



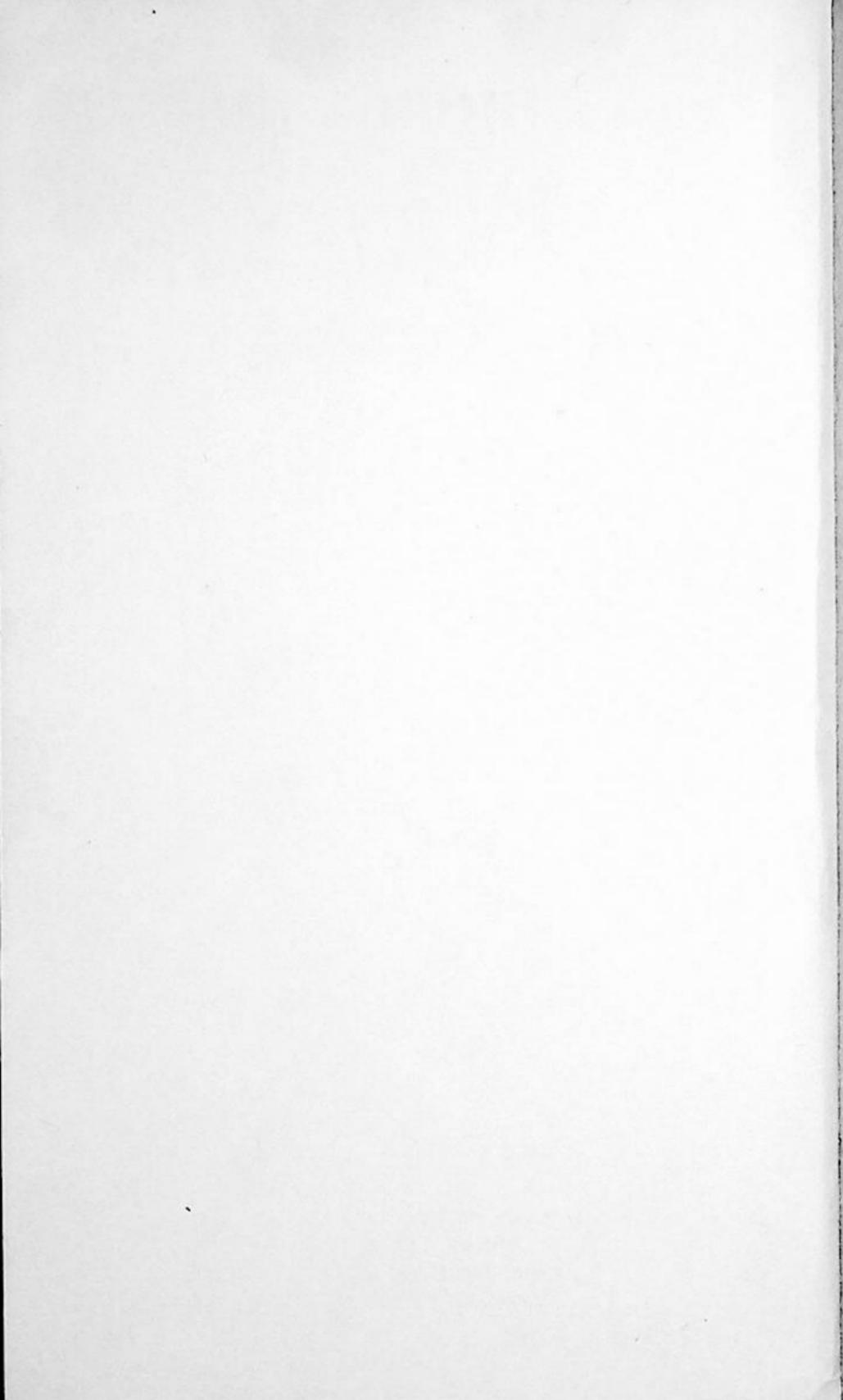
BABANI PRESS No.2

HANDBOOK OF  
RADIO, TV,  
INDUSTRIAL &  
TRANSMITTING  
TUBE & VALVE  
EQUIVALENTS

R BY  
B. B. BABANI

de Historie v/d Radio

60p



**HANDBOOK OF**  
**RADIO, TV,**  
**INDUSTRIAL &**  
**TRANSMITTING**  
**TUBE & VALVE**  
**EQUIVALENTS**

**BY**

**B. B. BABANI**

**BABANI PRESS**

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Although every care is taken with the preparation of this book the publishers will not be responsible for any errors that might occur.

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In order that USA readers can make fullest use of this book, it should be noted that the British word 'valve' is identical to the word 'tube' as used in the USA when applied to electronics. The British word 'tube' means cathode ray tubes of all types whether used for TV, measurement or display purposes.

During the last few years many hundreds of new valves and tubes particularly for TV have been introduced and are included in this book.

To use the table of commercial equivalents, find the type to be replaced in the index. Against the type shown there is a number denoting the Block Number in the equivalents portion of the book in which this type appears; every other type in this Block is an interchangeable equivalent or near substitute.

Included in this edition for the first time is an extensive range of transmitting tubes with their alternatives and equivalents. This material has been added to this book at the request of many of the readers of previous editions.

When replacing a valve in the H.F. or I.F. stages of a receiver re-alignment is desirable to ensure peak performance.

Attention is drawn to industrial types quoted in the Equivalent Table. These were developed to meet stringent demands where reliability is of the utmost importance. 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.

Many of the early types 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 characteristic manuals so that a check can be effected on the actual operating data and this will enable any minor changing of biasing, etc. to be corrected.

The CV and Armed Forces sections will be found particularly useful when attempting to identify types obtained from ex-Government sources and Surplus Suppliers.

Australian and Japanese markets mainly utilise USA designations for their valve types.

The author has taken every care possible in the compilation of the data in this book but neither the author nor the publishers can accept any responsibility for any errors that may be present.

We wish to thank the following companies for their kindness in making available much of the material used in this book:- R.C.A., Siemens, Philips, M.B.L.E., Mullard, Osram, Telefunken, G.E., and many others.

BERNARD B. BABANI  
LONDON, SEPT 1974

## INDEX

Type	Block No.	Type	Block No.	Type	Block No.
I	841	1D13	39	IR5	49
1A3	39	1DN5	41	1R5SF	590
1A4	656	1E3	63	1R6	65
1A5	78	1E4	678	1R9	65
1A6	801	1E5	280	1R10	62
1A7	77	1E8	837	1RK23	61
1AB6	51	1F1	46	1S2A	62
1AC5	800	1F2	45	1S4	64
1AC6	50	1F3	44	1S5	40
1AD4	68	1F4	838	1S5SF	591
1AD5	883	1F5	308	1S6	803
1AE4	45	1FD1	42	1T2	317
1AF4	46	1FD9	40	1T4	44
1AF5	42	1G3	84	1T4SF	592
1AG5	42	1G4	678	1T5	78
1AH4	836	1G5	679	1T6	803
1AH5	42	1H2	61	1U4	48
1AJ4	46	1H4	678	1U5	41
1AJ5	42	1H5	85	1U5SF	593
1AK4	836	1H33	590	1U6	749
1AK5	42	1H35	51	1V	841
1AM4	592	1J3	84	1V5	800
1AN5	47	1J5	679	1V6	73
1AQ5	590	1K3	84	1W4	973
1AR5	42	1K4	671	1W5	883
1AS5	593	1K5	280	1X2	65
1AU3	84	1L4	45	2-100A	1351
1AX2	61	1L5	308	2A3	643
1B3	84	1L6	749	2A5	1042
1B4	656	1LA4	799	2A6	880
1B5	609	1LA6	796	2AF4	804
1B7	77	1LB4	799	2AH2	993
1B8	839	1LC5	797	2AV2	998
1B35A	1300	1LC6	796	2AZ2	999
1B59	1404	1LE3	798	2B4	1103
1BC2	953	1LF3	798	2B21	747
1BG2	985	1LG5	797	2B22	1080
1BH2	953	1LH4	609	2B26	669
1BQ2	902	1LN5	797	2B29	1077
1BX2	65	1M1	58	2B32	1078
1C1	49	1M3	58	2B35	269
1C2	50	1M5	280	2B46	588
1C3	51	1N2	84	2B46	1079
1C4	671	1N3	59	2B52	1257
1C5	80	1N5	74	2B94	1077
1C6	801	1P1	56	2B94	1119
1C7	802	1P5	74	2BA2	998
1C8	837	1P10	52	2BJ2	999
1D5	280	1P11	54	2BU2	993
1D7	802	1Q5	81	2C21	842
1D8	799	1Q6	803	2C22	1076
1D8 (USA)	839	1R4	840	2C39	508

Type	Block No.	Type	Block No.	Type	Block No.
2C39C	1405	3A3	755	3CY3	995
2C40	507	3A3	995	3CY5	737
2C51	608	3A4	53	3CZ3	995
2C52	875	3A5	43	3D6	537
2CW4	672	3A/167M	597	3DB3	995
2CY5	674	3AB4	350	3DC3	955
2D21	258	3AF4	805	3DF3	1001
2DL4	440	3AJ8	443	3D-HH13	572
2DS4	672	3AL5	431	3DJ3	995
2DZ4	804	3AMP1A	1383	3DK6	764
2E5	843	3AT2	954	3DL4	462
2E24	1081	3AU6	436	3DR3	1002
2E24	1247	3AV6	846	3DS3	1002
2E26	1081	3AW3	755	3DZ4	805
2E26	1247	3B2	755	3E5	56
2E30	844	3B4	57	3E29	1224
2E31	870	3B5	79	3EA5	737
2E32	870	3B/850A	1451	3EH7	448
2E35	478	3BA6	436	3EJ7	449
2E36	478	3B7	856	3ER5	305
2E41	42	3BC5	748	3ES5	305
2E42	42	3BE6	736	3EV5	737
2EA5	674	3BF6	736	3F65	1242
2ER5	432	3BH2	898	3FH5	305
2ES5	432	3BL2	954	3FQ5	305
2EV5	674	3BM2	954	3FS5	762
2FH5	432	3BN2	954	3FX7	572
2FQ5	432	3BS2	994	3FY5	500
2FS5	1000	3BT2	994	3GK5	305
2FY5	499	3BT6	846	3GS8	766
2G5	843	3BU8	766	3GU5	762
2G21	1044	3BW2	994	3HA5	770
2G22	1044	3BX6	445	3HK5	770
2GK5	432	3BY6	736	3HM5	770
2GU5	1000	3BY7	446	3HM6	768
2HA5	745	3BZ6	764	3HQ5	770
2HK5	745	3C2	746	3HS8	766
2HM5	745	3C4	56	3HT6	768
2HQ5	745	3C5	79	3J/160E	1452
2HR8	447	3C6	487	3J/221E	1196
2J2	340	3C21	1450	3J/222E	1196
2J51A	1465	3C30	1457	3J/232E	1196
2L2	339	3C800C	1213	3JC6	768
2T4	804	3CA3	755	3JD6	768
2T/270K	479	3CB6	764	3KF8	766
2T/450E	1449	3CE5	748	3LE4	537
2V2	746	3CF6	764	3LF4	537
2X2	747	3CS6	736	3MR24	764
2Y2	747	3CU3	995	3MV7	764
2Z2	845	3CU3A	955	3NP4	1328
3-100A2	1459	3CV3	995	3Q4	55
3-400Z	1082	3CX3	1001	3Q5	79

Type	Block No.	Type	Block No.	Type	Block No.
3Q/222E	1197	4D32	1490	5A/160H	198
3Q/232E	1197	4DE6	715	5A/160K	198
3S2	554	4DK6	715	5A/170K	212
3S4	52	4DL4	349	5A/185K	66
3S4SF	67	4EH7	470	5AP1	1321
3V4	54	4EJ7	471	5AQ4	285
3V/340B	1199	4ER5	388	5AR4	286
3V/490A	1200	4ES8	434	5AS4	301
3W4	67	4EW6	675	5AT8	685
3Z4	67	4F15R	1085	5AU4	301
4-65A	1242	4F15R	1248	5AV8	806
4-125A	1083	4FC7	441	5AW4	286
4-250A	1084	4FQ5	388	5AX4	286
4-400A	1226	4FS7	739	5AZ4	321
4AU6	750	4FY5	352	5B8	806
4B13	1091	4GJ7	909	5B/250A	144
4B30	1456	4GK5	388	5B/700A	1455
4BA6	750	4GM6	675	5BE8	683
4BC5	716	4GS8	610	5BK7A	594
4BC8	594	4GX7	909	5BQ7A	682
4BE6	738	4H	1085	5BR8	683
4BL8	442	4H/136M	1248	5BS8	682
4BQ7A	594	4H/160M	1092	5BZ7	682
4BS4	351	4HA5	488	5C/100A	1091
4BS8	594	4HG8	739	5CG4	286
4BU8	610	4HK5	488	5CG8	685
4BX8	594	4HM5	488	5CL8	683
4BZ6	715	4HM6	757	5CM6	848
4BZ7	594	4HS8	610	5CM8	452
4BZ8	594	4HT6	757	5CQ8	452
4C22	1454	4J	1119	5CR8	452
4C30	1456	4J50	1361	5CZ5	848
4C34	1453	4JC6	757	5D22	1084
4CB6	715	4JD6	757	5DB4	301
4CE5	716	4JH6	715	5DH8	685
4CF6	715	4JK6	675	5DJ4	684
4CF8	346	4JL6	675	5DN4	684
4CM4	348	4JW8	1003	5EA8	452
4CS6	738	4KC160M	1154	5EH8	817
4CX250B	1231	4KF8	610	5ES8	464
4CX250F	1087	4KN8	434	5EW6	676
4CX250FG	1099	4MK8	610	5F20RA	1231
4CX250FG	1162	4R-HH2	594	5F22	1084
4CX250R	1100	4R-HH8	434	5F23	1226
4CX350A	1117	4T2	348	5FC7	463
4CX350F	1232	4T16	1459	5FG7	685
4CX1000A	1415	4X150A	1085	5FV8	683
4CX1000K	1419	4X150D	1248	5GH8	452
4CX5000A	1416	4X250B	1092	5GJ7	906
4CX10000D	1417	4X500A	1098	5GM6	676
4CX35000C	1418	4Y35	1330	5GS7	1004
4D21/A	1083	5A/157D	472	5GX6	1005

Type	Block No	Type	Block No.	Type	Block No.
5GX7	906	6AE6	1385	6AV4	262
5HG8	524	6AE8	320	6AV5	612
5HZ6	1005	6AF3	573	6AV6	120
5J6	595	6AF4	141	6AV11	713
5JK6	676	6AF5	689	6AW4	511
5JL6	676	6AF6	688	6AW6	148
5JW8	1003	6AF7	264	6AW8	728
5KZ8	452	6AF11	691	6AX2N	236
5LJ8	1004	6AG5	203	6AX3	729
5M-HH3	595	6AG6	248	6AX3	923
5MQ8	452	6AG7	568	6AX4	615
5P29	251	6AG9	1008	6AX5	862
5R4	301	6AH6	514	6AX7	821
5RHP1	442	6AJ4	137	6AX8	183
5T4	286	6AJ5	513	6AY3	751
5T33	1180	6AJ7	335	6AZ6	1104
5U4	301	6AJ8	186	6B3	154
5U8	452	6AJ9	983	6B4	1384
5U9	899	6AK5	213	6B6	309
5V3	301	6AK6	972	6B8	282
5V4	285	6AK7	568	6B32	115
5V9	975	6AK8	116	6BA3	751
5W4	286	6AL3	238	6BA5	663
5X3	686	6AL5	115	6BA5	1386
5X4	868	6AL6	250	6BA6	200
5X8	817	6AL9	1008	6BA8	203
5X9	908	6AM4	137	6BC5	203
5X75	1331	6AM5	222	6BC7	871
5Y3	321	6AM6	198	6BC8	142
5Y4	868	6AM8	692	6BC32	120
5Z3	686	6AN4	141	6BD4A	637
5Z4	284	6AN7	143	6BD5	612
5Z4	285	6AQ4	138	6BD6	200
5Z10	301	6AQ5	221	6BD7	209
6/30L2	244	6AQ6	120	6BD7A	118
6A4	869	6AQ8	175	6BD11	691
6A5	1384	6AR6	670	6BE3	923
6A6	526	6AR8	877	6BE6	215
6A8	92	6AS4	693	6BE7	230
6AB4	139	6AS5	714	6BE8	732
6AB5	687	6AS6	512	6BF6	613
6AB6	810	6AS7	158	6BF7	268
6AB7	611	6AS11	691	6BG6	744
6AB8	188	6AT6	119	6BG7	268
6AC7	335	6AT7N	596	6BH3	751
6AC10	1006	6AT8	742	6BH5	145
6AD4	662	6AU4	650	6BH6	104
6AD5	689	6AU5	612	6BH8	728
6AD6	688	6AU6	202	6BJ3	729
6AD8	136	6AU7	821	6BJ5	318
6AD10	1007	6AU8	728	6BJ6	106
6AE5	689	6AV3	283	6BJ7	871

Type	Block No.	Type	Block No.	Type	Block No.
6BJ8	820	6C10	713	6CQ4	773
6BK4	637	6C12	186	6CQ6	199
6BK6	120	6C15	492	6CQ8	201
6BK7	142	6C16	183	6CR4	1
6BK8	196	6C18	501	6CR8	827
6BK11	713	6C21 trans	1322	6CS5	733
6BL4	650	6C31	160	6CS6	214
6BL7	758	6C31	557	6CS7	831
6BL8	183	6CA4	240	6CS8	827
6BM5	221	6CA5	714	6CT4	2
6BM8	189	6CA7	149	6CT7	271
6BN5	151	6CB5	774	6CU5	714
6BN6	987	6CB6	148	6CU6	601
6BN8	820	6CC10	35	6CU7	161
6BQ5	219	6CC31	178	6CU8	818
6BQ6	601	6CC40	172	6CV7	272
6BQ7A	142	6CC42	608	6CW4	673
6BR3	573	6CC43	175	6CW5	220
6BR5	227	6CD3	910	6CW7	174
6BR7	306	6CD6	744	6CX7	743
6BR8	732	6CD7	264	6CX8	731
6BS3	751	6CE3	910	6CY5	604
6BS4	140	6CE5	203	6CY7	831
6BS7	312	6CF6	148	6CZ5	733
6BS8	142	6CF8	196	6D1	269
6BT4	255	6CG3	910	6D2	115
6BT4	968	6CG6	200	6D4	260
6BT6	119	6CG7	244	6D6	740
6BU6	613	6CG8	742	6D7	872
6BU8	730	6CH3	911	6D8	314
6BW3	910	6CH3	988	6D10	713
6BW3	923	6CH6	146	6DA4	615
6BW4	240	6CH7	743	6DA5	741
6BW6	614	6CH8	818	6DA6	197
6BW7	194	6CH40	186	6DA7	831
6BX4	241	6CJ3	911	6DB6	512
6BX6	194	6CJ5	164	6DC6	148
6BX7	758	6CJ6	216	6DC8	123
6BX8	142	6CK3	988	6DE4	773
6BY6	214	6CK5	252	6DE6	148
6BY7	195	6CK6	218	6DE7	772
6BZ3	923	6CL3	988	6DG6	719
6BZ6	734	6CL5	774	6DG7	147
6BZ7	142	6CL6	516	6D-HH13	574
6BZ7	578	6CL8	732	6DJ8	177
6BZ8	142	6CM3	1009	6DJ9	180
6C4	128	6CM4	126	6DK6	148
6C5	311	6CM5	249	6DL4	127
6C6	690	6CM6	733	6DL5	223
6C8	819	6CM8	827	6DM4	693
6C9	161	6CN5	250	6DN3	1009
6C10	161	6CN6	251	6DN6	744

Type	Block No.	Type	Block No.	Type	Block No.
6DN7	758	6EQ7	830	6FN5	506
6DQ4	693	6ER5	156	6FQ5	777
6DQ6	601	6ES5	776	6FQ7	244
6DQ8	190	6ES6	204	6FR7	771
6DR4	269	6ES8	180	6FS5	778
6DR6	216	6ET6	205	6FV5	224
6DR7	771	6EV5	604	6FV6	604
6DR8	122	6EW6	677	6FV8	732
6DS4	673	6EW7	772	6FW5	612
6DS8	187	6EX6	744	6FW8	571
6DT4	693	6EY6	829	6FX4	262
6DT5	832	6EZ5	829	6FX7	574
6DT8	596	6F4	775	6FY5	498
6DT31	116	6F5	313	6FY8	648
6DU6	153	6F6	36	6G5	263
6DW4	751	6F8	819	6G6	1072
6DW4	988	6F10	335	6GA8	244
6DW5	733	6F11	198	6G-B3A	649
6DX4	833	6F12	198	6GB5	225
6DX8	190	6F13	165	6G-B6	601
6DY4	833	6F15	164	6G-B9	601
6DY5	217	6F16	164	6GD7	816
6DY7	834	6F18	131	6GE5	779
6DZ4	141	6F19	195	6GE8	1073
6DZ7	834	6F20	132	6GF5	779
6DZ8	648	6F21	199	6GG6	505
6E5	655	6F22	196	6GH8	201
6E7	872	6F23	210	6GJ7	491
6E8	160	6F24	211	6GJ8	183
6EA4	1010	6F25	208	6GK5	777
6EA5	604	6F26	195	6G-K17	650
6EA7	780	6F28	193	6GL7	780
6EA8	201	6F29	206	6GM6	677
6EB5	115	6F30	207	6GM8	176
6EB8	731	6F31	200	6GN8	731
6EC4	897	6F32	213	6GQ7	871
6EC7	131	6F33	512	6GS8	730
6ED4	984	6F35	513	6GU5	778
6EF4	1011	6F36	514	6GV7	501
6EF6	829	6F40	515	6GV8	191
6EH4	1010	6F41	194	6GW6	649
6EH5	714	6F50R	1098	6GW8	192
6EH7	206	6FC7	274	6GX6	781
6EH8	728	6FD6	205	6GX8	117
6EJ4	1011	6FD7	771	6GY6	781
6EJ7	207	6FD12	123	6H5	263
6EL4	1012	6FG5	815	6H6	338
6EL4A	637	6FG6	229	6H8C	35
6EL7	210	6FG7	472	6H31	215
6EM5	832	6FH5	776	6HA5	489
6EM7	780	6FH6	649	6HA6	924
6EN4	1012	6FL2	903	6HB6	924

Type	Block No.	Type	Block No.	Type	Block No.
6HC8	189	6JS6	1016	6LJ8	816
6HE5	189	6JT6	828	6LM8	201
6HF8	731	6JT8	731	6LN8	904
6HG5	221	6JV8	728	6LQ6	912
6HG8	184	6JW8	486	6LQ8	731
6HJ8	692	6JX8	481	6LR6	1016
6HK5	489	6JZ8	1020	6LU6	1018
6HK8	575	6K4	276	6LU8	1020
6HL8	183	6K5	311	6LV6	1017
6HM5	489	6K6	36	6LX8	900
6HM6	782	6K7	32	6LY8	731
6HQ5	489	6K8	160	6LZ6	1019
6HQ6	734	6K11	713	6M1	264
6HS5	1013	6KD6	1016	6M2	263
6HS6	815	6KD8	201	6M5	150
6HS8	730	6KF8	730	6M6	248
6HT6	782	6KG6	893	6M7	32
6HU6	243	6KH8	484	6M40	227
6HU8	490	6KL8	830	6MB6	1019
6HV5	1013	6KM6	913	6MB8	816
6HZ5	989	6KM6	1107	6ME6	1019
6HZ5	1015	6KN8	571	6MG8	201
6HZ6	781	6KR8	731	6MH1	557
6HZ8	731	6KS6	987	6M-HH3	178
6J4	557	6KS8	728	6MJ6	912
6J5	311	6KV8	731	6MK8	730
6J6	178	6KW6	894	6MQ8	201
6J7	29	6KX8	485	6MU6	1018
6J8	314	6L4	775	6MY8	1020
6J10	926	6L5	311	6N3	234
6JA8	731	6L6	250	6N5	687
6JB5	1014	6L7	93	6N6	810
6JC5	1014	6L10	568	6N7	855
6JC6	782	6L12	175	6N8	121
6JD5	989	6L13	173	6P2	202
6JD5	1015	6L15	495	6P4	148
6JD6	782	6L16	174	6P5	689
6JE6	912	6L31	221	6P6	194
6JE6	1019	6L34	138	6P9	221
6JE8	731	6L40	219	6P15	219
6JF6	912	6L43	516	6P17	222
6JF6	1107	6LB6	1016	6P25	248
6JG6	828	6LB8	731	6PL12	189
6JH5	989	6LC6	990	6PX6	248
6JH5	1015	6LD3	272	6Q4	124
6JH6	734	6LD6	895	6Q5	849
6JH8	877	6LD12	116	6Q6	33
6JK5	1015	6LD13	119	6Q7	309
6JK6	677	6LF6	1017	6Q8	92
6JL6	677	6LF8	728	6Q11	713
6JN8	732	6LH6	990	6R3	233
6JR6	828	6LJ6	990	6R4	124

Type	Block No.	Type	Block No.	Type	Block No.
6R7	279	6U10	1006	7CC40	353
6R8	116	6V3A	154	7D9	222
6R-E13	229	6V4	239	7D10	146
6R-HH2	142	6V6	36	7D11	149
6R-HH8	571	6V7	33	7D18	355
6R-K19	573	6V9	496	7E5	616
6R-R8C	510	6W2	231	7E6	23
6S2	236	6W4	615	7E7	694
6S2A	237	6W5	862	7ED7	134
6S5	655	6W6	719	7EK7	358
6S7	30	6W7	538	7ES8	357
6SA7	606	6W9	497	7F7	864
6SB7	606	6X2	231	7F16	164
6SC7	1106	6X4	241	7FC7	356
6SC7	1387	6X5	254	7G7	162
6SD7	727	6X9	494	7G8	866
6SE7	727	6Y6	812	7GV7	345
6SF7	873	6Y7	855	7H7	316
6SG7	644	6Y9	497	7H57	1391
6SH7	611	6Z3	841	7HG8	365
6SJ7	642	6Z4	511	7J7	161
6SK7	961	6Z5	695	7K7	1074
6SL7	87	6Z7	855	7L7	162
6SN7	35	6Z10	926	7N7	864
6SQ7	718	6Z31	241	7R7	694
6SR7	717	6ZY5	862	7S7	324
6SS7	961	7A4	825	7T7	162
6ST7	717	7A6	835	7T29	357
6SU7	87	7A7	316	7T54RA	1194
6SV7	873	7A8	811	7T62R	1213
6SZ7	718	7AB7	863	7V7	162
6T1	141	7AD7	162	7W7	1105
6T4	141	7AF7	864	7X7	965
6T5	263	7AG7	22	7Y4	21
6T7	33	7AH7	22	7Z4	21
6T8	116	7AJ7	162	8A8	363
6T10	1007	7AK7	162	8AR11	1021
6T27	578	7AN7	353	8AU8	721
6T40	1337	7AU7	433	8AW8	721
6T50	1213	7B4	825	8B8	435
6T51	1213	7B5	247	8BA8	721
6T61R	1180	7B6	23	8BH8	721
6T66R	1201	7B7	22	8BM8	435
6TP7	201	7B8	811	8BQ5	450
6TP21	201	7BP7	1325	8BQ11	1021
6U3	232	7C4	865	8CG7	814
6U4	615	7C5	247	8CW5	438
6U5	263	7C6	315	8CX8	722
6U6	812	7C7	162	8D3	198
6U7	32	7C24	1116	8D4	538
6U8	201	7C24	1241	8D5	306
6U9	493	7C26	1452	8D6	194

Type	Block No.	Type	Block No.	Type	Block No.
8D7	312	9GV8	905	10P13	89
8D8	196	9JW8	482	10P18	399
8DX8	444	9P9	790	10PL12	398
8EB8	722	9Q8	364	11AR11	1022
8FQ7	814	9RAL1	720	11BM8	976
8GJ7	487	9RRH2	963	11BQ11	1022
8GN8	722	9TP9	289	11C5	711
8GX7	487	9U8	364	11E13	1249
8GW8	451	9V9	552	11JE8	681
8HG8	365	10BM8	465	11KV8	681
8JE8	722	10BQ5	468	11LQ8	681
8JV8	721	10C1	455	11R3	980
8KS8	721	10C14	397	11TA31	459
8MA16	1392	10CW5	469	11Y9	925
8MA20	1393	10D2	406	12A	1023
8NT5	1394	10DE7	720	12A4	860
8QR5	1200	10DR7	712	12A6	822
8R-HP1	435	10DX8	466	12A8	26
8RK17	1395	10EB8	681	12AC5	427
8RK19	1396	10EG7	723	12AC6	724
8RK20	1397	10EM7	723	12AD6	752
8T10R	1198	10ER5	420	12AD7	173
8T11R	1198	10EW7	720	12AE6	754
8T20R	1198	10F1	456	12AE10	1024
8T30R	1198	10F3	428	12AF3	576
8T71R	1398	10F9	427	12AF6	724
8T92	1462	10F18	133	12AG6	752
8T92R	1399	10FD7	712	12AH8	319
8TFK2	1400	10FD12	392	12AJ6	754
8TFK20	1401	10FR7	712	12AJ8	291
8R-HP1	435	10GN8	681	12AK7A	602
8U9	551	10GV8	977	12AL5	406
8X9	550	10GW8	467	12AQ5	826
9A8	363	10HF8	681	12AS5	696
9AB4	407	10JA8	681	12AT6	289
9AK8	347	10JT8	681	12AT7	171
9AQ8	354	10JY8	681	12AU6	293
9BM5	790	10JY8	1108	12AU7	172
9BR8	809	10KR8	681	12AV6	290
9C8	363	10KR8	1108	12AV7	861
9C25	1317	10L14	394	12AW6	293
9CG8	809	10LB8	681	12AX4	654
9CL8	809	10LB8	1108	12AX7	173
9D4	163	10LD3	424	12AY3	725
9D6	199	10LD11	325	12AY7	645
9EA8	363	10LD12	389	12AZ7	861
9ED4	889	10LD13	390	12B4	860
9EN7	367	10LW8	681	12B7	617
9FG6	387	10LY8	681	12BA6	292
9GB8	362	10LZ8	681	12BB14	454
9GH8A	963	10M2	404	12BC32	290
9GJ7	487	10P10	399	12BD6	292

Type	Block No.	Type	Block No.	Type	Block No.
12BE6	294	12E13	149	12SK7	874
12BE7	417	12E31	292	12SL7	875
12BF6	618	12EA6	660	12SN7	310
12BH7	647	12ED5	784	12SQ7	621
12BK6	290	12EH5	696	12SR7	621
12BL6	724	12EG6	752	12SW7	621
12BM5	821	12EK6	660	12SX7	310
12BQ6	620	12EN6	786	12SY7	960
12BR3	576	12EQ7	813	12TFK2	1403
12BR7	589	12ET1	293	12V6	822
12BS3	725	12EZ6	787	12W6	786
12BT6	289	12F31	292	12X4	299
12BU6	618	12FA6	752	12XP4A	19
12BV7	152	12FB5	300	12Z3	299
12BX6	133	12FG6	416	12Z5	695
12BY7A	152	12FK6	783	13CM5	437
12BZ6	292	12FM6	783	13D1	322
12BZ7	173	12FQ7	964	13D2	310
12C5	619	12FT6	754	13D3	307
12C8	967	12FX5	784	13D7	580
12CA5	696	12FY8	824	13DE7	709
12CD7	256	12G4	661	13DR7	760
12CK3	725	12G-B3	653	13E1	1425
12CL3	725	12G-B6	620	13EC7	133
12CS5	697	12GB7	620	13EM7	765
12CS6	294	12GB7	653	13FD7	760
12CU5	619	12G-K17	654	13FG6	416
12CU6	620	12GN7	991	13FR7	760
12CX6	787	12GW6	653	13GB5	454
12D4A	654	12H4	661	13GC8	135
12D8	291	12H31	294	13J10	927
12DA6	414	12HG7	991	13V10	1024
12DF7	173	12HU8	569	13Z10	927
12DL4	393	12J5	785	14A5	852
12DL8	859	12J7	25	14A7	617
12DM4	654	12K7	25	14ABP4	343
12DM5	711	12K8	26	14ABP4A	342
12DM7	173	12KL8	813	14AF7	823
12DQ4	654	12L6	786	14AHP4A	17
12DQ6	620	12L8	854	14B6	850
12DQ7	152	12Q7	24	14B8	710
12DT1	289	12QR205	1357	14C5	852
12DT7	173	12R5	619	14C7	617
12DV8	859	12RK-19	576	14D12	1201
12DW4	725	12RL3	861	14E6	850
12DW5	697	12ALL5	964	14E7	708
12DW7	659	12S7	423	14F7	853
12DZ6	660	12SA7	960	14G6	390
12DZ8	824	12SC7	857	14GB5	454
12E4	292	12SG7	874	14GT8	788
12E5	785	12SH7	874	14GW8	372
12E12	1402	12SJ7	174	14H7	617

Type	Block No.	Type	Block No.	Type	Block No.
14J7	710	17BQP4	15	19AU4	700
14JG8	788	17BR3	992	19BAP4	6
14K7	426	17BS3	769	19BCP4	6
14KP4	326	17BTP4	13	19BD	382
14KP4A	327	17BW3	1029	19BEP4	7
14L7	424	17BZ3	929	19BR5	400
14N7	823	17C5	622	19BW7	412
14R7	708	17C8	391	19BX6	412
14S7	710	17CA5	622	19BY7	413
14W7	617	17CK3	769	19C8	288
14Y7	969	17CL3	769	19CG3	1029
1423	299	17CQ4	700	19CL8	701
15A6	377	17CU5	622	19CS4	405
15AB9	1025	17CVP4	5	19CTP4	582
15AF11	789	17D4	767	19D8	397
15BD7A	390	17DE4	700	19DA5	415
15BD11	789	17DJP4	13	19DC8	392
15BQ5	378	17DM4	767	19DE7	759
15CW5	378	17DQ4	767	19EA8	761
15D12	1309	17DQ6	702	19EH7	421
15DQ8	370	17DW4	769	19EJ7	422
15EA7	765	17EW8	567	19EW7	759
15EW7	709	17FV5	453	19FK6	974
15HB6	763	17GW6	702	19FL8	392
15KY8	1026	17JG6	1030	19G5	404
15MX8	1026	17JR6	1030	19JN8	701
15R	1456	17KV6	1030	19M-R9	652
15TP7	370	17KW6	890	19MR19	652
16	1027	17L6	698	19R3	384
16A5	376	17N8	391	19SU	384
16A8	368	17QP4	623	19T8	288
16AQ3	439	17R5	622	19U3	382
16GK6	763	17R7	383	19U5	404
16GK8	374	17RK19	992	19W3	382
16KG8	971	17W6	698	19X3	382
16L40	376	17W9	553	19Y3	384
16LD6	892	17Z3	383	19Y40	384
16LU8	1028	18AK5	651	20A3	258
16MY8	1028	18D3	185	20AQ3	901
16TP6	368	18FW6	652	20D3	319
16Y9	553	18FX6	966	20D4	186
17	1356	18FY6	699	10EW7	759
17A8	761	18GB5	907	20Y40	334
17AB9	1025	18GB5A	1115	21A6	375
17AB10	928	18GD6	652	21B6	375
17AX3	1029	18GE6	699	21CJP4	14
17AX4	767	18GV8	371	21CLP4	16
17AX10	928	18TP11	371	21CW7	408
17AY3	769	19AJ8	397	21DJ8	409
17BE3	929	19ALP4	7	21DKP4	9
17BE3	1029	19AQ5	295	21EC6	707
17BQ6	702	19AQP4	7	21ENP4	16

Type	Block No.	Type	Block No.	Type	Block No.
21ES8	396	25L	460	30P19	379
21EX6	707	25RE	626	30PL1	135
21EZP4	603	25R-K19	577	30PL10	135
21F5	735	25SN7	322	30PL12	368
21KQ6	979	25U4	706	30PL13	374
21L40	375	25UP22	922	30PL14	373
21LU8	1031	25W4	706	30Z	1457
21MY8	1031	25W6	460	31	887
22AQ3	157	25Y4	303	31A3	287
22BW3	1032	25Y5	626	31AV3	403
22CG3	1032	25Z4	303	31Z	1089
22FC7	395	25Z5	626	32	671
22JF6	1033	26A6	705	32	1110
22JG6	1034	26B6	726	32ET5	704
22JR6	1034	26CG6	705	32L7	876
22JU6	1034	26D6	726	34	671
22KM6	1033	26KG6	1489	34	
22M1	1404	27	884	34GD5	704
23AJP4	10	27BL8	410	35	879
23AMP4	10	27GB5	380	35A3	561
23AQP4	10	27KG6	978	35A5	881
23BCP4	10	28AK8	389	35B5	579
23BEP4	584	28AQ8	394	35C3	561
23DFP4	585	28D7	867	35C5	297
23DKP4	10	28EC4	981	35EH5	703
23DKP4A	11	28GB5	380	35F4	579
24A	879	28HD5	1036	35FN5	504
24AXP4	18	29KQ6	970	35FV5	982
24JE6	930	30	887	35L6	20
24JZ8	1035	30A5	297	35R1	298
24LQ6	930	30AE3	385	35R2	561
25A6	27	30C1	363	35W4	298
25A7	876	30C15	367	35X4	561
25AX4	706	30C17	366	35Z4	28
25B5	851	30C18	345	35Z5	627
25B6	624	30CW5	523	36	1037
25BQ6	625	30F5	134	36KD6	996
25BR3	577	30F27	344	37	886
25C5	735	30FL1	362	38	1112
25C6	27	30FL2	931	38A3	402
25CA5	735	30FL12	361	38HE7	1038
25CD6	707	30FL13	360	38HK7	1038
25CU6	625	30FL14	483	39	1039
25D4	706	30HD5	1036	40A1	878
25DN6	707	30L1	353	40B2	878
25DQ6	625	30L15	358	40KD6	996
25E5	302	30L17	359	40KG6	891
25EC6	707	30MD1	1319	40SUA	280
25EH5	735	30PA	90	40Z5	627
25F7	302	30P12	300	41	808
25GF6	90	30P16	376	42	808
25J28	1035	30P18	378	42EC4	237

Type	Block No.	Type	Block No.	Type	Block No.
43	851	65ME	227	378A	1449
44	1039	66KU	255	380A	269
44A/160M	1458	67	886	396A	608
45	1111	67PT	252	398A	1324
45A5	429	75B1	473	401A	203
45B5	399	76	886	401A	1323
45DQ8	411	77	690	403A/B	213
45DX8	411	78	740	404A	510
45Z5	627	80	686	408A	605
48A8	398	81	1027	417A	517
48BQ5	399	82	1041	420A	87
50	1109	83	686	421A	158
50A5	881	83A1	457	436A	795
50AX6	882	84	511	437A	597
50B5	562	85A1	94	451PT	429
50BM8	398	85A2	277	559	1080
50C5	296	88	1041	575A	1308
50C6	20	90EG4	1329	578	1351
50CA5	703	95	1042	604A	1388
50EH5	703	98	511	624	1200
50F2	562	100MD1/4	1320	651	1310
50HC6	680	100R	1351	652	1311
50HK6	680	100TL	1459	653B	1315
50L6	20	108C1	461	655	1313
50T	1459	112A	1023	656	1310
50Y6	628	117L7	657	657	1311
50Y7	628	117M7	657	658	1313
50Z6	882	117N7	658	673	1308
50Z7	628	117P7	658	676	1200
51	879	117Z6	1075	705A	1449
52	869	121VP	427	715	1356
52KU	285	135M	1086	731A	213
53	888	141DDT	424	803	1088
53HK7	1040	150A2	474	805	1093
53KU	285	150AVP	1360	807	144
54KU	285	150B2	95	809	1457
55	880	150B3	475	813	1091
55B/200A	1406	150C1	459	828	1455
55N3	401	150C2	459	829B	1077
56	884	150C3	458	829B	1119
57	885	150C4	459	830B	1090
58	885	163PEN	376	832	1250
58HE8	1040	171DDP	391	832A	1078
62DDT	272	213B	686	832A	1250
62TH	161	213PEN	375	833A	1102
62VP	164	238B	1315	833A	1180
63TI	203	242C	1451	838	1094
63TP	188	274	285	857B	1391
64	1037	274B	301	866jr	669
64ME	264	311SU	287	879	744
64SPT	194	350A	1460	884	849
65	1037	356	1118	885	1103

Type	Block No.	Type	Block No.	Type	Block No.
889R	1463	1622	36	5553B	1313
892	1462	1626	785	5554	1314
932	656	1632	786	5555	1315
950	838	1634	857	5557	1356
951	656	1635	855	5559	1357
954	273	1637	530	5586A	1498
955	278	1642	842	5590	203
956	525	1644	854	5590	1323
957	519	1649	335	5591	213
958A	520	1650	278	5591	1362
959	521	1655	1106	5595	213
1000 spec	1322	1655	1387	5603	1324
1201	616	1657	858	5608	213
1203A	865	1659	880	5608	888
1204	863	1662	53	5610	128
1206	866	1664	967	5624	101
1216	178	1665	858	5632	1352
1217	105	1805P1	1321	5633	663
1219	608	1810	1330	5634	663
1221	690	1813PF	1325	5636	267
1222	250	1852	335	5637	662
1223	29	1853	611	5638	663
1225	93	1907	1495	5638	1386
1229	656	2014	516	5640	265
1230	887	2050	858	5641	261
1231	162	2051	858	5642	522
1231Z	1089	2101	838	5643	257
1232	162	2255	1307	5644	794
1238	867	2255ROE	1304	5647	1243
1255FIM/NOR	1306	2935A	1027	5651	598
1266	641	3841	686	5654	213
1267	791	3861B	1086	5656	1363
1273	316	3871	1109	5659	880
1274	254	3872	887	5660	967
1275	686	3873	1110	5651	598
1280	617	3874A	1091	5654	213
1282	1105	3921	1111	5661	874
1284	617	3924	879	5670	608
1288	856	4465	879	5671	1316
1291	856	4610	1037	5672	70
1292	856	4611	886	5675	547
1293	798	4612	1112	5676	570
1294	840	4654	534	5677	1053
1299	537	4672	273	5678	76
1513	1201	4694	535	5679	835
1603	690	4699	536	5684	1352
1611	36	5528	1347	5685	1347
1612	93	5544	1349	5691	87
1613	36	5545	1347	5692	35
1614	250	5550	1312	5693	642
1620	29	5551A	1311	5695	669
1621	36	5552A	1310	5696	259

Type	Block No.	Type	Block No.	Type	Block No.
5697	1054	5855	1464	5964	178
5697	1055	5856	459	5965	861
5702	646	5860	461	5992	36
5702	1059	5861	91	5993	241
5703	629	5866	1208	5998	158
5703	1061	5867	1246	6004	321
5704	636	5868	1180	6005	221
5704	1060	5870	1466	6006	644
5718	276	5871	36	6007	82
5719	662	5876	546	6008	75
5720	1357	5877	1349	6011	1352
5721	281	5881	250	6021	268
5725	512	5886	71	6024	198
5726	115	5886	1056	6027H	1359
5727	258	5889	1336	6028	605
5728	1357	5893	545	6030	178
5731	278	5894/A	1077	6031	1357
5732	32	5895	1251	6038	1300
5744	607	5896	666	6042	322
5744	1062	5897	276	6045	178
5749	200	5898	662	6046	460
5750	215	5899	167	6048	1388
5751	173	5900	167	6050	570
5755	87	5901	168	6052	666
5757	258	5902	265	6053	664
5760	215	5903	664	6054	29
5762	1116	5904	667	6055	667
5762	1241	5905	665	6056	665
5763	564	5907	665	6057	173
5763	587	5910	48	6058	115
5771	1118	5911	75	6059	306
5783	563	5913	82	6060	171
5784	753	5915A	105	6061	614
5784	548	5920	181	6062	564
5802	1334	5923	1252	6063	155
5812	844	5924	1253	6064	198
5814	172	5924	1421	6065	199
5819	1467	5929	251	6066	119
5822A	1256	5930	643	6067	172
5822A	1358	5931	301	6069	213
5823	1335	5932	250	6072	645
5824	624	5933	144	6073	459
5831	549	5948	1495	6074	461
5838	254	5949	1420	6075	1120
5840	168	5950	570	6076	1121
5841	1066	5950	1065	6077	1122
5842	517	5956	1408	6078	1123
5844	178	5957	1408	6079	1124
5847	510	5958	1422	6080	158
5851	632	5961	606	6083	1125
5852	254	5962	108	6084	98
5854	1046	5963	172	6085	96

Type	Block No.	Type	Block No.	Type	Block No.
6086	37	6201	171	6486	1369
6087	321	6202	241	6487	166
6088	1048	6205	266	6488	169
6094	221	6218	100	6489	270
6095	221	6220A	1347	6511	1256
6096	221	6223	575	6512	1314
6097	115	6225	575	6513	1315
6098	670	6227	99	6516	565
6099	178	6247	1063	6520	158
6100	128	6249	1361	6524	1257
6101	178	6250	1464	6535	178
6105	321	6252	1257	6538	1474
6106	321	6265	104	6539	1475
6113	87	6267	196	6540	646
6120	1364	6281	1244	6540	1059
6130	1365	6291	1360	6542	1069
6132	146	6305	479	6550	149
6134	335	6308	1367	6558	1388
6135	128	6320	668	6568	1389
6135	1366	6321	668	6574	31
6136	202	6326	1306	6582	1362
6137	961	6342A	1469	6611	1245
6146	588	6344	1470	6615	1390
6146B	1233	6346	1311	6617	1258
6147	632	6346	1374	6618	1259
6148	646	6347	1310	6626	459
6148	1059	6348	1313	6627	461
6149	629	6351	419	6655A	1467
6149	1061	6354	95	6659	1068
6150	753	6360/A	1249	6660	200
6151	607	6362	1471	6661	104
6151	1062	6363	1472	6662	106
6155	1083	6365	1473	6663	115
6155	1086	6370	182	6664	139
6156	1084	6373	69	6669	221
6156	1254	6374	235	6676	148
6157	418	6375	72	6677	516
6158	307	6385	608	6678	201
6159/A	1255	6386	608	6679	171
6159B	1235	6391	246	6680	172
6166A	1494	6397	632	6681	281
6180	35	6418	1052	6686	226
6185	203	6421	1318	6687	105
6185	608	6435	1365	6688	212
6186	203	6436	1064	6689	102
6187	512	6437	570	6693	1308
6188	87	6437	1065	6696	1493
6189	172	6438	1067	6699	221
6190	607	6443	235	6700	1370
6197	83	6463	176	6778	276
6197	516	6482	1368	6779	1338
6199	1360	6485	514	6786	1371

Type	Block No.	Type	Block No.	Type	Block No.
6807	1347	7092	1213	7503A	330
6808	1347	7111	1381	7522	1488
6816	1223	7118	245	7527	1267
6829	108	7119	110	7527A	1191
6844A	1350	7125	123	7534	107
6845	514	7136	1476	7534	986
6850	1257	7181	1382	7543	202
6853	321	7184	36	7561	460
6860	1347	7189	219	7580	1268
6866	1496	7193	311	7580W	1100
6883/A	1260	7193	1076	7581	250
6883B	1234	7203	1231	7583	1422
6884	1221	7204	1087	7601A	8
6894	1476	7204A	332	7623	756
6895	1308	7205A	327	7624	741
6911	1480	7213	1229	7643	183
6913	647	7237	1263	7645	1261
6922	103	7247	659	7650	1223
6923	38	7262A	1372	7651	1487
6927	178	7289	1405	7664	1486
6928	221	7292	1477	7669	1423
6939	1261	7297	1349	7671	1424
6960	1262	7298	1347	7681	1485
6961	1263	7299	1347	7693	104
6962	112	7308	112	7694	106
6968	213	7316	179	7696	1469
6972	1497	7320	219	7700	690
6977	60	7321	1347	7703	1427
7000	29	7323	1070	7704	1269
7001	532	7326	1478	7707A	12
7004	1264	7351	1479	7709	1340
7008	1373	7377	1265	7710	1341
7020	1374	7378	1266	7711	1342
7021	1374	7382	173	7713	1343
7025	281	7384	1447	7714	1344
7027	250	7386	1348	7717	604
7027A	149	7404A	333	7721	66
7028	1375	7405A	328	7722	113
7030	1376	7406A	329	7724	788
7031	1376	7408	36	7728	171
7034	1086	7408	1407	7729	602
7035	1248	7432	575	7729	173
7036	105	7433	169	7730	172
7038	1306	7434	246	7731	201
7040	1377	7436	261	7732	148
7041	1377	7459	1241	7733	178
7044	1378	7475	476	7734	1073
7054	555	7489	172	7737	111
7062	108	7492	171	7746	1469
7064	1467	7494	173	7751	130
7088	1379	7498	198	7752	512
7091	1380	7502A	331	7753	1270

Type	Block No.	Type	Block No.	Type	Block No.
7755	513	8163	1082	8566	1411
7756	570	8165	1242	8572	1301
7764	1473	8168	1415	8573	1301
7767	1471	8170	1416	8577	1126
7788	114	8171	1417	8579	1127
7800	1198	8177	1279	8580	1128
7804	1194	8179	1280	8581	1129
7805	1271	8223	503	8591	1156
7806	1272	8228	1345	8592	1157
7807	1273	8254	501	8593	1158
7817	1467	8255	509	8594	1159
7818	1472	8268	1281	8603	1160
7836	1274	8269	1282	8604	1412
7843	1484	8270	1353	8608	896
7844	1483	8278	962	8610	1161
7854	1218	8298A	1233	8621	1099
7860	1482	8321	1117	8621	1162
7867	744	8322	1232	8625	1302
7908	1482	8348	1190	8626	1307
7909	1471	8349	1418	8626	1411
7972	1425	8352	1419	8637	1163
7979	1070	8356	1134	8654	1164
7980	457	8370	1408	8666	1165
7981	1349	8408	1135	8667	1166
7983	1275	8421	1136	8668	1167
7986	1276	8429	1137	8679	1168
8005	1095	8433	1354	8680	1169
8008A	1481	8436	559	8683	1170
8016	84	8438	1191	8684	1414
8018	144	8438	1410	8728	1171
8020	1351	8438/A	1226	8729	1172
8021	1449	8447	589	8730	1173
8022	1456	8453	1299	8731	1174
8022	49	8453	1346	8732	1175
8023	1456	8457	1225	8733	1176
8032	1277	8458	1227	8734	1177
8032A	1234	8463	1216	8735	1178
8037	1350	8482	1303	8736	1179
8042	1278	8483	1304	8744	1152
8053	1467	8503	1448	8744	1201
8054	1472	8505	1228	8752	1181
8063	1352	8507	1302	8801	1182
8077	555	8511	1304	8812	1236
8078	1201	8532	557	8813	1237
8093	1413	8532	1355	8814	1238
8101	275	8541A	1304	8867	1183
8108	275	8543	563	8888	1239
8116	1220	8552	1234	8913	1184
8117/A	1219	8556	560	8915	1185
8118	1217	8560	1230	8918	1215
8119	1210	8562	509	8935	1186
8120	1209	8566	1301	8936	1187

Type	Block No.	Type	Block No.	Type	Block No.
8937	1188	A61	383	AW47-97	8
8952	1189	A61-120W/S	949	AW53-80	16
8958	1214	A61-130W	949	AW53-88	9
9002	278	A63-11X	922	AW53-89	603
9003	525	A63-120X	922	AW59-90	10
18042	37	A65-11W	921	AW59-91	11
18043	102	A65-11W/S	950	AW59-95	12
18045	639	A207	1461	AW61-88	18
18046	518	A677	690	AX4-125A	1086
18048	97	A863	29	AX4-250A	1254
A31-18W	913	A1834	158	AX9900	1208
A31-18W/S	932	A2275	549	AX9901	1246
A31-181W	951	A2317	545	AX9902	1180
A31-181W/S	933	A2327	1205	AX9903	1119
A38-160W	986	A2351	546	AX9904	1252
A40-11W	581	A2352	547	AX9904R	1253
A40-11W/S	934	A2354	548	AX9906	1122
A40-12W	914	A2521	1	AX9906R	1123
A40-12W/S	935	A2599	2	AX9907	1120
A44-14W	952	A2647	795	AX9907R	1121
A44-120W	952	A2900	171	AX9908	1124
A44-120W/S	936	A4051	144	AX9909	1125
A47-11W	583	AA91E	115	AX9910	1257
A47-13W	3	ABC91	822	AZ31	34
A47-13W/S	937	ACM3	1426	AZ41	1113
A47-14W	582	ACO44	793	B36	310
A47-14W/S	938	ACS4	1121	B63	526
A47-15W/S	939	ACS5	1416	B65	35
A47-17W	583	ACT14	1499	B109	394
A47-17W/S	940	ACT16	1500	B139	353
A47-18W	583	ACT20	1116	B309	171
A47-25W	915	ACT70	1241	B319	174
A47-25W/S	941	ACT100	1194	B329	172
A47-26W	583	AD	841	B339	173
A47-28W	916	AFH202	1333	B349	358
A47-28W/S	942	AFX212	260	B719	175
A49-11X	917	AG	686	B729	244
A50-12W	918	AG2509	277	B739	171
A50-120W	918	AG2511	459	B749	172
A50-120W/S	943	AH205	1391	B1135	1246
A50-130W	918	AH2511	1308	B1152	1201
A59-12W	584	ASG512	258	B1153	1213
A59-12W/S	944	ASG5007	1466	B1153	1309
A59-13W	4	ATS25	144	BA	1043
A59-13W/S	945	AW36-20	342	BA-2	858
A59-14W	337	AW36-21	343	BF61	252
A59-15W	585	AW36-80	17	BF62	253
A59-15W/S	946	AW43-80	13	BF451	429
A59-23W	919	AW43-88	5	BH	1043
A59-23W/S	947	AW47-10	341	BK24	1310
A59-25W	920	AW47-90	6	BK34	1313
A59-25W/S	948	AW47-91	7	BK42	1311

Type	Block No.	Type	Block No.	Type	Block No.
BK44	1314	BS506	1445	C1108	1086
BK46	1315	BS510	1320	C1112	1254
BK66	1312	BS510	1445	C1123	1490
BK146	1313	BS598	1446	C1134	1257
BK168	1256	BS810	1440	C1134	1406
BK416	1427	BT17	1200	C1136	1226
BK428	1428	BT19	1199	C1136	1267
BK442	1423	BT71R	1316	C1136	1410
BK444	1424	BT91	1349	C1150/1	1402
BK472	1428	BTL2-1	1116	C1158	1425
BL28	1389	BW140	1491	CAT6	1491
BL312	1390	BW147	1462	CAT9	1492
BM25L	1414	BW153	1492	CC81E	171
BM1001	1429	BW165	1118	CC86E	176
BPM04	221	BW194	1493	CC86E	176
BR129	1463	BW1162	1262	CCa	112
BR132	1116	BW1162J3	1157	CF61	529
BR140	1499	BW1165	1252	CF141	630
BR153	1500	BW1165J3	1161	CK108	690
BR175	1399	BW1184	1181	CK502AX	478
BR189	1316	BW1185	1169	CK503	1046
BR189	1398	BW1196	1175	CK505AX	477
BR191/B	1116	BW1196J3	1176	CK506AX	323
BR191/B	1241	C3m	97	CK509	1047
BR1102	1317	C9A	336	CK512	1058
BR1124	1318	C12A	425	CK512	1244
BR1126	1195	C14FM	332	CK515	1047
BR1126	1283	C17AA	5	CK518	1046
BR1160	1241	C17FM	586	CK522	1048
BR1162	1263	C19AK	6	CK526	1049
BR1165	1253	C19/7A	6	CK528	1048
BR1165	1421	C19/10A	7	CK529	1050
BR1167	1426	C21AA	9	CK532DX	956
BR1196	1174	C21KM	14	CK533	1051
BS54	1430	C21TM	331	CK535	1050
BS62	1431	C21/7A	9	CK536	1051
BS68	1432	C23AK	10	CK537	1049
BS90	1433	C23AKT	337	CK538DX	958
BS112	1434	C23/7A	10	CK542	956
BS136	1435	C23/10A	11	CK546DX	957
BS142	1436	C23/10AP	4	CK548	1052
BS180	1437	C24KM	480	CK549	958
BS192	1438	C143	1091	CK549DX	959
BS208	1439	C144	1077	CK551	42
BS332	1440	C144	1119	CK553	870
BS386	1394	C178/A	1077	CK555	1044
BS408	1441	C178/A	1119	CK556	570
BS410	1300	C180	1250	CK568	1053
BS422	1442	C350	144	CK569	76
BS436	1443	C610	161	CK570	1054
BS470	1444	C933	1306	CK570	1055
BS502	1319	C1106	1104	CK571	71

Type	Block No.	Type	Block No.	Type	Block No.
CK571	1056	CME2013S	947	CV2130	1089
CK605	646	CME2101	330	CV2131	1254
CK605	1059	CME2103	9	CV2295	1224
CK606	1060	CME2301	12	CV2434	1338
CK608	1061	CME2302	10	CV2466	1261
CK608BX	636	CME2303	11	CV2487	1092
CK608CX	629	CME2305	584	CV2519	1086
CK619	607	CME2305S	944	CV2666	1119
CK619	1062	CME2306	4	CV2797	1119
CK623	1059	CME2306S	945	CV2798	1249
CK628	1063	CME2307	337	CV2799	1257
CK1003	1071	CME2308	585	CV2963	1083
CK1009A	1043	CME2308S	946	CV2964	1084
CK1036	1064	CME2312	920	CV3522	1124
CK1037	1065	CME2312S	948	CV3523	1079
CK1038	1066	CME2313	919	CV3599	1224
CK1039	1067	CME2313S	947	CV3879	1226
CK1042	1068	CME2413S	949	CV3926	1253
CK1045	1069	CME2501	921	CV3990	1081
CK1050	1070	CME2501S	950	CV3990	1247
CK1054	1045	CQLO-3-1	1231	CV3991	1248
CME1201	913	CR192A	1494	CV5134	1465
CME1201/S	932	CR1100	1121	CV5219	1121
CME1202	951	CRM71	430	CV5957	1464
CME1202/S	933	CRM92	336	CV8730	1241
CME1402	327	CRM92A	336	CW10	1388
CME1520	997	CRM121	425	CW1100	1120
CME1601	581	CRM121B	425	CX1119	1447
CME1601/S	934	CRM144	332	CX1140	1495
CME1602	914	CRM172	333	CY31	539
CME1602/S	935	CRM174	586	D1C	519
CME1703	328	CRM212	331	D2C	520
CME1705	329	CST1-6000	1200	D2M9	115
CME1706	5	CT1-500	1199	D3A	66
CME1713	952	CT1-5000	1200	D3F	521
CME1713/S	936	CT1-6000	1200	D27	115
CME1901	8	CTA1950	917	D61	269
CME1902	6	CTA2550	922	D63	337
CME1903	7	CV26	1091	D77	115
CME1904	341	CV309	1287	D121	631
CME1905	583	CV309	1290	D152	115
CME1905/S	940	CV424	1249	D177	1455
CME1906	3	CV483	1287	D717	115
CME1906AS	939	CV788	1250	DA30	1332
CME1906S	937	CV1350	1246	DA90	39
CME1907	915	CV1351	1180	DAC32	85
CME1907S	941	CV1510	1287	DAF91	40
CME1908	582	CV1510	1290	DAF92	41
CME1908S	938	CV1572	144	DAF96	42
CME1913	916	CV1905	1242	DC70	72
CME1913S	942	CV1924	1208	DC80	63
CME2013	918	CV2129	564	DC761	72

Type	Block No	Type	Block No.	Type	Block No.
DCC90	43	DK91	49	E1F	273
DCF60	73	DK92	50	E1T	182
DCG1/250	1212	DK96	51	E2F	525
DCG6/18	1308	DN97	51	E20C	597
DCG6/18GB	1476	DL29	537	E55L	556
DCG7/6000	1327	DL31	78	E80CC	96
DCG12/30	1466	DL33	79	E80CF	183
DD6	115	DL35	80	E80F	98
DD&	222	DL36	81	E80L	99
DDR7	222	DL63	279	E80T	100
DET22	91	DL67	82	E81CC	171
DET22D	1207	DL69	70	E81H	635
DET22E	1206	DL70	69	E81L	226
DET24	1204	DL71	478	E82CC	172
DF33	74	DL72	323	E82M	101
DF60	76	DL74M	24	E83CC	281
DF61	1114	DL75	70	E83F	102
DF61	1244	DL82	23	E84L	219
DF62	68	DL91	64	E86C	129
DF67	75	DL92	52	E88C	509
DF70	477	DL93	53	E88CC	103
DF72	1114	DL94	54	E89F	147
DF91	44	DL95	55	E90CC	181
DF92	45	DL96	56	E90F	104
DF96	46	DL98	57	E90Z	155
DF97	47	DL145	325	E91AA	115
DF167	75	DL167	82	E91H	105
DF650	958	DL620	70	E91N	258
DF651	959	DL650	956	E92CC	109
DF652	68	DL651	957	E95F	213
DF654	76	DL652	70	E99CC	109
DF668	68	DL700	83	E99F	106
DF669	76	DL761	632	E130L	107
DF703	71	DM70	58	E152A	1086
DF904	48	DM71	59	E180CC	108
DG7-32	1383	DM160	60	E180F	212
DH63	309	DN143	88	E180L	986
DH73	33	DO24	792	E181CC	245
DH74	24	DO26	792	E182CC	110
DH76	24	DO30	1332	E182F	510
DH77	119	DP61	213	E186F	111
DH81	23	DX144	633	E188CC	112
DH109	389	DX145	275	E188CC	1378
DH118	424	DX274	1160	E235L	130
DH119	390	DY30	84	E236L	249
DH142	424	DY51	985	E250A	1254
DH147	170	DY70	522	E280F	113
DH149	315	DY80	65	E283CC	173
DH150	272	DY86	61	E288CC	503
DH718	272	DY87	62	E702B	1496
DH719	116	DY802	902	E810F	114
DK32	77	E1C	278	E902	241

Type	Block No.	Type	Block No.	Type	Block No.
E1191	1333	EC94	141	ECF800	492
E1485	53	EC95	156	ECF801	491
E2016	199	EC97	498	ECF802	486
E2157	171	EC98	557	ECF804	185
E2163	172	EC157	275	ECF805	501
E2164	173	EC158	559	ECF812	903
E4412/B/9	1329	EC560	507	ECH21	159
EA50	269	EC562	508	ECH33	160
EA52	38	EC760	276	ECH35	160
EA71	1243	EC806/S	129	ECH41	529
EA76	270	EC900	489	ECH42	161
EAA91	115	EC1000	502	ECH43	161
EA766	636	EC8008/S	509	ECH71	159
EAA901	115	EC8010	560	ECH80	143
EAA901S	115	ECC32	35	ECH81	186
EABC80	116	ECC33	35	ECH83	187
EAC91	527	ECC35	87	ECH84	481
EA41	271	ECC40	528	ECH113	161
EA42	271	ECC70	268	ECH200	496
EAM86	117	ECC81	171	ECL8C	188
EB34	338	ECC82	172	ECL82	189
EB91	115	ECC83	173	ECL84	190
EBC33	170	ECC84	174	ECL85	191
EBC41	272	ECC85	175	ECL86	192
EBC80	209	ECC86	176	ECL802	191
EBC81	118	ECC87	96	ECL805	191
EBC90	119	ECC88	177	ECLL800	484
EBC91	120	ECC89	274	ECR35	1329
EBF32	282	ECC91	178	ED2	115
EBF80	121	ECC180	142	ED500	984
EBF81	136	ECC186	179	EE80	193
EBF83	122	ECC189	180	EF2	1468
EBF85	123	ECC230	158	EF5	1468
EBF89	123	ECC801/S	171	EF8	1468
EBL21	88	ECC802/S	172	EF9	1468
EBL71	88	ECC803/S	173	EF22	162
EC32	637	ECC804	244	EF36	634
EC51	91	ECC805	495	EF37	634
EC55	91	ECC807	580	EF37A	472
EC56	633	ECC808	485	EF39	163
EC57	275	ECC813	176	EF41	164
EC70	276	ECC863	173	EF42	165
EC71	276	ECC865	175	EF50	242
EC80	124	ECC900	489	EF53	242
EC81	125	ECC960	181	EF70	166
EC84	137	ECC962	109	EF71	167
EC86	126	ECF80	183	EF72	168
EC88	127	ECF82	201	EF73	169
EC90	128	ECF86	184	EF74	246
EC91	138	ECF200	494	EF80	194
EC92	139	ECF201	493	EF81	145
EC93	140	ECF202	983	EF82	146

Type	Block No.	Type	Block No.	Type	Block No.
EF83	196	EL38	251	EN70	257
EF85	195	EL39	250	EN91	258
EF86	196	EL41	252	EN92	259
EF87	196	EL42	253	EN93	260
EF89	197	EL50	534	EQ80	230
EF89F	147	EL53	535	ES85	1208
EF91	198	EL54	536	ES204A	1246
EF92	199	EL70	532	ES833/A	1180
EF93	200	EL71	265	ESA5000	1463
EF94	202	EL80	150	ESU77	1461
EF95	213	EL81	216	ESW892	1462
EF96	203	EL82	217	ET30	1326
EF97	204	EL83	218	ET51	1370
EF98	205	EL84	219	ETL3-2	1263
EF183	206	EL84S	219	EY51	231
EF184	207	EL85	151	EY70	261
EF190	148	EL86	220	EY80	232
EF730	267	EL90	221	EY81	233
EF731	167	EL91	222	EY81F	154
EF732	168	EL95	223	EY82	234
EF734	266	EL136	224	EY83	238
EF762	168	EL150	531	EY84	235
EF800	194	EL180	152	EY86	236
EF804	515	EL300	506	EY87	236
EF805S	195	EL500	225	EY88	238
EF806S	196	EL502	225	EY88	1385
EF811	208	EL503	962	EY500/A	897
EF812	210	EL504	225	EY802	236
EF814	211	EL505	893	EZ12	505
EF860	194	EL508	894	EZ22	21
EF861	212	EL509	893	EZ35	254
EF866	196	EL511	225	EZ40	255
EF903	140	EL802	895	EZ80	239
EF905	213	EL803S	218	EZ81	240
EFF50	638	EL820	216	EZ90	241
EFF51	638	EL821	146	EZ91	262
EFL200	497	EL822	146	EZ900	155
EH81	635	EL861	226	F5726	540
EH90	214	EL862	66	F6057	541
EH900S	105	EL863	218	F6060	543
EH960	105	EL5070	896	F6064	544
EHA5000	1463	ELL80	490	F6067	542
EK90	215	EM34	264	FG238A	1315
EL12/350	531	EM35	263	FG259B	1314
EL22	247	EM80	227	FX290	1448
EL31	251	EM81	228	FX2513	1422
EL32	530	EM84	229	FX2517	1408
EL33	248	EM84A	243	FX2519A	1420
EL34	149	EM85	153	G75/2D	598
EL35	250	EM87	243	G75/4K	599
EL36	249	EM840	229	G77	690
EL37	250	EN32	31	G84	845

Type	Block No	Type	Block No.	Type	Block No.
G105/1D	600	HD93	65	K3035	1397
G108/1K	461	HD94	601	K3038	1395
G150/3D	458	HD95	625	K3039	1396
G150/4K	459	HF62	165	K3043	1400
G180/2M	558	HF93	292	K3059	1401
GL415	1312	HF94	293	KD21	598
GL807	144	HF100	1454	KD24	600
GL829B	1119	HF121	427	KD25	458
GL832A	1250	HF300	1453	KF35	280
GL6159	1255	KH90	294	KK32	802
GRe15000/1/4	1327	HL86	523	KF35	280
GT40	1201	HL90	295	KL35	308
GXA60	1434	HL92	296	KT32	460
GXA80	1432	HL94	297	KT33	27
GXA85	1430	HM04	215	KT61	248
GXA95	1433	HP6	196	KT63	36
GXA130	1431	HR1	479	KT66	250
GXB160	1436	HR2	479	KT71	20
GXE5	1437	HS2	301	KT81	247
GXE8	1435	HY61	144	KT88	149
GXE15	1439	HY90	298	KTW61	30
GXE30	1444	HY113	1096	KTW63	32
GXF5	1436	HY115	1097	KTW74M	25
GXF15	1441	HY123	1096	KTZ63	29
GXF17	1446	HY125	1101	KY50	339
GXF22	1443	HY145	48	KY80	340
GXF25	1442	HY145	1097	L63	311
GXU4	1211	HY155	1101	L77	128
GY86	554	HZ50	299	LC97	305
GY87	554	HZ90	299	LC97	500
GY501	898	IL861	518	LC900	770
GY802	554	ITK3-1	1173	LCC189	464
GZ30	284	ITK5-1	1176	LCF80	904
GZ31	301	ITK8-1	1167	LCF86	524
GZ32	285	ITK10-1	1214	LCF200	908
GZ33	285	ITK15-1	1187	LCF201	899
GZ34	286	ITK30-1	1188	LCF801	906
GZ37	86	ITK60-1	1181	LCF802	900
GZ40	533	ITK120-1	1169	LCH200	975
H2-10	747	ITK120-1	1215	LCL82	976
H63	312	ITL3-1	1171	LCL84	466
H81L	639	ITL5-1	1174	LCL85	977
HA2	278	ITL8-1	1165	LCL200	466
HAA91	406	ITL10-1	1189	LDR03	566
HABC80	288	ITL15-1	1186	LF183	470
HBC90	289	ITL30-1	1184	LF184	471
HBC91	290	ITS60-1	1285	LFL200	925
HCC85	567	ITS120-1	1286	LL86	469
HCH81	291	JN2-2.5W	1339	LL500	907
HD30	57	JP9-2.5E	1375	LL504	1115
HD51	459	JP9-75	1382	LL505	978
HD52	461	K3032	1403	LL509	1489

Type	Block No.	Type	Block No.	Type	Block No.
LL521	979	M8204	258	N155	151
LN119	398	M8212	115	N308	90
LN152	188	M8214	541	N309	377
LN309	369	M8223	459	N329	376
LN319	135	M8224	461	N339	375
LN329	373	M8232	557	N359	375
LN339	362	M8237	540	N369	368
LN369	368	M8245	221	N378	378
LY81	980	M8248	557	N379	378
LY88	901	M8248	1355	N389	379
LY500	981	ME1001	91	N709	219
LZ319	363	ME1401	1334	N727	221
LZ329	363	ME1403	1336	NL1061	1423
LZ339	367	ME1505	1199	NL1062	1424
M4-250A	1084	ML4-125A	1083	NU807	144
M4-400A	1226	MU14	255	NU813	1091
M575	1497	MV6-5	606	NU1106	1104
M833A	1180	MW6-2	1328	OA2	459
M5015	1429	MW18-2	430	OA3	598
M5053	1392	MW22-3	336	OA4G	791
M5055	1393	MW31-14	19	OB2	461
M5083	1498	MW36-24	326	OB3	641
M8063	198	MW43-64	15	OBC3	621
M8079	115	MW43-69	15	OC2	599
M8080	128	MW53-20	14	OC3	600
M8080	1366	MW53-80	14	OD3	458
M8081	178	MW61-80	480	OE3	94
M8082	565	N14	80	OF1	30
M8083	198	N15	79	OF5	25
M8091	235	N16	79	OG3	277
M8096	564	N17	52	OH4	26
M8096	587	N18	55	OM3	338
M8097	527	N19	54	OM5	30
M8100	213	N22LL	974	OM6	32
M8100	1362	N25	58	ORP12	566
M8121	168	N47	222	OSW2601	568
M8136	172	N63	36	OSW3106	1407
M8137	173	N66	250	OSW3110	655
M8138	241	N77	222	OZ4	1071
M8140	544	N78	318	P2-12	1250
M8142	1367	N118	89	P2-40B	1077
M8144	543	N119	399	P2-40B	1119
M8149	542	N142	429	P12/250	793
M8157	1287	N144	222	P27/250	792
M8161	199	N145	89	P120-2	1088
M8162	171	N147	248	P844	1412
M8167	532	N148	247	P860	1409
M8180	213	N150	252	P874	1413
M8190	563	N151	253	PA40	1332
M8195	196	N152	375	PABC80	347
M8196	512	N153	377	PB1/150	1455
M8196	1369	N154	376	PC1.5/100	1331

Type	Block No.	Type	Block No.	Type	Block No.
PC2/500	1088	PL17	794	QA2400	199
PC86	348	PL21	258	QA2401	128
PC88	349	PL36	302	QA2404	115
PC92	350	PL81	375	QA2406	171
PC93	351	PL82	376	QA2407	171
PC95	388	PL83	377	QA2407	241
PC97	352	PL84	378	QA2408	35
PC900	488	PL136	987	QB2/250	1091
PCC84	353	PL300	504	QB3/200	1242
PCC85	354	PL302	379	QB3/300	1086
PCC88	355	PL500	380	QB3/300GA	1083
PCC89	356	PL504	380	QB3.5/750	1254
PCC189	357	PL505	891	QB3.5/750GA	1084
PCC805	358	PL508	890	QB4/1100	1267
PCC806	359	PL509	891	QB4/1100GA	1226
PCE80	360	PL521	970	QB5/1750	1124
PCE82	361	PL800	971	QB5/2000	1280
PCE800	362	PL801	300	QBL3.5/2000	1279
PCF80	363	PL802	892	QBL4/800	1098
PCF82	364	PL820	375	QBL5/3500	1121
PCF86	365	PL1267	791	QBL5/4000	1269
PCF87	366	PL5822	1256	QBW5/3500	1120
PCF200	550	PL6549	1242	QC05/35	1278
PCF201	551	PLL80	569	QE03/10	564
PCF800	367	PM84	387	QE04/10	1287
PCF801	487	PM95	972	QE04/10	1290
PCF802	482	PMO4	200	QE04/10	1298
PCF803	487	PMO5	213	QE05/40	1079
PCF805	345	PMO7	198	QE05/40F	1260
PCF806	487	PP3/250	793	QE05/40H	1255
PCF808	483	PP4/500	792	QE05/40K	1277
PCF812	931	PP60	250	QE06-50	144
PCH200	552	PX4	793	QE08/200	1266
PCL82	368	PX25	792	QE08/200H	1274
PCL83	369	PX25A	1332	QEL1/150	1085
PCL84	370	PY31	303	QEL1/150H	1248
PCL85	371	PY32	381	QEL2/200	1268
PCL86	372	PY80	382	QEL2/250	1092
PCL88	373	PY81	383	QEL2/275	1231
PCL800	374	PY82	384	QEL2/275H	1087
PCL801	135	PY83	334	AF408	68
PCL802	371	PY88	385	QL77	128
PCL805	371	PY301	405	QM556	241
PD500	889	PY500	237	QM557	213
PE1/100	1125	PY500A	237	QM558	512
PE81	344	PY800	383	QM559	115
PE06/40E	1284	PY801	386	QOC03/14	1275
PE06/40N	1284	PZ1-75	1331	QOC04/15	1251
PF86	346	PZ30	304	QQE02/5	1261
PF818	134	Q160-1	1086	QQE03/12	1249
PFL200	553	Q400-1	1267	QQE03/20	1257
PH4	92	Q450-1	1267	QQE04/5	1265

Type	Block No.	Type	Block No.	Type	Block No.
QQE04/20	1078	QY3-65	1242	RS631	1180
QQE04/20	1250	QY3-125	1086	RS685	1086
QQE06/40	1077	QY3-125B	1083	RS686	1254
QQE06/40	1119	QY3-1000A	1279	RS687	1124
QQV02-6	1261	QY4-250	1254	RS1002A	1267
QQV02-6	1363	QY4-400	1267	RS1003	1288
QQV03-10	1249	QY4-400B	1226	RS1006	1176
QQV03-20A	1257	QY4-500A	1098	RS1007	1086
QQV04-15	1250	QY5-500	1124	RS1009	1119
QQV06-40	1077	QY5-800	1280	RS1011L	1196
QQV06-40A	1119	QY5-3000A	1121	RS1011W	1197
QQV07-40	1077	QY5-3000W	1120	RS1012L	1143
QQV07-40	1119	QZ06-20	1278	RS1016	1180
QQV5-P10	1224	QZ77	198	RS1019	1257
QQZ03-10	1275	R3	973	RS1026	1246
QQZ03-20	1217	R10	479	RS1029	198
QQZ04-15	1251	R12	231	RS1029	1249
QQZ06-40	1289	R12A	231	RS1032C	1146
QS75/20	473	R14	304	RS1036	1201
QS83/3	277	R16	317	RS1041V	1139
QS92/10V	476	R17	418	RS1041W	1140
QS95/10	474	R18	235	RS1046	1208
QS150/15	475	R19	65	RS1072C	1164
QS150/40	459	R20	340	RS1082CL	1145
QS150/45	558	R52	285	RS1082CV	1147
QS1200	95	R52	321	RS1082CW	1144
QS1205	598	R144	198	RS2001V	1133
QS1206	600	R243	91	RS2001W	1138
QS1207	459	RE1	686	RS2002V	1291
QS1208	461	RE2	1027	RS2002W	1150
QS1210	459	REL10	1388	RS2021L	1292
QS1211	461	RG1-250	1212	RS2021V	1130
QS2404	115	RG4-3000	1308	RS2021W	1293
QS2406	171	RG250/1000	1212	RS2022CL	1237
QU78	241	RK28	1088	RS2031V	1131
QV1-150A	1086	RK31	1090	RS2031W	1132
QV1-150D	1248	RK36	1459	RS2032CL	1239
QV2-250C	1231	RK39	144	RS2041V	1149
QV03-12	564	RK49	1460	RS2041W	1148
QV03-12	587	RK51	1454	RS2051V	1142
QV04-7	1290	RK57	1093	RS2051W	1141
QV05-10	1081	RK58	1094	RS3025CJ	1214
QV05-10	1247	RK61	1045	RS3025CL	1189
AV05-25	144	RK807	144	RS3026CJ	1178
QV06-20	588	RPY25	566	RS3040CJ	1187
QV06-20	1079	RR3-1250B	1211	RS3040CL	1186
QV06-20B	1260	RS2	284	RS3060CJ	1188
QV06-20C	1255	RS330CV	1294	RS3060CL	1184
QV08-100	1266	RS612	1276	RY12-100	1351
QV08-100B	1240	RS613	1208	SP6	198
QW77	199	RS614	1276	SR2	277
QY2-100	1091	RS630	1246	SR3	641

Type	Block No.	Type	Block No.	Type	Block No.
SR55	461	TBL6/4000	1270	TY2-150	1276
SR56	459	TBL6/6000	1253	TY3-250	1246
SRS360	1246	TBL7/8000	1263	TY4-350	1180
SRS361	1208	TBL7/9000	1282	TY4-400	1246
SRS362	1180	TBL12/25	1259	TY4-400C	1202
SRS455	1086	TBL12/38	1272	TY4-400C	1296
SRS456	1254	TBL12/40	1198	TY4-500	1180
SRS457	1124	TBL12/100	1123	TY5-500	1201
SRS4451	1119	TBW6/3	1271	TY5-500	1337
SRS4452	1257	TBW6/14	1271	TY6-12A	1196
ST90K	1335	TBW6/20	1197	TY6-12W	1197
STR85/10	277	TBW6/6000	1252	TY6-800	1213
STR108/30	461	TBW7/8000	1262	TY6-1250A	1270
STR150/30	459	TBW7/9000	1281	TY6-3000A	1195
STV85/10	277	TBW12/25	1258	TY6-3000A	1297
STV108/30	461	TBW12/38	1273	TY6-5000A	1253
STV150/30	459	TBW12/100	1122	TY6-5000B	1241
SU61	231	TC2-250	1246	TY6-5000H	1161
T2M05	178	TC2-3000	1246	TY6-5000W	1252
T60	1095	TD1-100C	1405	TY7-6000A	1263
T77	690	TD2-300A	1264	TY7-6000H	1157
T130-1	1276	TD2-400A	1210	TY7-6000W	1262
T250	1326	TD2-500A	1209	TY8-15H	1156
T300-1	1180	TD03-10	91	TY8-15W	1271
T350-1	1246	TD03-10D	1207	TY8-150A	1194
T380-1	1246	TD03-10E	1206	TY8-6000A	1282
T500-1	1180	TD03-10F	1205	TY8-6000H	1158
T813	1091	TD04-20	1204	TY8-6000W	1281
TA12/20000K	1203	TG3000	1420	TY12-20A	1272
TAL12/20	1295	TH302	1151	TY12-20H	1193
TAW10/10	1462	TH306	1151	TY12-20W	1273
TAW12/20	1203	TH308	1153	TY12-25A	1259
TB2.5/300	1208	TH316	1151	TY12-25W	1258
TB2.5/400	1276	TH326	1151	TY12-50A	1123
TB3/750	1246	TH328	1153	TY12-50H	1192
TB4/1250	1102	TH813	1091	TY12-50W	1122
TB4/1250	1180	TH6250	1464	TY12-120W	1140
TB4/1500	1201	TH6907	1420	U25	339
TB4/1500	1337	TH7030	1310	U26	340
TB5/2500	1213	TH7040	1313	U43	231
TBH2/38	1159	TQ2/6	1200	U47	339
TBH6/14	1156	TT10	1091	U49	340
TBH6/6000	1161	TT15	1250	U50	321
TBH7/8000	1157	TT15	1458	U52	286
TBH7/9000	1158	TT16	1083	U54	86
TBH12/10	1192	TT20	1257	U70	254
TBH12/38	1193	TT21	756	U74	28
TBL2/300	1264	TT22	741	U76	28
TBL2/400	1210	TX2/3	1349	U78	241
TBL2/500	1209	TX12-20	1295	U82	21
TBL6/14	1194	TX12-20W	1203	U118	287
TBL6/20	1196	TY2-125	1208	U119	402

Type	Block No	Type	Block No.	Type	Block No.
U142	287	UCH81	397	VT144	1091
U143	34	UCL82	398	VT199	144
U145	287	UCL84	411	VT259	1119
U147	254	UF41	427	VT286	1250
U149	21	UF42	428	VT510	1298
U150	255	UF80	412	W17	44
U151	231	UF85	413	W25	46
U152	382	UF89	414	W63	32
U153	383	UF183	421	W76	25
U154	384	UF184	422	W77	199
U191	405	UL41	429	W81	316
U192	384	UL84	399	W118	427
U193	386	UM34	256	W119	133
U201	539	UM35	404	W142	427
U250	383	UM80	400	W143	316
U251	334	UM81	415	W145	427
U291	381	UM84	416	W147	163
U309	382	UQ80	417	W148	316
U319	384	UU5	968	W149	22
U329	334	UU9	255	W150	164
U339	405	UU12	240	W651	1310
U349	386	UV216/B	1027	W719	195
U381	402	UY41	287	W727	200
U404	287	UY42	287	W729	132
U707	241	UY82	401	W739	131
U709	240	UY85	402	WD119	392
U718	255	UY89	403	WD142	423
UAA91	406	UY807	144	WD150	271
UABC80	389	V2M70	241	WD709	121
UAF41	631	V41	1113	WL630/A	858
UAF42	423	V51	533	WL655	1313
UB91	406	V61	968	WL679	1314
UBC41	424	V177	199	WL681	1312
UBC80	390	V311	287	WL686	1312
UBC81	390	V312	287	WL807	144
UBF80	391	V503	1332	WL813	1091
UBF89	392	V741	128	WT6	250
UC88	393	V884	199	WT210-0003	849
UC92	407	V886	222	WT210-0004	858
UC95	420	V987B	474	WT245	849
UCC84	408	VH03	1249	WT246	858
UCC85	394	VP6	199	WT261	338
UCC88	409	VP12D	967	WT263	511
UCC89	395	VR75/30	598	WT269	600
UCC189	396	VR90	641	WT270	686
UCF80	410	VR105/30	600	WT294	458
UCH21	640	VR150	458	WT301	686
UCH41	630	VT60A	144	WT308	254
UCH42	426	VT79	144	WT377	1075
UCH43	426	VT88/A	1250	WT389	79
UCH71	640	VT100/A	144	WT390	311
UCH80	969	VT118	1250	WT606	258

Type	Block No	Type	Block No	Type	Block No.
WTT100	241	XCC189	434	XR1-6400A	1347
WTT102	321	XCF80	442	XW1050	1479
WTT103	338	XCF82	452	XXB	847
WTT114	1071	XCF801	909	XXD	853
WTT115	658	XCH81	443	XXFM	965
WTT122	642	XCL82	435	XXL	825
WTT123	36	XCL84	444	XY88	439
WTT124	1074	XCL85	905	XY1414	70
WTT125	855	XCL86	451	Y25	58
WTT126	562	XF80	445	Y61	263
WTT127	1102	XF85	446	Y63	263
WTT128	160	XF86	447	Y64	263
WTT129	311	XF94	436	Y119	400
WTT130	1072	XF183	448	YC88	462
WTT131	690	XF184	449	YC95	305
WTT132	791	XFR2	76	YC97	500
WTT135	301	XFR3	570	YCC89	463
X14	77	XG1-2500	1357	YCC189	464
X17	49	XG2-500	1199	YCF86	524
X18	50	XG2-6400	1200	YCL82	465
X20	50	XG5-500	1356	YCL84	466
X25	51	XG15-10	1371	YCL86	467
X61M	160	XGQ2-6400	1364	YD1000	1293
X63	92	XH3-045	1365	YD1001	1292
X64	93	XJ1160	1477	YD1002	1130
X65	160	XL36	437	YD1010	1140
X71M	26	XL84	450	YD1012	1139
X73M	314	XL86	438	YD1030	1138
X76M	26	XL136	453	YD1032	1133
X77	215	XL500	454	YD1090	1132
X79	320	XP1000	1467	YD1092	1131
X81M	324	XP1001	1469	YD1120	1116
X107	966	XP1002	1478	YD1120	1241
X118	455	XP1004	1486	YD1130	1082
X119	397	XP1005	1480	YD1150	1171
X142	426	XP1030	1472	YD1151	1172
X143	159	XP1110/1	1471	YD1152	1173
X145	455	XP1112	1473	YD1160/1	1174
X147	160	XP1115	1482	YD1161	1175
X148	324	XQ1010	1488	YD1162	1176
X150	161	XQ1030	1304	YD1170	1165
X155	142	XQ1032	1372	YD1171	1166
X719	186	XQ1040	1301	YD1172	1167
X727	215	XQ1040	1304	YD1173	1177
XAA91	431	XQ1040/2	1307	YD1175	1189
XB91	431	XQ1050	1301	YD1177	1214
XC88	440	XQ1050/2	1302	YD1180	1182
XC95	432	XQ1052/3	1305	YD1182	1178
XC97	499	XR1-12/A	1464	YD1185	1186
XC900	745	XR1-1600A	1352	YD1187	1187
XCC82	433	XR1-3200A	1349	YD1192	1179
XCC89	441	XR1-6400	1348	YD1195	1184

Type	Block No.	Type	Block No.	Type	Block No.
YD1197	1188	YL1091	1291	Z71U	1342
YD1202	1181	YL1100	1221	Z77	198
YD1203	1285	YL1101	1222	Z90	242
YD1212	1169	YL1102	1484	Z142	428
YD1213	1286	YL1103	1483	Z145	456
YD1220	1202	YL1110	1223	Z150	165
YD1220	1296	YL1112	1487	Z152	194
YD1230	1195	YL1120	1137	Z303C	1368
YD1230	1283	YL1121	1168	Z319	419
YD1230	1297	YL1130	1135	Z329	134
YD1250	1141	YL1150	1127	Z504S	1354
YD1260	1148	YL1170	1100	Z550M	1346
YD1262	1149	YL1181	1143	Z700U	1341
YD1300	1151	YL1182	1155	Z700W	1340
YD1301/2	1151	YL1190	1128	Z710U	1342
YD1330	1152	YL1200	1288	Z719	194
YD1331	1153	YL1210	1225	Z729	196
YD1332	1152	YL1220	1126	Z749	210
YD1333	1153	YL1230/1	1164	Z800U	1474
YD1342	1215	YL1240	1227	Z801U	1475
YD1343	1286	YL1250	1228	Z803U	1338
YD1343	1294	YL1270	1129	Z804U	1343
YD1352S	1183	YL1280	1229	Z805U	1344
YF183	470	YL1290	1240	Z900T	1335
YF184	471	YL1300	1163	Z15048	1202
YJ1010	1373	YL1310	1160	ZA2	273
YJ1011	1381	YL1320	1230	ZB120	1450
YJ1030	1379	YL1321	1154	ZD17	40
YJ1040	1134	YL1330	1201	ZD25	42
YJ1060	1359	YL1340	1117	ZD152	121
YJ1160	1339	YL1341	1232	ZM1020	1136
YJ1162	1380	YL1360	1170	ZM1020	1350
YJ1350	1470	YL1370	1233	ZM1050	1299
YJ1360	1465	YL1371	1234	ZM1070	1354
YL84	468	YL1372	1235	ZP468	1325
YL86	469	YL1380	1146	ZP527	1322
YL1000	1216	YL1420	1236	ZT1000	1353
YL1010	1144	YL1430	1237	ZT1001	1303
YL1011	1145	YL1440	1238	ZT1011	1352
YL1012	1147	YL1460	1267	ZX106L	1256
YL1020	1217	YL1470	1239	ZX1051	1374
YL1030	1289	YL1520	1185	ZX1052	1376
YL1060	1218	YY88	157	ZX1053	1377
YL1070	1219	Z14	74	ZX1061	1358
YL1071	1220	Z63	29	ZX1062	1485
YL1080	1190	Z70U	1341	ZY1001	1481
YL1090	1150	Z70W	1340	ZZ1000	1345

# COMMERCIAL EQUIVALENTS

<b>1</b>	<b>10</b>	<b>20</b>	CV703	CV1195	CV1186
6CR4	23AJP4	35L6	CV910	CV1941	CV1911
A2521	23AMP4	50C6	CV3927	CV1942	CV1912
CV2453	23AQP4	50L6	OH4	CV1943	CV1938
	23DKP4	KT71		OM6	CV1940
<b>2</b>	23PCP4	CV561	<b>27</b>	<b>33</b>	<b>37</b>
6CT4	AW59-90	CV562	25A6	6Q6	6086
A2599	C23/7A	CV571	25C6	6T7	18042
CV5242	C23AK	CV2534	KT33	6V7	
	CME2302		CV503	DH73	<b>38</b>
<b>3</b>	<b>11</b>	<b>21</b>	CV549	CV500	6924
A47-13W	23DKP4A	7Y4	CV550	CV870	EA52
CME 1906	A59-15W	7Z4		CV2909	CV5140
	AW59-91	EZ22	<b>28</b>		
<b>4</b>	AW59-91	U82	35Z4	<b>34</b>	<b>39</b>
23DGP4	C23/10A	U149	U74	AZ31	1A3
23DHP4	CME2303	CV346	U76	U143	1D13
A59-13W		CV901	CV2500	CV2862	DA90
A59-16W	<b>12</b>	CV1790			CV753
C23/10AP	7701A	CV3919	<b>29</b>	<b>35</b>	<b>40</b>
CME2306	A59-15W		6J7	6CC10	1FD9
	AW59-95	<b>22</b>	1223	6H8C	1S5
<b>5</b>	CME2301	7AG7	A863	6SN7	DAF91
17CVP4		7AH7	1620	5692	ZD17
AW43-88	<b>13</b>	7B7	6054	6180	CV784
C17AA	17BTP4	W149	7000	B65	
CME 1706	17DJP4	CV522	KTZ63	ECC33	<b>41</b>
	AW43-80		Z63	ECC32	1DN5
<b>6</b>	<b>14</b>	<b>23</b>	CV657	CV181	1U5
19BAP4	21CJP4	7B6	CV1074	CV278	DAF92
19BCP4	C21KM	7E6	CV1935	CV1988	CV3912
AW47-90	MW53-20	DH81	CV1936	CV3627	
C19/7A	MW53-80	DL82	CV1937	CV3942	
C19AK		CV882		QA2408	<b>42</b>
CME1902	<b>15</b>	CV891	<b>30</b>		1AF5
	17BQP4		6S7	<b>36</b>	1AG5
<b>7</b>	MW43-64	<b>24</b>	KTW61	6F6	1AH5
19ALP4	MW43-69	12Q7	CV1100	6K6	1AJ5
19AQP4		DH76	CV1974	6V6	2E41
19BEP4	<b>16</b>	DL74M	CV1975	1611	2E42
AW47-91	21CLP4	DH74	OF1	WTT123	CK551
C19/10A	21ENP4		OM5	1613	1AK5
CME 1903	AW53-80	<b>25</b>		1622	1AR5
		12J7	<b>31</b>	5871	1FD1
<b>8</b>	<b>17</b>	12K7	6574	5992	DAF96
7601A	14AHP4A	KTW74M	EN32	7184	ZD25
A47-14W	AW36-80	W76	CV2253	7408	CV9024
AW47-97		CV917		KT63	
CME 1901	<b>18</b>	CV918	<b>32</b>	N63	<b>43</b>
	24AXP4	OF5	6K7	CV509	3A5
<b>9</b>	AW61-88	<b>26</b>	6M7	CV510	DCC90
21DKP4		12A8	6U7	CV511	CV808
AW53-88	<b>19</b>	12K8	5732	CV653	
C21/7A	12XP4A	X71M	KTW63	CV658	<b>44</b>
C21AA	MW31-74	X76M	W63	CV731	1F3
CME 2103			CV706		

1T4	DK96	59	68	76	83
DF91	X25	1N3	1AD4	5678	6197
W17	CV9026	DM71	DF62	XFR2	DL700
CV785	52	60	DF652	DF60	84
CV1971	1P10	6977	DF668	DF654	1AU3
45	3S4	DM160	CV2237	DF669	1B3
1AE4	DL92	CV5412	CV4094	CV2254	1G3
1F2	N17	CV6094	QF408	CV4093	1J3
1L4	CV484	61	69	CK569	1K3
DF92	CV820	1AX2	6373	77	1N2
CV1758	CV2370	1H2	DL70	1A7	8016
CV2742	53	IRK23	CV2105	1B7	DY30
CV2795	3A4	1S2	70	DK32	CV541
46	DL93	DY86	5672	X14	CV1830
1AF4	E1485	62	DL69	CV760	85
1AJ4	1662	1R10	DL75	CV1800	1H5
1F1	CV807	1S2A	DL620	CV1802	DAC32
DF96	CV2300	DY87	DL652	78	HD14
W25	CV2390	CV10761	CV2238	1A5	CV1818
CV9025	54	63	CV4092	1T5	CV1820
47	1P11	1E3	XFY14	DL31	86
1AN5	3V4	DC80	71	CV755	GZ37
DF97	DL94	CV2171	5886	CV756	U54
48	N19	64	DF703	CV1829	CV378
1U4	CV1633	1S4	CV495	79	87
5910	CV2983	DL91	CK571	3B5	6SL7
HY145	55	CV783	72	3C5	6SU7
DF904	3Q4	65	6375	3Q5	5691
CV2507	DL95	1R6	DC70	N15	5755
49	N18	1R9	DC761	DL33	6113
1C1	CV818	HD93	CV2275	N16	6188
1R5	56	1X2	CV9260	CV819	ECC35
8022	1P1	DY80	73	WT389	CV569
DK91	3C4	R19	1V6	80	CV1985
X17	3E5	CV5032	DCF60	1C5	CV3705
CV782	DL96	CV5427	74	DL35	CV3755
50	N25	1BX2	1N5	N14	CV3985
1AC6	CV2361	66	IP5	CV1803	420A
1C2	57	5A/185K	DF33	CV1805	88
DK92	HD30	7721	Z14	81	DN143
X18	3B4	D3A	CV1821	1Q5	EBL21
X20	DL98	EL862	CV1823	DL36	EBL71
CV5172	CV2240	67	75	CV1824	89
51	58	3S4SF	5911	CV1826	10P13
1AB6	1M1	3W4	6008	82	N118
1C3	1M3	3Z4	DF67	5913	N145
DK97	DM70	34	DF167	6007	90
1H35	Y25	CV2980	25GF6	DL67	
				DL167	

30P4	98	E99F	6B32	119	QL77
N308	6084	CV3909	6D2	6AT6	V741
CV5265	E80F		6EB5	6BT6	6C4
	CV2729	107	D2M9	6066	5610
91		7534	D717	DH77	6100
5861	99	E130L	AA91E	EBC90	6135
DET22	6227		ED2		EC90
EC51	E80L	108	D27	120	L77
EC55		5062	DD6	6AQ6	M8080
R243	100	6829	QS2404	6AV6	CV133
TD03-10	6218	7062	QM559	6BC32	CV852
CV273	E80T	E180CC	5726	6BK6	CV2842
CV5956	CV5724	CV8431	6058	EBC91	CV4022
ME1001		CV9842	6097	CV2526	CV4058
	101		6663	CV2937	CV5183
92	5624	109	D77	CV9921	
6A8	E82M	E92CC	D152		129
6Q8		E99CC	E91AA		E86C
X63	102	ECC962	EAA91	121	EC8065
CV578	6689		EAA901	6N8	
PH4	18043	110	EAA901S	EBF80	
CV579	E83F	7119	EB91	WD709	130
CV580	CV9933	E182CC	M8079	ZD152	7751
CV3825		CV5188	M8212		E235L
	103	CV5766	CV140	122	
93	6922		CV283	6DR8	131
6L7	E88CC	111	CV2882	EBF83	6EC7
1612	CV2492	7737	CV4007		6F18
1225	CV2493	E186F	CV4025	123	W739
X64	CV5231	CV8667	CV5189	6DC8	
CV654	CV5472		CV8021	6FD12	132
CV1280	CV8065	112	CV8200	EBF85	6F20
CV1950	CV10320	6962	CV8224	7125	W729
CV1951		7308	CV8311	EBF89	
	104	CCa	CV10324		133
94	6BH6	E188CC	CV10328	124	10F18
85A1	6265	CV4108	QA2404	6Q4	12BX6
OE3	6661	CV4109		EC80	13EC7
CV431	7693	CV4110	116	CV1886	W119
	E90F	CV4111	6AK8		
95	CV3908	CV5354	6DT31	125	134
150B2		CV5467	6LD12	6R4	7ED7
6354	105		6R8	EC81	30F5
QS1200	1217	113	6T8	CV1865	PF818
CV2225	5915/A	7722	DH719	CV1888	Z329
	6687	E280F	EABC80		
96	7036	CV10775		126	135
6085	E91H		117	6CM4	13GC8
E80CC	EH900/S	114	6GX8	EC86	30PL1
ECC87	EH960	7788	EAM86		30PL10
CV5989		E810F		127	LN319
	106	CV5809	118	6DL4	PCL801
97	6BJ6		6BD7A	EC88	
18048	6662	115	6LD13		136
C3M	7694	6AL5	EBC81	128	6AD8
				QA2401	EBF81

<b>137</b>	<b>144</b>	<b>EF89F</b>	<b>155</b>	<b>161</b>	<b>166</b>
6AJ4	CV1572	E89F	6063	6C9	6487
6AM4	4Y25		E90Z	6C10	EF70
EC84	5B/250A	<b>148</b>	EZ900	6CU7	CV467
CV5073	551	6AW6		7J7	
CV5126	807	6CB6	<b>156</b>	62TH	<b>167</b>
	5933	6CF6	6ER5	C610	5899
<b>138</b>	8018	6DC6	EC95	ECH42	5900
6AQ4	ATS25	6DE6		ECH43	EF71
6L34	P17A	6DK6	<b>157</b>	ECH113	EF731
EC91	QE06-50	6P4	22AQ3	X150	CV475
CV417	QV05-25	6676	YY88	CV897	CV477
CV4070	CV124	7732		CV3888	
	CV1364	EF190	<b>158</b>		<b>168</b>
<b>139</b>	CV1374	CV3995	6AS7	<b>162</b>	5840
6AB4	CV3517	CV8926	5998	7AD7	5901
6664	CV3809		6080	7AJ7	M8121
EC92	CV5246	<b>149</b>	6520	7AK7	EF72
	C350	6CA7	421A	7C7	EF732
<b>140</b>	HY61	7D11	A1834	7G7	EF762
6BS4	RK39	12E13	ECC230	7L7	CV465
EC93	A4051	6550	CV2523	7J7	CV8039
EC903	UY807	7027A	CV2984	7V7	CV9531
	VT60A	EL34	CV5008	1231	CV9915
<b>141</b>	VT79	KT88	CV8216	1232	
6AF4	ATS25	CV1741	CV8232	EF22	<b>169</b>
6AN4	VT100/A	CV5220	CV8614	CV303	6488
6DZ4	VT199		CV10322	CV894	7433
6T1	GL807	<b>150</b>		CV1777	EF73
6T4	WL807	6M5	<b>159</b>	CV2707	CV466
EC94	NU807	EL80	ECH21		CV4502
CV3808	RK807		ECH71	<b>163</b>	
CV3989		<b>151</b>	X143	9D4	<b>170</b>
CV5036	<b>145</b>	6BN5	CV5915	EF39	DH147
CV5074	6BH5	EL85		W147	EBC33
	EF81	N155	<b>160</b>	CV1053	CV1055
<b>142</b>		CV3526	6C31		
6BC8	<b>146</b>		6E8	<b>164</b>	<b>171</b>
6BK7	6CH6	<b>152</b>	6K8	6CJ5	12AT7
6BQ7A	7D10	12BV7	ECH33	6F15	6060
6BS8	6132	12BY7A	ECH35	6F16	6201
6BX8	EF82	12DQ7	X61M	7F16	6679
6BZ8	EL821	7733	X65	EF41	7492
X155	EL822	EL180	X147	W150	7728
6BZ7	CV2127		CV281	CV3886	E2157
6HK8	CV2382	<b>153</b>	CV1347	62VP	B739
6R-HH2	CV4055	6DU6	CV1581		A2900
ECC180	CV4056	EM85	CV1944	<b>165</b>	B152
CV5365	CV8045		CV1945	6F13	B309
X155	CV8076	<b>154</b>	CV1946	EF42	E81CC
	CV9331	6B3	CV2930	HF62	ECC81
<b>143</b>		6V3A	CV3826	Z150	ECC801
6AN7	<b>147</b>	EY81F	WTT128	CV1839	ECC801S
ECH80	6DG7	CV5021		CV3887	M8162

CV455	6057	6045	CV5948	8D6	6064
CV3508	7382	T2M05		EF80	R144
CV4024	7494	6099	<b>186</b>	EF800	RS1029
CV5212	B339	6101	6AJ8	EF860	SP6
CV5763	7729	6535	6C12	Z152	7498
CV8154	E283CC	6927	6CH40	Z719	EF91
CV8230	ECC83	ECC91	20D4	CV1376	M8083
CV9859	ECC803	M8081	ECH81	CV5092	Z77
CV10662	ECC803S	CV858	X719	CV5817	CV138
QA2406	ECC863	CV2843	CV2128	64SPT	CV1901
QA2407	M8137	CV4031			CV3539
QS2406	CV492	CV5046	<b>187</b>	<b>195</b>	CV4014
CC81E	CV4004	CV8160	6DS8	6BY7	CV8020
	CV4017	CV8231	ECH83	6F19	CV8732
<b>172</b>	CV8156			6F26	CV10327
6CC40	CV8222	<b>179</b>	<b>188</b>	EF85	
12AU7	CV8312	7316	6AB8	EF805S	<b>199</b>
5814	CV10319	ECC186	63TP	W719	6CQ6
E2163			ECL80	CV1375	6F21
5963	<b>174</b>	<b>180</b>	LN152		9D6
B749	6CW7	6DJ9	CV10740	<b>196</b>	6065
6067	6L16	6ES8		6BK8	EF92
6189	B319	ECC189	<b>189</b>	6CF8	M8161
6680	ECC84	CV5331	6BM8	6F22	W77
7489	ECC865	CV9838	6HC8	EF83	CV131
7730	CV5281		6HE5	EF87	QA2400
B329		<b>181</b>	6PL12	8D8	QW77
E82CC	<b>175</b>	5920	ECL82	6267	V884
ECC82	6AQ8	E90CC	CV9167	EF86	V177
ECC802	6CC43	ECC960	<b>190</b>	EF806S	E2016
ECC802S	6L12	CV5214	6DQ8	EF866	VP6
M8136	B719		6DX8	M8195	CV4015
CV491	ECC85	<b>182</b>	ECL84	Z729	CV8017
CV3900		6370		CV2901	
CV4002	<b>176</b>	E1T		CV4085	<b>200</b>
CV4003	6GM8	CV5106	<b>191</b>	CV8068	6BA6
CV4016	6463		6GV8	CV8081	6BD6
CV4032	CC86E	<b>183</b>	ECL85	CV10098	6DG6
CV5146	ECC86	6AX8	ECL802	HP6	6F31
CV8155	ECC813	6BL8	ECL805		PM04
CV8221	CV5394	6C16		<b>197</b>	5749
CV9092		6GJ8	<b>192</b>	6DA6	6660
CV10323	<b>177</b>	6HL8	6GW8	EF89	EF93
CV10666	6DJ8	7643	ECL86	CV5156	W727
	ECC88	ECF80	CV8297		CV454
<b>173</b>	CV5358	CV5215		<b>198</b>	CV4C79
6L13		CV10726	<b>193</b>	5A/160H	CV5037
12AD7	<b>178</b>		6F28	5A/160K	CV8202
12AX7	6CC31	<b>184</b>	EE80	6AM6	CV10492
12BZ7	6J6	6HG8		6F11	
12DF7	6M-HH3	ECF86	<b>194</b>	6F12	<b>201</b>
12DM7	5844		6BW7	PM07	6CQ8
12DT7	1216	<b>185</b>	6BX6	8D3	6EA8
5751	5964	18D3	6F41	QZ77	6GH8
E2164	6030	ECF804	6P6	6024	6KD8
					6MG8

6MQ8	207	CV4010	7189	223	232
6LM8	6EJ7	CV5216	7320	6DL5	6U3
6TP1	6F30	CV5893	E84L	EL95	EY80
6TP21	EF184	CV8159	EL84	CV8458	
6U8	CV5810	CV8225	EL84S		233
6678		CV10100	N709	224	6R3
7731	208	CV10442	CV2975	6FV5	EY81
ECF82	6F25		CV5451	EL136	CV5905
CV6065	EF811	214	CV8069		
CV9858		6BY6	CV10321	225	234
	209	6CS6		6GB5	6N3
202	6BD7	EH90	220	EL500	EY82
6AU6	EBC80		6CW5	EL502	
6P2		215	EL86	EL504	235
6136	210	6BE6	CV5094	EL511	6374
7543	6EL7	6H31	CV8069		6443
EF94	6F23	5750		226	EY84
CV2524	EF812	5760	221	6686	M8091
CV2990	Z749	EK90	6AQ5	E81L	R18
CV4023		X77	6BM5	EL861	CV2235
CV5896	211	X727	6HG5		CV4044
CV8210	6F24	HM04	6L31	227	CV8731
CV8246	EF814	CV453	6P9	6BR5	
CV8249		CV4012	6005	65ME	236
CV8403	212	CV5895	6094	6M40	6AX2N
CV9843	5A/170K	CV8201	6095	EM80	6S2
	6688	CV8227	6096	CV1352	6S2A
203	E180F	CV8248	6669		L786
6AG5	EF861	CV10496	6699	228	EY87
6BA8	CV3998		6928	6DA5	EY802
63T1		216	EL90	EM81	CV2966
6BC5	213	6CJ6	N727	CV5055	
6CE5	6AK5	6DR6	BPM04		237
401A	6F32V	EL81	M8245	229	42EC4
5590	403A	EL820	CV1862	6FG6	PY500
6185	403B	CV2721	CV2883	6R-E13	PY500A
6186	714A	CV10326	CV4019	EM84	
EF96	1385HQ		CV5190	EM840	238
CV846	5591	217	CV8229	CV5434	6AL3
	731A	6DYS			EY83
204	5595	EL82	222	230	EY88
6ES6	5608		6AM5	6BE7	CV19745
EF97	5654	218	6P17	EQ80	
	QM557	6CK6	7D9		239
205	6069	EL83	V886	231	6V4
6ET6	6968	EL803	EL91	6W2	EZ80
6FD6	DP61	EL803S	N47	6X2	CV1535
EF98	PM05	EL863	N77	EY51	
CV8694	E95F	CV2726	DD7	R12	240
	EF95	CV5093	N144	U43	6BW4
206	EF905		CV136	U151	6CA4
6EH7	M8100	219	CV4063	R12A	EZ81
6F29	M8180	6BQ5	CV8018	SU61	U709
EF183	CV116	6L40	DDR7	U151	UU12
CV5831	CV2877	6P15		CV426	CV3996
					CV5072

<b>241</b>	CV476	CV2714	<b>256</b>	6T5	<b>270</b>
QM78	CV4503	CV2796	12CD7	6U5	6489
QM556		CV2817	UM34	EM35	EA76
U707	<b>247</b>	CV3618		Y61	CV469
WTT100	7B5	CV3899	<b>257</b>	Y63	CV8041
M8138	7C5	CV5118	5643	Y64	
QA2407	EL22	CV5306	EN70	CV504	<b>271</b>
V2M70	KT81		CV474	CV1103	6CT7
E902	N148	<b>251</b>	CV5079	CV2747	EAF41
6BX4	CV304	5P29			EAF42
6X4	CV880	6CN6	<b>258</b>	<b>264</b>	WD150
6Z31	CV881	EL31	2D21	64ME	CV3883
5993	CV885	EL36	ASG512	6AF7	
6202	CV886	CV450	20A3	6CD7	<b>272</b>
EZ90		CV2888	5727	6M1	62DDT
U78	<b>248</b>	CV8038	5757	EM34	6CV7
CV493	6AG6		E91N	CV394	6LD3
CV3734	6M6	<b>252</b>	EN91		DH150
CV4005	6P25	6CK5	M8204	<b>265</b>	DH718
CV5185	6PX6	BF61	CV797	5640	EBC41
CV8203	EL33	67PT	PL21	5902	CV3882
CV8223	KT61	EL41	CV4018	EL71	
CV8237	N147	N150	CV8158	CV4029	<b>273</b>
	CV1438	CV3889	CV10665		954
<b>242</b>	CV1853		WT606	<b>266</b>	4672
EF50	CV2938	<b>253</b>		6205	EIF
EF53		BF62	<b>259</b>	EF734	ZA2
Z90	<b>249</b>	EL42	5696	CV2432	CV1095
CV1091	6CM5	N151	EN92	CV3929	
CV1578	E236L	CV3890	CV3512		<b>274</b>
	EL36			<b>267</b>	6FC7
<b>243</b>	CV2940	<b>254</b>		5636	ECC89
6HU6		6X5	<b>260</b>	EF730	
EM84A	<b>250</b>	1274	AFX212	CV5928	<b>275</b>
EM87	6AL6	5838	6D4		8108
CV10407	6CN5	5852	EN93	<b>268</b>	DX145
	6L6	EZ35	CV1949	6BF7	EC57
<b>244</b>	1222	U70	CV8205	6BG7	8101
6/30L2	1614	U147		6021	EC157
6CG7	5881	CV572	<b>261</b>	ECC70	CV5397
6FQ7	5932	CV573	5641	CV3894	
6GA8	WT6	CV574	7436	CV3986	<b>276</b>
B729	7027	CV3943	EY70	CV8040	6K4
ECC804	7581	WT308	CV473	CV9093	5718
CV5264	EL35		CV4505	CV10553	5897
	EL37	<b>255</b>	CV5211		6778
<b>245</b>	EL39	6BT4		<b>269</b>	EC70
7118	KT66	EZ40	<b>262</b>	2B35	EC71
E181CC	N66	66KU	6AV4	6D1	EC760
	PP60	U150	6FX4	6DR4	CV468
<b>246</b>	CV586	U718	EZ91	380A	CV2855
6391	CV862	MU14		D61	CV3930
7434	CV1286	UU9	<b>263</b>	EA50	
EF74	CV1947	CV1855	6G5	CV375	<b>277</b>
CV472	CV1948	CV3891	6H5	CV1092	85A2
			6M2		

OG3	284	289	298	304	6J5
QS83/3	5Z4	9TP9	35R1	PZ30	6K5
SR2	GZ30	12AT6	35W4	R14	6L5
STV85/10	CV1863	12BT6	HY90		WTT129
STR85/10	CV2748	12DT1		305	WT390
AG2509	RS2	HBC90	299	3ER5	7193
CV449	52KU		12Z3	LC97	L63
CV9341		290	12X4	3ES5	CV581
278	285	12AV6	14Z3	3FH5	CV582
955	274	12BC32	HZ90	3FQ5	CV583
5731	54-KU	12BK6	HZ50	3GK5	CV860
1650	5Z4	HBC91	CV927	YC95	CV861
9002	GZ33				CV1067
EIC	53KU	291	300	306	CV1932
HA2	54KU	12AJ8	12FB5	6BR7	CV1933
CV664	RS2	12D8	30P12	8D5	CV1934
CV1059	5AQ4	HCH81	N369	6059	
	5V4		PL801	CV2135	312
	GZ32	292		CV4006	6BS7
279	CV285	12BA6	301	CV8047	8D7
6R7	CV593	12BD6	5AS4	CV8070	CV5086
DL63	CV729	12BZ6	274B		
CV1962	CV1864	12E4	WTT135	307	313
CV1963		12F31	HS2	13D3	6F5
CV1964	286	HF93	5AU4	6158	H63
CV2912	5AR4	CV1928	5DB4	CV2212	CV715
	5AW4		5R4	CV4068	CV1073
280	5AX4	293	5U4	CV8080	CV1908
1D5	5CG4	12AU6	5V3	CV10325	CV1909
1E5	5T4	12AW6	5Z10		CV1910
1K5	5W4	12ET1	5931	308	
1M5	GZ34	HF94	GZ31	1F5	314
KF35	U52	CV1961	CV575	1L5	6D8
CV764	CV842		CV717	KL35	6J8
CV765	CV1071	294	CV841	CV768	X73M
CV766	CV1377	12BE6	CV2835		CV859
40SUA	CV1846	12CS6	CV4026	309	CV1902
	CV1849	12H31	CV5181	6B6	
281		HK90	CV5477	6Q7	315
5721	287		CV8189	DH63	7C6
6681	31A3	295	CV8204	CV587	DH149
7025	U118	19AQ5	CV10330	CV588	CV887
E83CC	U142	HL90		CV589	
	U145		302	CV1887	316
282	U404	296	25E5		7A7
6B8	311SU	50C5	25F7	310	7H7
EBF32	UY41	HL92	PL36	12SN7	1273
CV501	UY42	CV1959	CV10341	12SX7	W81
CV1893	V311			13D2	W143
CV1894	V312	297	303	B36	W148
		30A5	25Y4	CV925	CV877
283	288	30C5	25Z4	CV3697	CV895
6AV3	19C8	HL94	PY31		
EY89	19T8		U31	311	317
	HABC80		CV3753	6C5	1T2

R16	<b>326</b>	<b>336</b>	<b>345</b>	<b>357</b>	<b>367</b>
U37	14KP4/A	C9A	7GV7	7ES8	9EN7
CV2289	MW36-24	CRM92/A	30C18	7T29	30C15
		MW22-3	PCF805	PCC189	LZ339
<b>318</b>	<b>327</b>	<b>337</b>	<b>346</b>	<b>358</b>	<b>368</b>
6BJ5	7205A	A59-14W	4CF8	7EK7	16A8
N78	CME1402	C23AKT	PF86	30L15	16TP6
CV3711		CME2307		B349	30PL12
	<b>328</b>		<b>347</b>	PCC805	LN369
<b>319</b>	7405A		9AK8		PCL82
12AH8	CME1703	<b>338</b>	PABC80	<b>359</b>	CV10726
20D3		OM3		30L17	N369
CV5317	<b>329</b>	WTT103		PCC806	
	7406A	WT261	<b>348</b>		<b>369</b>
<b>320</b>	CME1705	6H6	4CM4	<b>360</b>	LN309
6AE8		D63	4T2	30FL13	PCL83
V5115	<b>330</b>	EB34	PC86	PCE80	CV5144
X79	7530A	CV554			
	CME2101	CV1054	<b>349</b>	<b>361</b>	<b>370</b>
<b>321</b>		CV1301	4DL4	30FL12	15DQ8
6105	<b>331</b>	CV1929	PC88	PCE82	15TP7
6004	7502A	CV1930			PCL84
6087	C21TM	CV1931	<b>350</b>	<b>362</b>	
6106	CRM212		3AB4	9GB8	<b>371</b>
6853		<b>339</b>	PC92	30FL1	18GV8
5AZ4	<b>332</b>	2L2		LN339	18TP11
5Y3	7204A	KY50	<b>351</b>	PCE800	PCL85
6853	C14FM	U25	4AS4		PCL802
R52	CRM144	U47	PC93	<b>363</b>	PCL805
U50		CV5256		8A8	CV10707
CV1268	<b>333</b>		<b>352</b>	9A8	
CV1854	7404A	<b>340</b>	4FY5	9C8	<b>372</b>
CV1856	CRM172	2J2	PC97	9EA8	14GW8
CV4027		KY80		30C1	PCL86
WTT102	<b>334</b>	R20	<b>353</b>	LZ319	
	20Y40	U26	7AN7	LZ329	<b>373</b>
<b>322</b>	6134	U49	7CC40	PCF80	30PL14
13D1	PY83	CV5257	B139	CV8433	LN329
25SN7	U251		30L1		PCL88
CV523	U329	<b>341</b>	PCC84	<b>364</b>	
6042	CV5259	AW47-10	CV5192	9Q8	<b>374</b>
		CME1904		9U8	16GK8
<b>323</b>	<b>335</b>		<b>354</b>	PCF82	30PL13
CX506AX	6AC7	<b>342</b>	9AQ8	CV9934	PCL800
DL72	6AJ7	14ABP4A	PCC85	CV10782	
CV387	6F10	AW36-20			<b>375</b>
	1649	CV10206	<b>355</b>	<b>365</b>	21A6
<b>324</b>	1852		7DJ8	7HG8	21B6
7S7	CV660	<b>343</b>	PCC88	8HG8	21L40
X81M	CV747	14ABP4	CV10403	PCF86	N152
X148	CV849	AW36-21			N339
	CV3924		<b>356</b>	<b>366</b>	N359
<b>325</b>	CV3973	<b>344</b>	7FC7	30C17	PL81
10LD11		30F27	PCC89	PCF87	PL820
DL145		PE81			

CV5077	<b>383</b>	<b>391</b>	UM80	45DX8	<b>424</b>
213PEN	17R7	17C8	Y119	UCL84	10LD3
<b>376</b>	17Z3	171DDP	<b>401</b>	<b>412</b>	14L7
16A5	U250	17N8	55N3	19BW7	141DDT
16L40	PY81	UBF80	UY82	19BX6	DH118
30P16	PY800	<b>392</b>	<b>402</b>	UF80	DH142
N154	A61	10FD12	38A3	<b>413</b>	UBC41
N329	U153	19DC8	U119	19BY7	<b>425</b>
163PEN	CV10724	19FL8	U381	UF85	C12A
PL82	<b>384</b>	UBF89	UY85	<b>414</b>	CRM121/E
CV10709	19R3	WD119	<b>403</b>	12DA6	<b>426</b>
<b>377</b>	19Y3	<b>393</b>	31AV3	UF89	141TH
15A6	19SU	12DL4	UY89	<b>415</b>	14K7
N153	19Y40	UC88	<b>404</b>	19DA5	UCH42
N309	PY82	<b>394</b>	10M2	UM81	UCH43
N378	U154	10L14	19G5	<b>416</b>	X142
PL83	U192	28AQ8	19U5	12FG6	<b>427</b>
CV10710	U319	B109	UM35	13FG6	10F9
<b>378</b>	<b>385</b>	UCC85	<b>405</b>	UM84	12AC5
15BQ5	30AE3	<b>395</b>	19CS4	<b>417</b>	121VP
15CW5	PY88	22FC7	PY301	12BE7	UF41
30P18	CV10460	UCC89	U191	UQ80	HF121
N378	<b>386</b>	<b>396</b>	U339	<b>418</b>	W118
N379	PY801	21ES8	CV5258	6157	W142
PL84	U193	UCC189	<b>406</b>	R17	W145
<b>379</b>	U349	<b>397</b>	10D2	CV2218	<b>428</b>
30P19	<b>387</b>	10C14	12AL5	<b>419</b>	10F3
N389	9FG6	19AJ8	HAA91	6351	UF42
PL302	PM84	19D8	UAA91	Z319	Z142
<b>380</b>	<b>388</b>	UCH81	UB91	CV2276	<b>429</b>
27GB5	4FQ5	X119	<b>407</b>	<b>420</b>	45A5
28GB5	4GK5	<b>398</b>	9AB4	10ER5	BF451
PL500	4ER5	10PL12	UC92	UC95	451PT
PL504	PC95	48A8	<b>408</b>	<b>421</b>	N142
CV10725	<b>389</b>	50BM8	21CW7	19EH7	UL41
CV10955	10LD12	LN119	UCC84	UF183	CV1977
<b>381</b>	28AK8	UCL82	<b>409</b>	<b>422</b>	<b>430</b>
PY32	DH109	<b>399</b>	21DJ8	19EJ7	CRM71
U291	UABC80	10P10	UCC88	UF184	MW18-2
<b>382</b>	<b>390</b>	10P18	<b>410</b>	<b>423</b>	<b>431</b>
19U3	10LD13	45B5	27BL8	12S7	3AL5
19BD	14G6	45BQ5	UCF80	UAF42	XAA91
19W3	UBC80	N119	<b>411</b>	WD142	XB91
19X3	15BD7A	UL84	45DQ8	<b>432</b>	<b>432</b>
PY80	DH119	<b>400</b>	<b>412</b>	2ER5	2ES5
U152	UBC81	19BR5	<b>413</b>	2ES5	2FH5
U309			<b>414</b>		

2FQ5	444	455	KT32	469	479
2GK5	8DX8	10C1	CV551	10CW5	2T/270K
XC95	SCL84	X118	CV552	LL86	6305
		X145	CV553	YL86	HR1
433	445	456	CV1287		HR2
7AU7	3BX6	10F1		470	R10
XCC82	XF80	Z145		4EH7	CV261
				LF183	
434	446	457	461	YF183	480
4ES8	3BY7	89A1	108C1		C24KM
4KN8	XF85	7980	6074	471	MW61-80
4R-HH8		CV8462	6627	4EJ7	
XCC189	447		QS1211	LF184	481
	2HR8		SR55	YF184	6JX8
	XF86		STR108/30		ECH84
			HD52		
435	448	458	5860		482
8B8	3EH7	150C3	G108/1K	472	9JW8
8BM8	XF183	G160/3D	M8224	5A/157D	PCF802
8R-HP1		OD3	OB2	EF37A	
XCL82		QS150/40	QS1208	CV358	
		VR150	CV1833	CV5080	
		CV216	CV4028		483
436	449	CV685	CV4101	473	30FL14
3AU6	3EJ7	CV3979	CV8162	75B1	PCF808
3BA6	XF184	CV8152		QS75/20	
XF94		KD25		CV284	484
		WT294	462	CV434	6KH8
437	450		3DL4		ECLL800
13CM5	8BQ5		YC88	474	
XL36	XL84	459		150A2	485
		11TA31		QS95/10	6KX8
438	451	150C2	463	V987B	ECC808
8CW5	8GW8	150C4	5FC7	CV286	
XL86	XCL86	M8223	YCC89		486
		QS1210		475	6JW8
		SR56	464	150B3	ECF802
439	452	STR150/30	5ES8	QS150/15	
16AQ3	5CM8	HD51	YCC189	CV287	487
XY88	5CQ8	150C1	LCC189		8GJ7
	5GH8	AG2511		476	8GX7
	5MQ8	5856	465	7475	9GJ7
440	5CR8	6073	10BM8	QS92/10V	PCF801
2DL4	5EA8	6626	YCL82	CV188	PCF803
XC88	5GH8	G150/4K			PCF806
	5KZ8	OA2	466	477	
441	5U8	QS1207	10DX8	CK505AX	488
4FC7	XCF82	CV1832	LCL84	DF70	4HA5
XCC89		CV4020	YCL84	CV386	4HK5
		CV4100	LCL200	CV443	4HMS
442	453	CV8161			4HQ5
5RHP1	17FV5	CV10664	467	478	PC900
4BL8	XL136		10GW8	CK502AX	
XCF80			YCL86	2E35	489
				2E36	6HA5
443	454	460		DL71	6HK5
3AJ8	13GB5	25L6	468	CV385	6HMS
XCH81	12BB14	25W6	10BQ5		
	14GB5	6046	YL84		
	XL500	7561			

6HQ5 EC900	<b>502</b> 8254 EC1000	<b>512</b> 6AS6 6F33 5725 6187 7752 M8196 CV329 CV2523 CV2884 CV4011 CV4098 CV8054 CV8209 CV8226 CV8310 QM558	<b>519</b> 957 D1C CV2700	<b>529</b> ECH41 CF61	<b>540</b> F/5726 M8237 CV4049 CV8075
<b>490</b> 6HU8 ELL80 CV9196	<b>503</b> 8223 E288CC		<b>520</b> 958A D2C CV650 CV2701	<b>530</b> 1637 EL32 CV1052 CV5233	<b>541</b> F/6057 M8214 CV4035 CV8072
<b>491</b> 6GJ7 ECF801	<b>504</b> 35FN5 PL300 CV10783		<b>521</b> 959 D3F CV1794	<b>531</b> EL12/350 EL150	<b>542</b> F/6067 M8149 CV4034
<b>492</b> 6C15 ECF800	<b>505</b> 6GG6 EZ12		<b>522</b> 5642 DY70 CV2241 CV9685	<b>532</b> 7001 EL70 M8167 CV4067	
<b>493</b> 6U9 ECF201	<b>506</b> 6FN5 EL300	<b>513</b> 6AJ5 6F35 7755 CV995	<b>523</b> 30CW5 HL86	<b>533</b> GZ40 V51	<b>543</b> F/6060 M8144 CV4033
<b>494</b> 6X9 ECF200	<b>507</b> 2C40 EC560 CV2643	<b>514</b> 6AH6 6F36 6485 6845 CV2521 CV5450 CV8190 CV8208		<b>534</b> 4654 EL50 CV2941	<b>544</b> F6064 M8140
<b>495</b> 6L15 ECC805	<b>508</b> 2C39 EC562 CV3940 CV8207		<b>524</b> 5HG8 LCF86 YCF86		<b>545</b> 5893 A2317
<b>496</b> 6V9 ECH200	<b>509</b> 8255 8562 E88C EC8008S CV9155	<b>515</b> 6F40 EF804	<b>525</b> 956 9003 E2F CV649 CV665	<b>535</b> 4694 EL53	<b>546</b> 5876 A2351 CV10936
<b>497</b> 6W9 6Y9 EFL200				<b>536</b> 4699 EL54	<b>547</b> 5675 A2352
<b>498</b> 6FY5 EC97	<b>510</b> 6R-R8C 404A 5847 E182F CV3905	<b>516</b> 6CL6 6L43 2014 6197 6677 CV5041 CV8191	<b>526</b> 6A6 B63 CV1867	<b>537</b> 3D6 3LE4 3LF4 1299 CV815	<b>548</b> 5794 A2354
<b>499</b> 2FY5 XC97			<b>527</b> EAC91 M8097 CV137 CV4059 CV8019	<b>538</b> 6W7 8D4 CV512	<b>549</b> 5831 A2275
<b>500</b> 3FY5 LC97 YC97	<b>511</b> 6AW4 6Z4 CV619 84 98 WT263	<b>517</b> 417A 5842			<b>550</b> 8X9 PCF200
<b>501</b> 6C18 6GV7 ECF805		<b>518</b> 18046 1L861	<b>528</b> AA61 ECC40 CV3884	<b>539</b> CY31 U201	<b>551</b> 8U9 PCF201

552	562	6437	A47-14W	591	VR150/30
9V9	50B5	CV2239	CME1908	1AR5	CV686
PCH200	50F2			1S5SF	CV8157
	WTT126	571	583	592	WT269
553	563	6FW8	A47-11W	1AM4	601
16Y9	5783	6KN8	A47-17W	1T4SF	6BQ6
17W9	85A3	6R-HH8	A47-18W		6CU6
PFL200	M8190	572	A47-26W	593	6DQ6
	CV4066	3FX7	CME1905	1AS5	HD94
554	CV8239	3D-HH13	584	1U5SF	6G-B6
3S2			23DEP4	594	6G-B9
GY86	564	573	A59-11W	4BC8	CV5040
GY87	5763	6AF3	A59-12W	4BQ7A	602
GY802	6062	6BR3	CME2305	4BS8	12AK7A
	M8096	6R-K19	585	4BX8	7729
555	CV2129	574	23DFP4	4BZ7	603
7054	CV4039	6FX7	A59-15W	4BZ8	21E2P4
8077	CV8073	6D-HH13	CME2308	4R-HH2	AW53-89
556	QV03-12			5BK7A	
8233	QE03/10	575	586	595	604
ES5L		6223	C17FM	5J6	6CY5
CV5808	565	6225	CRM174	5M-HH3	6EA5
	6516	7432	587	596	6EV5
557	M8082	CV4501	5763	6AT7N	6FV6
6C31	566	576	QV03-12	6DT8	7717
6MH1	LDR03	12AF3	CV2129	597	605
6J4	ORP12	12BR3	CV8206	3A/167M	408A
8532	RPY25	12R-K19	CV9414	437A	6028
M8232	567	577	CV10331	E20C	606
EC98	17EW8	25BR3	M8096	CV5112	6SA7
M8248	HCC85	25R-K19	588	598	6SB7
CV1763	568	578	6146	5651	5931
CV5029	6AG7	6BZ7	2B46	OA3	CV1966
CV5311	OSW2601	6T27	QE05-40	KD21	CV1967
CV8192	6AK7	579	QV06-20	QS1205	CV3974
558	6L10	35B5	CV3523	VR75/30	MV6-5
G180/2M	CV366	35F4	CV8218	CV2573	607
QS150/45	CV1784	580	CV9839	CV3798	5744
559	CV1882	13D7	589	599	6151
8436	CV3978	ECC801	12BR7	G75/4K	CK619
EC158	569	581	14GT8	OC2	6190
560	12HU8	A40-11W	8447	600	CV163
8556	PLL80	CME1601	590	G105/1D	CV8324
EC8010	570	582	1AQ5	OC3	CV10318
561	5676	19CTP4	1H33	KD24	608
35A3	5950		1R5SF	QS1206	2C51
35C3	CK556				6CC42
35R2	6050				
35X4	XFR3				

396A	6U4	623	6397	CV866	18GD6
1219	6W4	17QP4		CV3699	19M-R9
6185	CV732	MW43-61	633	CV8619	19MR19
6385	CV5287		DX144		
5670		624	EC56	643	653
6386	616	25B6		2A3	12G-B3
CV2831	7E5	5824	634	5930	12GW6
CV2866	1201	CV939	EF36	CV1851	12GB7
CV5894	CV2704		EF37		
CV8247		625	CV358	644	654
	617	25BQ6	CV1056	6SG7	12AX4
609	12B7	25CU6		6006	12D4A
1B5	14A7	25DQ6	635	CV1978	12DM4
1LH4	14C7	25G-B6	E81H		12G-K17
CV759	14H7	HD95	EH81	645	
CV780	14W7		CV8697	12AY7	655
	1280	626		6072	6E5
610	1284	25RE	636	CV3650	OSW3110
4BU8	CV1252	25Y5	5704	CV5391	6S5
4GS8	CV3935	25Z5	CK608BX		CV1906
4MK8		CV555	EA766	646	
4HS8	618	CV942	CV2847	5702	656
4KF8	12BF6			6148	1A4
	12BU6	627	637	CK605	1B4
611		35Z5	6BD4/A	6540	932
6AB7	619	40Z5	6BK4	CV3895	951
6SH7	12C5	45Z5	EC32	CV5057	1229
1853	12CV5	CV567	CV8430	CV5877	CV711
CV594	12R5	XV568		CV9088	CV754
CV595		CV2530	638		CV758
CV611	620		EFF50	647	
CV1873	12BQ6	628	EFF51	12BH7	657
CV5067	12CU6	50Y6		6913	117L7
	12DQ6	50Y7	639	CV5042	117M7
612	12G-B6	50Z7	18045		CV2556
6AU5	12G-B7	CV805	H81L	648	
6AV5				6DZ8	658
6BD5	621	629	640	6FY8	117N7
6FW5	12SQ7	5703	UCH21		117P7
CV9849	12SR7	6149	UCH71	649	CV2557
	12SW7	CV3917		6FH6	WTT115
613	OBC3	CV9916	641	6G-B3A	
6BF6	CV546	CK608CX	1266	6GW6	659
6BU6	CV547		OB3		12DW7
	CV700	630	SR3	650	7247
614	CV3666	CF141	VR90	6AU4	
6BW6	CV3980	UCH41	CV3799	6BL4	660
6061	CV3983			6G-K17	12DZ6
CV2136		631	642		12EA6
CV4043	622	D121	6SJ7	651	12EK6
CV8048	17C5	UAF41	5693	18AK5	
	17CA5		CV590	6028	661
615	17CU5	632	CV591		12G4
6AX4	17R5	5851	WTT122	652	12H4
6DA4		6147	CV592	18FW6	

662	672	10LW8	CV847	12EH5	708
6AD4	2CW4	10JA8			14E7
5637	2DS4	10JY8	689	697	14R7
5719		10JT8	6AD5	12CS5	CV3937
5898	673	10LZ8	6AE5	12DW5	
CV4008	6CW4	11KY8	6AF5		709
	6DS4	11LQ8	6P5	698	13DE7
663	CV10579	11JE8	CV1819	17L6	14B8
5633				17W6	15EW7
5638	674	682	690		710
6BA5	2CY5	ESU74	WTT131	699	14J7
	2EA5	V1922	T77	18FY6	14S7
664	2EV5		G77	18GE6	CV3936
5903		683	CK108		
6053	675	5BQ7A	6C6	700	711
	4EW6	5BS8	77	17CQ4	11C5
665	4GM6	5BZ7	1221	17DE4	12DM5
5905	4JK6		1603	19AU4	
5907	4JL6	684	7700		712
6056		5DJ4	CV585	701	10DR7
CV9726	676	5DN4	CV616	19CL8	10FD7
	5EW6		CV652	19JN8	10FR7
666	5GM6	685	CV1710		
5896	5JK6	5AT8	A677	702	713
6052	5JL6	5CG8		17BQ6	6AV11
CV2698		5DH8	691	17DQ6	6C10(USA)
	677	5FG7	6AF11	17GW6	6D10
667	6EW6		6AS11		6BK11
5904	6GM6	686	6BD11	703	6K11
6055	6JK6	5X3		35EH5	6Q11
	6JL6	3841	692	50CA5	CV9834
668		5Z3	6AM8	50EH5	CV9838
6320	678	80	6HJ8		
6321	1E4	83		704	714
	1G4	AG	693	32ET5	6AS5
669	1H4	213B	6AS4	34GD5	6CA5
2B26	CV1817	1275	6DM4	705	6CU5
866jr		CV617	6DQ4	26A6	6EH5
5695	679	RE1	6DT4	26CG6	
	1G5	CV618			715
670	1J5	WT270	694	706	4CF6
6AR6	CV771	CV1708	7E7	25AX4	4JH6
6098		WT301	7R7	25D4	4BZ6
7756	680	CV1861	CV892	25U4	4CB6
CV3613	50HC6		CV900	25W4	4DE6
CV5053	50HK6				4DK6
CV9010		687	695	707	
	681	6AB5	6Z5	21EC6	716
671	10EB8	6N5	12Z5	21EX6	4BC5
1C4	10LY8	CV843	CV871	25CD6	4CE5
1K4	10GN8			25DN6	
32	10KR8	688	696	25EC6	717
34	10HF8	6AD6	12AS5		6SR7
	10LB8	6AF6	12CA5		

6ST7	727	734	6EX6	CV3896	764
CV867	6SD7	6BZ6	CV5184	CV5058	3MR24
CV1995	6SE7	6HQ6	CV5729	CV9091	3MV7
CV1996	CV865	6JH6	7867		3BZ6
718	728	735	745	754	3CB6
6SQ7	6AU8	21F5	2HA5	12AE6	3CF6
6SZ7	6AW8	25C5	2HK5	12AJ6	3DK6
CV1990	6BH8	25CA5	2HM5	12FT6	
CV1991	6EH8	25EH5	2HQ5	755	765
	6JV8		XC900	3A3	13EM7
719	6KS8	736		3AW3	15EA7
6DG6	6LF8	3BE6	746	3B2	766
6W6		3BF6	2V2	3CA3	3BU8
	729	3BY6	3C2		3GS8
720	6AX3	3CS6		756	3HS8
10DE7	6BJ3		747	7623	3KF8
10EW7		737	2B21	TT21	
9RAL1	730	3CY5	879		767
	6BU8	3EA5	2X2	757	17AX4
721	6GS8	3EV5	2Y2	4HM6	17D4
8AU8	6HS8		CV597	4HT6	17DM4
8AW8	6KF8	738	CV1843	4JC6	17DQ4
8BA8	6MK8	4BE6	CV3748	4JD6	
8BH8		4CS6	H2-10		768
8JV8	731			758	3HM6
8KS8	6CX8	739	748	6BL7	3HT6
	6EB8	4FS7	3BC5	6BX7	3JC6
722	6KR8	4HG8	3CE5	6DN7	3JD6
8CX8	6KV8			CV5039	
8EB8	6LB8	740	749		769
8GN8	6LQ8	6D6	1L6	759	17AY3
8JE8	6LY8	78	1U6	19DE7	17BS3
	6GN8	CV1709		19EW7	17DW4
723	6HF8	CV1900	750	20EW7	17CK3
10EG7	6HZ8	CV2544	4AU6		17CL3
10EM7	6JA8		4BA6	760	
	6JE8	741		13DR7	770
724	6JT8	7624	751	13FD7	3HA5
12AC6	CV9855	TT22	6AY3	13FR7	3HK5
12AF6			6BA3		3HM5
12BL6	732	742	6BH3	761	3HQ5
	6BE8	6AT8	6BS3	17A8	LC900
725	6BR8	6CG8	6DW4	19EA8	
12CK3	6CL8	6FG7			771
12CL3	6FV8		752	762	6DR7
12AY3	6JN8	743	12AD6	3FSS	6FD7
12BS3		6CH7	12AG6	3GU5	6FR7
12DW4	733	6CX7	12EG6		
	6CM6		12FA6	763	772
726	6CS5	744		15HB6	6DE7
26B6	6CZ5	6BG6	753	16GK6	6EW7
26D6	6DW5	6CD6	5784		
		6DN6	6150		

773	785	794	804	815	CV1770
6CQ4	12E5	5644	2AF4	6FG5	CV1790
6DE4	12J5	PL17	2DZ4	6HS6	XXL
774	1626	CV3987	2T4	816	826
6CB5	CV534	795	805	6GD7	12AQ5
6CL5	CV535	436A	3AF4	6LJ8	12BM5
775	CV1755	A2647	3DZ4	6MB8	827
6F4	786	796	806	817	6CM8
6L4	12EN6	1LA6	5AV8	5EH8	6CR8
CV2939	12L6	1LC6	5B8	5X8	6CS8
776	1632	CV775	807	818	CV9837
6ES5	787	CV778	5CM8	6CH8	828
6FH5	12CX6	797	5CR8	6CU8	6JG6
777	12EZ6	1LC5	808	819	6JT6
6FQ5	788	1LG5	41	6C8	6JR6
6GK5	14GT8	1LN5	42	6F8	829
778	14JG8	CV777	CV608	CV1896	6EF6
6FG5	7724	CV781	CV609	CV1917	6EY6
6FS5	789	798	CV1712	CV1918	6EZ5
6GU5	15AF11	1LE3	809	820	830
779	15BD11	1LF3	9BR8	6BJ8	6EQ7
6GE5	790	1293	9CG8	6BN8	6KL8
6GF5	9BM5	799	9CL8	CV9856	831
780	9P9	1D8	810	821	6CS7
6EA7	791	1LA4	6AB6	6AU7	6CY7
6EM7	1267	1LB4	6N6	6AX7	6DA7
6GL7	OA4G	CV776	CV1953	CV5052	832
781	PL1267	800	CV1954	822	6DT5
6GX6	CV752	1ACS	811	12A6	6EM5
6GY6	CV1992	1V5	7A8	ABC91	833
6HZ6	WTT132	801	7B8	12V6	6DX4
782	792	1A6	CV878	CV525	6DY4
6HM6	DO24	1C6	CV883	CV526	834
6HT6	DO26	CV757	812	823	834
6JC6	P27/250	802	6U6	14AF7	6DY7
6JD6	PP4/500	1C7	6Y6	14N7	6DZ7
783	PX25	1D7	CV515	824	835
12FK6	CV1040	CV765	813	12DZ8	7A6
12FM6	CV1178	KK32	12EQ7	12FY8	5679
784	793	803	12KL8	825	CV876
12ED5	ACO44	1Q7	814	7A4	836
12FX5	P12/250	1S6	8CG7	7B4	1AH4
	PP3/250	1T6	8FQ7	CV879	1AK4
	PX4				
	CV1168				

837	849	858	867	876	886	897
1C8	WT245	2050	28D7	25A7	37	6EC4
1E8	6Q5	WT210-0004	1238	32L7	67	EY500
	884	WL630/A	CV945	CV937	76	EY500A
838	CV647	WT246	CV946	CV948	4611	
1F4	CV1815	1657			CV606	898
950	WT210-0003	1655	868	877	CV615	3BH2
2101		BA-2	5X4	6AR8		GY501
CV767	850	2051	5Y4	6JH8	887	
	14B6	CV1798	CV1851		30	899
839	14E6	CV2565	CV1852	878	31	5U9
1B8			CV1857	40A1	3872	LCF201
1D8(USA)	851	859		40B2	1230	
CV1811	25B5	12DL8	869		CV604	900
	43	12DV8	6A4	879	CV947	6LX8
840	CV2514		52	24A		LCF802
1R4		860		3924	888	
1294	852	12A4	870	4465	53	901
CV1709	14A5	12B4	2E31	35	5608	20AQ3
	14C5		2E32	51	CV2535	LY88
841		861	CK553	CV487		
1	853	12AV7		CV1752	889	902
1V	14F7	12AZ7	871		9ED4	1BQ2
6Z3	XXD	5965	6BC7	880	PD500	DY802
CV1999	CV930	12RLL3	6BJ7	2A6		
AD		CV5843	6GQ7	1659	890	903
	854	CV10175		5659	17KW6	6FL2
842	12L8		872	55	PL508	ECF812
2C21	1644	862	6D7	CV1769		
1642		6AX5	6E7	CV2537	891	904
CV875	855	6W5	CV1776		40KG6	6LN8
	6N7	6ZY5		881	PL505	LCF80
843	6Y7	CV873	873	35A5	PL509	
2E5	6Z7	CV8280	6SF7	50A5		905
2G5	1635		6SV7		892	9GV8
	CV872	863		882	16LD6	XCL85
844	CV1956	7AB7	874	50AX6	PL802	
2E3	CV1957	1204	12SG7	50Z6		906
5812	CV1958		12SH7		893	5GJ7
CV2517	WT125	864	12SJ7	883	6KG6	LCF801
		7AF7	12SK7	1AD5	EL505	5GX7
845	856	7F7	5661	1W5	EL509	
2Z2	3B7	7N7	CV543			907
G84	1288	CV893	CV544	884	894	18GB5
	1292	CV898	CV694	27	6KW6	LL500
846	1291		CV697	56	EL508	
3AV6	CV811	865	CV698	CV611		908
3BT6		7C4	CV922	CV944	895	5X9
	857	1203A	CV932		6LD6	LCF200
847	12SC7	CV2705	CV3651	885	EL802	
3C6	1634	CV2706		57		909
XXB	CV540			58	896	4GJ7
848	CV3938	866	875	CV612	8608	4GX7
5CM6		7G8	2C52	CV613	EL5070	XCF801
5CZ5		1206	12SL7			
			CV924			

<b>910</b> 6CD3 6CE3 6CG3	<b>922</b> 25UP22 A63-120X A63-11X CTA2550	<b>935</b> A40-12W/S CME1602/S	<b>949</b> A61-120W/S A61-130W CME2413S	<b>961</b> 6SK7 6SS7 6137 CV1981 CV1982	<b>974</b> N22LL 19FK6
<b>911</b> 6CH3 6CJ3	<b>923</b> 6AX3 6BW3 6BE3 6BZ3	<b>936</b> A44-120W/S CME1713S	<b>950</b> A65-11W/S CME2501S	<b>962</b> 8278 EL503	<b>975</b> LCH200 5V9
<b>912</b> 6MJ6 6JE6 6JF6 6LQ6 6KM6	<b>924</b> 6HA6 6HB6	<b>937</b> A47-13W/S CME1906S	<b>951</b> A31-181W CME1202	<b>963</b> 9GH8A 9RHH2	<b>976</b> LCL82 11BM8
<b>913</b> A31-18W CME1201	<b>925</b> 11Y9 LFL200	<b>938</b> A47-14W/S CME1908S	<b>952</b> A44-14W A44-120W CME1713	<b>964</b> 12RLL5 12FQ7	<b>977</b> LCL85 10GV8
<b>914</b> A40-12W CME1602	<b>926</b> 6J10 6Z10	<b>939</b> A47-15W/S CME1906AS	<b>953</b> 1BC2 1BH2	<b>965</b> XXFM 7X7	<b>978</b> LL505 27KG6
<b>915</b> A47-25W CME1907	<b>927</b> 13J10 13Z10	<b>940</b> A47-17W/S CME1905S	<b>954</b> 3AT2 3BL2 3BM2 3BN2	<b>966</b> 18FX6 X107	<b>979</b> LL521 21KQ6
<b>916</b> A47-28W CME1913	<b>928</b> 17AB10 17AX10	<b>941</b> A47-25W/S CME1907S	<b>955</b> 3CU3A 3DC3	<b>967</b> VP12D 12C8 5660 1664	<b>980</b> LY81 11R3
<b>917</b> A49-11X CTA1950	<b>929</b> 17BE3 17BZ3	<b>942</b> A47-28W/S CME1913S	<b>956</b> CK532DX DL650 CK542	<b>968</b> 6BT4 V61 UUS	<b>981</b> LY500 28EC4
<b>918</b> A50-12W A50-120W A50-130W CME2013	<b>930</b> 24JE6 24LQ6	<b>943</b> A50-120W/S CME2013S	<b>957</b> CK546DX DL651	<b>969</b> UCH80 14Y7	<b>982</b> PL136 35FV5
<b>919</b> A59-23W CME2313	<b>931</b> 30FL2 PCF812	<b>944</b> A59-12W/S CME2305S	<b>958</b> CK549 CK538DX DF650	<b>970</b> PL521 29KQ6	<b>983</b> ECF202 6AJ9
<b>920</b> A59-25W CME2312	<b>932</b> A31-18W/S/S CME1201/S	<b>945</b> A59-13W/S CME2306S	<b>959</b> CK549DX DF651	<b>971</b> PL800 16KG8	
<b>921</b> A65-11W CME2501	<b>933</b> A31-181W/S CME1202/S	<b>946</b> A59-15W/S CME2308S	<b>960</b> 12SA7 12SY7 CV537 CV538 CV3668	<b>972</b> PM95 6AK6	
	<b>934</b> A40-11W/S CME1601/S	<b>947</b> A59-23W/S CME2313S		<b>973</b> R3 1W4	

984	3DJ3	1008	1020	1032	1044
ED500	3CU3	6AG9	6LU8	22BW3	2G21
6ED4	3CV3	6AL9	6MY8	25CG3	2G22
985	3CZ3	1009	6JZ8		CK555
DY51	996	6CM3	1021	1033	1045
1BG2	36KD6	6DN3	8AR11	22JF6	CK1054
986	40KD6	1010	8BQ11	22KM6	RK61
E180L	997	6EA4	1022	1034	1046
7534	CME1520	6EH4	11AR11	22JG6	5854
987	A38-160W	1011	11BQ11	22JR6	CK503
6BN6	998	6EF4	1023	22JU6	CK518
6KS6	2AV2	6EJ4	12A	1035	1047
PL136	2BA2	1012	112A	24JZ8	CK509
988	999	6EL4	1024	25JX8	CK515
6CL3	2AZ2	6EN4	12AE10	1036	1048
6CK3	2BJ2	1013	13V10	28HD5	CK522
6CH3	1000	6HS5	1025	30HD5	CK528
6DW4	2FS5	6HV5	15AB9	1037	6088
989	2GU5	1014	17AB9	36	1049
6HZ5	1001	6JB5	1026	64	CK526
6JD5	3CX3	6JC5	15KY8	65	CK537
6JH5	3DF3	1015	15MX8	4610	1050
990	1002	6JH5	1027	1038	CK529
6LJ6	3DR3	6JK5	16	38HE7	CK535
6LH6	3DS3	6JDS	81	38HK7	1051
6LC6	1003	6HZ5	RE2	1039	CK533
991	4JW8	1016	UV216/B	39	CK536
12HG7	5JW8	6JS6	2935A	44	1052
12GN7	1004	6KD6	1028	1040	6418
992	5GS7	6LB6	16LU8	53HK7	CK548
17BR3	5LJ8	6LR6	16MY8	58HE7	1053
17RK19	1005	1017	1029	1041	5677
993	5GX6	6LF6	17AX3	82	CK568
2BU2	5HZ6	6LV6	17BE3	88	1054
2AH2	1006	1018	17BW3	1042	5697
994	6AC10	6LU6	19CG3	2A5	CK570
3BW2	6U10	6MU6	1030	95	1055
3BS2	1007	1019	17JG6	1043	5697
3BT2	6AD10	6LZ6	17JR6	BA	CK570
995	6T10	6ME6	17KV6	BH	1056
3DB3	1008	6JE6	1031	CK1009/A	5886
3CY3	1009	6MB6	21LU8		CK571
3A3	1010		21MY8		

1057 6029 CK573	1069 6542 CK1045	QE05/40 CV3523 QV06-20	3861B AX4-125A 7034 QV1-150A RS685 RS1007 SRS455	1094 838 RK58	1106 6SC7 1655
1058 6281 CK512 CK574	1070 7323 7979 CK1050	1080 2B22 559	1087 4CX250F QEL2/275H 7204	1095 8005 T60	1107 6JF6 6KM6
1059 5702 6148 6540 CK605 CK623	1071 CK1003 OZ4 WTT114	1081 2E24-26 CV3990 QV05-10	1088 803 RK28 PC2/500 P120-2	1096 HY113 HY123	1108 10KR8 10JY8 10LB8
1060 5704 CK606	1072 6G6 WTT130	1082 3-400Z YD1130 8163	1089 31Z 1231Z	1097 HY115 HY145	1109 50 3871
1061 5703 CK608 6149	1073 6GE8 7734	1083 4-125A 4D21/A 6155 QB3/300GA ML4-125A CV2963 QY3-125B TT16	1090 830B RK31	1098 4X500A QBL4/800 6F50R QY4-500A	1110 32 3873
1062 5744 6151 CK619	1074 7K7 WTT124	1084 4-250A 5D22 6156 QB3.5/ 750GA CV2964 5F22 M4-250A	1091 4B13 QB2/250 813 5C/100A CV26 3874A C143 NU813 QY2-100 WL813 TT10 TH813 T813 VT144	1099 4CX250FG 8621	1111 45 3921
1063 6247 CK628	1075 11726 WT377	1085 4F15R 4X150A QEL1/150 4H	1092 4H/160M 4X250B QEL2/250 CV2487	1100 4CX250R 7580W YL1170	1112 38 4612
1064 6436 CK1036	1076 2C22 7193	1086 6155 CV2130 QB3/300 C1108 E152A Q160-1 QY3-125 135M CV2519	1093 805 RK57	1101 HY125 HY155	1113 AZ41 V41
1065 5950 6437 CK1037	1077 2B29 2B94 5894/A QQE06/40 QQV06-40 QQV07-40 829B C144 P2-40B C178/A	1087 2B32 832A QQE04/20	1094 833A TB4/1250 WTT127	1102 833A TB4/1250 WTT127	1114 DF61 DF72
1066 5841 CK1038	1078 2B32 832A QQE04/20	1088 6155 CV2130 QB3/300 C1108 E152A Q160-1 QY3-125 135M CV2519	1095 805 RK57	1103 2B4 885	1115 18GB5A LL504
1067 6438 CK1039	1079 2B46 6146/A	1089 31Z 1231Z	1096 HY113 HY123	1104 6AZ6 C1106 NU1106	1116 7C24 5762 ACT20 BR132 BR191/B BTL2-1 YD1120
1068 6659 CK1042	1079 2B46 6146/A	1090 830B RK31	1097 HY115 HY145	1105 7W7 1282	1117 4CX350A 8321 YL1340

1118 356 5771 BW165	1124 6079 AX9908 QB5/1750 QY5-500 RS687 CV3522 SRS457	1136 8421 ZM1020	1149 RS2041V YD1262	1159 8594 TBH2/38	1170 8683 YL1360
1119 2B94 5894/A 9903 AX9903 C178/A QQE06-40 QQV06-40/A RS1009 4J CV2797 P2-40B CV2666 C144 829B GL829B QQV07-40 RS1009 SRS4451 VT259	1125 6083 AX9909 PE1/100	1137 8429 YL1120	1150 RS2002W YL1090	1160 8603 YL1310 DX274	1171 8728 YD1150 1TL3-1
1120 6075 AX9907 CW1100 QBW5/3500 QY5-3000W	1126 8577 YL1220	1138 RS2001W YD1030	1151 YD1300 YD1301/2 TH302 TH306 TH316 TH326	1161 8610 TBH6/6000 TY6-5000H BW1165J3	1172 8729 YD1151
1121 6076 AX9907R CR1100 QBL5/3500 QY5-3000A CV5219 ACS4	1127 8579 YL1150	1139 RS1041V YD1012	1152 YD1330 YD1332 8744	1162 8621 4CX250FG	1173 8730 YD1152 1TK3-1
1122 6077 AX9906 TBW12/100 TY12-50W	1128 8580 YL1190	1140 RS1041W TY12-120W YD1010	1153 YD1331 YD1333 TH308 TH328	1163 8637 YL1300	1174 8731 YD1160/1 BR1196 1TL5-1
1123 6078 AX9906R TBL12/100 TY12-50A	1129 8581 YL1270	1141 RS2051W YD1250	1154 4KC160M YL1321	1164 8654 RS1072C YL1230/1	1175 8732 YD1161 BW1196
	1130 RS2021V YD1002	1142 RS2051V YD1252	1155 RS1012V YL1182	1165 8666 YD1170 1TL8-1	1176 8733 YD1162 BW1196J3 1TK5-1 RS1006B
	1131 RS2031V YD1092	1143 RS1012L YL1181	1156 8591 TBH6/14 TY8-15H	1166 8667 YD1171	1177 8734 YD1173
	1132 RS2031W YD1090	1144 RS1082CW YL1010	1157 8592 TBH7/8000 TY7-6000H BW1162J3 TY7-6000H	1167 8668 YD1172 1TK8-1	1178 8735 YD1182 RS3026CJ
	1133 RS2001V YD1032	1145 RS1082CL YL1011	1158 8593 TBH7/9000 TY8-6000H	1168 8679 YL1121	1179 8736 YD1192
	1134 8356 YJ1040	1146 RS1032C YL1380		1169 8680 YD1212 BW1185 1TK120-1	1180 5T33 TB4/1250
	1135 8408 YL1130	1147 RS1082CV YL1012			
		1148 RS2041W YD1260			

868	1TK30-1	8T11R	1205	YD1177	C1136
T61R	RS3060CJ	8T20R	A2327	1TK10-1	CV3879
33A		8T30R	TD03-10F	RS3025CJ	QB4/1100GA
CV1351	1189	TBL12/40	1206	1215	YL1461
4833A	8952	TY12-15A	DET22E	8918	5F23
ES833/A	YD1175	7800	TD03-10E	YD1342	M4-400A
AX9902	1TL10-1	1199	1207	1TK120-1	8438/A
RS631	RS3025CL	3V/340B	DET22D	1216	QY4-400B
RS1016	1190	BT19	TD03-10D	8463	1227
RS362	8348	CT1-500	1208	YL1000	8458
300-1	YL1080	ME1505	5866	1217	YL1240
500-1	1191	XG2-500	CV1924	8118	1228
TY4-500	7527A	1200	TB2.5/300	YL1020	8505
TY4-350	8438	3V490A	AX9900	QQZ03-20	YL1250
1181	1192	8QR5	TY2-125	1218	1229
3752	TBH12/100	624	SRS361	7854	7213
YD1202	TY12-50H	676	RS1046	YL1060	YL1280
BW1184	1193	BT17	RS613	ES85	1230
TK60-1	TBH12/38	CST1-6000	1209	1219	8560
1182	TY12-20H	CT1-5000/6000	TBL2/500	8117/A	YL1320
3801	1194	TQ2/6	TD2-500A	YL1070	1231
YD1180	7T54RA	XG2-6400	8120	1220	4CX250B
1183	TBL6/14	1201	1210	8116	QEL2/275
3867	ACT100	14D12	TBL2/400	YL1071	5F20RA
YD1352S	7804	1513	TD2-400A	1221	7203
1184	TY8-150A	B1152	8119	6884	COL03-1
3913	1195	RS1036	1211	YL1100	QV2-250C
YD1195	BR1126	TB4/1500	GXU4	1222	1232
1TL30-1	TY6-3000A	TY5-500	RR3-1250B	6816	8322
RS3060CL	YD1230	6T40	YL1101	YL1101	YL1341
1185	1196	6T66R	1212	1223	4CX350F
3915	3J/221E	8078	DCG1/250	7650	1233
YL1520	3J/232E	8744	RG1-250	YL1110	6146B
1186	3J/222E	YL1330	RG250/1000	1224	8298A
3935	RS1011L	B1152	1213	3E29	YL1370
YD1185	TBL6/20	1202	3C800C	CV2295	1234
1TL15-1	TY6-12A	TY4-400C	7092	3599	6883B
RS3040CL	1197	YD1220	TB5/2500	QQV5-P10	YL1371
1187	3Q/222E	Z15048	TY6-800	1225	8032A
3936	3Q/232E	1203	6T50	8457	8552
YD1187	RS1011W	TA12/20000K	6T51	YL1210	1235
1TK15-1	TBW6/20	TAW12/20	B1153	1226	6159B
RS3040CJ	TY6-12W	TX12-20W	7T62R	4-400A	YL1372
1188	1198	1204	1214		
3937	8T10R	DET24	8958		
YD1197		TD04-20			

1236	1246	1251	QQV03-20A	QV08-100	RS612-614
8812	5867	5895	RS1019		T130-1
YL1420	CV1350	CV1838	SPS4452	1267	TY2-150
1237	TB3/750	QQC04/15	2B52	7527	
8813	AX9901	AX9905	TT20	YL1460	1277
YL1430	SRS360	QQZ04-15		QB4/1100	8032
RS2022CL	RS1026		1258	C1136	QE05/40K
	RS630	1252	6617	Q400-1	
1238	ES204A	5923	TBW12/25	Q450-1	1278
8814	B1135	TBW6/6000	TY12-25W	QY4-400	8042
YL1440	T350-1	AX9904		RS1002A	QC05/35
	T380-1	BW1165	1259		QZ06-20
	TC2-250	TY6-5000W	6618	1268	
1239	TC2-3000		TBL12/25	7580	1279
8888	TY3-250	1253	TY12-25A	QEL2/200	8177
YL1470	TY4-400	5924			QBL3.5/
RS2032CL		TBL6/6000	1260	1269	2000
	1247	CV3926	6883/A	7704	QY3-1000A
1240	2E24	AX9904R	QE05/40F	QBL5/4000	
YL1290	2E26	BR1165	QV06-20B		1280
QV08-100B	CV3990	TY6-5000A		1270	8179
	QV05-10			7753	QB5/2000
1241	1248	1254	1261	TBL6/4000	QY5-800
5762	4F20R	6156	6939	TY6-1250A	
ACT70	4H/136M	CV2131	QQE02/5		1281
BR191B	4X150D	QB3-5/750	7645		8268
CV8730	7035	AX4-250A	CV2466	1271	TBW7/9000
TY6-5000B	QEL1/150H	C112	QQV02-6	7805	TY8-6000W
YD1120	CV3991	E250A		TBW6/14	
7C24	QV1-150D	RS686	1262	TBW6-3	1282
7459		QY4-250	6960	TY8-15W	8269
BR1160	1249	SRS456	TBW7/8000		TBL7/9000
BR191B	11E13	1255	BW1162	1272	TY8-6000A
	6360/A	6159/A	TY7-6000W	7806	
1242	QQE03/12	QE05/40H	1263	TBL12/38	1283
3F65	CV2798	GL6159	6961	TY12-20A	BR1126
4-65A	CV424	QV06-20C	TBL7/8000		YD1230
CV1905	QQV03-10	1256	7237	1273	
QB3/200	RS1029	5822/A	BR1162	7807	1284
QY3-65	V1103	BK168	ETL3-2	TBW12/38	PE06/40E
8165	1250	PL5822	TY7-6000A	TY12-20W	PE06/40N
PL6549	832/A	ZX106L	1264		
	QQE04/20	6511	7004	1274	1285
1243	CV788	1257	TBL2/300	7836	ITS60-1
5647	C180	6252	TD2-300A	QE08/200H	YD1203
EA71	GL832A	CV2799		1275	
1244	P2-12	QQE03/20	1265	7983	1286
6281	QQV04-15	6524	7377	QQC03/14	ITS120-1
CK512	TT15	6850	QQE04/5	QQZ03-10	YD1213
	VT286	AX9910	1266		YD1343
1245	VT118	C1134	7378	1276	
6611	VT88/A		QE08/200	7986	1287
DF61				TB2.5/400	QE04/10
					CV309

CV483	1300	1309	1316	1328	1339
CV1510	1B35A	15D12	5671	3NP4	7292
M8157	6038	B1153	BR189	MW6-2	JN-2.5W
	BS412		BT71R		YJ1160
1288		1310		1329	
RS1003	1301	651	1317	90EG4	1340
YL1200	8566	656	9C25	E4412/	7709
	8572	5552A	BR1102	B/9	Z70W
1289	8573	6347		ECR35	Z700W
QQZ06-40	XQ1040	BK24	1318		
YL1030	XQ1050	TH7030	6421	1330	1341
		W651	BR1124	4Y35	7710
1290	1302			1810	Z70U
QV04-7	8507	1311	1319		Z700U
CV309	8625	652	30MD1	1331	
CV1510	XQ1050/2	657	RS502	5X75	1342
QE04/10		5551A		PC1.5/100	7711
	1303	6346	1320	PZ1-75	Z71U
1291	8482	BK42	100MD1/4		Z710U
RS2002V	ZT1001		BS510	1332	
YL1091		1312		DA30	1343
1292	1304	5550	1321	DO30	7713
RS2021L	8483	BK66	5AP1	PA40	Z804U
YD1001	8511	GL415	1805P1	PX25A	
	8541A	WL681		V503	1344
1293	XQ1030	WL686	1322		7714
RS2021W	XQ1040		6C21	1333	Z805U
YD1000	2255ROE	1313	(Trans)	AFH202	
		5553B	1000	E1191	1345
1294	1305	6348	spec.		8228
RS330CV	8484	BK146	ZP527	1334	ZZ1000
YD1343	XQ1052/3	655		5802	
		658	1323	ME1401	1346
1295	1306	BK34	401A		8453
TAL12/20	6362	TH7040	5590	1335	Z550M
TX12-20	7038	WL655		5823	
	1255-		1324	ST90K	1347
	FIM/NOR	1314	398A	Z900T	5545
1296	C933	5554	5603		5528
TY4-400C		6512		1336	5685
YD1220	1307	BK44	1325	5889	6220A
	8626	FG259B	7BP7	ME1403	6807
1297	XQ1040/2	WL679	1813P7		6808
TY6-3000A	2255		ZP468	1337	6860
YD1230		1315		6T40	7298
	1308	5555	1326	TB4/1500	7299
1298	575A	6513	ET30	TY5-500	7321
QE04/10	673	BK46	T250		XR1-6400A
VT510	6693	238B		1338	
	6895	653B	1327	6779	1348
1299	AH2511	FG238B	DCG7/	Z803U	7386
8453	DCG6/18		6000	CV2434	XR1-6400
ZM1050	RG4-3000		Gle		
			15000/1/4		

1349	1358	1371	1384	1397	1410
5544	5822A	6786	6A5	8RK22	8438
5877	ZX1061	XG15-10	6B4	K3035	C1136
7297					
7981	1359	1372	1385	1398	1411
XR1-3200A	6027H	7262A	6AE6	8T71R	8566
BT91	YJ1060	XQ1032	EY88	BR189	8626
TX2/3					
1350	1360	1373	1386	1399	1412
8037	150AVP	7008	6BA5	8T92R	8604
ZM1020	6199	YJ1010	5638	BR175	P844
6844A	6291				
1351	1361	1374	1387	1400	1413
2-100A	4J50	6346	6SC7	8TFK2	8093
100R	6249	7020	1655	K3043	P874
578		7021			
8020	1362	ZX1051	1388	1401	1414
RY12-100	5591		604A	8TFK20	8684
	6582	1375	4048	K3059	BM25L
	M8100	7028	6558		
1352	1363	JPO-2.5E	CW10	1402	1415
5632	5656	1376	REL10	12E12	8168
5684	QV02-6	7030		C1150/1	4CX1000A
6011		7031	1389		
8063	1364	ZX1052	6568	1403	1416
XR1-1600A	6120		BL28	12TFK2	8170
ZT1011	XGQ2-6400	1377	1390	K3032	4CX5000A
		7040	6615	1404	ACSS
1353	1365	7041	BL312	1B59	1417
8270	6130	ZX1053		22M1	8171
ZT1000	6435		1391		4CX10000
	XH3-045	1378	7H57	1405	
1354		7044	AH205	2C39C	1418
8433	1366	E182CC	857B	7289	8349
Z504S	6135	1379	1392	TD1-100C	4CX35000
ZM1070	M8080	7088	8MA16	1406	1419
	1367	YJ1030	M5053	55B/200A	8352
1355	6308			C1134	4CX1000F
8532	M8142	1380	1393		
M8248	1368	7091	8MA20	1407	1420
	6482	YJ1162	M5055	7408	5949
1356	Z303C	1381	1394	OSW3106	FX2519A
17	1369	7111	8NT5	1408	TG3000
715	6486	YJ1011	BS386	8370	TH6907
5557	M8196			FX2517	
XG5-500	1370	1382	1395	5956	1421
	6700	7181	8RK17	5957	5924
1357	ET51	JP9-75	K3038		BR1165
12QR205		1383	1396	1409	1422
5720		3AMP1A	8RK19	8484	5958
5728		DG7-32	K3039	P860	FX2513
5559					7583
6031					
XG1-2500					

1423 7669 BK442 NL1061	1436 BS142 GXB160	378A 705A 8021	1460 350A RK49	XP1001 7696 7746	1481 8008A ZY1001
1424 7671 BK444 NL1062	1437 BS180 GXE5	1450 3C21 ZB120	1461 A207 ESU77	1470 6344 YJ1350	1482 7860 7908 XP1115
1425 7972 C1158 13E1	1438 BS192 GXF5	1451 3B/850A 242C	1462 8T92 892 BW147 ESW892 TAW10/10	1471 6935 XP1110/1 6362 7767 7909	1483 7844 YL1103
1426 ACM3 BR1167	1439 BS208 GXE15	1452 3J/160E 7C26	1463 889R BR129 EHA5000 ESA5000	1472 6363 XP1030 7818 8054	1484 7843 YL1102
1427 7703 BK416	1440 BS332 BS810	1453 4C34 HF300	1464 5855 6250 CV5957 TH6250 XR1-12/A	1473 6365 XP1113 7764	1485 7681 ZX1062
1428 BK428 BK472	1441 BS408 GXF15	1454 4C22 HF100 RK51	1465 2J51A CV5134 YJ1360	1474 6538 2800U	1486 7664 XP1004
1429 BM1001 N5015	1442 BS422 GXF25	1455 5B/700A 828 D177 PB1/150	1475 6539 Z801U	1487 7651 YL1112	1488 7522 XQ1010
1430 BS54 GXA85	1443 BS436 GXF22	1456 4B30 4C30 15R 8022 8023	1466 5870 ASG5007 DCG12/30	1476 6894 7136 DCG6/18GB	1489 26KG6 LL509
1431 BS62 GXA130	1444 BS470 GXE30	1457 3C30 30Z 809	1467 5819 XP1000 7064 6655A 7817 8053	1477 7292 XJ1160	1490 4D32 C1123
1432 BS68 GXA80	1445 BS506 BS510	1458 44A/160M TT15	1468 EF2 EF5 EF8 EF9	1478 7326 XP1002	1491 BW140 CAT6
1433 BS90 GXA95	1447 7384 CX1119	1459 3-100A2 4T16 50T 100TL RK36	1469 6342A	1479 7351 XW1050	1492 BW153 CAT9
1434 BS112 GXA60	1448 8503 FX290			1480 6911 XP1005	1493 6696 BW194
1435 BS136 GXE8	1449 2T/450E				

1494  
6166A  
CR192A

1495  
5948  
1907  
CX1140

1496  
6866  
E702B

1497  
6972  
M575

1498  
5586A  
M5083

1499  
ACT14  
BR140

1500  
ACT16  
BR153

## WAR-TIME CIVILIAN VALVES WITH COMMERCIAL EQUIVALENTS

BVA211 } BVA214 } BVA215 } BVA216 }	IW4-350 and Equivalents	BVA243 } BVA246 } BVA247 }	EL39 and Equivalents	BVA264 } BVA265 } BVA266 } BVA267 }	EL33 and Equivalents
		BVA274 } BVA275 } BVA267 }	ECH35 and Equivalents		

## ROYAL AIR FORCE VALVES WITH COMMERCIAL EQUIVALENTS

Services No.	Commercial Equivalent	Services No.	Commercial Equivalent	Services No.	Commercial Equivalent
VI77	EM31	VR82	220TH	VS70	7475
VI103	EM35	VR83	210VPT	VT20	220P
VG121	T41	VR91	EF50	VT23	230XP
VG128	GTIC	VR91A	EF50	VT25	DET25
VR18	215SG	VR92	EAS0	VT45	X56
VR19	PM2	VR95	954	VT50	HL2K
VR21	210LF	VR95A	954	VT51	Pen220A
VR22	220PA	VR99	X66	VT52	EL32
VR27	210LF	VR100	KTW62	VT60	807
VR28	220VSG	VR101	MHLD6	VT60A	807
VR32	220B	VR102	BL63	VT61	RK34
VR35	QP21	VR105	ML6	VT61A	4074B
VR37	MH4	VR106	9D2	VT62	TY1-50
VR38	MHL4	VR107	15D2	VT73	H63
VR40	PX25	VR108	8D2	VT74	6J7
VR41	PM12M	VR109	4D1	VT75	KT66
VR43	210PG	VR117	41MTL	VT76	DA41
VR44	210DDT	VR118	KT2	VT79	KT8
VR45	X56	VR119	DDL4	VT80	4307A
VR46	PT25H	VR122	41MXP	VT81	4052A
VR47	TZ05-20	VR123	EF8	VT88	832
VR49	210SPT	VR124	HP4101	VT96	5B/502A
VR53	EF39	VR125	MS/PenB	VT104	PT15
VR54	EB34	VR126	4SH	VT127	Pen46
VR55	EBC33	VR129	MS/Pen	VU29	ESU150
VR56	EF36	VR130	HL23	VU39	MUI4
VR57	EK32	VR136	EF54	VU39A	R3
VR59	955	VR137	EC52	VU64	UI2/14
VR65	SP61	VR502	KT32	VU71	SU4
VR65A	SP41	VR503	KT33C	VU72	GUS
VR66	P61	VR505	MH41	VU113	UI7
VR67	6J5	VS68	STV280/40	VU120	SU2150A
VR78	DI	VS69	STV280/80	VU134	4VR2

# CV TYPES WITH COMMERCIAL EQUIVALENTS

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
5	RG4/250	345	12E1	475	EF71
21	VP41	346	EZ22	476	EF74
24	HL41	347	EBC21	477	EF731
26	QY2100	354	TD03-5	482	A237
28	BR152B	358	EF37A	483	QVO4-7R
31	U20	366	6AG7	484	DL92
32	RG3250A	370	JP9-7A	487	35
51	Y65	372	XH3-045	491	ECC82
65	Pen25	375	EA50	492	ECC83
66	EC54	378	GZ37	493	EZ90
73	11E3	380	EF54	495	ME1401
118	SP61	385	DL71	500	6T7G
124	807	386	DF70	501	EBF32
131	EF92	387	FL72	503	5W4GT
133	EC90	394	EM34	504	6U5
135	EY91	395	QS150/45	509	6V6G
136	EL91	397	TF04-20	510	6V6
137	EAC91	399	MH4	511	6V6GT
138	EF91	405	55CG	512	6W7G
140	EB91	416	6F17	513	4153
152	RG4-1250	417	EC91	515	6Y6G
163	5744	422	QS108/45	517	OZ4A
170	12SF7GT	423	25SN7GY	518	ACVP1
171	210VPT	424	QQV06-40	519	Pen4DD
173	EF55	425	OA74	520	VP2B
175	XSG1.5	426	EY51	521	R4410
176	XP1.5	430	29C1	522	7B7
181	ECC32	431	85A1	523	12Y4
185	PM202	432	ME1400	525	12A6
187	U19	434	QS75/60	526	12A6GT
188	7475	437	KT67	529	12AH7GT
200	MZ2-200	442	OA73	531	12C8
207	AC/P4	443	DF70	532	AH211A
216	OD3	444	MZ1-75	534	12J5
261	R10	448	OA81	535	12J5GT
265	19E2	449	85A2	537	12SA7
273	TD03-10	450	EL38	538	12SA7GT
278	B65	452	6AT6	540	12SC7
281	X61M	453	6BE6	541	8016
283	6AL5	454	6BA6	543	12SK7
284	75B1	455	12AT7	544	12SK7GT
286	95A1	464	T921Z	546	12SQ7
287	150B3	465	EF72	547	12SQ7GT
302	ECH22	466	EF73	548	LP2
303	EF22	467	EF70	549	25A6
304	EL22	468	EC70	550	25A6GT
305	EF51	469	EA76	551	25L6G
309	QV04-7	471	EL70	552	25L6
313	QYS50-P40	472	EF74	553	25L6GT
327	EF52	473	EY70	554	D63
329	6F33	474	EN70	555	25Z5

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
556	QP25	619	84/6Z4	759	1B5
557	D42	635	TY4-350	760	1B7GT
558	2SZ6	642	872A	764	1D5
559	2SZ6GT	647	6Q5	765	1D7G
560	TSP4	649	956	766	1E5GP
561	35L6	650	958-	767	1F4
562	35L6GT	652	1603	768	1F5G
563	DA30	653	1611	769	1F6
564	35Z3	654	1612	770	1F7
565	35Z3GT	655	1613	771	1G5G
567	35Z5	657	1620	772	1G6G
568	35Z5GT	658	1622	773	1G6GT
569	ECC35	660	6AC7	774	1H4G
571	50L6GT	661	1853	775	1LA6
572	6X5G	664	9002	776	1LB4
573	6X5	665	9003	777	1LC5
574	6X5GT/G	666	9004	778	1LC6
575	U52	667	9005	779	1LD5
578	X63	685	VR150-30	780	1LH4
579	6A8	686	OC3	781	1LN5
580	6A8GT	688	TD3.5-12	782	1R5
581	6C5G	692	HF300	783	DL91
582	6C5	694	12SG7	784	DAF91
583	6C5GT	697	12SJ7	785	DF91
585	6C6	698	12SJ7GT	787	2A7
586	EL37	700	12SR7	788	QQV04-15
587	6Q7G	703	12K8	789	3C24
588	6Q7	705	1D5GP	791	2B7
589	6Q7GT	706	6U7G	794	2D2
590	6SJ7G	711	32	795	2D4A
591	6SJ7	712	38	796	2D13C
592	6SJ7GT	715	6F5GT	797	EN91
593	GZ32	717	5R4GY	803	2V3
594	6SH7	723	1619	804	2V3G
595	6SH7GT	726	35Z3LT	805	50Y6
597	2X2	727	1N21	807	DL93
599	1851	728	1P6GT	808	DCC90
604	30	729	5V4G	811	3B7
606	37	730	6A3	815	3D6
607	38	731	6F6GT	818	DL95
608	41E	732	6W4GT	819	DL33
609	42	738	953	820	DL92
610	45	747	6AC7	826	AC/TH1
611	56	749	1N23A	828	4TBP(Clear)
612	57	752	OA4G	829	4TPB(Met)
613	58	753	1A3	830	4TSP
614	75	754	1A4P	840	5H4
615	76	755	1A5G	841	5U4
616	77	756	1A5GT	842	5W4G
617	80	757	1A6	843	6AB5/6N5
618	83	758	1B4P	844	6AC5G

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
845	6AC5GT	909	12A7	1053	EF39
846	6AC7	910	12A8GT	1054	EB34
847	6AF6G	911	12B8GT	1055	EBC33
848	6AG5	916	12H6	1056	EF36
849	6AJ7	917	12J7GT	1057	EK32
850	6AK5	918	12K7GT	1059	955
851	6B4G	919	12SF5	1067	L63
852	6C4	920	12SF5GT	1068	STV280/40
854	6C7	921	12SF7	1069	STV280/80
856	6G8G	922	12SH7	1070	7475
858	ECC91	923	12SJ7GT	1071	U52
859	6J8G	924	12SL7GT	1072	GU50
860	6K5G	925	12SN7GT	1073	H63
861	6K5GT	927	12Z3	1074	KTZ63
862	6L5G	929	13SPA	1075	KT66
864	6P7G	930	14F7	1076	DA41
865	6SD7GT	937	25A7GT	1077	EM31
866	6SJ7	938	25AC5GT	1078	D1
867	6SR7	939	25B6G	1079	KT8C
869	6V5GT	940	25B8GT	1082	220TH
870	6V7G	942	25Y5	1083	VP21
871	6Z5	943	26	1091	EF50
872	6Z7G	944	27	1092	EA50
873	6ZY5G	945	28D7	1095	ZA2
875	2C21	946	28D7	1099	X66
876	7A6	947	31	1100	KTW62
877	7A7	948	32L7GT	1101	MHLD6
878	7A8	949	33	1103	Y63
879	7B4	995	6AJ5	1106	9D2
880	7B5	1018	Z21	1107	15D2
881	7B5	1019	PM2	1108	8D2
882	7B6	1020	PM2	1109	4D1
883	7B8	1021	21	1110	S130
885	7C5	1022	220PA	1111	U27
886	7C5	1023	230XP	1113	U17
887	DH149	1028	220VSG	1116	6F32
889	7D8	1032	PM2B	1117	41MTL
891	7E6	1035	QP21	1118	KT2
892	7E7	1037	MH4	1119	DDL4
893	7F7	1038	MHL4	1121	T41
894	7G7	1039	1W4	1122	41MXP
895	7H7	1040	PX25	1123	EF8
896	7K7	1041	PM12M	1124	MS/PEN
897	7J7	1042	210LF	1125	MS/PENB
898	7N7	1043	210PG	1127	Pen46
899	7Q7	1044	210DDT	1128	AN1
900	7R7	1048	215SG	1129	MS/PEN/T
901	7Y4	1049	210SPT	1130	HL23
902	7W7	1050	HL2K	1136	EF54
904	BR175	1051	Pen220A	1137	EC52
908	12A5	1052	EL32	1144	XG2-500

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
1151	PM3	1301	D63	1411	TH41
1152	L410	1302	D42	1412	TV4
1153	PM254	1303	HL210A	1413	UU6
1154	PM254	1304	LP2	1419	11D3
1159	PM14	1306	HL23DD	1424	20A1
1160	104V	1307	210LF	1425	7D5
1161	104V	1308	L21DD	1426	EK2
1163	PM2BA	1312	220R	1427	EF9
1166	LP2	1313	220LF	1428	EBC3
1167	PM24A	1319	VS2	1429	EL2
1168	PX4	1320	SP2	1430	ACSP3
1169	VMP4G	1321	9D2	1433	EC31
1170	D41	1322	SP210	1434	EM4
1171	HA1	1323	VP2	1435	GU20
1172	VP4A	1324	SP4	1438	EL33
1173	354V	1325	42MPT	1443	U10
1174	Pen4VA	1326	AC4/PEN	1444	42SPT
1175	ZA1	1327	Pen1340	1449	872A
1178	DA30	1329	APP4G	1456	Pen383
1179	TT4	1330	TSP4	1457	VP133
1181	KT41	1331	VP23	1458	41MP
1182	MHD4	1332	210VPT	1459	MU2
1183	W42	1333	2201PT	1460	X41
1186	KT63	1334	KT24	1463	CBL31
1187	D41	1335	SP41	1464	EF39
1188	N43	1336	SP42	1479	M501
1191	KTZ41	1337	116Pen	1480	M501
1192	Z62	1338	220VPT	1481	M501
1193	X65	1341	MSP4	1482	M501
1194	X41	1342	QP25	1483	M519
1195	KTW63	1343	A1065	1484	M519
1196	AC5	1344	TP22	1485	M519
1197	EC53	1345	TP25	1502	KT32
1198	ACP4	1347	ECH35	1503	KT33C
1208	PM256	1351	TY4-500	1505	MH41
1219	MZ1-100	1352	EM80	1508	U19
1237	PM24D	1355	RG4-1250	1510	QV04-7
1238	PM24D	1356	U22	1535	EA80
1246	P2	1359	ME41	1540	33B/152M
1252	MY3-275	1364	807	1570	EK32
1264	FW4-500	1374	807	1574	SP41
1265	U15	1375	EF85	1577	KT44
1267	1D5	1376	EF80	1578	EF50
1268	U50	1377	GZ34	1581	ECH35
1279	MU2	1401	CL33	1582	S130
1280	X64	1402	CY31	1586	HL23
1282	AC/S2Pen	1403	DD41	1600	BW173
1285	ECC31	1407	Pen45	1625	RG3-250
1286	EL35	1408	P41	1626	RG1/240A
1287	KT32	1409	SP2	1629	RG3-1250
1300	10D1	1410	TH2	1633	3V4

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
1670	HL1320	1769	2A6	1849	SW4
1672	Pen36C	1770	7A4	1850	6L19
1673	HL2	1771	39/44	1851	5X4G
1674	AC/S2PEN	1772	47	1852	5X4
1675	N43	1773	82	1853	6P25
1677	S4VB	1775	36	1854	5Y3G
1678	MH41	1776	6D7	1855	UU9
1679	DA30	1777	7C7	1856	5Y3GT
1680	PM202	1784	7C7	1857	5Y4G
1681	TSP4	1787	XH8-100	1860	30D5
1683	MPPEN	1789	5FP14	1861	5Z3
1684	APP4C	1790	7Z4	1862	6AQ5
1685	APP4C	1794	959	1863	5Z4G
1691	DDL4	1795	KS9-20	1864	5Z4
1695	DDL13	1796	R4	1865	EC81
1696	B21	1798	2050	1867	6A6
1627	41STH	1800	1A7G	1868	MF13-1
1698	A891	1802	DK32	1870	6A7
1699	SP41	1803	DL35	1873	6AB7
1700	SP41	1805	DL35	1878	6AD7G
1701	XLO	1806	1D5GT	1879	MS/PENT
1702	XP	1807	2J31	1882	6AG7
1703	XW	1808	2J32	1885	6B5
1704	57	1809	2J33	1886	EC80
1705	58	1810	2J34	1887	6B6G
1706	2B7	1811	1D8GT	1888	EC81
1707	2A5	1812	1E7GT	1889	TYS4-500
1708	80	1815	605G	1891	6B7
1709	6D6	1816	6Y3G	1893	6B8G
1710	6C6	1817	1G4GT/G	1894	6B8
1711	6B7	1818	1H5G	1895	STV70/60
1712	42	1819	6P5GT	1896	6C8G
1713	EF8	1820	1H5GT	1897	4J34
1714	EF9	1821	1N5G	1898	4J35
1715	EBC3	1823	DF33	1899	6L18
1731	S130	1824	1Q5G	1900	6D6
1732	ML4	1825	KT45	1901	6F11
1737	MW6-2	1826	1Q5GT	1902	6D8G
1741	EL34	1829	1T5GT	1905	QY3-65
1747	M505	1830	1B3GT	1906	6E5
1752	35/51	1831	2A3	1908	6F5G
1753	35A5LT	1832	0A2	1909	6F5
1754	35TG	1833	0B2	1910	6F5GT
1755	1626	1834	2A5	1911	6F6G
1756	1629	1835	RR3-250	1912	6F6
1757	9001	1836	1163	1914	4J31
1758	1L4	1837	2B7	1915	6F7
1759	2C26A	1838	QQZ04-15	1916	4J33
1762	6AK6	1839	6F13	1917	6F8G
1763	6J4	1843	2Y2	1918	6F8
1764	71A3	1846	5T4	1919	6F14

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
1920	6LD20	1982	6SK7GT	2240	DL98
1921	U24	1985	6SL7GT	2241	DY70
1924	TY2-125	1988	6SN7GT	2253	EN32
1926	6G6G	1989	SD6	2254	DF60
1928	12BA6	1990	6SQ7	2259	DL68
1929	6H6G	1991	6SQ7GT	2260	DF64
1930	6H6	1992	Z300T	2263	K305
1931	6H6GT	1993	6SS7	2269	5802
1932	6J5G	1994	BR152B	2270	90AG
1933	6J5	1995	6FT7G	2271	Z303C
1934	6J5GT	1996	6ST7	2273	K312
1935	6J7G	1999	6Z3	2275	DC70
1936	6J7	2101	DF72	2276	Z319
1937	6J7GT	2102	DL75	2281	YJ1070
1938	6K6G	2103	DF73	2282	K308
1940	6K6GT	2104	DAF70	2284	JP9-250
1941	6K7G	2105	DL70	2288	DL66
1942	6K7	2106	DL66	2289	U37
1943	6K7GT	2107	DF66	2291	1909A
1944	6K8G	2115	U41	2295	QQV5-P10
1945	6K8	2127	EL821	2299	DL73
1946	6K8GT	2128	ECH81	2300	DL93
1947	6L6G	2129	5763	2302	DH3-91
1948	6L6	2130	6155	2304	K324
1949	6D4	2131	6156	2323	BR179
1950	6L7G	2132	90AV	2324	CR176
1951	6L7	2133	90CG	2325	Z502S
1953	6N6G	2134	90CV	2328	MF31-95
1954	6N6	2135	8D5	2343	K335
1956	6N7G	2136	6BW6	2348	5889
1957	6N7	2159	BP153	2349	EN30
1958	6N7GT	2160	A207	2352	DG16-22
1959	50C5	2162	T922Z	2360	5A6
1960	6R6G	2164	K302	2361	DL69
1961	12AU6	2171	A2087	2362	M525
1962	6R7G	2172	DC80	2369	AA76
1963	6R7	2175	DG7-5	2370	DL92;3S4
1964	6R7GT	2180	19H4	2371	DF61
1966	6SA7	2191	DG13-2	2372	MF22-75
1967	6SA7GT/G	2201	TD4.5-10	2373	JP9-180
1969	6SC7	2203	FX215	2376	M521
1970	6SC7GT	2204	TD03-10F	2381	N1034A
1971	DF91	2210	XR1-3200	2382	EL822
1972	6SF5	2212	6158	2383	5762
1973	6SF5GT	2215	XR1-6400	2389	AC125
1974	6S7G	2218	6157	2390	3A4
1977	UL41	2225	150B2	2393	BA9-20
1978	6SG7	2235	EY84	2394	DA42
1979	61BT	2237	1AD4	2399	RR3-1250A
1980	185BT	2238	5672	2400	AC125
1981	6SK7	2239	5676	2412	M523

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
2420	JPT9-01	2537	55	2744	4J34
2421	JPT9-02	2538	59	2748	5Z4GT
2424	JP9-150C	2541	71A	2752	QV20-P18
2425	JP9-250D	2544	78	2765	4673
2426	JP9-250B	2545	79	2766	4687
2427	JP9-250C	2546	81	2775	1163
2431	DG7-32	2547	83V	2792	K59-20A
2432	6205	2548	84	2795	DF92
2433	DF63	2549	85	2796	6L6
2434	Z803U	2556	117L7GT	2797	QQV06-40A
2453	6CR4	2557	117N7GT	2798	QQV03-10
2466	QQV02-6	2558	117GT/G	2799	QQV03-20A
2474	JP9-250F	2565	2030	2815	AC/P
2487	QV2-250C	2569	210DET	2817	6L6GA
2492	E88CC	2570	210HF	2819	AC/S
2493	E88CC	2571	210HL	2820	ACC/SP1
2494	K351	2572	450TH	2821	ECC33
2497	MG13-11	2573	5651	2822	AC/SG
2498	DP16-22	2574	210VPA	2823	AC/SP3
2500	35Z4GT	2578	5687	2824	AC/S PEN
2501	40	2581	220/OT	2830	AC/TH1
2502	41FP	2582	220VS	2831	2C51
2503	41MP	2634	367	2832	AC/VP2
2504	41MHL	2640	405BU	2835	5RWGY
2505	41MPG	2643	2C40	2836	APP4G
2506	41MPT	2644	460BU	2842	6C4
2507	1U4	2662	5639	2843	6J6
2508	41STH	2666	QQV07-40	2844	6X4
2510	1Z2	2673	857B	2847	5704
2511	42.0T	2698	5896	2852	JP9-50
2512	42.0TDD	2699	6088	2854	6AN5
2514	43	2700	957	2855	6K4
2516	TD100A	2701	958A	2858	3B24W
2517	5812	2704	7E5	2860	AZ1
2518	RR3-1250	2705	1203	2861	AZ2
2519	QV2-250C	2706	7C4	2862	AZ31
2520	XH16-200	2707	1231	2864	B21
2521	6AH6	2709	1R4	2865	B30
2522	6AS6	2712	1609	2866	2C51
2523	6AS7G	2713	1610	2868	AFX203
2524	6AU6	2714	1614	2871	BW140
2526	EBC91	1715	1630	2872	BW153
2527	6BA7	2716	6SC7	2875	CL4
2529	451U	2717	1729	2876	2D21
2530	45Z5GT	2718	1876	2877	6AK5W
2531	46	2721	EL81	2882	6AL5W
2532	49	2726	EL83	2883	6AQ5W
2533	50	2729	E80F	2884	6AS6W
2534	50L6G	2730	ME1402	2887	DAC1
2535	53	2738	RG1-240A	2888	EL31
2536	53A	2742	DF92	2889	DD620

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
2890	DDT	3526	EL85	3649	PM22
2896	52CG	3527	KTW73M	3650	12AY7
2901	EF86	3528	M513A	3651	12SH7GT
2909	DH73M	3529	KTZ41	3656	PT425
2910	DK1	3530	KTZ73	3666	12SW7
2911	DL2	3531	L2	3668	12SY7
2912	DL63	3532	L21	3670	RG4-1000
2925	EBF2	3533	L22DD	3675	6004
2926	EBL31	3534	L30	3676	JP9-7
2927	EC50	3539	EF91	3691	S23
2929	ECH3	3540	5C22	3692	S23
2930	ECH33	3543	4D32	3694	S130A
2932	TD3-12	3552	MPT4K	3695	S215
2933	TDO5-12	3553	MS4B	3696	S215A
2937	6AQ6	3560	JPT9-60	3697	12SK7
2938	EL33	3561	MS PEN	3698	S610
2939	6F4	3562	MSP41	3699	5693
2940	EL36	3565	ME41	3702	SG215
2941	EL50	3569	JP9-80	3703	SP4B
2955	FC4	3571	MV SPEN	3704	SP13C
2957	XG5-500	3572	MVS/PENB	3705	5691
2963	9Y3-1258	3576	FC4	3706	5796
2964	QY4-250B	3577	26A7GT	3707	6AL7G
2966	EY86	3578	PM22D	3711	N78
2967	RY12-100	3599	QQV5-P10	3712	STV280/80
2975	EL84	3602	JNT1-500	3734	6X5
2980	DM70	3611	5586	3743	U5
2983	DL94	3613	6AR6	3744	U6
2984	6080	3616	6BN6	3747	U15
2990	6136	3618	6L6	3748	2X2
2991	HL2MET	3619	6SJ7	3750	U22
2992	6106	3620	P220	3751	U21
2995	HL23DD	3621	P410	3752	U30
2996	HL41DD	3622	P610	3753	U31
2998	HL133	3623	PA40	3755	5755
2999	HL133DD	3626	PEN B4	3758	UR3C
3500	HL210	3627	6SN7WGT	3759	UU4
3501	HL610	3629	FX227	3761	UU7
3502	HL1320	3630	Pen44	3787	VP2
3503	HLDD1320	3631	Pen45DD	3788	VP4
3506	615	3633	Pen231	3790	VP13C
3508	M8162	3634	Pen428	3792	VP23
3512	EN92	3635	7D8	3793	VP24
3515	KB2	3636	Pen1346	3794	VP210
3516	KK2	3638	PenA4	3795	VP215
3517	5933	3641	PM1HL	3796	VP1322
3519	KT30	3642	PM1LF	3798	OA3
3520	KT31	3643	PM2A	3799	OB3
3521	XH25-500	3645	PM2DX	3800	VS2
3522	Q75-500	3647	PM22A	3802	VS24
3523	QV06-20	3648	PM24E	3803	VS24K

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
3804	W21	3905	5847	4006	6059
3805	W30K	3908	6BH6	4007	5726
3806	W31	3909	6BJ6	4008	5719
3808	6T4	3912	1U5	4009	BA6
3809	807	3917	5703	4010	5654
3810	WD30	3919	U82	4011	5725
3816	X21	3924	6AC7W	4012	5750
3817	X21	3926	TY6-5000A	4014	6064
3818	X22	3927	12K8GT	4015	6065
3819	X24	3928	EF730	4016	5814
3820	X24	3929	EF732	4017	5751
3821	X31	3930	EC71	4018	5727
3822	X31	3933	85A3	4019	6005
3823	X41	3935	14A7	4020	OA2
3825	X63	3936	14S7	4021	3B24WA
3826	X65	3937	14R7	4022	6135
3827	12C8GT	3938	12CS7GT	4023	6AU6
3830	XH1.5	3940	2C39	4024	12AT7
3831	XL2	3942	5692	4025	6058
3832	XP2	3943	5852	4026	5R4
3833	XSG2.0	3946	DG7-36	4027	5Y3
3834	XW2	3953	JP9-2509	4028	OB2
3835	Z21	3958	5657	4029	EL71
3836	Z21	3959	MF13-1	4031	6101
3837	Z21	3960	M8190	4032	5814
3838	Z62	3961	6111	4033	F/6060
3839	Z66	3973	6AC7Y	4034	F/6067
3841	6F1	3974	6SA7Y	4035	F/6057
3879	QY4-400B	3978	6AG7Y	4036	F/8141
3881	EB41	3979	OD3W	4037	F/5750
3882	EBC41	3980	12SR7GT	4039	6062
3883	EAF42	3982	M506A	4040	S6F17
3884	ECC40	3983	12S7WGT	4041	S6F17F
3885	EF40	3985	6SL7WGT	4042	S19G6F
3886	EF41	3986	ECC70	4043	6BW6
3887	EF42	3987	5644	4044	6443
3888	ECH42	3988	6442	4045	F/6061
3889	EL41	3989	6AN4	4048	M8098
3890	EL42	3990	QV05-10	4049	F/5726
3891	EZ40	3991	QV1-150D	4050	F/5654
3892	AZ41	3994	1V2	4051	F/6158
3893	QV1-150G	3995	6CB6	4052	QS1202
3894	6BF7	3996	U709	4053	QS1203
3895	5702	3997	JP9-15	4054	QS1213
3896	5784	3998	E180F	4055	6CH6
3897	7587	3999	MW22-22	4056	F/6132
3898	5829	4001	F/6063	4057	S19G6
3899	5932	4002	F/6064	4058	6100
3900	5963	4003	6067	4059	M8097
3901	6161	4004	6057	4060	S11E12
3902	6002	4005	6063	4063	M8082

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
4064	S6F33	5052	6AU7	5183	6C4
4066	5783	5053	6AR6	5184	6CD6
4067	M8167	5055	EM81	5185	6X4
4068	13D3	5057	5702	5186	5651
4069	F/6158	5058	5784	5187	6336
4070	6AQ4	5059	5829	5188	5687
4076	M8179	5060	Z759	5189	5726
4080	75C1	5062	5841	5190	6006
4085	M8195	5065	ECF82	5192	PCC84
4092	5672	5067	6SH7	5199	SV15
4093	5678	5072	EZ81	5202	ZS10B
4094	1AD4	5073	6AM4	5205	1S405
4098	5725	5074	6AF4A	5209	OA5
4100	OA2WA	5077	PL81	5211	6641
4101	OB2WA	5080	EF37A	5212	12AT7
4104	M8163	5081	61SPT	5214	E90CC
4108	7308	5082	M8234	5215	ECF80
4109	7308F/L	5083	QS75/20	5216	6096
4110	7308	5086	6BS7	5218	BR189
4111	7308F/L	5091	VX9076	5219	QY5-3000A
4501	7432	5092	EF800	5220	KT88
4502	7433	5093	EL803	5224	6481
4503	7434	5094	EL86	5231	E88CC
4504	7435	5106	6370	5233	EL32
4505	7436	5112	437A	5234	XR1-1600A
4507	7437	5113	5787	5235	JP9-50
4508	7438	5115	X79	5239	TY7-6000A
4515	K337	5118	6L6	5242	6CT4
5005	6110	5121	6870	5244	MB13-1
5007	6112	5122	Z900T	5246	5933
5008	6080	5123	JP9-15D	5247	XH8-100
5009	6203	5125	D13-34	5249	KS90-30
5018	JP9-80	5126	6AF4	5256	U25
5021	6V3A	5130	K337	5257	U26
5022	C831A	5131	DG4-1	5258	U191
5023	AFX234	5132	M8163	5259	U329
5027	XG1-2500	5134	JPT9-60	5260	10C2
5029	6J4	5136	6533	5261	20L1
5030	26Z5	5140	EA52	5262	20P3
5031	M548	5144	PCL83	5263	20P4
5032	1X2A	5146	5814	5264	30L2
5035	DG13-34	5151	5947	5265	30P4
5036	6AF4	5156	EF89	5268	7384
5037	6BA6	5157	DP13-2	5269	DG7-6
5038	6BC4	5164	MM13-10	5277	ET51
5039	6BL7	5168	DH13-97	5278	ZM1020
5040	6BQ6	5171	DP7-5	5279	ZS51
5041	6CL6	5172	DK92	5281	ECC84
5042	12BH7	5173	90C1	5282	AL13-36
5046	5744	5181	5R4	5287	6U4GT
5047	G7B	5182	6AN5	5291	Z503M

C.V No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
5300	AL22-10	5811	DH13-10	8021	D77
5302	DH7-91	5817	6BW7	8022	HR2
5304	6463	5830	EL360	8023	QS75/20
5306	6L6	5831	EF183	8024	27M1
5311	6J4	5843	5965	8025	12E1
5317	12AH8	5847	QQV07-50	8031	6F17
5325	Z759	5877	E702A	8034	QS75/60
5331	ECC189	5883	DNM9-11	8037	QS83/3
5354	E188CC	5893	5654	8038	EL38
5358	ECC88	5894	5670	8039	EF72
5362	6861	5895	5750	8040	EC70
5365	6BQ7A	5896	6136	8041	EA76
5369	DHM10-93	5905	EY81	8043	U41
6386	N1045M	5915	ECH21	8045	6CH6
5391	6072	5937	QQVO6-40A	8047	6BR7
5397	EC157	5938	QQVO3-20A	8048	6BW6
5401	N1031	5940	DP4-1	8054	6F33
5402	N1032	5948	ECF804	8056	QS1200
5403	N1033	5956	TDO3-10	8058	U37
5406	N1001	5957	XR1-12	8061	13E1
5407	N1002	5959	OY4-400	8065	E88CC
5408	N1013	5962	TDO3-10D	8068	EF86
5409	9D7	5984	ORP11	8069	EL84
5412	DM160	5986	6112	8070	6059
5415	Z2A	5987	E702B	8071	QW77
5418	DG7-31	5989	E8OCC	8072	M8214
5425	10G4	5998	A292	8073	6062
5426	K350	6003	K342	8074	QS1212
5427	R19	6007	EH3-C45	8075	M8237
5430	TD1-100A	6023	N10345	8076	6132
5434	EM84	6024	N10105	8077	S11E12
5443	JPG9-O2C	6044	Z303C	8078	QN77
5450	6AH6	6045	C1158	8079	S6F33
5451	7320	6051	CX1120	8080	6158
5458	TDO3-10E	6072	JP8-O2B	8081	M8195
5464	E188CC	6087	LA9-3B	8102	XFY-34
5472	E88CC	6094	DM160	8106	7077
5473	QQVO2-6	6095	DH7-91	8107	7289
5477	5U4	6098	N1016M	8152	QS150/40
5724	E8OT	6106	N1017M	8153	U54
5729	6CD6G	6108	YJ1070	8154	B309
5745	GZ33	6113	T963D	8155	B329
5754	TDO4-20A	6114	JPT9-O2E	8156	B339
5760	DP13-97	6122	QY3-65	8157	OS1206
5763	12AT7	6127	W9/3E	8158	EN91
5766	E182CC	6130	T977D	8159	EF95
5793	DN13-34	6131	C1149	8160	ECC91
5794	KS30A	8017	W77	8161	QS1207
5808	E55L	8018	N77	8162	QS1208
5809	E810F	8019	EAC91	8169	QD77
5810	EF184	8020	Z77	8184	QB65

C.V No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
8189	5R4	8431	E180CC	9088	5702
8190	6AH6	8433	PCF80	9089	7203
8191	6CL6	8458	EL95	9090	5894
8192	6J4	8460	EF804S	9091	5784
8200	6AL5	8462	83A1	9092	5814
8201	6BE6	8469	7554	9093	6021
8202	6BA6	8470	7587	9094	6528
8203	6X4	8479	TY4-400	9105	XB3
8204	5R4	8563	CX1140	9122	7580
8205	6D4	8577	6097F	9155	E88C
8206	5763	8578	9531F	9167	ECE82
8207	2C39A	8579	6/22QM	9196	ELL80
8208	6AH6	8580	G701/32	9207	GN4A
8209	6AS6	8581	S5AB-120	9260	DC70
8210	6AU6	8614	6080	9315	D21-10GH
8211	6AN5	8630	GS10H	9316	ZM1020
8214	8020	8632	CR144/A	9322	QQZO2-6
8215	5656	8634	ECL83	9331	EL821
8216	6080	8667	E186F	9336	ML7698
8218	6146	8672	MX50	9341	85A2
8221	12AU7	8687	7266	9343	BR1161
8222	12AX7	8688	7576	9350	6EP1
8223	6X4	8689	7698	9474	5763
8224	5726	8694	EF98	9509	DP7-11
8225	6AK5	8697	E91H	9531	5840
8226	6AS6	8698	8321	9532	7457
8227	5750	8699	8171	9536	6252
8229	6AQ5	8714	5X1/52ME	9632	5A/17OK
8230	12AT	8727	12E14	9685	5642
8231	6J6	8730	TY6-5000B	9686	7586
8232	6080	8731	EY84	9726	5907
8237	6X4	8732	6064	9727	7761
8238	705A	8764	ML7815	9728	6216
8239	5783	8769	31F12T7	9732	GN4D
8246	5654	8774	GXU50	9738	7895
8247	5670	8797	P831	9764	DET3
8248	5750	8820	7551	9785	7609(Ampere)
8249	6136	8862	Q/U452	9834	6C10
8280	6AX5	8884	DH7-11	9835	6D10
8287	5686	8897	6EP75	9836	6J11
8295	4CX5000A	8926	6CB6A	9837	6CM8
8297	ECL86	8959	D67-32/01	9838	6ES8
8310	5725	8973	4CX25OB	9839	6146A
8311	5726	8976	446A	9840	KU53
8312	5751	8978	A2426	9841	6542
8324	5744	9006	GXU4	9842	6829
8325	8321	9010	6AR6	9849	6AU5
8403	6AU6WB	9016	Q/U37	9850	YL1080
8405	8165	9024	DAF96	9851	6299
8406	8252	9025	DF96	9853	811
8430	6BK4	9026	DK96	9854	7543

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
9855	6EB8	10329	QQVO2-6	10707	PCL85
9856	6BN8	10330	5R4	10708	DY86
9857	6AZ8	10331	5763	10709	PL82
9858	6U8A	10332	QQVO4-16	10710	PL83
9859	12AT7	10339	DN7-11	10724	PY800
9874	AL31-10	10341	PL36	10725	PL500
9899	7576	10361	ACM3	10726	PCL82
9900	6L6442	10368	BR1122	10731	E80CF
9915	EF72	10369	QY5-3000A	10737	QQVO3-25
9916	5703	10389	7768	10744	A2688
9921	6AV6	10403	PCC88	10745	EY88
9933	E83F	10404	C1166	10746	ECL80
9934	9U8	10407	EM87	10760	A59-11W
9994	ZA9	10442	5654	10761	DY87
10098	EF86	10460	PY88	10775	E28OF
10100	6AK5	10492	6BA6	10782	PCF82
10175	12AV7	10496	6BE6	10783	PL300
10206	AW36-20	10522	C3G	10804	D30
10294	QV08/100	10553	6BF7	10813	A2975
10318	5744	10566	6112	10819	C1134P
10319	12AX7	10567	7266	10868	6EP7
10320	E88CC	10579	6CW4	10878	8020
10321	6BQ5	10604	QV08-100B	10903	8068
10322	6080	10661	GXU2	10936	5876A
10323	12AU7	10662	ECC81	10955	PL504
10324	6AL5	10664	150C4	11025	6F17
10325	13D3	10665	EN91	11106	5CX1500A
10326	EL81	10666	ECC82	11107	4CX3500OC
10327	EF91	10672	1G3	11156	M21-11W
10328	EB91	10706	A2223	11230	R5559

## BRITISH ARMY VALVES WITH COMMERCIAL EQUIVALENTS

Services No.	Commercial Equivalent	Services No.	Commercial Equivalent	Services No.	Commercial Equivalent
AD1	DLS10	ARP6	SP4	ARS6	S625
AR4	HL210	ARP7	42MPT	ARS7	V524
AR5	LP2	ARP8	AC4/Pen	ARS8	PM12V
AR6	LP2	ARP9	Pen1340	ARTH2	ECH35
AR7	4D1	ARP9a	7D8	ARTPI	TP22
AR8	HL23DD	ARP10	PenA4	ARTP2	TP25
AR9	L21	ARP11	TSP4	AT20	MZ05-20
AR10	TDD2A	ARP12	VP23	AT35	DET25
AR11	4019B	ARP13	VP21	AT37	ACT6
AR12	4020A	ARP14	220PT	ATP10	4061A
AR13	4022AR	ARP15	KTW63	ATP35	PVI-35
AR14	220RC	ARP16	6J7	ATP75	PT6
AR15	220LF	ARP17	6F6	ATPI00	4069A
AR16	220B	ARP18	KT24	ATS25	807
AR17	MH4	ARP19	SP41	ATS25A	807
AR20	4021B	ARP20	SP42	ATS70	4282B
AR21	EBC33	ARP21	Z62	AU1	U18
ARD2	D1	ARP22	116/Pen	AUB	U12-14
ARD4	D42	ARP23	HP4101	AU3A	MUI4
ARDD1	10D1	ARP24	220VPT	AU4	U17
ARDD3	6H6	ARP25	KT41	AU6	GUS
ARDD5	EB34	ARP26	KT44	AUB	U22
ARH1	X64	ARP33	MSP4	AW2	7475
ARPI	KT2	ARP34	EF39	AW3	5130
ARP2	SP2	ARP35	EF50	AW4	STV280/40
ARP3	9D2	ARP36	SP61	AW5	ME41
ARP4	SP210	ARP37	QP25	AW6	EM31
ARPF5	VP2	ARP38	KTZ73		

## BRITISH NAVY VALVES WITH COMMERCIAL EQUIVALENTS

Services No.	Commercial Equivalent	Services No.	Commercial Equivalent	Services No.	Commercial Equivalent
NGT1	DPQ	NR54	AP4	NR94	AC/P4
NGT2	GTIC	NR55	4D1	NR95	KT32
NGT4	GT1A	NR56	DO30	NS1	STV280/80
NR15	PM3	NR57	ML4	NS3	202
NR15A	PM4DX	NR58	244V	NS4	4713
NR16	PM254	NR59	KT41	NS5	304
NR16A	PM4DX	NR60	H42	NT18	DO60
NR18	DEQ	NR61	W42	NT20	PM21
NR22	PM14	NR66	D41	NT36	DA16
NR23	PM14	NR67	X64	NT37	4033A
NR26	MHL4	NR68	6Q7	NT38A	PZ1-75
NR27	ML4	NR69	EM35	NT39	ACT6
NR27A	ML4	NR70	HP4101	NT40	DET5
NR28	PM2	NR71	MS/Pen	NT58	DET12
NR31	MH4	NR72	N43	NT62	PM24D
NR35	PD220A	NR73	ECC31	NT65A	PZ1-35
NR37	AC/SG	NR74	AC6/Pen	NT82	PM202
NR38	VMS4	NR75	2XAC/P4	NU3	U12/14
NR39	KT2	NR76	KTZ41	NU5	RX3-120
NR41	210VPT	NR77	EL35	NU12	U18
NR42	LP2	NR78	6C5	NU13	U15
NR43	PM24A	NR79	Z62	NU16	GUS
NR44	AC044	NR81	6K7	NU17	MUI4
NR45	VMP4G	NR82	X65	NU18	U17
NR46	D41	NR83	6J7	NU20	5Y3
NR47	PX25	NR84	X41	NU31	MU2
NR48	EBC33	NR85	6F6	NU33	SU2150A
NR49	EF36	NR86	KTW63	NU34	HVR2
NR50	AT4	NR87	AC5/PenDD		
NR53	KT42	NR88	RL18		

# U.S.A. SERVICE TYPES WITH COMMERCIAL EQUIVALENTS

V.T. No.	Commercial Equivalent	V.T. No.	Commercial Equivalent	V.T. No.	Commercial Equivalent
1	WE203A	74	5Z4	126A	6X5G
2	WE205B	75	75	126B	6X5GT
4B	211	76	76	128	1630
4C	211SPEC	77	77	129	304TL
5	WE215A	78	78	130	250TL
6	212A	80	80	131	125K7
7	WX12	83	83	132	12K8
8	UV204	84	84/6Z4	133	12SR7
17	860	86	6K7	134	12A6
19	861	86A	6K7G	135	12J5GT
22	204A	86B	6K7GT	135A	12J5
24	864	87	6L7	136	1625
25	10	87A	6L7G	137	1626
25A	0Y-10SPEC	88	6R7	138	1629
26	22	88A	6R7G	139	OD3/VR150
27	30	88B	6R7GT	141	WL531
28	24A	89	89	143	805
29	27	90	6H6	144	813
30	01A	90A	6H6GT/G	145	5Z3
31	31	91	6J7	146	1N5GT
33	33	91A	6J7GT	147	1A7GT
34	207	92	6Q7	148	1D8GT
35	35/51	92A	6Q7G	149	3A8GT
36	36	93	6B8	150	6SA7
37	37	93A	6B8G	150A	6SA7GT
38	38	94	6J5	151	6A8G
39	869	94A	6J5G	151B	6A8GT
39A	869A	94D	6J5GT/G	152	6K6GT
40	40	95	2A3	152A	6K6G
41	851	96	6N7	153	12CBY
42	872	97	5W4	154	814
42A	872A	98	6U5/6G5	161	12SA7
43	845	99	6F8G	162	12S17
44	32	100	807	163	6C8G
45	45	100A	807SPEC	164	1619
46	866	101	837	165	1624
46A	866A	103	6SQ7	166	371A
47	47	104	12SQ7	167	6K8
48	41	105	5SC7	167A	6K8G
49	39/44	106	803	168A	6Y6G
50	50	107	6V6	169	12C8
51	841	107A	6V6GT	170	1E5GP
52	45SPEC	107B	6V6G	171	1R5
54	34	108	450TH	172	155
55	865	109	2051	173	1T4
56	56	111	5BP4/1802P4	174	354
57	57	112	6AC7/1852	175	1613
58	58	114	5T4	176	6AB7/1853
60	850	115	6L6	177	1LH4
62	801/801A	115A	6L6G	178	1LC6
63	46	116	6S17	179	1LN5
64	800	116A	6S17GT	180	3LF4
65	6C5	116B	6S17Y	181	7Z4
65A	65CG	117	6SK7	182	3B7/1291
66	6F6	117A	6SK7GT	183	1R4/1294
66A	6F6G	118	832	184	OB3/VR90
67	30SPEC	119	2X2/879	185	3D6/1299
68	6B7	120	954	187	575A
69	6D6	121	955	188	7E6
70	6F7	124	1A5GT	189	7F7
72	842	125	1C5GT	190	7H7
73	843	126	6X5	191	316A

## U.S.A. SERVICE TYPES WITH COMMERCIAL EQUIVALENTS

V.T. No.	Commercial Equivalent	V.T. No.	Commercial Equivalent	V.T. No.	Commercial Equivalent
192	7A4	217	811	245	2050
193	7C7	218	100TH	246	918
194	7J7	220	250TH	247	6AG7
195	1005	221	3Q5GT	248	3CP1/1808PI
196	6W5G	222	884	249	1006
197A	5Y3GT/G	223	1H5GT	250	EF50
198A	6G6G	224	2C34-RK34	251	WL441Series
199	65S7	225	307A	252	923
200	OC3/VR105	226	JEP1/1806PI	254	304TH
201	25L6	227	7184	255	705A
201C	25L6GT/G	228	8012	256	GL486
202	9002	229	6SL7GT	257	K-7
203	9003	230	350A	259	829
204	3C24	231	6SN7GT	260	OA3/VR-75
205	6ST7	232	E1148	264	3Q4
206A	5V4G	233	6SR7	266	1616
207	12AH7GT	234	114B	267	WLS78
208	78B	235	615	268	2SC7
209	12SG7	236	836	269	717A
210	1S4	237	957	277	417
211	6SG7	238	956	279	GY2
212	958	239	1LE3	282	ZG489
213A	6L5G	240	710A	286	832A
214	12H6	241	7E5/1201	287	815
215	6E5	243	7C4/1203A	288	12SH7
216	816	244	5U4G	289	12SH7GT

# European Type Designation

## CATHODE-RAY TUBES (Old system)

The type number consists of two capital letters followed by two sets of figures (e.g. DG13-2, MW31-16).

First letter: indicates the method of focusing and deflection.

Second letter: indicates properties of the screen.

First group of figures: indicates dimensions of the screen.

Second group of figures: indicates a serial number.

The key to this system is given in the following tables.

### *First letter*

A — Electrostatic focusing and electromagnetic deflection.

D — Electrostatic focusing and electrostatic deflection in two directions.

M — Electromagnetic focusing and electromagnetic deflection.

### *Second letter*

Indicates the phosphor screen properties.

### *First group of figures*

For round tubes : screen diameter in cm

For rectangular tubes: screen diagonal in cm

### *Second group in figures*

Serial number

## TRANSMITTING TUBES (Old system)

The type number consists of two or three capital letters followed by two sets of figures. For some types a group of letters is added (e.g. TAL12/10, DCG4/1000G).

First letter: indicates the tube classification.

Second letter: indicates type of filament or cathode.

First group of figures: indicates operating voltage.

Second group of figures: indicates power.

Added letters: indicate the tube base.

The key to this system is given in the following tables.

### *First letter*

D — Rectifying tube (included grid-controlled tubes)

M — Triode (A.F. amplifying tube or modulator)

P — Pentode

Q — Tetrode

T — Triode (R.F., A.F. or oscillator tube)

For tubes having dual systems two of the above mentioned letters are used (e.g. QQC04/15).

### *Second letter*

(third letter for tubes having dual systems)

A — Directly-heated tungsten filament

B — Directly-heated thoriated tungsten filament

- C—Directly-heated oxide-coated filament
- E—Indirectly-heated oxide-coated cathode

*Third letter*

(fourth letter for tubes having dual systems)

- G—Mercury-vapour filling
- H—Helix or other integral cooler
- L—Forced air cooling
- W—Water cooling
- X—Xenon filling

When the type number does not contain a letter indicating the cooling, the tube is radiation-cooled.

*First group of figures*

Rectifying tubes: Approx. d.c. output voltage in kilovolts in a three-phase half-wave rectifying circuit.

Transmitting tubes: Approx. max. anode voltage in kilovolts.

*Second group of figures*

Rectifying tubes: Approx. d.c. output power in watts or kilowatts per tube in a three-phase half-wave rectifying circuit.

R.F. tubes: Approx. output power in watts or kilowatts in class C telegraphy.

Modulators: Approx. anode dissipation in watts or kilowatts.

*Added letters*

- |                   |                         |
|-------------------|-------------------------|
| B—Cables          | G—Medium 4p.-base       |
| E—Medium 7p.-base | GB—Jumbo 4p.-base       |
| ED—Edison base    | GS—Super jumbo 4p.-base |
| EG—Goliath base   | N—Medium 5p.-base       |
|                   | P—P-base                |

**PHOTOTUBES AND PHOTOMULTIPLIERS (old system)**

The type number consists of two figures followed by two letters (e.g. 90AV).

First figure : indicates the tube base.

Second figure: indicates a serial number.

First letter : indicates the type of cathode.

Second letter : indicates the class of phototube.

Third letter : letter P only for photomultipliers

The key for this system is given in the following tables.

*First figure*

- |                   |                      |
|-------------------|----------------------|
| 2—Loctal 8p.-base | 5—Special base       |
| 3—Octal 8p.-base  | 8—Noval 9p.-base     |
|                   | 9—Miniature 7p.-base |

*Second figure—Serial number*

*First letter*

- A—Caesium-antimony cathode (blue sensitive)
- C—Caesium-on-oxidized-silver cathode (red sensitive)

T — Tialkali cathode

U — Caesium-antimony cathode with quartz window

*Second letter*

G — Gasfilled      V — High vacuum

VOLTAGE STABILIZERS (Old system)

The type number consists of a number followed by a capital letter, a figure and in some cases by a second capital letter (e.g. 85A2, 150C1K).

Number: indicates burning voltage.

First letter: indicates the current range.

Figure: indicates a serial number.

Second letter: indicates the tube base.

The key for this system is given in the following tables.

*Number*

Average burning voltage in volts

*First letter*

A — max. 10 mA

B — max. 22 mA

C — max. 40 mA

D — max. 100 mA

E — max. 200 mA

*Second letter*

E — Edison

K — Octal 8p.-base

P — P-base

*Figure*

Serial number

## DESIGNATION SYSTEM FOR CATHODE-RAY TUBES

### AMERICAN RETMA DESIGNATION SYSTEM

#### 21AMP4A

First Figure or Group  
of Figures  
(21)

Letter(s) Preceding  
Letter P  
(AM)

Letter P Followed by a Number  
(One or Two Figures)  
(P4A)

For round screens: dia-  
meter in inches.

For rectangular screens:  
screen diagonal in inches.

Letter(s) is (are) a serial  
code applying to tubes  
of the same diameter of  
diagonal and indicates  
particular design of tube.  
(A, B, C . . . Z, AB,  
AC, etc.)

This combination designates screen characteristics.

The suffix letter (A, B, C, or F, etc.), when used, indicates a later and modified version which can be substituted for any previous version but not vice versa.

The letter W indicates a military type and, when used, precedes any other suffix letters.

### TRANSMITTING TUBES DESIGNATION SYSTEM

#### AMERICAN RETMA

No system yet adopted

# AMERICAN RETMA DESIGNATION SYSTEM

## 12AU7

**Figure Group**  
(12)  
**Filament or Heater Voltage**

- 0—cold cathode
  - 1—between 0.1 and 2.1
  - 2—between 2.1 and 2.9
  - 3—between 3.0 and 3.9
  - 5—between 5 and 5.9
  - 6—between 6 and 6.9
  - 7—between 7 and 7.9
- etc.

**Notes:** When heater or filament is centre tapped for use on two voltages, the higher voltage number is used.

On cathode-ray types this first number refers to the screen diameter in inches.

7 and 14 are 'nominal' ratings; operation should be at 6.3 and 12.6 volts

**Letter Group**  
(AU)

Letter(s) indicating the serial order of assignment of the designation.

The letters U, V, W, X, Y, Z commonly are used to indicate rectifiers.

S—as first letter indicates single-ended tubes, related to grid-cap types.

Combinations like AB, AC, AD, and AE were used when all the single letters were used up.

S—as second letter indicates single-ended construction.

**Note:** P as second letter is destined for designation of cathode-ray types, e.g., 5KP4.

**Note:** Whenever possible, the 12 V equivalent of a 6 V tube has kept the same letters, e.g. 6SK7GT and 12SK7GT are similar except for heater rating.

**2nd Figure Group**  
(with additional letters)  
(7)

The number of useful elements.

**Notes:** In metal tubes the shell counts as one element. Shielding by or in base does not count as an element.

**Additional letters:**

- G—glass bulb ST-12 size to ST-16
- GT—glass bulb T-9 size
- GT/G—glass bulb T-9 size, interchangeable with G and GT types
- X—low loss base for HF use (ceramic)
- Y—low loss base for HF use (phenolic)

Letters A, B, C as additional letter indicating a minor change.

12AU7=12.6/6.3 heater Twin Triode

## TYPE DESIGNATION CODE FOR CATHODE-RAY TUBES

This type designation code relates to cathode-ray tubes for all applications such as: television and radar display tubes, oscilloscope tubes, monitor tubes and view finders.

The type designation consists of: ONE LETTER FOLLOWED BY TWO GROUPS OF FIGURES JOINED BY A HYPHEN, AND ONE OR TWO LETTERS

Example and explanation:

D10-11GH  
A59-11W

First letter indicates the application and/or construction of tube	First figure or group of figures indicates the screen dimensions	Second figure or group of figures	Final letters indicate the screen properties				
<b>A</b> TV display tube for domestic applications	For rectangular screens the diagonal in cm	Serial number	The first letter denotes the colour of the fluorescence (or phosphorescence in the case of long or very long persistence screens) according to the regions of the Kelly Chart of colour designations for lights, where applicable:				
<b>D</b> Oscilloscope tube, single trace	For circular screens the screen diameter in cm		<b>A</b> Reddish-purple, purple, bluish-purple				
<b>E</b> Oscilloscope tube, multiple trace			<b>B</b> Purplish-blue, blue, greenish-blue				
<b>F</b> Radar display tube, direct view			<b>D</b> Blue-green				
<b>L</b> Display storage tube			<b>G</b> Bluish-green, green, yellowish-green				
<b>M</b> TV display tube for professional applications, direct view			<b>K</b> Yellow-green				
<b>P</b> Display tube for professional applications, projection			<b>L</b> Orange, orange-pink				
<b>Q</b> Flying spot scanner			<b>R</b> Reddish-orange, red, pink, purplish-pink, purplish-red, red-purple				
			<b>Y</b> Greenish-yellow, yellow, yellowish-orange				
			<b>W</b> indicates the "standard white" television display tube phosphor				
			<b>X</b> indicates tri-colour screens				
			The second letter is a serial letter to denote other specific differences in screen properties.				
			Word description of persistence (Time to decay to 10% of initial light output)				
			less than 1 $\mu$ s	very short	1 ms to 100 ms	medium	
			1 $\mu$ s to 10 $\mu$ s	short	100 ms to 1 s	long	
			10 $\mu$ s to 1000 $\mu$ s	medium	short	more than 1 s	very long

**GROUPS OF LETTERS ALLOCATED TO EXISTING PHOSPHORS**

<i>Designation</i>		<i>E.I.A. number</i>	<i>Colour</i>		<i>Persistence (10%)</i>
<i>New</i>	<i>Old</i>		<i>Fluorescence</i>	<i>Phosphorescence</i>	
BA	C		purplish blue		very short
BC	V		purplish blue		killed
BE	B	P11	blue	blue	medium short
BF	U		purplish blue		medium short
GE	K	P24	green	green	short
GH	H	P31	green	green	medium short
GJ	G	P1	yellowish green	yellowish green	medium
GK	G <sup>1)</sup>		yellowish green	yellowish green	medium
GL	N	P2	yellowish green	yellowish green	medium short
GM	P	P7	purplish blue	yellowish green	long
GP		P2	bluish green	green	medium short
GR		P39	green	green	long
GU			white	white	very short
LA	D		orange	orange	medium
LB	E		orange	orange	long
LC	F		orange	orange	very long
LD	L	P33	orange	orange	very long
W	W	P4	white		
X	X	P22	tri-colour screen		
YA	Y		yellowish orange	yellowish orange	medium

<sup>1)</sup> Used in projection tubes

## TYPE DESIGNATION CODE FOR RADIO AND TELEVISION RECEIVING TUBES

This type designation code relates to tubes designed for use primarily in reproducing and recording equipment for domestic applications such as: radio and television receivers, record players, tape recorders and audio amplifiers, home cinema projectors, hearing aids, and similar equipment.

The type designation consists of: TWO OR MORE LETTERS FOLLOWED BY A SERIAL NUMBER

Example and explanation:

PL504

First letter indicates the heater voltage or current

Second and subsequent letters indicate the construction and/or application of the tube. (If there is more than one electrode system these letters are placed in alphabetical order.)

Serial number

D ≤ 1.4 V; series or parallel supply  
 E 6.3 V; series or parallel supply  
 G miscellaneous; parallel supply  
 L 450 mA; series supply  
 P 300 mA; series supply  
 U 100 mA; series supply  
 The use of letters A (4 V), B (180 mA), C (200 mA), F (12.6 V), K (2 V), V (50 mA), and Y (450 mA) has been discontinued.

A diode (excluding rectifiers)

B double diode with common cathode (excluding rectifiers)

C triode (excluding power output triodes)

D power output triode

E tetraode (excluding power output tetraodes)

F pentode (excluding power output pentodes)

H hexode or heptode (of the hexode type)

K octode or heptode (of the octode type)

L power output tetraode or power output pentode

M tuning indicator

Y half-wave rectifier

Z full-wave rectifier

The serial number consists of three figures the first figure indicating the type of base: 1)

1 miscellaneous base types

2 miniature 10-pin base

3 octal base

5 magnoval base

8 noval base

9 miniature 7-pin base

The last figure of tetraodes and pentodes (excluding power output tubes) indicates the type of characteristic, as follows:

even figure: sharp cutoff characteristic

odd figure: variable- $\mu$  characteristic

1) The use of remaining figures for other base types and the use of serial numbers of one and two figures has been discontinued.

## TYPE DESIGNATION CODE FOR PROFESSIONAL RECEIVING-TYPE TUBES

This type designation code relates to professional receiving-type vacuum tubes designed for use primarily in communication equipment, data processing equipment or in other industrial applications.

The type designation consists of: TWO OR MORE LETTERS FOLLOWED BY A SERIAL NUMBER

Example and explanation:

ECC2000

First letter indicates the heater voltage

Second and subsequent letters indicate the construction and/or application of the tube. (If there is more than one electrode system these letters are placed in alphabetical order.)

Serial number

E 6.3 V; parallel or series supply

A diode

C triode (excluding power output triodes)

D power output triode

E tetraode (excluding power output tetraodes)

F pentode (excluding power output pentodes)

H heptode

L power output tetraode or power output pentode

M tuning indicator

The serial number consists of four figures, the first figure indicating the type of base: 1)

1 miscellaneous base types

2 miniature 10-pin base

3 octal base

5 magnoval base

8 noval base

9 miniature 7-pin base

Serial numbers for prototypes always end in zero, those for variants in one of the figures 1 to 9. The other first figures will be used for new base types as required.

## TYPE DESIGNATION CODE FOR PROFESSIONAL TUBES

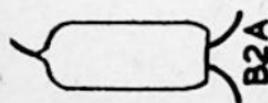
This type designation code relates to tubes designated for use primarily in radio or television transmitting equipment, in navigation or communication equipment or in other industrial applications.

The type designation consists of: TWO LETTERS FOLLOWED BY A SERIAL NUMBER

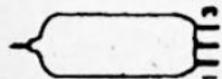
Example and explanation:

First letter indicates the category	Second letter indicates the construction and/or application	Serial number
<p><b>X</b> Tubes employing photosensitive materials</p> <p><b>Y</b> Vacuum tubes for transmitting, microwave or industrial applications</p> <p><b>Z</b> Gasfilled tubes (except tubes employing photosensitive material)</p>	<p style="text-align: center;"><b>YK1005</b></p> <p><b>A</b> diode</p> <p><b>C</b> trigger tube</p> <p><b>D</b> triode (including double triodes)</p> <p><b>G</b> miscellaneous</p> <p><b>H</b> travelling wave tube</p> <p><b>J</b> magnetron</p> <p><b>K</b> klystron</p> <p><b>L</b> tetrode or pentode (including double tetrodes or double pentodes)</p> <p><b>M</b> cold cathode indicator or counter tube</p> <p><b>P</b> photomultiplier tube, radiation counter tube</p> <p><b>Q</b> camera tube</p> <p><b>T</b> thyatron</p> <p><b>X</b> ignitron, image intensifier or image converter</p> <p><b>Y</b> rectifier</p> <p><b>Z</b> voltage stabiliser</p>	<p>The serial number consists of four figures. Serial numbers for prototypes always end in zero, those for variants in one of the figures 1 to 9.</p>

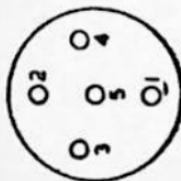
# VALVE AND TUBE BASE TYPES



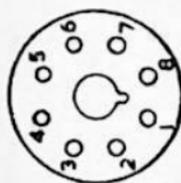
**B2A**



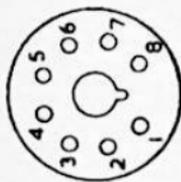
**B3G**



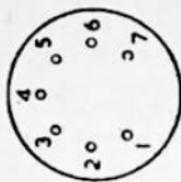
**B5**



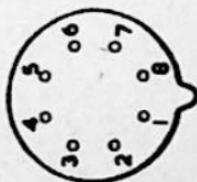
**I.O.**



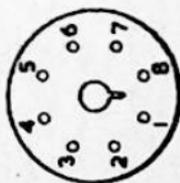
**M.O.**



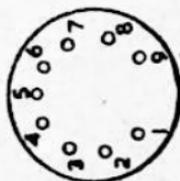
**B7G**



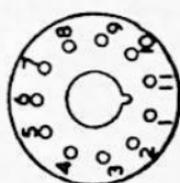
**B8A**



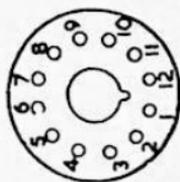
**B8G**



**B9A**



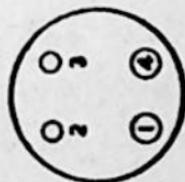
**B11A**



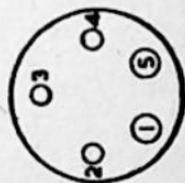
**B12A**



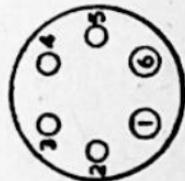
**B14A**



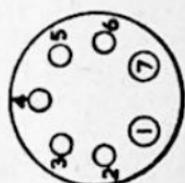
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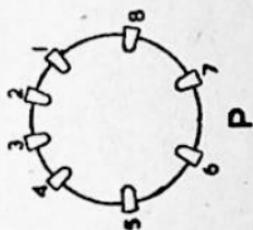
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**UX6**



**UX7**

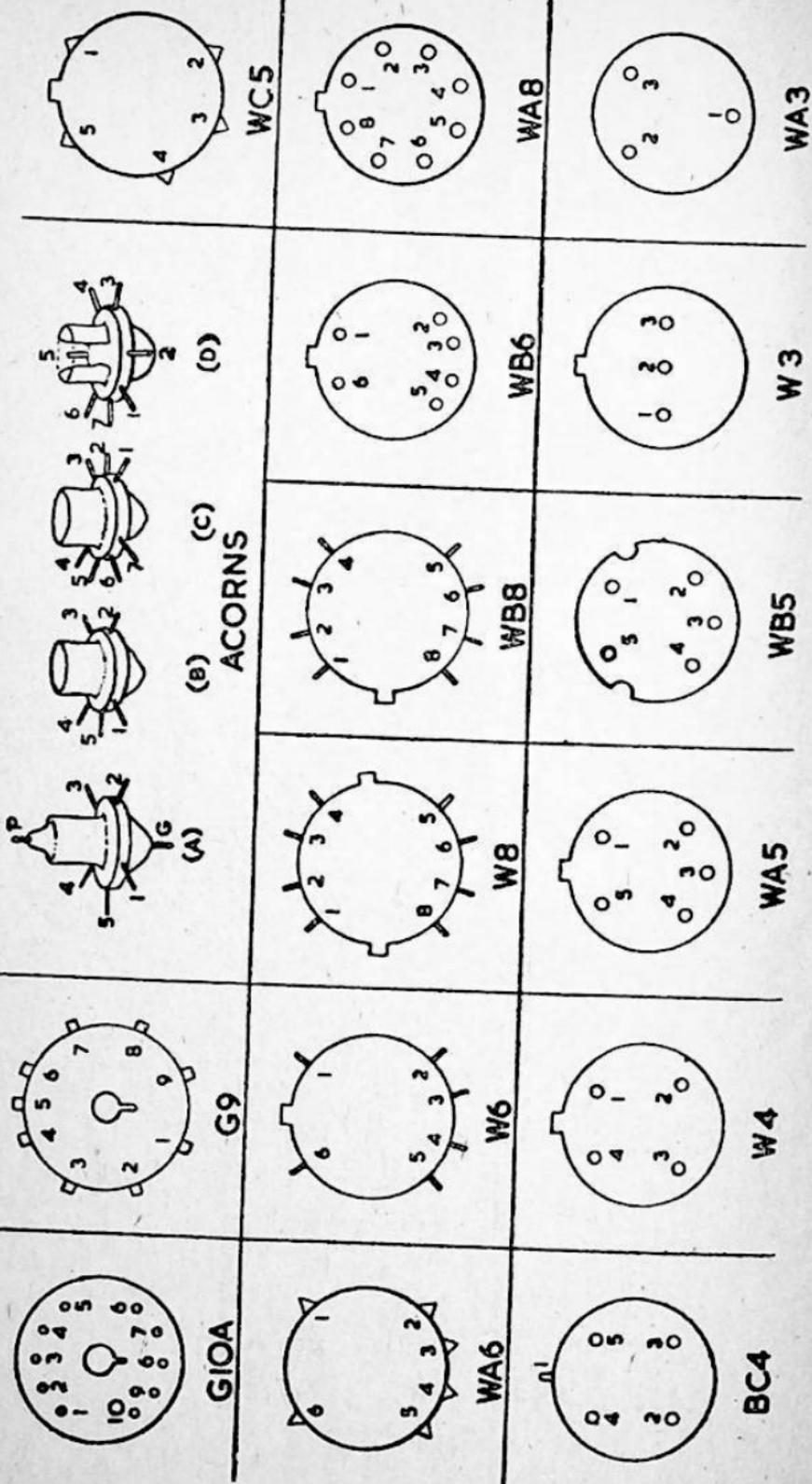


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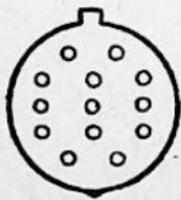
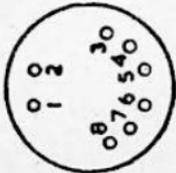
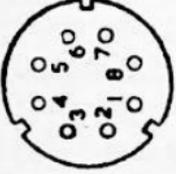
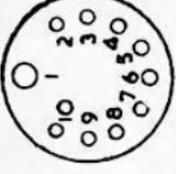
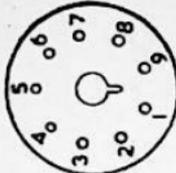
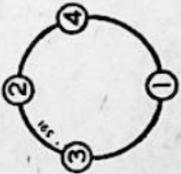
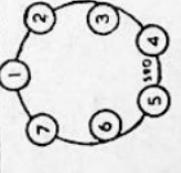
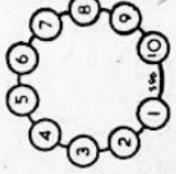
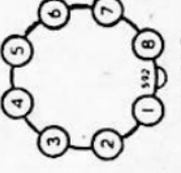
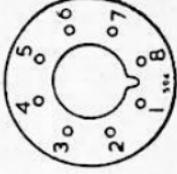
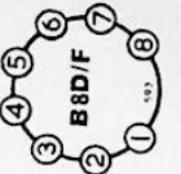


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