.S.A.	·3
	6·3	B9A	EBF80	Mullard	·3
128	12·6	I.O.	12C8	U.S.A.	·15
	12·6	I.O.	VP12D	Ferranti	·15
129	4	B7	A27D	Ever Ready	2·25
	4	B7	DDPP4M	Tungsram	2·0
	4	B7	PEN4DD	Mullard	2·25
130	4	B7	420TDD	Cossor	2·0
	4	B7	A27D	Ever Ready	2·25
	4	B7	AC/2PENDD	Mazda	2·0
	4	B7	DDPP4B	Tungsram	2·0
	4	B7	DN41	Osram	2·3
	4	B7	PT4D	Ferranti	2·0
131	6·3	B8G	DN143	Marconi	·8
	6·3	B8G	EBL21	Mullard	·8

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
<b>132</b>	6.3	P	DDPP6Bs	Tungsrarn	1.4
	6.3	P	EBL1	Mullard	1.5
	6.3	P	EBL1	Ever Ready	1.5
	6.3	P	EBL1	Tungsrarn	1.5
<b>133</b>	39	B7	DDPP39	Tungsrarn	.2
	40	B7	PENDD4020	Mazda	.2
<b>134</b>	44	B7	C27D	Ever Ready	.2
	39	B7	DDPP39M	Tungsrarn	.2
	44	B7	PEN40DD	Mullard	.2
<b>135</b>	1.4	I.O.	IE4	U.S.A.	.05
	1.4	I.O.	1G4	U.S.A.	.05
<b>136</b>	2	B4	210DET	Cossor	.1
	2	B4	210LF	Cossor	.1
	2	B4	K30B	Ever Ready	.1
	2	B4	K30D	Ever Ready	.1
	2	B4	K30E	Ever Ready	.1
	2	B4	L2	Mazda	.1
	2	B4	L21	Osram	.1
	2	B4	LD210	Tungsrarn	.1
	2	B4	LL2	Tungsrarn	.2
	2	B4	PM1LF	Mullard	.1
2	B4	PM2D	Mullard	.1	
<b>137</b>	2	B4	210HL	Cossor	.1
	2	B4	HL2	Ferranti	.1
	2	B4	HL2	Mazda	.1
	2	B4	HL2	Osram	.1
	2	B4	HL21	Osram	.1
	2	B4	HL210	Mazda	.1
	2	B4	HLB1	Brimar	.1
	2	B4	K30K	Ever Ready	.1
	2	B4	PM2HL	Mullard	.1
<b>138</b>	2	B4	210HL	Cossor	.1
	2	B4	HL2	Mazda	.1
	2	B4	HL2	Tungsrarn	.13
	2	B4	HL2/K	Osram	.1
	2	B4	HLB1	Brimar	.1
	2	B4	K30C	Ever Ready	.1
	2	B4	PM1HL	Mullard	.1
	2	B4	PM2HL	Mullard	.1
	2	B4	PM2DX	Mullard	.1

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
<b>139</b>	2	B5	210HF	Cossor	·1
	2	B5	210RC	Cossor	·1
	2	B5	H2	Mazda	·1
	2	B5	H2	Osram	·1
	2	B5	H210	Osram	·1
	2	B5	HL210	Mazda	·1
	2	B5	HL210	Osram	·1
	2	B5	HR210	Tungsrarn	·1
	2	B5	K30A	Ever Ready	·1
	2	B5	PM1A	Mullard	·1
	2	B5	PM1HF	Mullard	·1
<b>140</b>	2·5	UX5	27	U.S.A.	1·75
	2·5	UX5	56	U.S.A.	1·0
<b>141</b>	4	B5	41MHF	Cossor	1·0
	4	B5	41MLF	Cossor	1·0
	4	B5	41MTL	Cossor	1·0
	4	B5	244v	Mullard	·65
	4	B5	354v	Mullard	·65
	4	B5	A30D	Ever Ready	·65
	4	B5	AC/HL	Mazda	1·0
	4	B5	D4	Ferranti	1·0
	4	B5	HL4+	Tungsrarn	·65
	4	B5	HLA2	Brimar	1·0
	4	B5	MH4	Osram	1·0
	4	B5	MHL4	Osram	1·0
<b>142</b>	4	B5	41FP	Cossor	1·0
	4	B5	41MP	Cossor	1·0
	4	B5	104V	Mullard	1·0
	4	B5	154V	Mullard	·65
	4	B5	484V	Mullard	1·0
	4	B5	994V	Mullard	·65
	4	B5	AC/P	Mazda	1·0
	4	B5	L4	Ferranti	1·0
	4	B5	LL4	Tungsrarn	1·2
	4	B5	ML4	Osram	1·0
	4	B5	PA1	Brimar	1·1
	4	B5	TT4	Mullard	1·0
	4	B5	TT4A	Mullard	1·0
<b>143</b>	4	B5	AC/P4	Mazda	1·0
	4	B5	LL4C	Tungsrarn	1·2

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
<b>144</b>	4	B5	41MH	Cossor	1.0
	4	B5	41MHL	Cossor	1.0
	4	B5	41MRC	Cossor	1.0
	4	B5	41MTL	Cossor	1.0
	4	B5	904V	Mullard	.65
	4	B5	A30B	Ever Ready	.65
	4	B5	AC/2HL	Mazda	1.0
	4	B5	D4	Ferranti	1.0
	4	B5	HLA1	Brimar	1.0
	4	B5	MH41	Osram	1.0
<b>145</b>	4	B7	H42	Osram	.6
	4	B7	HL4G	Tungsram	.65
<b>146</b>	5	UX4	40	U.S.A.	.25
	5	UX4	O1A	U.S.A.	.25
	5	UX4	OOA	U.S.A.	.25
<b>147</b>	6.3	UX5	37	U.S.A.	.3
	6.3	UX5	76	U.S.A.	.3
<b>148</b>	6.3	B7G	6C4	U.S.A.	.15
	6.3	B7G	L77	Osram	.15
<b>149</b>	6.3	B7G	6L34	Mazda	.3
	6.3	B7G	EC91	Mullard	.3
<b>150</b>	6.3	I.O.	6F5	U.S.A.	.3
	6.3	I.O.	H63	Osram	.3
<b>151</b>	6.3	I.O.	6C5	U.S.A.	.3
	6.3	I.O.	6J5	U.S.A.	.3
	6.3	I.O.	6L5	U.S.A.	.15
	6.3	I.O.	L63	Osram	.3
<b>152</b>	6.3	I.O.	6AF5	U.S.A.	.3
	6.3	I.O.	6P5	U.S.A.	.3

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
<b>153</b>	13	B7	4D1	Brimar	.2
	13	B7	C30B	Ever Ready	.2
	13	B7	DA	Ferranti	.2
	13	B7	HL13	Tungsrarn	.2
	13	B7	HL13C	Mullard	.2
	13	B7	HL1320	Mazda	.2
<b>154</b>	13	B7	DS	Ferranti	.3
	13	B7	H30	Osram	.3
<b>155</b>	13	P	HL13	Mullard	.2
	13	P	HL13s	Tungsrarn	.2
<b>156</b>	20	B5	H20	Mullard	.18
	20	B5	HL20	Mullard	.18
	20	B5	R2018	Tungsrarn	.18
<b>157</b>	2	B4	215P	Cossor	.15
	2	B4	P215	Mazda	.15
	2	B4	P215	Osram	.15
	2	B4	P215	Tungsrarn	.15
	2	B4	PM2	Mullard	.2
<b>158</b>	2	B4	220P	Cossor	.2
	2	B4	220PA	Cossor	.2
	2	B4	K30G	Ever Ready	.2
	2	B4	L2	Ferranti	.2
	2	B4	LP2	Osram	.2
	2	B4	LP220	Tungsrarn	.2
	2	B4	P2	Osram	.2
	2	B4	P215	Mazda	.15
	2	B4	P220	Mazda	.2
	2	B4	P220A	Mazda	.2
	2	B4	P240	Osram	.2
	2	B4	PB1	Brimar	.2
	2	B4	PM2	Mullard	.2
	2	B4	PM2A	Mullard	.2
	2	B4	PM202	Mullard	.2
2	B4	PM252	Mullard	.3	
<b>159</b>	2	B4	230XP	Cossor	.3
	2	B4	LP2	Ferranti	.2
	2	B4	P2/B	Osram	.2
	2	B4	P220A	Mazda	.2
	2	B4	PM202	Mullard	.2
	2	B4	PM252	Mullard	.3
	2	B4	SP220	Tungsrarn	.2

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
160	2	B4	2P	Cossor	2.0
	2	B4	2XP	Cossor	2.0
	2	B4	ACO42	Mullard	2.0
	2	B4	PA20	Mazda	2.0
	2	B4	S30D	Ever Ready	2.0
161	2.5	UX4	2A3	U.S.A.	2.5
	2.5	UX4	45	U.S.A.	1.5
162	4	B4	DO24	Mullard	1.85
	4	B4	DO26	Mullard	2.0
	4	B4	P27/500	Tungsrarn	2.0
	4	B4	PP5/400	Mazda	2.0
	4	B4	PX25	Osram	2.0
163	4	B4	4XP	Cossor	1.0
	4	B4	ACO44	Mullard	1.0
	4	B4	ACO54	Mullard	1.0
	4	B4	ACO64	Mullard	1.0
	4	B4	ACO84	Mullard	1.0
	4	B4	AC104	Mullard	1.0
	4	B4	LP4	Ferranti	1.0
	4	B4	P12/250	Tungsrarn	1.0
	4	B4	PP3/250	Mazda	1.0
	4	B4	PX4	Osram	1.0
4	B4	S30C	Ever Ready	1.0	
164	4	B4	DA30	Osram	2.0
	4	B4	DO30	Mullard	2.0
	4	B4	PA40	Mazda	2.0
	4	B4	PX25A	Osram	2.0
	4	B4	V503	Mazda	2.0
165	4	B5	41MXP	Cossor	1.0
	4	B5	AC/P1	Mazda	1.0
	4	B5	O54V	Mullard	1.0
166	5	UX4	12A	U.S.A.	.25
	5	UX4	71A	U.S.A.	.25
167	6.3	I.O.	6A5	U.S.A.	1.0
	6.3	I.O.	6B4	U.S.A.	1.0

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
168	1·4/2·8	B7G	3A5	Am. & Brit.	·22/·11
	1·4/2·8	B7G	DCC90	Mullard	·22/·11
169	6·3	B7G	6J6	Am. & Brit.	·45
	6·3	B7G	ECC91	Mullard	·45
170	6·3	I.O.	6SN7	Am. & Brit.	·6
	6·3	I.O.	B65	Osram	·6
171	6·3	I.O.	6SC7	U.S.A.	·3
	6·3	I.O.	6SL7	U.S.A.	·3
	6·3	I.O.	6SU7	U.S.A.	·3
	6·3	I.O.	ECC35	Mullard	·4
172	6·3	I.O.	ECC32	Mullard	·95
	6·3	I.O.	ECC33	Mullard	·2
173	6·3	B9A	12AT7	U.S.A.	·3
	6·3	B9A	ECC81	Mullard	·3
174	12·6	I.O.	12SN7	Am. & Brit.	·3
	12·6	I.O.	12SX7	U.S.A.	·3
	12·6	I.O.	B36	Osram	·3
175	12·6	B8G	14AF7	U.S.A.	·15
	12·6	B8G	14N7	U.S.A.	·3
176	12·6	B9A	12AT7	U.S.A.	·15
	12·6	B9A	ECC81	Mullard	·15
177	1·25	Wires	CK502AX	Raytheon	·03
	1·25	Wires	DL71	Mullard	·025
178	1·25	Wires	CK506AX	Raytheon	·045
	1·25	Wires	DL72	Mullard	·025

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
<b>179</b>	1·4/2·8	B7G	3A4	Am. & Brit.	·2/·1
	1·4/2·8	B7G	DL93	Mullard	·2/·1
<b>180</b>	1·4/2·8	B7G	1P11	Mazda	·1/·05
	1·4/2·8	B7G	3V4	U.S.A.	·1/·05
	1·4/2·8	B7G	DL94	Mullard	·1/·05
	1·4/2·8	B7G	N19	Osram	·1/·05
<b>181</b>	1·4	B7G	1S4	Am. & Brit.	·1
	1·4	B7G	DL91	Mullard	·1
<b>182</b>	1·4/2·8	B7G	3Q4	Am. & Brit.	·1/·05
	1·4/2·8	B7G	DL95	Mullard	·1/·05
	1·4/2·8	B7G	N18	Osram	·1/·05
<b>183</b>	1·4/2·8	B7G	1P10	Mazda	·1/·05
	1·4/2·8	B7G	3S4	Am. & Brit.	·1/·05
	1·4/2·8	B7G	DL92	Ever Ready	·1/·05
	1·4/2·8	B7G	DL92	Mullard	·1/·05
	1·4/2·8	B7G	N17	Osram	·1/·05
<b>184</b>	1·4	I.O.	1A5G	U.S.A.	·05
	1·4	I.O.	1C5	U.S.A.	·1
	1·4	I.O.	1Q5	U.S.A.	·1
	1·4	I.O.	1T5	U.S.A.	·05
	1·4	I.O.	DL35	Mullard	·1
	1·4	I.O.	N14	Osram	·1
<b>185</b>	1·4/2·8	I.O.	3Q5	Am. & Brit.	·1/·05
	1·4/2·8	I.O.	DL33	Mullard	·1/·05
	1·4/2·8	I.O.	N16	Osram	·1/·05
<b>186</b>	1·4	B8G	1LA4	U.S.A.	·05
	1·4	B8G	1LB4	U.S.A.	·05
<b>187</b>	1·4/2·8	B8G	3D6	U.S.A.	·1/·05
	1·4/2·8	B8G	3LF4	U.S.A.	·1/·05
	1·4/2·8	B8G	1299	U.S.A.	·1/·05
<b>188</b>	2	B4	215SG	Cossor	·15
	2	B4	PM12	Mullard	·15
	2	B4	S2	Ferranti	·15
	2	B4	S21	Osram	·15
	2	B4	S215	Osram	·18
	2	B4	SG215	Mazda	·15

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
189	2	B5	220HPT	Cossor	.2
	2	B5	220/OT	Cossor	.2
	2	B5	K70B	Ever Ready	.15
	2	B5	KT2	Osram	.2
	2	B5	PEN220	Mazda	.2
	2	B5	PENB1	Brimar	.2
	2	B5	PM22	Mullard	.2
	2	B5	PM22A	Mullard	.15
	2	B5	PP2	Tungsrarn	.14
	2	B5	PT2	Ferranti	.2
2	B5	PT2	Osram	.2	
190	2	B5	220PT	Cossor	.2
	2	B5	230PT	Cossor	.3
	2	B5	PEN220A	Mazda	.2
	2	B5	PM22C	Mullard	.3
	2	B5	PP225	Tungsrarn	.26
191	2	B5	K70D	Ever Ready	.3
	2	B5	KT24	Osram	.2
	2	B5	PEN231	Mazda	.3
	2	B5	PM22D	Mullard	.3
192	2	I.O.	1G5G	U.S.A.	.12
	2	I.O.	1J5G	U.S.A.	.12
193	4	B5	PENA1	Brimar	1.0
	4	B5	PM24	Mullard	.15
	4	B5	PM24A	Mullard	.275
	4	B5	PM24M	Mullard	1.1
	4	B5	PP4	Tungsrarn	1.1
	4	B5	PT4	Osram	1.0
	4	B5	PT41	Cossor	1.0
194	4	B5	PM24B	Mullard	1.0
	4	B5	PM24C	Mullard	1.0
	4	B5	PM24D	Mullard	2.0
	4	B5	PT41B	Cossor	1.0
195	4	B5	PM24E	Mullard	2.0
	4	B5	PT25	Osram	2.0
196	4	B7	APP4G	Tungsrarn	2.0
	4	B7	N43	Osram	2.0

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
197	4	B7	7A2	Brimar	1.2
	4	B7	A70B	Ever Ready	1.35
	4	B7	AC/PEN	Mazda	1.0
	4	B7	APP4A	Tungsrarn	1.2
	4	B7	KT42	Osram	1.0
	4	B7	MKT4	Osram	1.0
	4	B7	MP/PEN	Cossor	1.0
	4	B7	MP/PENA	Cossor	1.0
	4	B7	MPT4	Osram	1.0
	4	B7	PEN4VA	Mullard	1.35
198	4	B7	7A3	Brimar	2.0
	4	B7	42MP/PEN	Cossor	2.0
	4	B7	42OT	Cossor	2.0
	4	B7	A70C	Ever Ready	2.0
	4	B7	A70D	Ever Ready	1.95
	4	B7	AC/2PEN	Mazda	1.75
	4	B7	APP4B	Tungsrarn	2.0
	4	B7	KT41	Osram	2.0
	4	B7	N41	Osram	2.0
	4	B7	PEN4VB	Mullard	1.1
	4	B7	PENA4	Mullard	1.95
	4	B7	PT4	Ferranti	2.0
199	4	B7	A70E	Ever Ready	2.1
	4	B7	AC/4PEN	Mazda	1.75
	4	B7	APP4E	Tungsrarn	2.0
	4	B7	PEN428	Mullard	2.1
	4	B7	PENB4	Mullard	2.1
200	4	B7	AC/5 PEN	Mazda	1.75
	4	B7	PT10	Cossor	2.0
201	6.3	UX5	6A4	U.S.A.	.3
	6.3	UX5	52	U.S.A.	.3
202	6.3	UX5	5B/250A	S.T.C.	.9
	6.3	UX5	807	Am. & Brit.	.9
	6.3	UX5	QVO5-25	Mullard	.9
203	6.3	UX6	41	U.S.A.	.4
	6.3	UX6	42	U.S.A.	.7

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
204	6.3	B7G	6AM5	Am. & Brit.	.2
	6.3	B7G	7D9	Brimar	.2
	6.3	B7G	EL91	Mullard	.2
	6.3	B7G	N77	Osram	.2
	6.3	B7G	N144	Marconi	.2
205	6.3	I.O.	6U6	U.S.A.	.75
	6.3	I.O.	6W6	U.S.A.	1.25
	6.3	I.O.	6Y6	U.S.A.	1.25
206	6.3	I.O.	EL32	Mullard	.2
	6.3	I.O.	OM9	Cossor	.2
207	6.3	I.O.	6AG6	Am. & Brit.	1.25
	6.3	I.O.	6K6	U.S.A.	.4
	6.3	I.O.	6P25	Mazda	1.1
	6.3	I.O.	6V6	Am. & Brit.	.45
	6.3	I.O.	EL33	Mullard	.9
	6.3	I.O.	KT61	Osram	.95
	6.3	I.O.	N147	Marconi	.9
6.3	I.O.	PP6BG	Tungsram	1.2	
208	6.3	I.O.	6L6	Am. & Brit.	.9
	6.3	I.O.	EL35	Mullard	1.35
	6.3	I.O.	EL37	Mullard	1.4
	6.3	I.O.	KT66	Osram	1.27
	6.3	I.O.	N66	Osram	1.27
209	6.3	I.O.	6F6	Am. & Brit.	.7
	6.3	I.O.	KT63	Osram	.7
	6.3	I.O.	N63	Osram	.7
210	6.3	B8A	EL42	Mullard	.2
	6.3	B8A	N151	Marconi	.2
211	6.3	B8A	EL41	Mullard	.65
	6.3	B8A	N150	Marconi	.65
212	6.3	B8G	7B5	U.S.A.	.4
	6.3	B8G	7C5	U.S.A.	.45
	6.3	B8G	KT81	Marconi	.95
213	6.3	P	EL2	Mullard	.2
	6.3	P	EL2	Tungsram	.2
	6.3	P	PP6AS	Tungsram	.2

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
<b>214</b>	6.3	P	EL3	Mullard	.9
	6.3	P	EL3	Tungsrarn	.9
	6.3	P	PP6BS	Tungsrarn	1.2
<b>215</b>	13	B7	7D8	Brimar	.65
	13	B7	KT30	Osram	.3
	13	B7	N30	Osram	.3
	13	B7	PEN13C	Mullard	.5
	13	B7	PEN1340	Mazda	.4
	13	B7	PP13A	Tungsrarn	.3
	13	B7	PTA	Ferranti	.3
<b>216</b>	13/26	B7	KT31	Osram	.6/.3
	13/26	B7	N31	Osram	.6/.3
	13/26	B7	PTS	Ferranti	.6/.3
<b>217</b>	20	B5	PEN20	Mullard	.18
	20	B5	PP2018	Tungsrarn	.18
<b>218</b>	33	P	CL4	Mullard	.2
	24	P	PEN26	Mullard	.2
	24	P	PP24S	Tungsrarn	.2
<b>219</b>	25	I.O.	25A6	U.S.A.	.3
	25	I.O.	KT33	Osram	.3
<b>220</b>	25	I.O.	25L6	U.S.A.	.3
	25	I.O.	KT32	Osram	.3
<b>221</b>	40	B7	7D6	Brimar	.2
	35	B7	C70D	Ever Ready	.2
	35	B7	C70E	Ever Ready	.2
	33	B7	PEN36C	Mullard	.2
	35	B7	PEN3520	Mazda	.2
	35	B7	PP35	Tungsrarn	.2
	40	B7	PTZ	Ferranti	.2
<b>222</b>	33	I.O.	332PEN	Cossor	.2
	33	I.O.	CL33	Ever Ready	.2
	33	I.O.	CL33	Mullard	.2
	33	I.O.	CL33	Tungsrarn	.2
<b>223</b>	40	B7	7D3	Brimar	.2
	40	B7	40PPA	Cossor	.2

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
<b>224</b>	40	B7	402OT	Cossor	.2
	40	B7	402PEN	Cossor	.2
	35	B7	PP34	Tungsrarn	.2
<b>225</b>	40	B8A	10P13	Mazda	.1
	40	B8A	N145	Marconi	.1
<b>226</b>	45	B8A	N142	Marconi	.1
	45	B8A	UL41	Mullard	.1
	45	B8A	UL46	Mullard	.1
<b>227</b>	48	I.O.	50L6	U.S.A.	.15
	48	I.O.	KT71	Osram	.16
<b>228</b>	1.4	B8G	3B7	U.S.A.	.22
	1.4	B8G	1291	U.S.A.	.22
<b>229</b>	2	B7	B21	Osram	.2
	2	B7	CB220	Tungsrarn	.25
	2	B7	K33B	Ever Ready	.2
	2	B7	PD220A	Mazda	.2
	2	B7	PM2BA	Mullard	.2
<b>230</b>	2	B7	220B	Cossor	.2
	2	B7	240B	Cossor	.4
	2	B7	CB215	Tungsrarn	.22
	2	B7	HP2	Ferranti	.2
	2	B7	K33A	Ever Ready	.2
	2	B7	PD220	Mazda	.2
2	B7	PM2B	Mullard	.2	
<b>231</b>	2.8	B8G	3B7	U.S.A.	.11
	2.8	B8G	1291	U.S.A.	.11
<b>232</b>	6.3	UX7	6A6	U.S.A.	.8
	6.3	UX7	B63	Osram	.8
<b>233</b>	6.3	I.O.	6AB6	U.S.A.	.5
	6.3	I.O.	6N6	U.S.A.	.8

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
234	6.3	I.O.	6N7	U.S.A.	.8
	6.3	I.O.	CK5694	Raytheon	.8
235	2	B7	240QP	Cossor	.4
	2	B7	K77B	Ever Ready	.5
	2	B7	QP21	Osram	.4
	2	B7	QP22B	Mullard	.3
	2	B7	QP230	Mazda	.3
	2	B7	QPT2	Ferranti	.4
236	2	B9	K77A	Ever Ready	.5
	2	B9	QP22A	Mullard	.45
	2	B9	QP240	Mazda	.45
237	4	B7	AC/ME	Mazda	.5
	4	B7	VME4	Tungsrham	.5
238	4	P	A39A	Ever Ready	.3
	4	P	ME4S	Tungsrham	.3
	4	P	TV4	Mullard	.3
	4	P	TV4A	Mullard	.3
239	6.3	UX6	6AB5	U.S.A.	.15
	6.3	UX6	6E5	U.S.A.	.3
	6.3	UX6	6H5	U.S.A.	.3
	6.3	UX6	6N5	U.S.A.	.15
240	6.3	I.O.	64ME	Cossor	.2
	6.3	I.O.	EM34	Mullard	.2
241	6.3	I.O.	6G5	Tungsrham	.3
	6.3	I.O.	6M1	Mazda	.3
	6.3	I.O.	6U5	Brimar	.3
	6.3	I.O.	63ME	Cossor	.3
	6.3	I.O.	VFT6	Ferranti	.3
	6.3	I.O.	Y61	Osram	.3
	6.3	I.O.	Y62	Osram	.3
	6.3	I.O.	Y63	Osram	.3
	6.3	I.O.	Y64	Osram	.3
242	6.3	P	C39A	Ever Ready	.2
	6.3	P	EM1	Mullard	.2
	6.3	P	ME6s	Tungsrham	.2
	6.3	P	TV6	Mullard	.2

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
243	6.3	B9A	6BE7	U.S.A.	.2
	6.3	B9A	EQ80	Mullard	.2
244	2	B4	HVR1	Mullard	.29
	2	B4	SU2130	Cossor	1.0
	2	B4	U16	Osram	1.0
245	2	B4	SU2150	Cossor	1.15
	2	B4	U21	Osram	1.85
246	2	B4	HVR2A	Mullard	1.5
	2	B4	SU2150A	Cossor	1.5
	2	B4	VLS61	Brimar	1.2
247	2	I.O.	SU25	Cossor	.5
	2	I.O.	U24	Mazda	.15
248	2.5	UX4	2X2	U.S.A.	1.75
	2.5	UX4	2Y2	U.S.A.	1.75
	2.5	UX4	879	U.S.A.	1.75
249	4	B4	HVR2	Mullard	.65
	4	B4	V21/7000	Tungstam	.65
250	4	B7G	HR2	Ferranti	.5
	4	B7G	R10	Brimar	.5
251	6.3	UX4	1	U.S.A.	.3
	6.3	UX4	1V	U.S.A.	.3
	6.3	UX4	6Z3	U.S.A.	.3
252	6.3	B8G	7Z4	U.S.A.	.9
	6.3	B8G	U82	Osram	.6
253	6.3	B2G	EY51	Mullard	.08
	6.3	B2G	R12	Brimar	.08
	6.3	B2G	SU61	Cossor	.08
254	12.6	UX4	12Z3	U.S.A.	.3
	12.6	UX4	14Z3	U.S.A.	.3

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
<b>255</b>	20	B5	C10B	Ever Ready	.2
	20	B5	RZ	Ferranti	.2
	20	B5	UR1C	Mullard	.2
	20	B5	V20	Tungsrarn	.2
<b>256</b>	20	I.O.	CY31	Ever Ready	.2
	20	I.O.	CY31	Mullard	.2
	30	I.O.	OM1	Cossor	.2
	20	I.O.	U201	Mazda	.2
<b>257</b>	20	P	UR1	Mullard	.2
	20	P	V20S	Tungsrarn	.2
<b>258</b>	25	UX6	25RE	Cossor	.3
	25	UX6	25Y5	U.S.A.	.3
<b>259</b>	26	I.O.	25Y4	U.S.A.	.15
	26	I.O.	25Z4	U.S.A.	.3
	26	I.O.	U31	Osram	.3
<b>260</b>	29	P	PV29S	Tungsrarn	.2
	29	P	UR2	Mullard	.2
<b>261</b>	35	I.O.	35Z4	U.S.A.	.15
	30	I.O.	U76	Osram	.16
<b>262</b>	30	P	PV30S	Tungsrarn	.2
	30	P	UR3	Mullard	.2
<b>263</b>	31	B8A	U142	Marconi	.1
	31	B8A	UY41	Mullard	.1
<b>264</b>	40	B5	1D5	Brimar	.2
	40	B5	40SUA	Cossor	.2
	40	B5	U4020	Mazda	.2
<b>265</b>	40	I.O.	40Z5	U.S.A.	.15
	40	I.O.	45Z5	U.S.A.	.15
<b>266</b>	40	B8A	U145	Marconi	.1
	40	B8A	U404	Mazda	.1

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
267	4	B4	431U	Cossor	2.5
	4	B4	A11B	Ever Ready	2.5
	4	B4	A11D	Ever Ready	2.5
	4	B4	APV4	Tungsrarn	2.0
	4	B4	IW4/350	Mullard	2.0
	4	B4	MU12	Osram	2.5
	4	B4	R2	Brimar	2.5
	4	B4	R42	Ferranti	2.5
	4	B4	UU3	Mazda	2.0
4	B4	UU4	Mazda	2.2	
268	4	B4	441U	Cossor	2.5
	4	B4	A11C	Ever Ready	2.4
	4	B4	IW4/500	Mullard	2.5
	4	B4	MU12/14	Osram	2.5
	4	B4	MU14	Osram	2.5
	4	B4	R3	Brimar	2.5
	4	B4	UU5	Mazda	2.3
269	4	B4	408BU	Cossor	1.0
	4	B4	506BU	Cossor	1.0
	4	B4	DW2	Mullard	1.0
	4	B4	PV495	Tungsrarn	1.1
	4	B4	R1	Brimar	1.0
	4	B4	S11A	Ever Ready	1.0
	4	B4	U10	Osram	1.0
	4	B4	UU60/250	Mazda	1.0
270	4	B4	4/100BU	Cossor	2.5
	4	B4	451U	Cossor	3.5
	4	B4	FW4/500	Mullard	3.0
	4	B4	U18/20	Osram	3.0
271	4	B4	FW4/800	Mullard	3.0
	4	B4	RV200/600	Tungsrarn	2.8
272	4	B4	442BU	Cossor	2.5
	4	B4	DW3	Mullard	2.0
	4	B4	DW4/350	Mullard	2.0
	4	B4	PV4	Tungsrarn	2.0
	4	B4	R4	Ferranti	2.5
	4	B4	RV120/350	Tungsrarn	2.0
	4	B4	S11D	Ever Ready	2.0
	4	B4	U12	Osram	2.5
	4	B4	UU120/350	Mazda	2.0

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
273	4	B4	460BU	Cossor	2.5
	4	B4	DW4	Mullard	2.0
	4	B4	DW4/500	Mullard	2.0
	4	B4	PV4200	Tungsram	2.0
	4	B4	R3	Brimar	2.5
	4	B4	R4A	Ferranti	2.5
	4	B4	RV120/500	Tungsram	2.0
	4	B4	U12/14	Osram	2.5
	4	B4	U14	Osram	2.5
	4	B4	UU120/500	Mazda	2.5
274	4	I.O.	AZ31	Mullard	1.1
	4	I.O.	U143	Marconi	1.1
275	5	UX4	5Z3	Am. & Brit.	3.0
	5	UX4	83	U.S.A.	3.0
	5	UX4	1275	U.S.A.	1.75
276	5	I.O.	5T4	U.S.A.	3.0
	5	I.O.	5U4	U.S.A.	3.0
	5	I.O.	53KU	Cossor	2.8
	5	I.O.	U52 6237	Osram	3.0
277	5	I.O.	5AZ4	U.S.A.	2.0
	5	I.O.	5V4	U.S.A.	2.0
	5	I.O.	5W4	U.S.A.	1.5
	5	I.O.	5Y3	U.S.A.	2.0
	5	I.O.	5Z4	U.S.A.	2.0
	5	I.O.	54KU	Cossor	2.0
	5	I.O.	GZ32	Mullard	2.0
	5	I.O.	R52	Ferranti	2.0
	5	I.O.	U50	Osram	2.0
278	6.3	UX5	6Z4	U.S.A.	.5
	6.3	UX5	84	U.S.A.	.5
279	6.3	I.O.	6W5	U.S.A.	.9
	6.3	I.O.	6X5	U.S.A.	.5
	6.3	I.O.	6ZY5	U.S.A.	.3
	6.3	I.O.	EZ35	Mullard	.6
	6.3	I.O.	U70	Osram	.8
	6.3	I.O.	U147	Marconi	.6

SECTION	Filament Voltage	Base	Valve Type No.	Maker	Filament Current in Amperes
<b>280</b>	6.3	B8A	7Y7	U.S.A.	.56
	6.3	B8A	EZ40	Mullard	.56
	6.3	B8A	U150	Marconi	.56
	6.3	B8A	UU9	Mazda	.63
<b>281</b>	6.3	B8G	7Y4	U.S.A.	.5
	6.3	B8G	7Z4	U.S.A.	.9
	6.3	B8G	U149	Marconi	.5
<b>282</b>	25	B7	PV25	Tungsrarn	.3
	25	B7	U30	Osram	.3
<b>283</b>	25	I.O.	25X6	U.S.A.	.15
	25	I.O.	25Z6	U.S.A.	.3
<b>284</b>	30	B7	PV30	Tungsrarn	.2
	30	B7	UR3C	Mullard	.2
<b>285</b>	50	I.O.	50Y6	U.S.A.	.15
	50	I.O.	50Z7	U.S.A.	.15
<b>286</b>	117	I.O.	117L7	U.S.A.	.09
	117	I.O.	117M7	U.S.A.	.09
<b>287</b>	117	I.O.	117N7	U.S.A.	.09
	117	I.O.	117P7	U.S.A.	.09
<b>288</b>	6.3	B7G	6BA6	Am. & Brit.	.3
	6.3	B7G	EF93	Mullard	.3

# SERVICE VALVES AND THEIR COMMERCIAL EQUIVALENTS

In the valve equivalent list that follows, it should be mentioned that the numbers quoted are not in every case the exact commercial equivalents. Many are special development types having no commercial currency, and manufacturers often will not supply data on these, most of which are represented by the numbers E1148, V1906, etc.

The letter in brackets that immediately follows the commercial equivalent indicates the name of the manufacturer. The key to the letters is as follows :

- |                                   |                               |
|-----------------------------------|-------------------------------|
| A—American                        | M—Mullard                     |
| B—British Thomson-Houston         | N—British Navy                |
| C—Cossor                          | O—Marconi Osram Valve Co.     |
| D—Mazda                           | P—Philips                     |
| E—Ediswan                         | Q—Hivac                       |
| F—Electrical & Musical Industries | R—Cin-tel                     |
| G—G.E.C. (Great Britain)          | S—Standard Telephone & Cables |
| H—Ministry of Supply              | T—Tungsram                    |
| J—Canadian                        | V—Telefunken                  |
| K—Marconi Wireless Telegraph Co.  | W—French                      |
| L—Ferranti                        |                               |

British Army No.	Commercial Equivalent	British Army No.	Commercial Equivalent	British Army No.	Commercial Equivalent
AD1	DLS10 (E)	ARP6	SP4 (M)	ARS6	S625 (O)
AR4	HL210 (D)	ARP7	42MPT (C)	ARS7	VS24 (O)
AR5	LP2 (O)	ARP8	AC4/Pen (D)	ARS8	PM12V (M)
AR6	LP2 (O)	ARP9	Pen1340 (D)	ARTH2	ECH35 (M)
AR7	4D1 (S)	ARP9a	7D8 (S)	ARTP1	TP22 (D)
AR8	HL23DD (D)	ARP10	PenA4 (M)	ARTP2	TP25 (D)
AR9	L21 (O)	ARP11	TSP4 (M)	AT20	MZ05-20 (M)
AR10	TDD2A (M)	ARP12	VP23 (D)	AT35	DET25 (O)
AR11	4019B (S)	ARP13	VP21 (O)	AT37	ACT6 (F)
AR12	4020A (S)	ARP14	220PT (C)	ATP10	4061A (S)
AR13	4022AR (S)	ARP15	KTW63 (O)	ATP35	PV1-35 (M)
AR14	220RC (C)	ARP16	6J7 (A)	ATP75	PT6 (O)
AR15	220LF (C)	ARP17	6F6 (A)	ATP100	4069A (S)
AR16	220B (C)	ARP18	KT24 (O)	ATS25	807 (A)
AR17	MH4 (O)	ARP19	SP41 (D)	ATS25A	807 (A)
AR20	4021B (S)	ARP20	SP42 (D)	ATS70	4282B (S)
AR21	EBC33 (M)	ARP21	Z62 (O)	AU1	U18 (O)
ARD2	D1 (D)	ARP22	116/Pen (C)	AU3	U12-14 (O)
ARD4	D42 (O)	ARP23	HP4101 (T)	AU3A	MU14 (O)
ARDD1	10D1 (S)	ARP24	220VPT (C)	AU4	U17 (O)
ARDD3	6H6 (A)	ARP25	KT41 (O)	AU6	GU5 (O)
ARDD5	EB34 (M)	ARP26	KT44 (O)	AU8	U22 (O)
ARH1	X64 (O)	ARP33	MSP4 (O)	AW2	7475 (M)
ARPI	KT2 (O)	ARP34	EF39 (M)	AW3	S130 (C)
ARP2	SP2 (M)	ARP35	EF50 (M)	AW4	STV280/40 (O)
ARP3	9D2 (S)	ARP36	SP61 (D)	AW5	ME41 (D)
ARP4	SP210 (D)	ARP37	QP25 (D)	AW6	EM31 (M)
ARP5	VP2 (M)	ARP38	KTZ73 (O)		

C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer
1	DC51 (M)	86	V1507 (H)	185	PM202 (M)
3	E1228 (G)	87	KRN2 (F)	187	U19 (O)
5	GU21 (O)	88	DV32 (S)	188	E1436 (G)
6	E1148 (G)	89	E1380 (G)	190	DLS10 (E)
8	E1248 (G)	90	E1368 (G)	191	E1494 (G)
9	AL60 (M)	92	E1232 (G)	192	E1481 (G)
12	E1191 (G)	93	V625 (P)	199	NT99 (N)
13	BT9B (B)	94	DS103 (O)	200	MZ2-200 (D)
15	E1266 (G)	100	V1924 (E)	201	V630 (H)
16	S25A (S)	105	E1371 (G)	207	ACP4 (E)
18	DET19 (O)	110	VS68 (H)	208	E1487 (G)
19	EHT1 (O)	114	E1265 (G)	214	E1531 (G)
20	V1906 (D)	115	E1415 (G)	215	E1497 (G)
21	VP41 (D)	116	KR6/1 (F)	216	VR150 (A)
22	BT45 (B)	117	E1417 (G)	219	E1046 (O)
24	HL41 (O)	118	SP61 (D)	221	E1516 (G)
25	4242A (S)	119	XJ (Q)	222	E1489 (G)
26	813 (A)	121	V1920 (E)	225	ACT17 (O)
27	4357A (S)	122	E1336 (G)	229	E1336 (G)
28	ACT9 (O)	123	E1330 (G)	230	DV55 (S)
29	E1235 (G)	124	807 (A)	235	U23 (O)
30	4270A (S)	125	V2024 (E)	236	E1465 (G)
31	U20 (M)	126	E1362 (G)	240	E1496 (G)
32	866 (A)	127	S30A (O)	242	GS18 (R)
33	4077A (S)	128	SU750 (C)	243	4045A (S)
34	MR10 (O)	129	KRN2A (F)	244	4046A (S)
39	S22AF (S)	131	V884 (E)	245	4328D (S)
41	E1267 (G)	133	6C4 (A)	248	GS16 (R)
42	E1256 (G)	135	DDR3 (H)	249	4019A (S)
45	S130P (C)	136	7D9 (S)	250	CMG25RS (O)
46	8011 (A)	138	EF91 (M)	257	E1457 (G)
49	3B/501A (S)	139	V738 (H)	259	E1495 (G)
51	E1320 (G)	140	6AL5 (A)	260	SP61 (D)
52	E1231 (G)	142	U2 (O)	261	2T/270K (S)
53	S26A (S)	143	U3 (O)	278	E1606 (G)
54	VU133A (H)	144	U4 (O)	281	X61M (O)
55	E1190 (G)	145	U5 (O)	283	6AL5 (A)
57	E1271 (G)	147	U7 (O)	285	VA35 (R)
58	E1273 (G)	148	U8 (O)	290	E1527 (G)
63	E1323 (G)	152	GU21 (O)	302	ECH22 (M)
64	E1342 (G)	153	E1411 (G)	303	EF22 (M)
65	PEN25 (D)	154	E1419 (O)	304	EL22 (M)
66	RL37 (M)	155	E1190 (G)	305	EF51 (M)
72	V1120 (E)	161	VS26 (O)	315	TY1-50 (M)
73	V1120B (E)	171	W21 (O)	324	GU8 (O)
74	XP (Q)	172	E1468 (G)	327	EF52 (M)
75	4313C (S)	173	DDR2 (H)	344	E1323 (O)
78	E1474 (G)	174	E1459 (G)	346	EZ22 (M)
79	E1379 (G)	175	XSG1.5 (Q)	347	EBC21 (M)
82	S27A (S)	176	XPI.5 (Q)	358	EF37 (M)
84	3B/102B (S)	178	E1458 (G)	379	ACT19 (M)
85	V2023 (E)	181	ECC31 (M)	380	EF54 (M)

C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer
384	DET5 (O)	525	12A6 (A)	585	6C6 (A)
385	CK502 (A)	526	12A6GT (A)	586	EL37 (M)
386	CK505 (A)	527	DA60 (K)	587	6Q7G (A)
387	CK506 (A)	529	12AH7GT (A)	588	6Q7 (A)
391	LS650 (S)	531	12C8 (A)	589	6Q7GT (A)
394	EM34 (M)	532	GU11 (K)	590	6SJ7G (A)
409	A1820 (O)	533	CAT17c (K)	591	6SJ7 (A)
410	K3A (L)	534	12J5 (A)	592	6SJ7GT (A)
412	A800 (O)	535	12J5GT (A)	593	GZ32 (M)
418	MX2 (F)	537	12SA7 (A)	594	6SH7 (A)
419	DET18 (K)	538	12SA7GT (A)	595	6SH7GT (A)
421	CAT20c (K)	540	12SC7 (A)	596	45 (A)
423	25SN7 (T)	541	8016 (A)	597	879 (A)
424	QQE06/40 (M)	543	12SK7 (A)	598	715C (A)
426	EY51 (M)	544	12SK7GT (A)	599	1851 (A)
428	5B/251M (S)	545	AC/SP3 (D)	600	5CP1 (A)
430	29C1 (D)	546	12SQ7 (A)	601	5BP1 (A)
431	85A1 (M)	547	12SQ7GT (A)	602	3AP1 (A)
438	G120/1B (S)	548	LP2 (O)	603	10 (A)
443	CK505AX (A)	549	25A6 (A)	604	30 (A)
444	MZ1-75 (M)	550	25A6GT (A)	606	37 (A)
445	5J/180E (S)	551	25L6G (A)	608	41 (A)
446	3Q/260E (S)	552	25L6 (A)	609	42 (A)
447	4078GA (S)	553	25L6GT (A)	610	45 (A)
450	EL38 (M)	554	D63 (O)	611	56 (A)
452	6AT6 (A)	555	25Z5 (A)	612	57 (A)
453	6BE6 (A)	556	QP25 (D)	613	58 (A)
454	6BA6 (A)	557	D42 (O)	614	75 (A)
455	12AT7 (A)	558	25Z6 (A)	615	76 (A)
491	12AU7 (A)	559	25Z6GT (A)	616	77 (A)
492	12AX7 (A)	560	TSP4 (M)	617	80 (A)
493	6X4 (A)	561	35L6 (A)	618	83 (A)
500	6T7G (A)	562	35L6GT (A)	619	84 (A)
501	EBF32 (M)	563	DA30 (O)	620	211 (A)
502	LD210 (T)	564	35Z3 (A)	621	801 (A)
503	5W4DT (A)	565	35Z3GT (A)	622	802 (A)
504	6U5/6G5 (A)	567	35Z5 (A)	623	803 (A)
505	MT16 (K)	568	35Z5GT (A)	624	804 (A)
506	GL8023 (A)	569	ECC35 (M)	625	805 (A)
508	1B49 (A)	570	3Q/191E (S)	626	808 (A)
509	6V6G (A)	571	50L6GT (A)	627	810 (A)
510	6V6 (A)	572	6X5G (A)	628	811 (A)
511	6V6GT (A)	573	6X5 (A)	629	814 (A)
512	6W7G (A)	574	6X5GT (A)	630	826 (A)
515	6Y6G (A)	575	5U4G (A)	631	828 (A)
516	3GP1 (A)	578	6A8G (A)	632	829 (A)
517	OZ4A (A)	579	6A8 (A)	634	832 (A)
518	AC/VPI (D)	580	6A8GT (A)	635	833 (A)
519	PEN4DD (M)	581	6C5G (A)	636	836 (A)
520	VP2B (M)	582	6C5 (A)	637	837 (A)
522	7B7 (A)	583	6C5GT (A)	638	838 (A)
523	12Y4 (A)	584	GS46 (R)	639	843 (A)

C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer
640	860 (A)	704	RK20A (A)	770	1F7GV (A)
641	861 (A)	705	1D5GP (A)	771	1G5G (A)
642	872 (A)	706	6U7G (A)	772	1G6G (A)
643	874 (A)	707	HK54 (A)	773	1G6GT (A)
644	875 (A)	708	161 (O)	774	1H4G (A)
645	876 (A)	709	RX235 (A)	775	1LA6 (A)
647	884 (A)	710	368A (A)	776	1LB4 (A)
648	885 (A)	711	32 (A)	777	1LC5 (A)
649	956 (A)	712	38 (A)	778	1LC6 (A)
650	958 (A)	716	8013A (A)	779	1LD5 (A)
651	991 (A)	717	5R4GY (A)	780	1LH4 (A)
652	1603 (A)	718	5FP7 (A)	781	1LN5 (A)
653	1611 (A)	719	2J21A (A)	782	1R5 (A)
654	1612 (A)	723	1619 (A)	783	1S4 (A)
655	1613 (A)	724	816 (A)	784	1S5 (A)
656	1616 (A)	725	1B24 (A)	785	1T4 (A)
657	1620 (A)	726	35Z3 (A)	786	1T5 (A)
658	1622 (A)	727	1N21 (A)	787	2A7 (A)
659	1625 (A)	728	1P5GT (A)	788	832A (A)
660	6AC7 (A)	729	5V4G (A)	789	3C24 (A)
661	6AB7 (A)	730	6A3 (A)	790	2AP1 (A)
662	8012 (A)	731	6F6GT (A)	792	2C22 (A)
663	8025 (A)	732	6W4 (A)	793	2C33 (A)
664	9002 (A)	734	228A (A)	794	2D2 (M)
665	9003 (A)	735	845 (A)	795	2D4A (M)
666	9004 (A)	736	905 (A)	796	2D13C (M)
667	9005 (A)	737	906 (A)	797	2D21 (A)
668	35T (A)	738	953 (A)	798	2E22 (A)
669	279A (A)	739	3AP1/1A (A)	802	2C26 (A)
670	645 (A)	740	5MP1 (A)	803	2V3 (A)
676	7206A (A)	741	5LP1 (A)	804	2V3G (A)
677	701A (A)	742	FG67 (A)	805	50Y6GT (A)
679	703A (A)	745	HK24 (A)	807	3A4 (A)
683	316A (A)	747	6AC7 (A)	808	3A5 (A)
684	274B (A)	750	O1A (A)	809	3A/105B (S)
686	VR105 (A)	751	HY75 (A)	811	1291 (A)
687	GL446B (A)	752	OA4G (A)	812	3B22 (A)
688	2C43 (A)	753	1A3 (A)	814	3BP1 (A)
690	RK48A (A)	754	1A4P (A)	815	1299 (A)
691	357A (A)	755	1A5G (A)	816	3DP1 (A)
692	OZ4 (A)	756	1A5GT (A)	817	3EP1 (A)
693	HF300 (A)	757	1A6 (A)	818	3Q4 (A)
694	12SG7 (A)	758	1B4P (A)	819	3Q5 (A)
695	700B (A)	759	1B5 (A)	820	3S4 (A)
696	700C (A)	760	1B7GT (A)	821	4A1 (A)
697	12SJ7 (A)	761	1B22 (A)	822	EL3C (P)
698	12SJ7GT (A)	764	1D5 (A)	823	4C29 (A)
699	700D (A)	765	1D7G (A)	824	HK257 (A)
700	12SR7 (A)	766	1E5GT (A)	825	4SHA (C)
701	ESA892 (E)	767	1F4 (A)	826	4THA (C)
702	830B (A)	768	1F5G (A)	828	4TPB (C)
703	12K8 (A)	769	1F6 (A)	829	4TPB (C)

C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer
830	4TSP (C)	889	7D8 (A)	948	32L7 (A)
832	5AP1 (A)	890	7E5 (A)	949	33 (A)
833	89 (A)	891	7E6 (A)	977	TwinCV55 (G)
834	5B/300B (S)	892	7E7 (A)	995	6AJ5 (A)
836	5BP4 (A)	893	7F7 (A)	996	1637 (A)
837	12C8SPEC (A)	894	1232 (A)	998	2000T (A)
838	5CP7 (A)	895	7H7 (A)	999	3C22 (A)
839	5GP1 (A)	896	7K7 (A)	1000	VR109A (H)
840	5H4 (A)	897	7J7 (A)	1018	215SG (C)
841	5U4GT (A)	898	7N7 (A)	1019	PM2 (M)
842	5W4G (A)	899	7Q7 (A)	1020	220P (C)
843	6AB5 (A)	900	7R7 (A)	1021	210LF (C)
844	6AC5G (A)	901	7Y4 (A)	1022	220PA (C)
845	6AC5GT (A)	902	7W7 (A)	1023	230XP (C)
846	6AC7 (A)	904	892R (A)	1025	DET25 (O)
847	6AF6G (A)	905	9HP7 (A)	1027	210LF (C)
848	6AG5 (A)	906	1602 (A)	1028	220VSG (C)
849	6AJ7 (A)	908	12A5 (A)	1029	ESU150 (E)
850	6AK5 (A)	909	12A7 (A)	1030	4060A (S)
851	6B4G (A)	910	12A8GT (A)	1032	220B (C)
852	6C4 (A)	911	12B8GT (A)	1034	DET3 (O)
854	6C7 (A)	913	12DP7 (A)	1035	QP21 (O)
855	6C21 (A)	914	12DP7 (A)	1037	MH4 (O)
856	6G8G (A)	915	12FP7 (A)	1038	MHL4 (O)
857	6H7 (J)	916	12H6 (A)	1039	MU14 (O)
858	6J6 (A)	917	12J7 (A)	1040	PX25 (O)
859	6J8G (A)	918	12K7 (A)	1041	PM12M (M)
860	6K5G (A)	919	12SF5 (A)	1042	210LF (C)
861	6K5GT (A)	920	12SF5GT (A)	1043	210PG (C)
862	6L5G (A)	921	12SF7 (A)	1044	210DDT (C)
864	6P7G (A)	922	12SH7 (A)	1045	X56 (O)
865	6SD7GT (A)	924	12SL7 (A)	1046	PT25H (O)
866	6SJ7Y (A)	925	12SN7 (A)	1047	TZ05-20 (M)
867	6SR7 (A)	927	12Z3 (A)	1049	210SPT (C)
870	6V7G (A)	929	13SPA (C)	1050	HL2K (O)
871	6Z5 (A)	930	14F7 (A)	1051	Pen220A (D)
872	6Z7G (A)	931	15 (A)	1052	EL32 (M)
873	6ZY5G (A)	932	2C40 (A)	1053	EF39 (M)
875	2C21 (A)	933	4C30 (A)	1054	EB34 (M)
876	7A6 (A)	934	4B30 (A)	1055	EBC33 (M)
877	7A7 (A)	936	24A (A)	1056	EF36 (M)
878	7A8 (A)	937	25A7 (A)	1057	EK32 (M)
879	7B4 (A)	938	25AC5 (A)	1058	E960 (O)
880	7B5 (A)	939	25B6 (A)	1059	955 (A)
881	7B5LT (A)	940	25B8 (A)	1060	807 (A)
882	7B6LM (A)	941	HK24 (A)	1061	RK34 (A)
883	7B8LM (A)	942	25Y5 (A)	1062	TY1-50 (M)
884	7BP7 (A)	943	26 (A)	1064	U12-14 (O)
885	7C5 (A)	944	27 (A)	1065	SP61 (D)
886	7C5LT (A)	945	28D7 (A)	1066	P61 (D)
887	7C6 (A)	946	28D7GT (A)	1067	6J5 (A)
888	7D7 (A)	947	31 (A)	1068	STV280/40 (O)

C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer
1069	STV280/80 (O)	1136	EF54 (M)	1219	DA100 (O)
1070	7475 (M)	1137	EC52 (M)	1220	4033A (S)
1071	5U4 (A)	1141	DPQ (C)	1221	PZ1-75 (M)
1072	GU5 (O)	1143	GT1A (O)	1222	ACT6 (F)
1073	H63 (O)	1151	PM3 (M)	1223	DET5 (O)
1074	6J7 (A)	1152	PM4DX (M)	1233	DET5 (O)
1075	KT66 (O)	1153	PM254 (M)	1235	DET12 (O)
1076	DA41 (O)	1154	PM4DX (M)	1237	PM24D (M)
1077	EM31 (M)	1155	DEQ (O)	1238	PM24D (M)
1078	D1 (D)	1156	DEQ (O)	1240	PZ1-35 (M)
1079	KT8 (O)	1158	PM14 (M)	1246	PM202 (M)
1080	4307A (S)	1159	PM14 (M)	1250	4279A (S)
1081	4052A (S)	1160	ML4 (O)	1252	4212E (S)
1082	220TH (C)	1161	ML4 (O)	1253	E1161 (O)
1083	210VPT (C)	1163	PD220A (D)	1256	E1232 (O)
1087	14L (C)	1164	AC/SG (D)	1261	RX3-120 (M)
1088	832 (A)	1165	VMS4 (O)	1262	GU1 (C)
1090	E1046 (O)	1166	LP2 (O)	1263	RG1-125 (M)
1091	EF50 (M)	1167	PM24A (M)	1264	U18 (O)
1092	EA50 (M)	1168	ACO44 (M)	1265	U15 (O)
1095	954 (A)	1169	VMP4G (O)	1266	U15 (O)
1096	5B/502A (S)	1170	D41 (O)	1267	U4020 (D)
1097	ECR60 (M)	1171	AT4 (M)	1268	5Y3 (A)
1098	E960T (O)	1174	KT42 (O)	1279	MU2 (O)
1099	X66 (O)	1175	AP4 (M)	1280	X64 (O)
1100	KTW62 (O)	1176	ZA1 (O)	1281	KTW61 (O)
1101	MHLD6 (O)	1178	DO30 (M)	1282	MSP4 (O)
1102	BL63 (O)	1179	ML4 (O)	1283	SP4 (M)
1103	EM35 (M)	1180	244V (M)	1285	ECC31 (M)
1104	PT15 (O)	1181	KT41 (O)	1286	EL35 (M)
1105	ML6 (O)	1182	H42 (O)	1287	KT32 (O)
1106	9D2 (S)	1183	W42 (O)	1288	DET12 (O)
1107	15D2 (S)	1184	A373 (O)	1290	SU2150A (C)
1108	8D2 (S)	1186	6F6 (A)	1291	SU2150A (C)
1109	4D1 (S)	1187	D41 (O)	1296	MU14 (O)
1110	S130 (C)	1188	N43 (O)	1300	10D1 (S)
1113	U17 (O)	1189	AC6/Pen (D)	1301	6H6 (A)
1117	41MTL (C)	1190	2×ACP4 (D)	1302	D42 (O)
1118	KT2 (O)	1191	KTZ41 (O)	1303	HL210 (D)
1119	DDL4 (C)	1192	Z62 (O)	1304	LP2 (O)
1120	SU2150A (C)	1193	X65 (O)	1306	HL23DD (D)
1121	T41 (D)	1194	X41 (O)	1307	L21 (O)
1122	41MXP (C)	1195	KTW63 (O)	1308	TDD2A (M)
1123	EF8 (M)	1196	AC5/PenDD (D)	1309	4019B (S)
1124	HP4101 (T)	1197	RL18 (M)	1310	4020A (S)
1125	MS/PenB (C)	1198	ACP4 (D)	1311	4022AR (S)
1126	4SH (C)	1200	202 (O)	1312	220RC (C)
1127	Pen46 (D)	1201	4317 (S)	1313	220LF (C)
1128	GT1C (O)	1202	304 (O)	1314	DLS10 (E)
1129	MS/Pen (C)	1206	D060 (M)	1316	4012B (S)
1130	HL23 (D)	1207	ES450 (E)	1317	S625 (O)
1134	HVR2 (M)	1208	PM256 (M)	1318	VS24 (O)

C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer
1319	PM12V (M)	1426	EK2 (M)	1574	SP41 (D)
1320	SP2 (M)	1427	EF9 (M)	1575	U52 (O)
1321	9D2 (S)	1428	EBC3 (M)	1576	KT44 (O)
1322	SP210 (D)	1429	EL2 (M)	1577	KT44 (O)
1323	VP2 (M)	1430	ACSP3 (E)	1578	EF50 (M)
1324	SP4 (M)	1431	ACT16 (O)	1579	954 (A)
1325	42MPT (C)	1432	CMG25 (O)	1588	23D (C)
1326	AC4/Pen (D)	1433	EC31 (M)	1600	CAT1 (O)
1327	Pen1340 (D)	1434	EM4 (M)	1601	CAR (O)
1328	7D8 (S)	1435	GU20 (O)	1602	CAR4 (O)
1329	PenA4 (M)	1437	KT44 (O)	1606	CAT2 (O)
1330	TSP4 (M)	1438	KT61 (O)	1610	MT4 (O)
1331	VP23 (D)	1439	MT9F (O)	1611	MR4 (O)
1332	VP21 (O)	1440	MT9L (O)	1614	ES1500 (E)
1333	220PT (C)	1441	MT12A (O)	1618	ES250M (E)
1334	KT24 (O)	1442	MT14 (O)	1619	4212D (S)
1335	SP41 (D)	1443	U10 (O)	1620	DET6 (O)
1336	SP42 (D)	1444	42SPT (C)	1628	GU8 (O)
1337	116/Pen (C)	1445	4012A (S)	1642	DER (O)
1338	220VPT (C)	1446	4017B (S)	1650	LS5A (O)
1340	KT44 (O)	1447	4030C (S)	1656	LS8 (O)
1341	MSP4 (O)	1448	4043C (S)	1658	LS9B (O)
1342	QP25 (D)	1449	4064B (S)	1661	DL (O)
1343	KTZ73 (O)	1450	4228A (S)	1665	DH (O)
1344	TP22 (D)	1451	4274A (S)	1667	LS8A (O)
1345	TP25 (D)	1452	4300A (S)	1669	P625 (O)
1347	ECH35 (M)	1454	225DU (C)	1673	HL2 (O)
1356	U22 (O)	1455	225DU (C)	1677	ACS2 (D)
1359	ME41 (D)	1456	Pen383 (E)	1678	HLA2 (S)
1361	MZ05-20 (M)	1457	VP133 (E)	1683	MKT4 (O)
1363	DET16 (O)	1458	41MP (C)	1684	APP4C (T)
1364	807 (A)	1459	MU2 (O)	1691	DDL4 (C)
1365	4282B (S)	1460	X41 (O)	1695	DH30 (O)
1369	4061A (S)	1461	U22 (D)	1696	B21 (O)
1370	PV1-35 (M)	1462	A915 (O)	1697	X41 (O)
1371	PT6 (O)	1463	CBL31 (M)	1698	A819 (O)
1372	4069A (S)	1464	EF39 (M)	1701	XLO (Q)
1374	807 (A)	1466	P57 (W)	1702	XP (Q)
1400	C1C (P)	1469	Z22 (O)	1715	EBC3 (M)
1401	CL33 (M)	1470	3P/270B (S)	1718	ACTP (D)
1402	CY31 (M)	1471	4049A (S)	1720	XL1.5 (Q)
1403	DD41 (E)	1472	CMG25 (O)	1721	XP1.5 (Q)
1404	EF36 (M)	1473	CMG25 (O)	1722	A901 (O)
1414	VP41 (D)	1474	CE20 (A)	1727	Z22 (O)
1415	4011A (S)	1502	KT32 (O)	1732	ML4 (O)
1418	10D1 (S)	1503	KT33C (O)	1733	4018AG (S)
1419	11D3 (S)	1505	MH41 (O)	1734	3Q/213E (S)
1420	4078A (S)	1567	2C25 (A)	1749	205D (A)
1422	3D/100A (S)	1568	4062A (S)	1750	33A/100A (S)
1423	9D2 (S)	1569	R3 (S)	1751	34 (A)
1424	20A1 (S)	1572	807 (A)	1752	35/51 (A)
1425	7D5 (A)	1573	4074B (S)	1753	35A5 (A)

C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer
1754	35TG (A)	1824	1Q5G (A)	1941	6K7G (A)
1755	1626 (A)	1826	1Q5GT (A)	1942	6K7 (A)
1756	1629 (A)	1829	1T5GT (A)	1943	6K7GT (A)
1757	9001 (A)	1831	2A3 (A)	1944	6K8G (A)
1758	1L4 (A)	1834	2A5 (A)	1945	6K8 (A)
1759	2C26A (A)	1837	2B7 (A)	1946	6K8GT (A)
1761	3FP7 (A)	1843	2Y2 (A)	1947	6L6G (A)
1762	6AK6 (A)	1846	5T4 (A)	1948	6L6 (A)
1763	6J4 (A)	1849	5W4 (A)	1950	6L7G (A)
1764	CE2 (A)	1851	5X4G (A)	1951	6L7 (A)
1769	2A6 (A)	1852	5X4 (A)	1953	6N6G (A)
1770	7A4 (A)	1854	5Y3G (A)	1954	6N6 (A)
1771	39/44 (A)	1856	5Y3GT (A)	1956	6N7G (A)
1772	47 (A)	1857	5Y4G (A)	1957	6N7 (A)
1773	82 (A)	1861	5Z3 (A)	1958	6N7GT (A)
1774	112A (A)	1863	5Z4G (A)	1960	6R6G (A)
1775	36 (A)	1864	5Z4 (A)	1962	6R7G (A)
1776	6D7 (A)	1867	6A6 (A)	1963	6R7 (A)
1777	7C7 (A)	1870	6A7 (A)	1964	6R7GT (A)
1778	101D (A)	1873	6AB7 (A)	1966	6SA7 (A)
1779	102D (A)	1876	1852 (A)	1967	6SA7GT (A)
1780	Twin30 (A)	1878	6AD7G (A)	1969	6SC7 (A)
1781	310B (A)	1882	6AG7 (A)	1970	6SC7GT (A)
1782	340A (A)	1885	6B5 (A)	1972	6SF5 (A)
1783	9JP1 (A)	1887	6B6G (A)	1973	6S5GT (A)
1784	6AK7 (A)	1891	6B7 (A)	1974	6S7G (A)
1789	5FP7 (A)	1893	6B8G (A)	1975	6S7 (A)
1790	7Z4 (A)	1894	6B8 (A)	1978	6SG7 (A)
1791	5JP1 (A)	1896	6C8G (A)	1981	6SK7 (A)
1794	759 (A)	1900	6D6 (A)	1982	6SK7GT (A)
1796	DW4/350 (M)	1902	6D8G (A)	1985	6SL7GT (A)
1797	4081A (S)	1906	6E5 (A)	1988	6SN7GT (A)
1798	2051 (A)	1908	6F5G (A)	1990	6SQ7 (A)
1799	350B (A)	1909	6F5 (A)	1991	6SQ7GT (A)
1800	1A7G (A)	1910	6F5GT (A)	1993	6SS7 (A)
1802	1A7GT (A)	1911	6FG (A)	1995	6ST7G (A)
1803	1C5G (A)	1912	6F6 (A)	1996	6ST7 (A)
1804	CV137	1915	6F7 (A)	1999	1V (A)
1805	1C5GT (A)	1917	6F8G (A)	2106	DL66 (M)
1806	1D5GT (A)	1918	6F8 (A)	2107	DF66 (M)
1811	1D8GT (A)	1926	6G6G (A)	2126	3V/420B (S)
1812	1E7G (A)	1929	6H6G (A)	2129	5763 (A)
1813	2DP1 (A)	1930	6H6 (A)	2130	4D21 (A)
1814	5LP1 (A)	1931	6H6GT (A)	2131	4-250A (A)
1815	6Q5G (A)	1932	6J5G (A)	2132	90AV (M)
1816	6Y3G (A)	1933	6J5 (A)	2133	90CG (M)
1817	1G4 (A)	1934	6J5GT (A)	2134	90CV (M)
1818	1H5G (A)	1935	6J7G (A)	2500	35Z4GT (A)
1819	6P5GT (A)	1936	6J7 (A)	2501	40 (A)
1820	1H5GT (A)	1937	6J7GT (A)	2502	41FP (C)
1821	1N5G (A)	1938	6K6G (A)	2503	41MH (C)
1823	1N5GT (A)	1940	6K6GT (A)	2504	41MHL (C)

C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer
2505	41MPG (C)	2589	250TH (A)	2660	809 (A)
2506	41MPT (C)	2591	100TH (A)	2661	812 (A)
2508	41STH (C)	2592	256B (A)	2663	815 (A)
2511	420T (C)	2593	257A (A)	2664	822 (A)
2512	420TDD (C)	2594	258B (A)	2665	825 (A)
2514	43 (A)	2595	259A (A)	2666	829B (A)
2529	45IU (C)	2597	262B (A)	2668	846 (A)
2530	45Z5 (A)	2598	264A (A)	2669	849 (A)
2531	46 (A)	2599	264C (A)	2670	849H (A)
2532	49 (A)	2600	267B (A)	2671	851 (A)
2533	50 (A)	2601	271A (A)	2672	852 (A)
2534	50L6 (A)	2602	272A (A)	2673	857B (A)
2535	53 (A)	2603	274A (A)	2674	863 (A)
2536	53A (A)	2604	275A (A)	2675	864 (A)
2537	55 (A)	2605	282A (A)	2676	865 (A)
2538	59 (A)	2608	300A (A)	2679	866JR (A)
2539	61P (C)	2609	300B (A)	2680	868 (A)
2541	71A (A)	2610	303 (O)	2683	878 (A)
2543	73 (A)	2611	304TH (A)	2685	880 (A)
2544	78 (A)	2612	307A (A)	2686	889 (A)
2545	79 (A)	2613	310A (A)	2687	889R (A)
2546	81 (A)	2614	311A (A)	2688	891R (A)
2547	83V (A)	2615	313C (A)	2689	893R (A)
2548	84 (A)	2616	314A (A)	2690	904V (M)
2549	85 (A)	2617	323A (A)	2691	913 (A)
2552	100TH (A)	2618	327A (A)	2692	918 (A)
2553	101F (A)	2619	328A (A)	2693	929 (A)
2554	111A (A)	2620	329A (A)	2694	930 (A)
2556	117L7 (A)	2621	330B (A)	2695	931 (A)
2557	117N7 (A)	2622	331A (A)	2696	931A (A)
2558	117Z6 (A)	2623	332A (A)	2697	935 (A)
2560	121A (A)	2624	337A (A)	2700	957 (A)
2561	122A (A)	2625	338A (A)	2701	958A (A)
2562	164V (M)	2626	346A (A)	2704	7E5/1201 (A)
2563	204A (A)	2627	349A (A)	2705	1203 (A)
2565	2050 (A)	2628	349B (A)	2706	7C4/1203A (A)
2566	205E (A)	2629	350A (A)	2707	1231 (A)
2567	205F (A)	2630	351A (A)	2709	1294 (A)
2569	210DET (C)	2631	352A (A)	2710	3D6/1299 (A)
2570	210HF (C)	2632	354A (A)	2711	1500T (A)
2571	210HL (C)	2633	362A (A)	2712	1609 (A)
2574	210VPA (C)	2634	367 (A)	2713	1610 (A)
2576	4C21 (A)	2636	375A (A)	2714	1614 (A)
2577	212E (A)	2637	388A (A)	2715	1630 (A)
2579	218 (A)	2640	405BU (C)	2716	6SC7(SEL) (A)
2580	220C (C)	2643	2C40 (A)	2717	1729 (M)
2581	220/0T (C)	2644	460BU (C)	2718	1876 (P)
2582	220VS (C)	2645	506BU (C)	2719	1924 (P)
2584	231D (A)	2654	715A (A)	2721	2050 (A)
2586	240B (C)	2655	715B (A)	2722	3025 (A)
2587	242C (A)	2657	800 (A)	2723	869B (A)
2588	244A (A)	2658	806 (A)	2725	09 (C)

C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer
2733	3951 (A)	2887	DAC1 (M)	3500	HL210 (O)
2734	4003A (S)	2889	DD620 (C)	3501	HL610 (O)
2735	4015A (S)	2890	DDT (T)	3502	HL1320 (D)
2743	4033AF (S)	2891	DE5 (O)	3503	HLDD1320 (D)
2745	4050AG (S)	2892	DE5B (O)	3505	HY114B (A)
2746	4064A (S)	2895	DET1SW (O)	3506	HY615 (A)
2751	4096AB (S)	2899	DET9 (O)	3515	KB2 (M)
2755	4251AX (S)	2900	DET10 (O)	3516	KK2 (M)
2756	4260A (S)	2907	DF1 (M)	3519	KT30 (O)
2759	4304 (S)	2909	DH73M (O)	3520	KT31 (O)
2760	430B (S)	2910	DK1 (M)	3527	KTW73M (O)
2761	4304BB (S)	2911	DL2 (M)	3529	KTZ41 (O)
2765	4673 (P)	2912	DL63 (O)	3530	KTZ73 (O)
2767	4960 (P)	2925	EBF2 (M)	3531	L2 (D)
2768	8003 (A)	2926	EBL31 (M)	3532	L21 (O)
2769	9006 (A)	2927	EC50 (M)	3533	L22DD (D)
2800	A40 (C)	2929	ECH3 (M)	3534	L30 (O)
2801	A40/N3 (M)	2930	ECH33 (M)	3537	L600 (A)
2803	A915 (O)	2936	4B22 (A)	3538	L610 (O)
2804	A915A (O)	2938	EL33 (M)	3541	LS6A (O)
2805	A924 (C)	2940	EL36 (M)	3546	MHD4 (O)
2806	AC/2HL (D)	2941	EL50 (M)	3552	MPT4K (O)
2807	AC/2HL (D)	2944	ESU1500 (E)	3553	MS4B (O)
2808	AC/Pen (D)	2945	ESU75 (E)	3554	MPT42 (O)
2809	AC/5Pen (D)	2946	ESU150 (E)	3561	MS/Pen (C)
2811	AC/HL (D)	2947	ESU300 (E)	3562	MSP41 (O)
2812	AC/HL (D)	2948	ESU450 (E)	3563	MT11SW (O)
2813	AC/HLDD (D)	2949	F123A (A)	3564	MT12 (O)
2815	AC/P (D)	2950	129B (A)	3565	ME41 (D)
2819	AC/S (D)	2954	FC2A (M)	3567	MUI (D)
2820	AC/SP1 (D)	2955	FC4 (M)	3571	MVSPen (C)
2822	AC/SG (D)	2956	FC13C (M)	3572	MVSPenB (C)
2823	AC/SP3 (D)	2959	3B21 (A)	3573	MZ05/20 (M)
2824	AC/SPen (D)	2960	FP54 (A)	3574	MZ1/76 (M)
2825	ACT6 (O)	2967	8020 (A)	3576	MX40 (O)
2827	ACT10 (O)	2973	GU7 (O)	3578	PM22D (M)
2830	AC/TH1 (D)	2977	H2 (O)	3579	PT5E (O)
2832	AC/VP2 (D)	2978	H12 (O)	3581	V1501 (D)
2833	AF3 (P)	2979	H30 (O)	3582	VP4B (M)
2836	APP4G (T)	2981	H410 (O)	3583	5HP1 (A)
2837	APP4G (T)	2982	H610 (O)	3587	705A (A)
2839	AR300 (A)	2985	HD24 (O)	3590	708A (A)
2860	AZ1 (P)	2986	HD203A (A)	3593	713 (A)
2861	AZ2 (P)	2987	HF100 (A)	3594	717A (A)
2862	AZ31 (P)	2988	HF200 (A)	3596	CE302 (A)
2864	B21 (O)	2989	HK354E (A)	3599	829A (A)
2865	B30 (O)	2991	HL2 (O)	3600	902 (A)
2869	3JP7 (A)	2994	HL23 (D)	3601	7193 (A)
2871	CAT6 (O)	2995	HL23DD (D)	3620	P220 (D)
2872	CAT9 (O)	2996	HL41DD (D)	3621	P410 (O)
2874	CK1005 (A)	2998	HL133 (D)	3622	P610 (O)
2875	CL4 (P)	2999	HL133DD (D)	3623	PA40 (D)

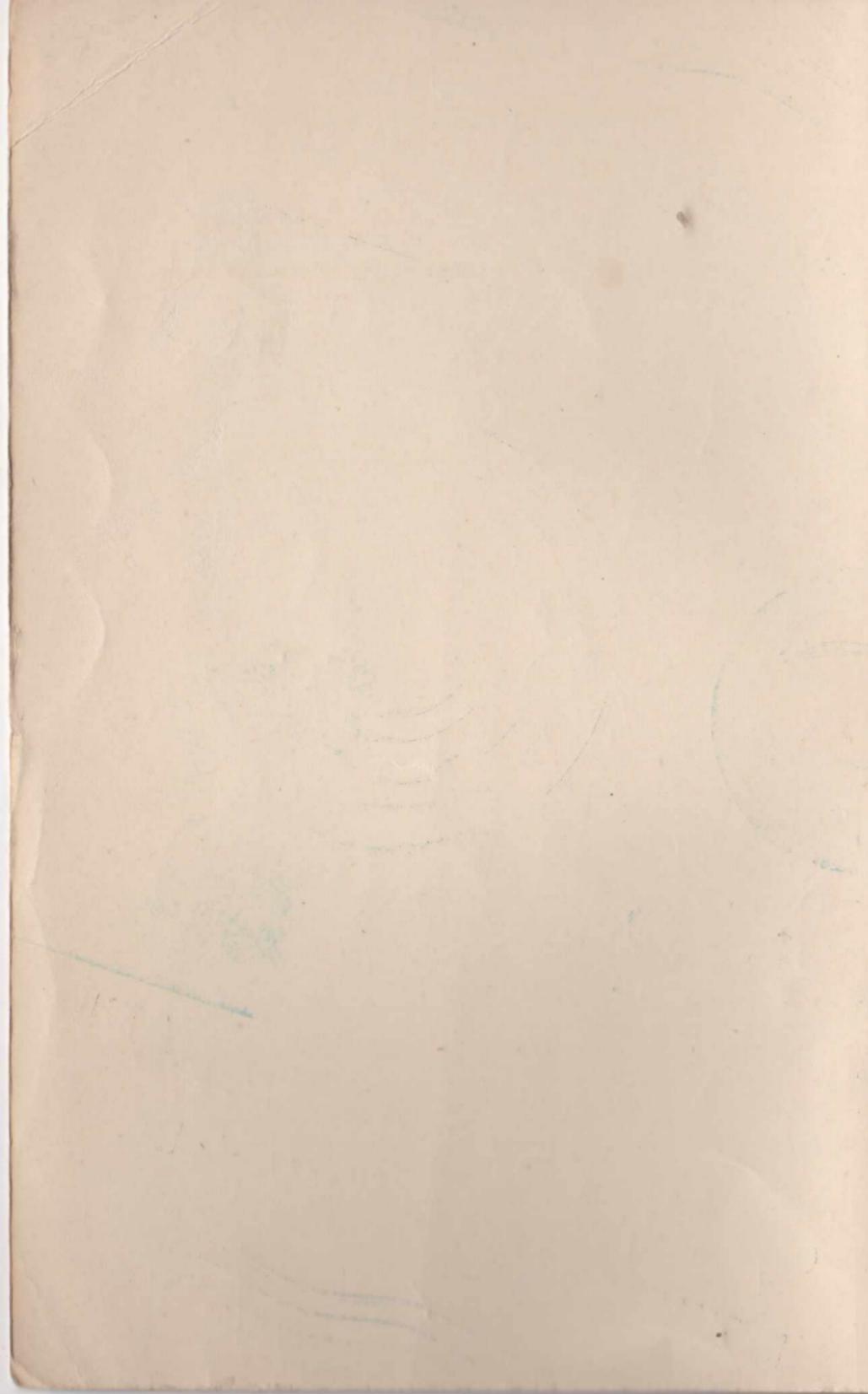
C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer	C.V. No.	Commercial Equivalent and Manufacturer
3624	PE7B (B)	3739	TX3-200 (M)	3847	RS250 (V)
3625	PE8 (B)	3740	TX5-400 (M)	3848	RS260 (V)
3626	Pen4B (M)	3741	TZ2-300 (M)	3849	RS217 (V)
3630	Pen44 (D)	3742	TZ20 (A)	3850	RS207 (V)
3631	Pen45DD (D)	3743	U5 (O)	3851	RS253 (V)
3633	Pen231 (D)	3744	U6 (O)	3852	RS285 (V)
3634	Pen428 (M)	3747	U15 (O)	3853	RS15 (V)
3635	Pen1340 (D)	3750	U22 (D)	3854	RS47 (V)
3636	Pen1346 (D)	3751	U21 (O)	3855	RS329 (V)
3638	PenA4 (M)	3752	U30 (O)	3857	RS283A (V)
3641	PM1HL (M)	3753	U31 (O)	3858	RS18 (V)
3642	PM1LF (M)	3756	U600 (D)	3859	RV271A (V)
3643	PM2A (M)	3758	UR3C (M)	3860	RS282 (V)
3645	PM2DX (M)	3759	UU4 (D)	3862	RS55 (V)
3647	PM22A (M)	3761	UU7 (D)	3868	RSQ15/40 (V)
3648	PM24E (M)	3787	VP2 (M)	3869	RSQ15/5 (V)
3649	PM22 (M)	3788	VP4 (M)	3871	RS254 (V)
3652	PT5 (O)	3790	VP13C (M)	3872	RS255 (V)
3653	PT6 (O)	3792	VP23 (D)		
3654	PT11 (O)	3793	VP24 (D)		
3655	PT425 (O)	3794	VP210 (D)		
3656	PT425 (O)	3795	VP215 (D)		
3657	PV05-15 (M)	3796	VP1322 (D)		
3658	PV1-35 (M)	3798	VR75 (A)		
3667	RG1-250 (M)	3799	VR90 (A)		
3670	RG4-100 (M)	3800	VS2 (O)		
3672	RK28 (A)	3802	VS24 (O)		
3673	RK28A (A)	3803	VS24K (O)		
3674	RK31 (A)	3804	W21 (O)		
3677	RK47 (A)	3805	W30K (O)		
3679	RK49 (A)	3806	W31 (O)		
3680	RK60 (A)	3810	WD30 (O)		
3681	RK62 (A)	3816	X21 (O)		
3683	RKR47 (A)	3817	X21 (O)		
3688	2C33 (A)	3818	X22 (O)		
3690	RZ1-150 (M)	3819	X24 (O)		
3691	S23 (O)	3820	X24 (O)		
3692	S23 (O)	3821	X31 (O)		
3695	S215 (C)	3822	X31 (O)		
3696	S215A (C)	3823	X41 (O)		
3698	S610 (O)	3825	X63 (O)		
3702	SG215 (C)	3826	X65 (O)		
3703	SP4B (M)	3830	XH1.5 (Q)		
3704	SP13C (M)	3831	XL2 (Q)		
3715	SW5 (C)	3832	XP2 (Q)		
3721	T4D (M)	3833	XSG2.0 (Q)		
3722	T20 (A)	3834	XW2 (Q)		
3723	T41 (E)	3836	Z21 (O)		
3724	T200 (A)	3837	Z21 (O)		
3726	TDD2A (M)	3838	Z62 (O)		
3727	TDD4 (M)	3845	RS366 (V)		
3735	TP26 (D)	3846	RS261 (V)		

British Navy No.	Commercial Equivalent	British Navy No.	Commercial Equivalent	British Navy No.	Commercial Equivalent
NGT1	DPQ (C)	NR54	AP4 (M)	NR94	ACP4 (D)
NGT2	GT1C (O)	NR55	4D1 (S)	NR95	KT32 (O)
NGT4	GT1A (O)	NR56	D030 (M)	NS1	STV280/80 (O)
NR15	PM3 (M)	NR57	ML4 (O)	NS3	202 (O)
NR15A	PM4DX (M)	NR58	244V (M)	NS4	4713 (S)
NR16	PM254 (M)	NR59	KT41 (O)	NS5	304 (O)
NR16A	PM4DX (M)	NR60	H42 (O)	NT18	D060 (M)
NR18	DEQ (C)	NR61	W42 (O)	NT20	PM256 (M)
NR22	PM14 (M)	NR66	D41 (O)	NT36	DA100 (O)
NR23	PM14 (M)	NR67	X64 (O)	NT37	4033A (S)
NR26	MHL4 (O)	NR68	6Q7 (A)	NT38A	PZ1-75 (M)
NR27	ML4 (O)	NR69	EM35 (M)	NT39	ACT6 (F)
NR27A	ML4 (O)	NR70	HP4101 (T)	NT40	DET5 (O)
NR28	PM2 (M)	NR71	MS/Pen (C)	NT58	DET12 (O)
NR31	MH4 (O)	NR72	N43 (O)	NT62	PM24D (M)
NR35	PD220A (D)	NR73	ECC31 (M)	NT65A	PZ1-35 (M)
NR37	AC/SG (D)	NR74	AC6/Pen (D)	NT82	PM202 (M)
NR38	VMS4 (O)	NR75	2 x ACP4 (D)	NU3	U12-14 (O)
NR39	KT2 (O)	NR76	KTZ41 (O)	NU5	RX3-120 (M)
NR41	21OVPT (C)	NR77	EL35 (M)	NU12	U18 (O)
NR42	LP2 (O)	NR78	6C5 (A)	NU13	U15 (O)
NR43	PM24A (M)	NR79	Z62 (O)	NU16	GU5 (O)
NR44	AC044 (M)	NR81	6K7 (A)	NU17	MU14 (O)
NR45	VMP4G (O)	NR82	X65 (O)	NU18	U17 (O)
NR46	D41 (O)	NR83	6J7 (A)	NU20	5Y3 (A)
NR47	PX25 (O)	NR84	X41 (O)	NU31	MU2 (O)
NR48	EBC33 (M)	NR85	6F6 (A)	NU33	SU2150A (C)
NR49	EF36 (M)	NR86	KTW63 (O)	NU34	HVR2 (M)
NR50	AT4 (M)	NR87	AC5/PenDD (D)		
NR53	KT42 (O)	NR88	RL18 (M)		

R.A.F. No.	Commercial Equivalent	R.A.F. No.	Commercial Equivalent	R.A.F. No.	Commercial Equivalent
VGT121	T41 (D)	VR82	220TH (C)	VS70	7475 (M)
VGT128	GT1C (O)	VR83	210VPT (C)	VT20	220P (C)
VR77	EM31 (M)	VR91	EF50 (M)	VT23	230XP (C)
VR103	EM35 (M)	VR91A	EF50 (M)	VT25	DET25 (O)
VR18	215SG (C)	VR92	EA50 (M)	VT45	X56 (O)
VR19	PM2 (M)	VR95	954 (A)	VT50	HL2K (O)
VR21	210LF (C)	VR95A	954 (A)	VT51	Pen220A (D)
VR22	220PA (C)	VR99	X66 (O)	VT52	EL32 (M)
VR27	210LF (C)	VR100	KTW62 (O)	VT60	807 (A)
VR28	220VSG (C)	VR101	MHLD6 (O)	VT60A	807 (A)
VR32	220B (C)	VR102	BL63 (O)	VT61	RK34 (A)
VR35	QP21 (O)	VR105	ML6 (O)	VT61A	4074B (S)
VR37	MH4 (O)	VR106	9D2 (S)	VT62	TY1-50 (M)
VR38	MHL4 (O)	VR107	15D2 (S)	VT73	H63 (O)
VR40	PX25 (O)	VR108	8D2 (S)	VT74	6J7 (A)
VR41	PM12M (M)	VR109	4D1 (S)	VT75	KT66 (A)
VR43	210PG (C)	VR117	41MTL (C)	VT76	DA41 (O)
VR44	210DDT (C)	VR118	KT2 (O)	VT79	KT8 (O)
VR45	X56 (O)	VR119	DDL4 (C)	VT80	4307A (S)
VR46	PT25H (O)	VR122	41MXP (C)	VT81	4052A (S)
VR47	TZ05-20 (M)	VR123	EF8 (M)	VT88	832 (A)
VR49	210SPT (C)	VR124	HP4101 (T)	VT96	5B/502A (S)
VR53	EF39 (M)	VR125	MS/PenB (C)	VT104	PT15 (O)
VR54	EB34 (M)	VR126	4SH (C)	VT127	Pen46 (D)
VR55	EBC33 (M)	VR129	MS/Pen (C)	VU29	ESU150 (E)
VR56	EF36 (M)	VR130	HL23 (D)	VU39	MU14 (O)
VR57	EK32 (M)	VR136	EF54 (M)	VU39A	R3 (S)
VR59	955 (A)	VR137	EC52 (M)	VU64	U12-14 (O)
VR65	SP61 (D)	VR502	KT32 (O)	VU71	5U4 (A)
VR65A	SP41 (D)	VR503	KT33C (O)	VU72	GU5 (D)
VR66	P61 (D)	VR505	MH41 (O)	VU113	U17 (O)
VR67	6J5 (A)	VS68	STV280/40(O)	VU120	SU2150A (C)
VR78	D1 (D)	VS69	STV280/80(O)	VU134	HVR2 (M)

V.T. No.	Commercial Equivalent	V.T. No.	Commercial Equivalent	V.T. No.	Commercial Equivalent
1	WE203A	57	57	97	5W4
2	WE205B	58	58	98	6U5/6Q5
4B	211	60	850	99	6F8G
4C	211SPEC	62	801/801A	100	807
5	WE215A	63	46	100A	807SPEC
6	212A	64	890	101	837
7	WX12	65	6C5	103	6SQ7
8	UV204	65A	6C5G	104	12SQ7
17	860	66	6F6	105	6SC7
19	861	66A	6F6G	106	803
22	204A	67	30SPEC	107	6V6
24	864	68	6B7	107A	6V6GT/G
25	10	69	6D6	107B	6V6G
25A	10Y-10SPEC	70	6F7	108	450TH
26	22	72	842	109	2051
27	30	73	843	111	5BP4/1802P4
28	24A	74	5Z4	112	6AC7/1852
29	27	75	75	114	5T4
30	01A	76	76	115	6L6
31	31	77	77	115A	6L6G
33	33	78	78	116	6SJ7
34	207	80	80	116A	6SJ7GT
35	35/51	83	83	116B	6SJ7Y (SPEC)
36	36	84	84/6Z4	117	6SK7
37	37	86	6K7	117A	6SK7GT/G
38	38	86A	6K7G	118	832
39	869	86B	6K7GT	119	2X2/879
39A	869A	87	6L7	120	954
40	40	87A	6L7G	121	955
41	851	88	6R7	124	1A5GT
42	872	88A	6R7G	125	1C5GT
42A	872A	88B	6R7GT	126	6X5
43	845	89	89	126A	6X5G
44	32	90	6H6	126B	6X5GT/G
45	45	90A	6H6GT/G	128	1630
46	866	91	6J7	129	304TL
46A	866A	91A	6J7GT	130	250TL
47	47	92	6Q7	131	12SK7
48	41	92A	6Q7G	132	12K8
49	39/44	93	6B8	133	12SR7
50	50	93A	6B8G	134	12A6
51	841	94	6J5	135	12J5GT
52	45SPEC	94A	6J5G	135A	12J5
54	34	94D	6J5GT/G	136	1625
55	865	95	2A3	137	1626
56	56	96	6N7	138	1629

V.T. No.	Commercial Equivalent	V.T. No.	Commercial Equivalent	V.T. No.	Commercial Equivalent
139	OD3/VR150	185	3D6/1299	228	8012
141	WL531	187	575A	229	6SL7GT
143	805	188	7E6	230	350A
144	813	189	7F7	231	6SN7GT
145	5Z3	190	7H7	232	E1148
146	1N5GT	191	316A	233	6SR7
147	1A7GT	192	7A4	234	114B
148	1D8GT	193	7C7	235	615
149	3A8GT	194	7J7	236	836
150	6SA7	195	1005	237	957
150A	6SA7GT/G	196	6W5G	238	956
151	6A8G	197A	5Y3GT/G	239	1LE3
151B	6A8GT	198A	6G6G	240	710A
152	6K6GT/G	199	6SS7	241	7E5/1201
152A	6K6G	200	OC3/VR105	243	7C4/1203A
153	12C8Y (SPEC)	201	25L6	244	5U4G
154	814	201C	25L6GT/G	245	2050
161	12SA7	202	9002	246	918
162	12SJ7	203	9003	247	6AG7
163	6C8G	204	3C24	248	3CP1/1808P1
164	1619	205	6ST7	249	1006
165	1624	206A	5V4G	250	EF50
166	371A	207	12AH7GT	251	WL441 Series
167	6K8	208	7B8	252	923
167A	6K8G	209	12SG7	254	304TH
168A	6Y6G	210	1S4	255	705A
169	12C8	211	6SG7	256	GL486
170	1E5GP	212	958	257	K-7
171	1R5	213A	6L5G	259	829
172	1S5	214	12H6	260	OA3/VR-75
173	1T4	215	6E5	264	3Q4
174	3S4	216	816	266	1616
175	1613	217	811	267	WL578
176	6AB7/1853	218	100TH	268	12SC7
177	1LH4	220	250TH	269	717A
178	1LC6	221	3Q5GT	277	417
179	1LN5	222	884	279	GY2
180	3LF4	223	1H5GT	282	ZG489
181	7Z4	224	2C34-RK34	286	832A
182	3B7/1291	225	307A	287	815
183	1R4/1294	226	3EP1/1806P1	288	12SH7
184	OB3/VR90	227	7184	289	12SL7GT



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SUPERHETERODYNE RECEIVER	RADIO-GRAM MANUAL
	RADIO CONSTRUCTORS' MANUAL NO. 2