

RADIO, TELEVISION, INDUSTRIAL TUBE, DIODE and TRANSISTOR EQUIVALENTS MANUAL

By B. B. BABANI

**MORE THAN
20,000 TYPES
INCLUDED**

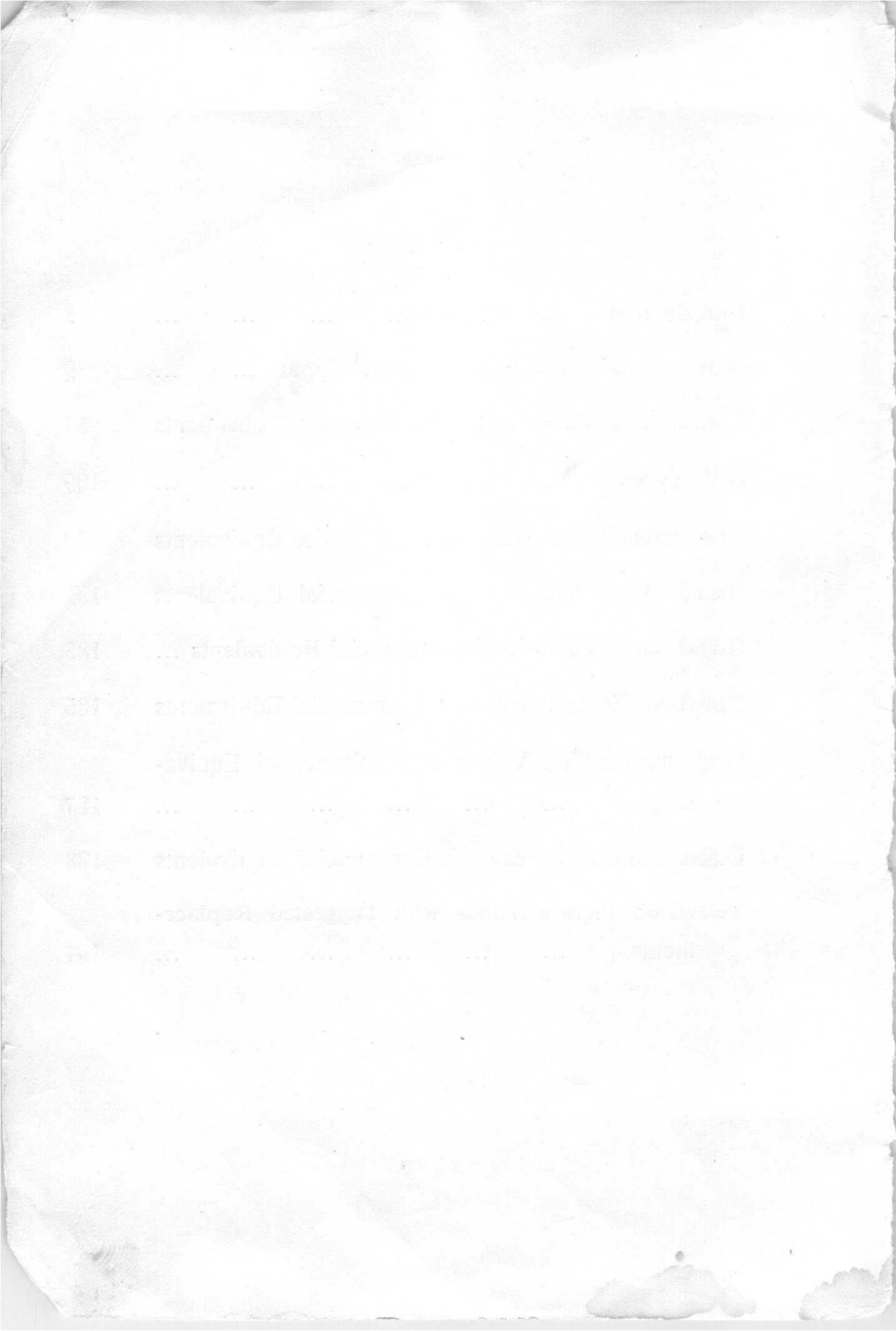
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INTRODUCTION

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

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

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

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

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

In view of the fact that many of the early Octal based valves are now becoming obsolete, and in many cases rather rare equivalents have been shown which are not necessarily identical electrical equivalents, it has been felt that this was necessary so as to enable

effective substitution to take place, and it is suggested that with these early types reference should be made to the four radio valve characteristic manuals published by this Company, so that a check can be effected on the actual operating characteristics and this will enable any minor changing of biasing etc., to be corrected. The four books in question are:

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

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

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

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

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

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

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

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

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

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

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

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

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

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1852	SU215	PP4	QEO6-50
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377	390	PT25	RK39
6SK7	U33	PT41	408
6SS7	VSL61	PT41B	5B1
6137	391	398	215SG
378	PV30	6AG7	220SG
6157	UR3C	6AK7	B262
R17	392	6P5	K40B
379	UU7	400	PM12
13D3	UU8	6AB7	PM12A
6158		1853	S2
380			S21
6174			
CK1027			

EQUIVALENTS

408 cont.

S22
S23
S24
S215
SG215
SG215A
SS210
409
DD6(Tungs)
DD620(Maz.)

410

4XP
AC104
AC044
AC054
AC064
AC084
E406N
LP4
P12/250
PP3/250
PX4
S30C

411

4THA
20A1
41TH
A36A
A36B
A36C
AC/TH1
TH4
TH4B
X41

412

4D1
C30B
CC2
DA
HL13
HL13C
HL1320

413

4/100BU
FW4/500
FW4/800
RV200/600
U18/20

414

B150
DE F16

415

150C3
GD150A/S
KD25
OD3
QS150/40
VR150/30
VR150-ST

416

150B3
GTR150M/S
QS150/15

417

19G6(Maz.)
SU45

418

1X2A
R19

419

1T2
R16
U37

420

1R4
1294

421

1S6
1T6

422

1LE3
1LF3

423

1LA6
1LC6

424

1G5G
1J5G

425

1F5
KL35

426

1E4
1G4
1H4

427

1D8
1LA4
1LB4

428

1D5G(USA)
1E5G

429

1D5
40SUA
C10B
CY1C
RZ
U4020
UR1C
V20
V30

430

1C7
1D7

431

1B5
1LH4

432

1AC5
1V5

433

1A6
1C6

SECTION 408—443

434

1A5
1T5
DL31

435

1A4
1B4
951

436

HVR2A
SU2150A

437

EL3
PP6BS

438

EL2
PP6AS

439

EK2
VO6S

440

5A/157D
EF37
EF37A
OM5A
OM5B

441

6BJ5
N78

442

12AH8
20D3

443

6AE8
X79

444	455	460	469
HVR1	4GG2	DDPP6BS	3G10
SU2190	460BU	EBL1	7E5
U16	506BU		1201
	1561	461	RGN1503
445	1821	KD21	470
HR1	4655	OA3	KD24
HR2	APV4100	QS1205	OC3
R10	DW2	VR75/30V	G105/1D
	DW3	VR75-ST	QS1206
446	DW4		VR105/30
90EG4	DW4/350	462	VR105-ST
E4412/B/9	DW4/500	KT31	
ECR35	PV4	N31	471
	PV495	PTS	OB3
447	PV4200		VR90
H42	R4A	463	VR90-ST
HL4G	RGN2004	7D5	
	RV120/350	N30	472
	RV120/500	PP13A	PEN220A
	U9	PTA	PP225
448	U10		
H20	U12	464	473
HL20	U12/14	K77A	90C1
R2108	U14	QP22A	M8206
	U150/50	QP240	
449	UU3		474
EF54	WE52	465	3D6
RL7		K70D	3LF4
	456	KT24	1299
450	DS	PEN31	DL29
EF2	H30	PEN231	
EF5		PM22D	475
EF8	457		3C6
EF9	420XP	466	XXB
451	D024	C27D	476
ECH2	D026	DDPP39M	2B7
ECH3	P27/250	PEN40DD	3B7
	PP4/500		3D7
452	PX25	467	1291
EC54		PEN20	477
RL37	458	PP2018	2B21
	DDT6S		2X2
453	EBC3	468	2Y2
EC53		7D8	143D
RL18	459	PEN13C	879
	DDPP39	PEN1340	
454	PENDD4020		
EC52			
RL16			

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SECTION 478—507

478	486	488	498
2P	1W2	6J7	6K7
2XP	1W3	1600	6U7
ACO42	1W4	1620	5732
PA20	1W4/350	7000	KTW63
S30D	1W4/500	KTZ63	W61
	408BU	Z63	W63
479	431U	489	499
2D13C	441U	210SPT	506
10D1	442BU	SP2	4619
C20C	1861	SP210	500
DD13	1867	SPT2	6Q6
ZD	1868	Z21	6T7
	1881	Z22	DH73
480	A11B	490	501
2D13A	A11C	6W7	5640
CB1	A11D	8D4	5902
DD13S	AHC		EL71
	APV4		SN947/C
	DW2		SN976
	DW4/350	491	502
481	MU12	6U6	6205
2D4B	MU12/14	6W6	EF734
DD4D	MU14	6Y6	503
	R1	492	5636
482	R2	6U4	EF730
2D4A	R3	6W4	SN1007/A/B
A20B	RV120/350	493	504
AC/DD	UU4	6SR7	6021
D41	UU5	6ST7	ECC70
DD4		494	505
DDA41	487	6SQ7	2L2
DDL4	41MH	6SZ7	U25(Maz.)
SD	41MHF	495	U47(GEC)
V914	41MHL	6SE7	506
483	41MLF	6SH7	6J4
2D2	41MRC	496	6J4WA
2D4	154V	6S7	M8232
220DD	244V	KTW61	TM12
AB1	354V	497	507
DD465	484V	6L7	6BM5
	904V	1612	6P9
	994V	X64	
484	A30B		
2C21	A30D		
33	AC/2HL		
1642	AC/HL		
	AC/P		
485	D4		
2A6	HL4+		
1659	HLA2		
	MH4		
	MH41		

508	518	527	533
6BF6	6F5	7A2	9D2
6BU6	H63	A70B	13VPA
509	519	AC/PEN	C50N
6B6	6E5	APP4A	HP13
6Q7	6T5	KT42	VP13B
DH63	OSW3110	MKT4	VP13C
510	520	MP/PEN	VP13K
6A5	6D8	MP/PENA	VPL322
6B4	X73M	MPT4	534
511	521	N40	9BM5
4Y35	6D6	PEN4VA	9P9
1810	78	528	535
512	522	6Z4	5A/100B
12SN7	7AJ7	84	9A1
13D2	7C7	529	9A3
B36	523	12A	A50M
513	7AG7	71A	A50N
E4205/B/7	7AH7	530	AC/SGVM
ECR30	524	11D3	AC/VP1
514	7C6	13DHA	AF2
6C6	DH149	202DDT	AS4125
77	525	C23B	HP4105
1603	7A7	DDT13	HP4115C
7700	7H7	HAD	LS401
515	W81	HLDD1320	MVS/PEN
6C5	W143	TDD13C	VMP4
6J5	W148	531	VMP4G
6L5	526	11D5	VP4
6S5	7A3	DH30	VP4A
L.63	42/OT	HSD	VPT4
516	42MP/PEN	532	536
6BS7	4066A	11A1	8D2
8J7	A70C	11A2	13SPA
517	A70D	A23A	C50B
6BQ6	AC/2PEN	AC/HLDD	CF1
6CU6	APP4B	DDT	CF7
	KT41	DDT4	SP13
	N41	DH42	SP13A
	PEN4VB	H4D	SP13B
	PENA4	MHD4	SP13C
	PT4	TDD4	SP13S
		537	
		5A/128B	
		8A1	
		41MSG	
		4046A	

EQUIVALENTS

SECTION 537—571

537 cont.

A50V
 AC/S2PEN
 AC/SG
 AS4120
 HP4101C
 MS4
 MS4B
 MS4V
 MSP4
 MS/PEN
 SP4
 SPT4A
538
 7Y4
 7Z4
 U82
 U149
539
 7X7
 XXFM
540
 7V7
 1231
541
 7D6
 402PEN
 402/OT
 C70D
 C70E
 PEN36C
 PEN383
 PEN3520
 PP34
 PP35
 PTZ
542
 7D3
 40PPA
543
 7B7
 W149

544
 7B6
 DH81
 DL82
545
 1V
 6Z3
546
 15A2
 41MPG
 41PGD
 A80A
 A80M
 AK1
 FC4
 MH4105
 MX40
 VHT4
 V04
 X42
547
 14J7
 14S7
548
 14C7
 1280
549
 14AF7
 14N7
 XXD
550
 13PGA
 15D1
 C80B
 CK1
 FC13
 VHTA
 V013
551
 12SR7
 12SW7

552
 5X75
 PC1.5/100
 PZ1-75
553
 12SC7
 1634
554
 12SA7
 12SY7
555
 12Q7
 DH76
 DL74M
556
 12L8
 1644
557
 12K7
 KTW74M
 W76
558
 12K8
 X71M
 X76M
559
 12B7
 14A7
560
 DA30
 DO30
 PA40
 PX25A
 V503
561
 D1
 T4D

562
 CY31
 OM1
 U201(Mar.)
563
 CY3
 PV30S
 UR3
564
 CY1
 UR1
 V20S
565
 CL4
 PEN26
 PP24S
566
 CK1003
 OZ4A
567
 5799
 VX21
568
 CF2
 HP13S
 VP13A
569
 CBL1
 DDPP39S
570
 CBC1
 DDT13S
 TDD13
571
 4GG3
 1817
 RGN4004

572	582	590	601
APP4G	41ME	41MPT	1877
N43	A39A	HP4101	HVR2
573	AM1	591	V21/7000
AL3	TV4	41	602
AL4	TV4A	42	500BU
APP4BS	583	592	1821
574	A27D	40Z5	1861
AC/TP	DDPP4M	45Z5	DW2
TP4	PEN4DD	593	R1
575	584	40	RV120/350
AC/SP3	25X6	01A	U10
TSP4	25Z6	00A	UU3
576	585	594	603
AC/ME	25A6	37	6SC7
VME4	KT33	76	1655
577	586	595	604
AFH202	24A	36	446A/B
E1191	35	39	1656
578	51	44	605
AC/5PEN	587	U76	25
APP4B	47	596	4061A
PT10	1610	35Z4	606
579	588	U74	P35
A70E	42/OTDD	597	RL12P35
AC/4PEN	AC/2PenDD	32	RS287
APP4E	DDPP4B	34	607
PENB4	DN41	598	GTR120A
580	PT4D	27	S130P
A50P	589	56	608
AC/VP2	3B/100B	599	332PEN
MVS/PENB	41MP	26B6	CL33
VP4B	41MPX	26D6	609
W42	104V	600	202STH
581	AC/P	25RE	302THA
A50B	AC/P1	25Y5	C36A
MS/PENB	L4	25Z5	C36B
SP4B	LL4		C36C
	LS429		TH21C
	ML4		TH29
	054V		
	PA1		
	TT4		

EQUIVALENTS

SECTION 609—636

609 cont.

TH30
TH30C
TH2321

610

240QP
K77B
QP21
QP22B
OP230
OPT2

611

EHT1
V1901

612

220VS
220VSG
K40N
PM12M
PM12V
S215VM
SE211C
VS2
VS24

613

220TH
TH2
X24

614

220PT
230PT
Pen220A
PM22
PM22C
PP225
PT240

615

220P
220PA
230XP
K30G
LP2
LP220
P2
P220

615 cont.

PB1
PM2
PM2A
PM202
SP220

616

220HPT
220/OT
K70B
KT2
Pen220
PenB1
PM22A
PT2

617

220B
240B
B21
CB215
K33A
HP2
PD220
PM2B

618

215P
P215

619

210VPA
210VPT
HP211C
K50M
VP2
VP21
017JLA
VPT2
W21

620

210PG
210PGA
210SPG
K80A
K80B
FC2
FC2A
VHT2A
X21
X22

621

210DET
210HF
210HL
210LF
210RC
B228
HL2
HL21
HL210
HLA1
HLB1
HR210
K30A
K30B
K30C
K30D
K30E
K30K
L2
L21
LD210
LL2
PM1HF
PM1HL
PM2D
PM2DX
PM2HL

622

117L7
117M7

623

210DDT
DDT2B
H2D
HD22
HD23
HD24
HL21/DD
K23A
K23B
TDD2A

624

ESU74
V1922

625

CMG25
G518
GS18

626

117N7
117P7

627

85A1
OE3

628

57
58

629

50Y6
50Z7

630

50L6
KT71

631

F/5726
M8237

632

F/6057
M8214

633

F/6067
M8149

634

F/6060
M8144

635

F/6064
M8140

636

6939
QOE02/5
QQV02-6

637	647	654	660 cont.
95A1	2C31	2J30	3B25
GTR95M/S	RK33	2J31	3B27
QS95/10		2J32	3B28
638	648	2J33	249A/B
75B1	2C34	2J34	866A
QS75/20	33A/138A	2J69	966/A
639	34	M510	3096
7475	3074A	655	3572
QS92/10	4047A	2J36	3885A
640	DET19	M512	38166
2C36	RK34	656	AG366A
2C37	649	2J42	AG866A
5765	90CV	55035	AH201
5766	CMV29	JP9-7	AX224
5767	FZ9012/V	JP9-7D	DCG4/1000G
641	VS50	M503	DCX4/1000
6CC42	650	M526	DQ2
5670	2C38	ME503A	DX2
642	2C39	ME1101	ESU103
90AG	2C39A	ME1101D	ESU866
CAG29	3H/150J	657	F366A
FZ9011G	3H/151J	2J42A	GL866A
GA50	3X100A11	6027	GU12
643	3852A	JP9-15	GXU1
2B26	5648	M513	ML727
866jr.	ML381	ME1101A	ML866A
5695	SV2C39A	658	PA5021
644	TD1-100A	2K25	R66
2C22	ZP572	55390	RG3-250A
7193	651	K340	RG250/3000
645	2C40	KS9-20A	RR3-250
2C23	ZP620	TH2225	TH5021
210	652	659	TH5221
646	2C43	2T/450E	UE966/AV
2C25	464A	378A	VH550A
3B/151A	3881A	705A	VT46a
10Y	TD3.5-12	8021	VT46A
205E	ZP613	660	VX550A
1602	653	2G/402A	WT262
4205E	2C44	2H28	XB4/400
	ZP570	2H66	Z225
		2V/400A	661
		2XM600A	3A/141A
			101D
			4101E
			662
			3A/142A
			102D
			4102D
			4102E

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663	671
3A/144A	3-25D3
104D	3C24
664	24G
3B24	B1109
3B24W	CE303
230	PE130A
732A	PE130C
A239	VT204
CE220	672
CE230	3-25A3
665	3C34
3B/200B	24
T20G	HK24
TZ05-20	673
666	3C45
3B/501A	6130
4C25	BT79
HK54	FX227
667	PL345
3B/850A	TG30
242C	TH6345
668	XH3-045
3C21	674
ZB120	2G/472B
669	2V/471A
3C22	3C/150A
3C29	4B32
522	4H32
PL522	4H72
670	319A
3C23	872
4G23	872A
ASG5023	972A
CE311	3070
ELC1A/K	4064B
FG81A	8000
PL323	38172
TH6230	AG872A
TQ1/2	AH217
WL3C23	AX230
WTT108	DCG5/5000GB
	DCX4/5000
	DQ4
	ESU872
	F353
	F353A
	F872B

674 cont.	680 cont.
G5B	PE340
GL4B32	Q160-1
GL872A	QB3/300
GXU2	QY3-125
HF200	RS685
ML319A	RS1007
ML8008	TT16
R72	TT16D
RG1000/3000	681
RR3-1250	4-250A
TH5031	5D22
TGRB	5D24
UE972	5F22A
UE972A	6156
VH7400	C1112
VT42a	E250A
VT42A	E400A
VX7400	OY4-250
WL463	Q400-1
675	QB3.5/750
3D22	QY4-250
4G/401A	RS686
676	RS1002
3D23	682
TB35	4B25
677	1674
3E21	CE221
829	CE224
678	WL670A
3E29	683
QQV5-P10	5745
679	5747
3J/160E	WE394
7C26	684
680	4B26
4-125A	288A
4D21	289A
4D23	1163
5D21	2000
6155	18049
AT340	68506
E125A	178148
E1870	178149
OY3-125	189049
	289414
	289416
	CE226
	F60
	WE289A

685	693 cont.	702	708
4B27	ME1503	4J31	5C22
CE201	PL435	4J32	6279
686	TG200B	4J33	AX9912
4B30	TH6435	4J34	FX219
4C30	XH8-100	4J35	HT415
15R	694	4J53	PL522
8022	4E27	M518	TG1000
8023	4E27A	M518A	TH6522
687	5-125B		XH16-200
DET23	257	703	709
ME1005	257B	4-60A	5C27
TD03-5	8001	4PR60A	227A
688	HK257	5D21	710
6755	695	715A/B	4B13
PL6755	4J26	715C	4T100
689	55246	C1111	5C/100A
3-100G3	696	C1133	813
4B35	4J27	P535/1E	3874A
5C37	55247	P552/1E	C143
327A	697	PSN1	QB2/250
690	4J28	QEP20/18	QY2-100
4C21	55032	QV20-P18	TT10
211	55248	X643F	
242B	698	704	711
835	4J29	4F15R	5C/450A
4211D	55249	4H/135M	ESP450
4211E	699	4X150A	712
691	4J30	3861B	5C/500
4C22	55250	7034	5C/500A
HF100	700	QEL1/150	P300-1
RK51	4J50	QV1-150A	
692	4J50A	X424D	705
4C34	55030	705	5A/120A
HF300	JP9-250	329A	713
693	M502	706	4GG1
1G35	M523	5B/700A	1823
4C35	TH1450	828	PY4100
6268	701	D177	714
AX9911	4J52	PB1/150	5D23
FX225	4J52A	707	RK65
GL515	JP9-80	5C21	715
	JP9-80A	CE306	5FP4A
	M551		MW13-35
	TH1452		

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716	725	733	741
5FP7-A	203A	212E	4C/100A
5T01A	203B	4212E	260A
MF13-1	295A	AF350	860
		MY3-275	4260A
717	726	734	742
11C1	203H	217C	3A/135A
A2293	HF125	253	264A
718	727	735	4264A
7C24	204A	222B	TC2/250
5762	ES204A	4222B	
ACT30	728	AW223	743
BR132	207	CAR1	3C/350E
BR191	BW175		270A
BR191B	ESW207		4270A
BTL2-1	ESW892C	736	225/200A
719	729	3Q/150E	
12X825	211C	228A	744
68510	261A	4228A	274A
720	838	737	4274A
E135	HF130	233A	745
RL12T15	RK58	4222Z	275A
721	730	738	4275A
3C30	211D	238B	746
30Z	HF140	653B	278A
809		5555	4278A
722	731	BK46	
44A/160M	211H	FG238B	747
TT15	311CH	PL5555	4A/137B
723	331A	SDR	281A
3-100A2	805	739	4045A
4T16	841SW	242	748
50T	4242A	4242A	4B/700A
100TL	8003	ES85	282B
RK36	F123A	740	4282B
724	GL805	3-250A4	
105	HF150	5T21	749
MT105	HF175	250TH	284D
PL105	ML714	454H	846
Ste2500/6/40	NU150	E900	750
TH6120	RK57	ET1000	296A
WTT118	T100-1	HK454H	849
XGQ2-6400	732	RK63	
	212D	TB4/800	
	MC2-200	TH250T11	
		VT220	

751	758	766	775 cont.
3B/400A	22	2J53	C1134
300A	28	725A	P2-12
4300A	28A	55040	QQE03/20
	322	TH1725A	QQE04/15
752	803		QQV03-20A
3-50G2	P120-2	767	QQV04-15
3B/504B	PC2/500	800	RS1019
32(Trans)	RK28A	RK30	SRS4452
304B	759	768	TT20
834	5A/136A	802	776
4304CA	328A	4063A	5T33
4304CB	4328A		357B
8019		769	833A
DET12		810	B142
TB1/60A	760	DET17	ES883
TB1/60G	RSQ15/5		TVTB
TSW50	S15/5d	770	TY4-350
TY1-50	TQ6	815	777
UH50	761	QQV04-20	44(Trans)
753	350A	771	837
3T20	RK49	827R	OS12/500
305D	762	CR139	PE04/10E
801A	3C/351H	772	RK44
	357A	2B29	778
754	4357A	829B	Det20
5B/151A	ES357	C144	E1148
75	763	P2-40B	779
307A	575A	QQV07-40	845
3307A	ESU400	773	T110-1
4307A	764	830B	780
RK75	2-100A	RK31	857A
755	100R	774	4079A
310A	578	831	781
4310A	8020	WL674	7H57
756	GL451	775	857B
313C	R6174	2B32	AH205
4313C	RY12-100	2B52	DQ7
KB-758-B	V40	832A	G100A
	WL578	6252	GL857B
	765	C180	TH5071
757	722A	782	868
3B/303H	CE302	834	3534
316		CE1E	
4316A			

EQUIVALENTS

SECTION 783—809

783	790	799	807
869A	928	5B/600A	5553
4078A	3533	804	BK34
784	791	3052A	PL5553
2V/531E	1267	4052A	
5H69A	5728	RK20	808
869B	FG67	800	2G57
3078A	0A4G	3B/352E	272
6508	PL1267	4056A	287A
AG369B	Z300T	DET25	967
AH213	792	801	1701
DCG9/20	1645	5B/100A	4261
DQ6	RK60	406A	5557
G20/5d	793	RK25	5594
G40	C17/4A	802	5644
GL869B	MW43-80	5C/101A	38217
GLE20000/2.5/10	794	3069A	ASG5017
TH5040	ASG5044A	4069A	CE309
VT29a	TQ2/3	RK28	FG17
785	795	803	M8216
873	4004B	3B/650A	MT16
973	5620	3B/851A	MT17
TQ4	796	4012A	NL715
WL678	3Q/181E	4094A	PL17
786	4006A	DET6	PL5557
887	4220C	804	Ste2500/05/2
BW129	BW173	5544	TH6011
EHW5000	CAT1	ASG5544	TQ2
ESW5000	797	BT91	TT17
787	2V/470E	ELC3J	UE967
889R	2V/500C	MT5544	WL17
BR129	4049C	PL5544	WT272
EHA5000	4049D	TX2/3	WTT117
ESA5000	AH221	XR1-3200	X65-500
788	ESU200	805	XG5-500
8T92	GU20/21	5551	
892	RG4-1250	BK42	809
BW147	798	PL5551	3V/390A
ESW892	A207	806	1257
TAW10/10	ESU77	5552	5559
789		BK24	6807
8T92R		FG235A	BT5
892R		PL5552	CT1/2500
BR175		WL656	FG57
ESA892			GRG250/3000
TAL10/10			MT57
			0517
			PL57
			PL5559
			Ste1000/2.5/15
			TG57
			TH6031

809 cont.

WL631
WT111
XG1-2500

810

5713
BR154

811

5763
6062
A4541H
BR1130
M8096
QEO3/10
QVO3/12

812

5800
ME1402
VX124

813

5802
ME1401

814

5293
5820
7293
P807

815

5861
DET22
EC55
ME1001
R243
TD03-10

816

5866
AX9900
RS613
RS1006
TB2.5/300
TY2-125

817

5822
PL5822

818

5867
9901
AX9901
B1135
RS630
SRS360
T350-1
TB3/750
TY3-250

819

5868
AX9902
RS631
RS1016
TB4/1250
TY4-500

820

5869
AGR9950
DCG6/6000

821

5870
AGR9951
DCG12/30

822

2B94
5894
5894A
9903
AX9903
C178
C178A
QQE06/40
QQV06-40
QQV06-40A
RS1009

823

5895
AX9905
QQCO4/15
QQZO4-15

824

5923
AX9904
TBW6/6000
TY6-5000W

825

7C23
5924
AX9904R
TBL6/6000
TY6-5000A

826

6028
SV40H

827

6075
AX9907
CW1100
QBW5/3500
QY5-3000W

828

6076
AX9907R
CR1100
QBL5/3500
QY5-3000A

829

6077
AX9906
TBW12/100
TY12-50W

830

6078
AX9906R
TBL12/100
TY12-50A

831

6079
AX9908
QB5/1750
QY5-500
RS687

832

6083
AX9909
PE1/100

833

6146
QEO5/40
QVO6-20

834

566S
C16J

835

427A
6141

836

1N21B
CS2A
CS37A

837

2T/270K
6305
R10
SU44

838

11E13
6360
QQEO3/12
QQVO3-10

839

8005
HF60

840

8011
WL538

841

4C27
8026

EQUIVALENTS

SECTION 842—876

842	852	862	872
3G15	D075	MT69	6538
AFX203	MC1-50	RS69	Z800U
C1A	RV246	W69	
843	853	863	873
AN1	E4504-B16	FVD7	6539
GT1C	ECR60	HR7	Z801U
ME1502			
844	854	864	874
3V/340B	ES253	P120-1	6779
BT19	RS253	RK48	Z803U
CT1-500			
XG2-500	855	865	875
	ESU101	PL255	3-50A4
845	GU50	XG2-12	35T
CAM262T	RG1-240A		DET18
RS262		866	876
846	856	PT6	1N34
CAT257T	5B/252M	SW75	1N34A
RS257	5B/255M	Z1-75	1N43
	5B/256M		1N45
847	LS650	867	1N47
2B25		6786	1N48
CK1091	857	BT69	1N48A
	HY60	DCG7/100	1N49
848	RK56	DCG7/100B	1N50
DA6/1500	858	RG5/12CG	1N52
ESU1500AX	HY69	Ste15000/15/45	1N52A
RG44	RK66	XG15-10	1N54
		XG15-12	1N54A
849	859	868	1N57A
DA41	723A	RK18	1N65
SW40H	723B	T40	1N65A
TZ40	55391	T50-1	1N66
	KS9-20	T55	1N67
850	ME1100	V70D	1N67P
BS60	RHK6332		1N69
DA60		869	1N86
DO60	860	ES207	1N89
MZ05-60	12AEP26	RS207	1N126
	C12R		1N126A
851	MF31-55	870	1N135
BS100	VCRX267	RS247	1N294
DA100		TZ1-75	1N297
ES1102	861		1N476
MZ1-100	MT31	871	2X103G
RV2400	RS31	RZ1-250	2X/104G
	W31(trans)	U15	2X/105G
			2X/106G
			400A

SECTION 876—904

876 cont.

BH60	877	889	898
CG1	8F66R	2N45	5632
CG1C	6166	12	5684
CG1E	CR192	13	6011
CG4C		300	C3J/A
CG6E	878	CK722	NL710
CG41-H	1P21	DR108	PL6011
CG44-H	27M1	GTV	
CK705	931A	OC32	899
CK705A		OC110	5683
CK705AP	879	OC601	C1J/A
CK705P	814	T ₃	
CK707	RK47	T34F	900
CK707P		890	3G/501A
CK713	880	3V/490A	6G45
CK801	PT15	BT17	5545
CK802	SW40PEN		5685
DS60		891	ASG5545
DS61	881	3Q/310E	C6J/A
DS160	1B35A	RS566	ELC6J/A
GD1E	6038		MT5545
GD4E	882	892	PL5545
GD5	1S203	3B/252B	TGZ106
GEX44	652C	61P	TH6220
GEX45/1	883	3033A	TX2/6
GEX54	5653	4033L	XR1-6400
GEX55	CE5653	893	901
GW40		6Z5	3C31
GW603	884	12Z5	5664
HD2057	Z70U	894	C1B/A
M34a	Z700U	857	902
M550		2664	5823
M550a	885	895	ST90K
NU34	5556	3V/531E	Z900T
0A50	PJ8	3079A	903
0A51	886	3801A	4H88
0A55	CT1-2500	3802A	8008
0A56	SV57	896	DCG5/5000GS
0A71	887	3080A	904
0A72	2N394	4080A	6693
0A74	2N425	897	DCG6/18
0A79	888	6Q5	GL575A
0A81	K12/24	884	RG4-3000
0A150	VC12/20	T-66G-GT	
0A172E			
RL131			
RL132			
SD34			
SD46			
SD54			
WG5B			
WG6A			

EQUIVALENTS

SECTION 905—949

905 6618 TBL12/25 TY12-25A	916 3AMP1 DG7-32	928 5YP1 DG13-54	939 DBM10-12 DGM10-12 HR2/100/1.5
906 6617 TWB12/25 TY12-25W	917 3WP1 DG7-36	929 5YP7 DP13-54	940 17BTP4 AW43-80
907 8T21R 9C22 BR137B	918 3WP11 DB7-36	930 5YP11 DB13-54	941 21CJP4 C21/1A MW53/80
908 4-65A QY3-65	919 4EP1 DH10-94	931 7AHP1 DG15-22	942 17BQP4 C17/1A MW43-69
909 1CP1 DH3-91	920 5ADP1 DG13-34	932 DNM10-12 HR2/100/1.5N	943 2K26 KS7-85
910 1EP1 DG3-12A	921 5ADP11 DB13-34	933 DBM10-14 DGM10-14 HR2/100/1.5/6	944 3-200A3 592
911 3ACP1 3JP1 DG7-14	922 5BHP1 DG13-58	934 DNM10-14 HR2/100/1.5/6N	945 2J51A JPT9-60
912 3ACP7 3JP7 DP7-14	923 5BHPZ DN13-58	935 DBM16-12 DGM16-12 HR2/160/1.5	946 6159 QE05/40H
913 3ACP11 3JP11 DB7-14	924 5BKPI DH13-97	936 DNM16-12 HR2/160/1.5N	947 5796 XR1-1600
914 3AFP1 DH7-91	925 5CP1A DG13-2	937 DBM16-14 DGM16-14 HR2/160/1.5/6	948 5855 XR1-12
915 3ALPI DG7-5	926 5FP7 MP13-39	938 DNM16-14 HR2/160/1.5/6N	949 1907 5949 FX229 TG3000 TH6907 XH25-500

SECTION 950—990

EQUIVALENTS

950	961	970	981
5976 KS7-85A	7292 JN2-2.5W	3J/121E ACT9 BR152B	4D32 C1123
951	962	971	982
6807 XR1-6400A	7091 JN2-2.5A JP2-2	5771 BW165	6181 CR1101
952	963	972	983
6960 TBW7/8000 TY7-6000W	17ARP4 17ASP4 17AXP4 171K MW43-22 MW43-43 MW43-61 T908	14KP4A 141K MW36-22 MW36-24	3D22A CX1113
953		973	984
6961 TBL7/8000 TY7-6000A		2C42 TD3-12	3B22 EL1C
954	964	974	985
6972 JP9-75	7090 JP2-0.2	2C46 TDO5-12	FX215 GHT1
955	965	975	986
7004 TBL2/300 TD2-300A	5609 JP2-0.1	QK533 N1034	AH211 AH211A GU11
956	966	976	987
7028 JP9-25	1P32 55CG 927 3530 3546 CE20/C CE25/C CMG34 GS47	N1010 QK610	2G/473C AX228 GXU3 RR3-1250A
957	967	977	988
4H/136M 4X150D 7035	1654 VM1	6866 E702	90AV CAV29 FZ9011V VA50
958	968	978	989
7092 TB5/2500 TY6-800	2-25A A235	ACT14 BR140	JP9-7A M508
959	969	979	990
RS614 RS1006B TB2.5/400 TY2-150	3J/161J BR1129	ACT16 BR153	90CG CMG29 FZ9012/G GS50
960		980	
4X500A 6F50R QY4-500A		ACT29 BR1138	

EQUIVALENTS

SECTION 991—1033

991	1002	1013	1025
4J78	4-400A	8T71R	4G63
JP9-250A	C1136	5671	5563
M511	QY4-400	1014	1026
TH1478	1003	9T71	4G93
992	AH238	5770	393A
4J43	RG3-1250	1015	1027
4J44	1004	2J56	4H73
M536	FX231	JP9-50	673
993	KU25	1016	1028
5586	1005	3-50D4	3-150A3
M542	K329	35TG	152H
994	SAL-39	1017	152TH
7182	1006	3-75A3	1029
M543	K353	75TH	3-150A2
995	V154	1018	152T
6861	1007	3-75A2	152TL
N1022M	K351	75T	1030
996	VA201B	75TL	3-250A2
7389	1008	1019	150T
P822	K358	K345 series	250TL
997	V54	VA220 series	454L
6474	1009	1020	VT130
P817	3-1000A4	12XP4A	1031
998	4T17	MW31-74	3-300A3
6326	100-TH	1021	304H
P813	1000T	BW187	304TH
999	1000UHF	CAT20C	VT254
7295	HK254	1022	WL535
P811	RK38	2E22	3-300A2
1000	VT218	2P22	304L
6198	1010	66	304T
P810	6G10	1023	304TL
1001	FG105	2T26	VT129
7294	1011	826	WL525
P809	4-1000A	1024	1033
1002	7F25A	3G94-4	3-450A4
1003	1012	394A	450TH
8T21	8T21		854H
9C21	9C21		E450TH

SECTION 1033—1069

EQUIVALENTS

1033 cont.

F450TH
VT108
WL450

1034

3-450A2
300T
450TL
854L

1035

3-750A2
750TL
1054L

1036

3-2000A3
2000T

1037

3-1500A3
1500T

1038

5UP1
DG13-22

1039

2-250A
250R
371B
TR40M

1040

1N81
1N81A
1N295
1N616
BW6
CG2
CG5
CK706A
GEX33
GEX35
GSD5/40
GW20
M56
M820
0A60
0A73

1040 cont.

0A159
0A160
RL133
RL141
SD60
WG5

1041

1S202
651C

1042

150AVP
6199
6291

1043

2J50
55038
TH1250

1044

2J49
55039
TH1249

1045

5B21
1164
68508
180238
217283
766776

1046

K81A
R290

1047

DCG1.5/250
VU72

1048

55395
KT9-150W

1049

802B
56000

1050

4J21
4J22
4J23
4J24
4J25
5J26
55230
M541
TH1526

1051

TB3/350
TH100TH

1052

TA12/20000K
TAW12/20

1053

TB4/1500
TY5-500

1054

RS1031W
TBW12/50

1055

RS1031L
TBL12/50

1056

DCG1/250
RG1-250
RG250/1000

1057

QE04-7
QE04/10

1058

GTE125000
TA18/100
TH108

1059

DGG4/5000
ESU300

1060

E1200
TB3/1000

1061

2V/471C
4064A
DCG5/5000EG
DQ4a
VH7400A

1062

DCG4/1000ED
DQ2a
GLE10000/025/1
HG2
K2
VH550

1063

21CLP4
AW53-80

1064

C12A
CRM121A
CRM121B

1065

C9A
CRM91
CRM92A

1066

14AHP4A
AW36-80

1067

6704A
6706A

1068

6703A
6705A

1069

6501
6504

EQUIVALENTS

SECTION 1070—1113

1070 172K MW43-64	1082 ESU866ES RG3/250	1093 3P/270B 129B F129B	1104 5588 5946 6161
1071 C3m TS49	1083 3AP1 906 906P1 2501A1	1094 5628 FA13	1105 5CP12 DB13-2
1072 T12/2 T12/3 T12/44	1084 2B4 885	1095 5629 FA14	1106 ES1500A MT13
1073 MW41-1 T901B	1085 4J42 700/B/C/D	1096 5740 FP54	1107 ES250M TZ2-250
1074 MW31-18 MW31-23	1086 5MP1 2505A5	1097 6C22 F600N L600	1108 3A/108A 3A/122A AR12 4020A
1075 C12FM MW31-16	1087 5LP1 2511A5	1098 1B21A 471A	1109 3A/107B 425XP AR11
1076 C12F MW31-15	1088 GET2 VG11	1099 PE8 VS18BO	1110 3A/108B 3A/122B 4020B
1077 1P28 27M3	1089 2AP1/A 1814P1 C7483	1100 420A 5755	1111 3A/110B 4022B
1078 KT67 VX3050	1090 2C33 RX233A	1101 2-150D 152RA	1112 3A/109B 3A/126B 4021B AR20
1079 1B23 729A WE729A	1091 3EP7 1806P1	1102 6002 QK221	1113 3A/110A 4022AR AR13
1080 3Q/191E 3Q195E	1092 BW153 CAT9	1103 6410 QK338	
1081 GS46 PE7B			

SECTION 1114—1131

1114	1124 cont.
3A/109A	929
3A/126A	CE29
4021A	
1115	1125
1P30	1P40
71A3	930
CE2/A/B/C/D	CE30
PG80	GS16SO
1116	1126
12TO1A	4B36
12TO3A	20X672
MF31-95	
1117	1127
707B	9LP7
K307	ZP455
1118	1128
G24E	BW140
GM5B	CAT6
1119	1129
G60E	2N27
GM1B	2N28
	2N34
1120	2N36
GC10B	2N41
Z303C	2N46
	2N64
	2N65
	2N77
	2N79
1121	2N80
GS10C	2N104
Z502S	2N105
	2N115
1122	2N116
3-50J4	2N138
53A	2N175
	2N187
	2N188
1123	2N191
1B32	2N192
532A	2N196
	2N197
	2N207
1124	2N215
1P39	2N220
59	2N237
61DV3	2N265
71D	2N280
	2N369

EQUIVALENTS

1129 cont.	1129 cont.
2S101	RR20H
302	RR21
CK66	RR21H
CK721	RR34
CK722	RR34H
CK725	ST3A
CK727	ST3B
CK872	ST3C
DR100	ST6
DR102	ST34F
DR108	ST121
DR109	ST122
DR110	ST123
DR126	ST300
DR127	ST301
DR128	ST302
DR154	T34/A/B/C
EW56	TF65
EW58	TF65(Green-Violet)
GFT20	TF65/30
GFT21	TRC32
GT14H	TRC34
GT20H	TRC65
GT38	TRC66
GT81H	TRC70
GT222	TRC71
HA1	TS1
HA2	TS2
HA3	TS3
HA8	TS13
HA9	TS14
HA10	TS162
HC1	TS163
I ₁	TS164
OC57	TS166
OC58	TS206
OC59	TS207
OC65	TS208
OC66	TS619
OC70	TS621
OC71	V10/15A
OC75	V10/30A
OC103	V10/50B
OC110	
OC120	1130
OC130	1N618
OC302	OA95
OC303	
OC304	1131
OC604	6011
RR14	PL6011
RR14H	

EQUIVALENTS

SECTION 1132—1161

1132	1133 cont.	1140	1151
ESU151	GSD4/10	56CG	1P33
TV101	GW60	CMG32	CE26
	GW80	GS146	
	GW120		1152
1133	HD2051	1141	919
1N38	HD2053	CMG33	CE31V
1N38A	HD2067	GS44	
1N44	HD2071		1153
1N55A	M38a	1142	934
1N55B	M70	CMG33X	CE34
1N57	M3100	GS44X	
1N58	OA81		1154
1N58A	OA85	1143	5581
1N61	OA161	CMG34	CE59
1N62	RL143	GS47	
1N63	WG7C		1155
1N63A	WG7D	1144	1P37
1N68	1134	918	CE91
1N68A	3C/270A	CE1	
1N70	MY3/275	1145	1156
1N70A	V1505	1P31	5583
1N75	1135	CE3	CE5583
1N75A	3V/500A	1146	
1N88	EST102	1P36	1157
1N127		58A3	1P41
1N127A	1136	CE4	CE1P41
1N142	DA42	1147	1158
1N175	ES1101	1P35	PL260
1N290		CE5	XG2-25
1N476	1137	1148	1159
1N477	1048	917	7AHP11
1N478	68530	CE11V	DB16-22
1N479	1138	1149	1160
BH80	CG6	920	1N276
CK708	CG12	CE21	1N631
CK708P	GD3	1150	1161
DS61	GEX34	923	1N40
DS61s	GW4D	CE23	1N41
DS161	M60	R85A/AV	1N314
DS161s	OA61		V301
DS611	OA70		
DS1611	OA159		
GC4-C	RL145		
GC10-E	WG4		
GC42-H	1139		
GC50-H	52CG		
GD2E	CMG22		
GD3E	GS16		
GD8			
GEX56			
GSD2.5/9			

SECTION 1162--1178

EQUIVALENTS

1162	1166	1170	1177
1N107	1N60	1N301	1N111
1N109	1N64	1N301A	1N112
1N148	1N64A	1N350	1N113
1N283	1N87	1N457	1N114
1N306	1N105	1N462	1N115
1N308	1N125	CK736	1N119
CK740	1N132	CK746	1N120
CK741	1N367	CK856	1N191
OA6	1N616	HD6002	1N192
OA180	CK706	HD6006	1N480
T13G	CK706P	OA129	1N490
T14G	OA160		HD2013
T21G		1171	HD2014
T22G	1167	1N137	HD2077
T25G	1N354	1N137A	HD2078
	CK863	1N137B	OA186
1163	CK863A	1N432	T6G
1N46	OA132	1N456	T7G
1N51		1N461	T17G
1N51A	1168	HD6001	1178
1N90	1N302	HD6005	1N95
1N116	1N302A	OA128	1N96
1N128	1N352		1N97
HD2060	1N353	1172	1N97A
HD2063	1N434	1N138A	1N98
HD2068	1N434A	1N138B	1N98A
HD2072	1N459	1N300	1N99
OA174	1N463	1N300A	1N99A
	CK737	CK735	1N100
1164	CK860	OA127	1N100A
1N267	CK861		1N108
1N268	HD6003	1173	1N116A
1N541	HD6008	1N439	1N117
1N636	OA131	OA126/11	1N118
LD-27			1N118A
OA172E	1169	1174	1N139
	1N303	1N438	1N140
1165	1N303A	CK852	1N141
1N542	1N351	OA126/8	1N144
DS80	1N433		1N145
DS180	1N433A	1175	1N270
GD3P	1N458	1N437	1N273
GSD5/106	1N460	OA126/6	1N277
OA172	1N460A		1N279
RL231	1N464	1176	1N281
RL232	CK738	1N436	1N283
RL233	HD6007	OA126/4	1N287
RL234	HD6009		1N288
RL247	HD6027		1N289
	OA130		1N291

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1N292
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 1N312
 1N419
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 1N502
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 CK739
 CK747
 CK748
 HD2055
 HD2056
 HD2058
 HD2059
 HD2061
 HD2062
 HD2064
 HD2065
 HD2066
 HD2070
 OA180
 T1
 T2
 T2G
 T3
 T3G
 T9G
 T11G
 T12G
 T16G
 T18G
 T20G
 T23G
 T24G
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 1N266
 1N617
 1N618
 G5S3

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 1N39A
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 1S112
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 1S113
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 1S002

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 1S404
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 1S401
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 1S005
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 1S004
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 CTP1117
1198
 2N128
 2N129
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 2N248
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 L5108
 L5121
 L5122

SECTION 1178—1205

1198 cont.

OC44
 OC45
 SB100
 ZJ71
 ZJ72
 ZJ73
1199
 2N174A
 CTP1501
1200
 2N161
 2N161A
 2N333
1201
 2N160
 2N160A
 2N332
1202
 2N274
 2N344
 2N345
 A2
1203
 2N346
 2N384
 T1164
 T1166
1204
 2N386
 2N638A
 X-166
1205
 2N157A
 2N387
 2N538
 2N539A
 2N589
 2N638B
 CTP1112
 X-163

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1206

2N375
2N459
2N538A
2N639B
X-168

1207

2N278
2N441
2N442
2N677
CTP1506
CTP1509
X-173

1208

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2N456
2N639
X-171

1209

2N176B
2N176W
2N399
2N400
2N637
CTP1137

1210

2N90
2N130
2N130A
2N131
2N131A
OC65
OC320
OC330
OC622

1211

2N88
2N89
2N132
OC66
OC340
OC624

1212

2N133
OC360
OC623

1213

2N43
2N43A
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2N60
2N62
2N85
2N86
2N87
2N106
2N109
2N138A
2N180
2N181
2N185
2N187A
2N188A
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2N206
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2N223
2N224
2N226
2N241
2N241A
2N270
2N281
2N291
2N319
2N320
2N321
2N331
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2N363
2N381
2N382
2N383
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2N406
2N407
2N408
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2N462

1213 cont.

2N465
2N466
2NJ9
2S103
CK727
CK751
CK878
CTP1032
CTP1033
CTP1034
CTP1035
CTP1036
CTP1320
CTP1330
CTP1340
CTP1350
CTP1360
DR100
GET104
GET106
GET114
GFT20
GFT32
GT14
GT20
GT31
GT32
GT33
GT74
GT81
GT83
GT109
GT300
GT301
GT302
GT310
H10A/B/C
J1
J2
J3
JP1
OC32
OC33
OC34
OC38
OC72
OC74
OC76
OC308
OC603
OC604(Spez.)
RD350

EQUIVALENTS

1213 cont.

RD352
RD353
ST12
ST34G
ST121
ST123
T34D/E/F
T1000
T1001
TF65(White)
TF75
TR19
TR81
TR87
TR88
TR721
TR722
TR811
TRC72
TRC73
TRC76
TRC602
TS17
TS161
TS165
TS630
XC101
ZJ13

1214

2N78
2N94
2N111
2N111A
2N112
2N112A
2N117
2N135
2N136
2N139
2N166
2N218
2N231
2N232
2N233
2N308
2N309
2N322
2N323
2N324
2N409

EQUIVALENTS

SECTION 1214—1233

1214 cont.

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2N413A
2N414
2N414A
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A01
CK759
CK760
CK761
CTP1400
CTP1410
GFT44
GT222
GT225
GT759
GT760
GT761
H8D
H8E
H8F
HF1
IF1
OC45
OC390
OC612
TS620

1215

2N125
2N126
2N127
2N167
2N182
2N183
2N184
2N193
2N312

1216

2N119
2N162
2N162A
2N163
2N163A
2N335

1217

2N35
2N94A
2N97A
2N98
2N98A
2N99
2N148A
2N149A
2N150A
2N169A

1218

2N357
2N634

1219

2N225
2N227
2N282
2xOC604(Spez.)

1220

2N173
2N443
2N574
2N575
2N628
2N677B
B-134A
CTP1504
X137

1221

2N637A
X-167

1222

2N174
2N174A
2N574A
2N575A
2N629
2N630
2N677C
B-134B
CTP1500
CTP1502
CTP1503
CTP1511

1222 cont.

CTP1512
DT80
DT100

1223

2N31
G11A

1224

2N30
G11

1225

2N234
2N234A
2N255
2N256
2N307
2N554
CTP1104
CTP1108
CTP1109

1226

2N418
B-113

1227

2N420
2N420A
X-160

1228

2N638
CTP1111
X-172

1229

2N539
2N540
2N540A
2N637B
CTP1112
X-164

1230

2N277
2N627
2N677A
B-134

1230 cont.

CTP1505
CTP1508
CTP1514

1231

2N236B
2N376

1232

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2N123
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2N311
2N358
2N411
2N412
2N415
2N415A

2N416
2N440
2N447
2N635
CK761
CK762
CK766/A
CK830

GT122
GT223
GT228
GT762
HS3
HS4
OC613
TS621

1233

2N145
2N146
2N148
2N149
2N150
2N165
2N169
2N194
2N216

SECTION 1233—1250

EQUIVALENTS

1233 cont.

2N228
2N229
2N292
2N306
2N313

1234

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2N168

1235

2N100
2N170

1236

2N147
2N164A
2N168A
2N172
2N211
2N212
2N253
2N254
2N293
2N314

1237

2N44
2N45
2N54
2N55
2N56
2N61
2N186A
2N302
2N303
2N402
2N403
OC76

OC602Spez.
TS615

1238

2N68
2N71
2N83
2N83A
2N84
2N95
2N101
2N141

1238 cont.

2N143
2N155
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GFT26
MN24
MN25
MN26
MN32
OC16
OD603
T1040
T1041
X169

1239

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2N48
2N49
2N63
2N76

1239 cont.

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2N519
301
CK723
DR126
DR129
DR139
GFT20
GTE
I₁
OC33
OC70
OC73
OC120
OC602
TF65(Red-Yellow)
TS619

1240

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2XOC602

1241

2N284
2XOC602Spez.

1242

2N207A
2N207B
CK727
OC603

1243

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2N581

1244

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2N426
2N578

1245

2N397
2N428
2N521
2N580

1246

359A
395A
727A
WE395

1247

6AR6
6098

1248

2K28A
6133

1249

5528
C6L
CE326

1250

5550
BK66
GL415
WL681
WL686

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SECTION 1251—1296

1251 5554 FG259B WL679	1262 5643 SN949/C SN982	1273 5704 CK606BX	1285 5811 G10
1252 5558 FG32	1263 5645 SN957A	1274 5710 Z1450	1286 5806 P10
1253 1295 5560 FG95 WL632A	1264 5646 SN1006	1275 5734 C796C C798B	1287 212 5813
1254 5561 FG104	1265 5656 QM322	1276 153B 5780	1288 5817 SRC12
1255 5566 ML101	1266 5663 GL546 GL549	1277 5789 X7107	1289 5818 SRC13
1256 5575 ML100	1267 5666 ML309	1278 5790 X7108	1290 5834 WL649
1257 376B 5589	1268 5667 ML309R	1279 5791 X6007	1291 5835 WL653
1258 5625 KC4 WL616	1269 5668 ML308	1280 5792 ATR345	1292 5836 SD1103
1259 5633 SN-944	1270 5669 ML308R	1281 5793 ATR346	1293 5853 TR368
1260 5635 SN955B	1271 5686 QM328	1282 5797 Z1723	1294 5854 CK503AX
1261 5639 SN953A	1272 5687 TS229	1283 5798 Z1724	1295 5857 NU2091C
		1284 5801 VX41A	1296 508 5858

SECTION 1297—1342

1297	1309
5863	5921
X7109	ATR348
1298	1310
5864	5927
ATR321	TR350
1299	1311
5865	5929
TR361	X190
1300	1312
5897	5939
SD993C	WX3320
1301	1313
5898	70N
SD992C	5941
1302	1314
5904	70NB
SD988C	5942
1303	1315
5905	90N
SN983B	5943
1304	1316
5883	90NB
ATR381	5944
1305	1317
75N	1754
5887	5948
1306	1318
5906	5956
SN985B	E-36
1307	1319
5908	5957
SN984A	E-37
1308	1320
5916	5958
SN986B	E-40

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1321	1332
5959	151N
E-41	5980
	BS-2
1322	1333
5960	5649
S-340	5650
	5981
1323	QK269
5962	1334
BS-101	5987
1324	SC968B
5969	1335
QF452	6003
1325	QK46
5970	1336
QF455	6018
1326	SB846F
5971	1337
QK478	6022
1327	ATR332
5972	1338
QF453	6043
1328	QK159
5973	1339
ZV1798	6047
1329	XA-34
5974	1340
WX3318	604A
	6048
1330	6558
128A	CW10
2522N1	REL10
1331	1341
150N	6054
1880	R2151
5979	1342
BS-1	6090
	RBE-18A

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1343 6107 BS-212	1355 1N23B 1N32	1365 3ABP1 K-1051P1	1377 6G12 7H12
1344 6108 BS-213	1356 1G6 1288	1366 3BP7 3JP7	1378 7ACP19 K1097P19
1345 6109 BS404	1357 1AG5 2E41 2E42 2F41	1367 3C25 8025	1379 7XP2 K-1052P2
1346 6177 QK363	CK551AXA	1368 3C27 3C37	1380 12SP7D Z4316
1347 5893 A2317/C	1358 1B59 R1130B	1369 3FP7A ZP540	1381 292A 352A
1348 5876 A2351	1359 1B85A 380D	1370 3J30 3J31	1382 905 FJ405
1349 5675 A2352	1360 2E31 2E32	1371 4J47 720CY	1383 6J21 5607
1350 5794 A2354	1361 2E35 2E36	1372 4J51 728AY	1384 5622 B-25
1351 5831 A2275	1362 2G21 2G22	1373 4J62 OK 59 OK 60	1385 5623 B47
1352 1B48 5517	1363 2J61 706A/AY 706B/BY 706C/CY 706D/DY	1374 4J63 OK 61 OK 62	1386 OK 547 V-34
1353 1B24A 1B60	1364	1375 5CP7A 5FP5	1387 5851 6147 6397
1354 12JP7 12SP7	2J62A 706EY 706FY 706GY	1376 5J29 Z675	1388 6115 QK351

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1389	1401
QF6	6213
RK61	VXR-130
RK62	1402
1390	6260
5994	WX3346
HK57	1403
1391	416A/B
6032	6280
C7128B	1404
1392	6299
1B58A	Z3011
6117	1405
1393	6312
6122	V270
Z1700	1406
1394	6314
6123	V290
Z1701	1407
1395	6313
6124	6316
Z1702	BL800A
1396	QK436
6127	V151
Z1704	V280
1397	1408
6126	6322
Z1908	BL25
1398	1409
6143	6344
CK1039	QK235
1399	1410
6144	6378
TT1	BL-62
1400	1411
6183	6402
6942	QK437

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1412	1423
6403	6845
QK303	QK386
1413	1424
6436	6959
CK1036	QK172
1414	1425
6442	6ER5
Z1911	EC95
1415	1426
6452	3ER5
Z1963	PC95
1416	1427
6517	10ER5
QK358	UC95
1417	1428
6568	6ES8
BL28	ECC189
1418	1429
6615	21ES8
BL312	UCC189
1419	1430
6619	7ES8
Z1957	PCC189
1420	1431
6620	9EN7
Z1947	30C15
Z1951	1432
1421	9GB8
6640	30FL1
BL60	1433
1422	2J2
6695	U26
HK253	U49
QK253	1434
	3A/145J
	S25A

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1435 2V/490C 4077A	1447 5B/151B 4307AB	1459 5B/350A LS580	1470 5D/100A LS412
1436 3A/146J DV17 S26A	1448 5B/502A LS450	1460 3D/100A LS422	1471 5A/102D LS452
1437 3A/147J S27A	1449 3D21A 5B/152D	1461 2V/401C 4017B	1472 1N71 1N73 1N74 CK709 DS70 DS170 GD1Q GD2Q OA154Q
1438 3B/102B LS585	1450 3D/150G 4015A SS1969	1462 3Q293E 4030D	1473 OA5 OA181
1439 3A/148J DV32	1451 3Q/200A 4081A	1463 3B/351A 4043C	1474 BuE GFT2006 GTL OD604 TF85 X78c X125
1440 3B/401J DV34	1452 3D/101E0 4251AX	1464 3B/750E 4062A LS49	
1441 5A/136D 4328D	1453 3B/503A 4304B	1465 2W/542E 4008B	
1442 5B/251M 5B/254M	1454 3B/503B 4304BB	1466 3Q/180E 4014A SS968	
1443 5J/180E LS610	1455 5A/105A LS448	1467 3Q/120G 4013C SS1966-3	
1444 3D/120E 279A 4279A	1456 5A/164K 408A LS408A	1468 3Q/211E SS1971	
1445 5B/300B LS410	1457 5A/102A VLS452	1469 3S/390G 4059A	
1446 3C/200G 4060A	1458 3Q/212E 4081A		

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C.V.	Commercial Types	C.V.	Commercial Types
1	DC51	64	E1342
2	DAG1	65	PEN25
3	E1228	66	EC54
4	E1229	69	M507
5	RG4-1250	71	Osglim
6	DET20	72	V1120
7	E1209	73	11E3
8	E1248	74	ESU74
9	AL60	75	4313C
12	AFH202	76	M501
13	BT9B	77	"K"
14	XN	78	E1474
15	E1266	79	E1429
16	3A/145J	80	VF01
18	DET19	81	VF08
19	EHT1	82	3A/147J
20	V1906	84	3B/102B
21	VP41	85	W2023
22	BT45	86	V1507
23	E1287	87	KRN2
24	HL41	88	3A/148J
25	ES85	89	E1430
26	QY2-100	90	E1368
27	4357A	92	4C27
28	3J/121E	93	V625
29	E1235	94	DS103
30	4270A	95	R3/10
31	FW4-800	96	R3/16
32	ESU866	97	R2/10
33	4077D	98	R2/38
34	MR10	99	M519
38	E1342	100	V1924
39	S22AF	105	E1371
40	E1255	108	BM313
41	E1267	109	9PK5
42	E1256	110	VS68
44	E1155	114	E1265
45	S130P	115	E1415
46	8011	116	KR6/1
49	5B/501A	117	E1417
51	Y65	118	SP61
52	E1231	119	XJ
53	3A/146J	120	MF
54	VU/33A	121	19H1
55	E1190	122	E1336
56	E1325	123	E1330
57	E1271	124	QV05-25
58	E1273	125	24C3
62	E1046	126	E1362
63	E1323	127	3B/401J
		128	SU750
		129	KRN2A

C.V.	Commercial Types	C.V.	Commercial Types
130	KRN3	200	MZ2-200
131	9D6	201	V630
132	6H1	202	YF
133	6C4	207	AC/P4
135	EY91	208	E1487
136	6AM5	209	MX57
137	EAC91	211	V2030B
138	EF91	212	G210/1C
139	6AQ4	214	E1531
140	6AL5	215	E1497
141	U4B	216	VR150/30
142	U2	217	KRN3
143	U3	218	KRN3
144	U4	219	E1046
145	U5	220	631P1
147	U7	221	TTR31
148	U8	222	44A/160M
149	U7	223	KRN2A
150	PK150	224	KRN2A
152	RG3-1250	225	ACT17
153	E1411	228	V246A/1K
154	E1419	229	E1336
155	E1190	230	V230C/1D
158	KR3	232	MF
159	AL1	233	BS5
160	M258	234	V230A/1K
161	VS26	235	U19
162	5Z094	236	E1465
163	5744WA	237	KR6/2
164	CG3E	238	KR6/3
165	CS36A	240	ACT24
166	GEX54/3	242	CMG25
167	TY4-500B	243	4045A
168	XD60	244	4046A
169	XD61	245	4328D
170	12SF7GT	248	GS16
171	W21	249	3A/107A
172	E1468	250	CMG
173	EF55	251	MX57
174	E1459	252	E4504/M/16
175	XSG1.5	253	CS3A
176	XPI.5	254	30D!
177	M125H	255	VCR516
178	E1458	256	GTK95M/S
180	KR4	257	ACT22
181	ECC32	258	E1273
182	E1488	259	E1495
185	PM202	260	SP61
186	E1342	261	R10
187	U19	262	9MD6
188	7475	263	NE19
189	BS4	264	API188
190	DLS10	265	19E2
191	E1494	266	E1366
192	E1481	266	E1366
199	NT99	267	E1366

C.V. TYPES

268—400

C.V.	Commercial Types	C.V.	Commercial Types
268	E1360	339	24B2
269	VCR97	342	DLS19
270	VX3027	343	6F32
271	VX6020	344	E1323
272	KR6/4	345	12E1
273	TD03-10	346	EZ22
275	V1042	347	EBC21
276	11E2	348	VX4012
277	19G3	349	V2030F
278	B65	350	E1368
279	ECR30	351	EBC33
281	X61M	352	DET23
282	E4504/M/16	353	M500
283	6AL5	354	TD03-5
284	75B1	355	E1511
285	VA35	356	E1511
286	95A1	357	D165747
287	150B3	358	EF37
288	ACT23	359	NE17
289	G400	360	NE18
290	E1527	363	VX363
292	E1481	366	6AG7
295	BS54	367	1N21B
296	EF55	368	9-3
298	5626	369	1B35
299	V230A/1K	370	JP9-7A
300	VCRX156	371	19G6
301	VX301	372	XH3-045
302	ECH22	373	VX380
303	EF22	374	S3A
304	EL22	375	2B35
305	EF51	377	V1135C
306	MX52	378	GZ37
307	6LY1	379	ACT19
309	QV04-7	380	EF54
310	NHP1	381	VX4024
311	5L/444	382	T24/40JA
312	VX312	383	T24/40JB
313	QYS50-P40	384	DET5
315	TY1-50	385	DL71
319	E1453	386	DF70
320	E4103/B/4	387	DL72
321	KT66	388	VX4055
323	KRN2	389	401CAHA
324	GU8	390	VCRX244
326	15B	391	5B/255M
327	EF52	392	VCRX241
328	L9	393	VX7026
329	6F33	394	EM34
330	EC53	395	G180/2M
335	E4103/B/4	396	VCRX245
336	E4103/B/4	397	TD04-20
337	27M1	398	12E12
338	E1524	399	MH4
		400	30E7/T1

C.V.	Commercial Types	C.V.	Commercial Types
401	VCRX246	456	E1633
402	VX4071	458	BTR32
403	V2053	459	BTR34
404	FVD7	460	BS48
405	55CG	461	BS92
406	E1423	462	BS84
407	VCRX221	463	BS82
408	A1714	464	9L01A
409	A1820	465	EF72
410	K3A	466	EF73
411	GM5	467	EF70
412	A800	468	EC70
413	G150/2D	469	EA76
414	VX2040	470	VX8036
415	44A/160M	471	EL70
416	6F17	472	EF74
417	6AQ4	473	EY70
418	MX2	474	EN70
419	DET18	475	EF71
420	VCRX277	476	EF74
421	BW187	477	5899
422	QS108/45	482	A237
423	13D1	483	QV04-7R
424	QQV06-40	484	DL92
425	2X/106G	485	V246A/1K
426	R12	486	V2046A
427	P552/1E	487	CRT/51
428	5B/254M	488	BS90
429	MF31-55	489	BT75
430	29C1	490	19H5
431	85A1	491	12AU7
432	ME1400	492	12AX7
433	BIC/1E	493	6X4
434	QS75/60	494	B12
435	GT11	495	ME1401
436	ACT25	496	CG14
437	KT67	498	NE17
438	G120/1B	499	5B/253M
439	22/11BXA	500	6T7G
440	1601ABC	501	EBF32
441	V1052	502	LD210
442	0A73	503	5W4GT
443	DF70	504	6U5
444	MZ1-75	505	MT16
445	5J/180E	506	8023
446	3Q/260E	507	REL64
447	3V/531E	508	1B49
448	2X/105G	509	6V6G
449	85A2	510	6V6
450	EL38	511	6V6GT
451	ET3	512	6W7G
452	6AT6	513	4J53
453	6BE6	514	2J36
454	6BA6	515	6Y6G
455	12AT7	516	3GPI

- CG 6114

C.V. TYPES

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Commercial
Types

0Z4A
AC/VP1
PEN4DD
VP2B
R4410
7B7
12Y4
TT12
12A6
12A6
DA60
VA16
12AH7
GT1E
12C8
AH205
CAT17
12J5
12J7GT
4120AA
12SA7
12SA7GT
1B23
12SC7
1B3
5J23
12SK7
12SK7GT
AC/SP3/RH
12SQ7
12SQ7GT
LP2
25A6
25A6GT
25L6
25L6
25L6GT
D63
25Z5
QP25
D42
25Z6
25Z6GT
TSP4
35L6
35L6GT
DA30
35Z3
35Z3
RGNO2
35Z5
35Z5
ECC35
3Q/191E
50L6GT

C.V.

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517—625

Commercial
Types

6X5G
6X5
6X5GT
5U4G
1B26
1B36
6A8G
6A8
6A8GT
6C5G
6C5
6C5GT
PE7B
6C6
EL37
6Q7G
6Q7
6Q7GT
6SJ7
6SJ7
6SJ7GT
GZ32
6SH7
6SH7
2C45
2X2
715C
1851
DG13-2
5HP1
3AP1
2C23
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6Z4
211
801A
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C.V.	Commercial Types	C.V.	Commercial Types
626	808	681	708A
627	810	682	713A
628	811	683	316A
629	814	684	274B
630	826	685	VR150/30
631	828	686	VR105/30
632	829	687	2C40
633	829A	688	TD3.5-12
634	832	689	700A
635	ES833	690	RK48A
636	836	691	357A
637	837	692	0Z4
638	838	693	HF300
639	843	694	12SG7
640	860	695	4J42
641	861	696	4J42
642	ESU872	697	12SJ7
643	874	698	12SJ7GT
644	875A	699	4J42
645	876	700	12SR7
646	879	701	892R
647	884	702	830B
648	885	703	12K8
649	956	704	RK20A
650	958A	705	1D5
651	991	706	6U7G
652	1603	707	4C25
653	1611	708	161
654	1612	709	RK72
655	1613	710	368A
656	1616	711	32
657	1620	712	38
658	1622	713	1B27
659	1625	714	C6A
660	6AC7	715	6F5
661	1853	716	8013
662	8012	717	5R4GY
663	8025	718	5FP7
664	9002	719	2J21A
665	9003	720	723A
666	9004	722	725A
667	9005	723	1619
668	DET18	724	816
669	279A	725	1B24
670	HK645	726	35Z3
671	8021	727	1N21B
672	706A	728	1P5
673	717A	729	5V4G
674	721B	730	6A3
675	722A	731	6F6GT
676	726A	732	6W4
677	701A	733	REL8D
678	702A	734	228A
679	703A	735	845
680	707A	736	905

C.V. TYPES

737—847

C.V.	Commercial Types	C.V.	Commercial Types
737	906	791	2B7
738	953	792	2C22
739	3AP1	793	2C33
740	5MP1	794	2D2
741	5LP1	795	2D4A
742	1267	796	2D13C
743	GET2	797	2D21
744	GET4.5	798	2E22
745	HK24	800	2J22
746	648P1	801	2J54
747	6AC7	802	2C26A
748	725A	803	2V3
749	1N23A	804	2V3
750	01A	805	50Y6
751	HY75	807	DL93
752	0A4G	808	DCC90
753	1D13	809	3A/105B
754	1A4P	810	1P31
755	1A5G	811	3B7
756	1A5GT	812	732A
757	1A6	813	959
758	1B4P	814	3BP1
759	1B5	815	3D6
760	1B7	816	3DP1
761	1B22	817	3EP1
762	1C21	818	3O4
763	1CA4	819	3Q5GT
764	1D5	820	3S4
765	1D7G	821	4A1
766	1E5	822	4B24
767	1F4	823	7A
768	1F5	824	4E27
769	1F6	825	4SHA
770	1F7	826	AC/TH1
771	1G5	828	4TPB
772	1G6	829	4TPB
773	1G6	830	4TSP
774	1H4	831	5AP1
775	1LA6	832	5AP1
776	1LB4	833	89
777	1LC5	834	5B/300B
778	1LC6	835	5BP1
779	1LD5	836	5BP4
780	1LH4	837	12C8
781	1LN5	838	5CP7
782	1R5	839	5BP1
783	1S4	840	5H4
784	1S5	841	5U4
785	1T4	842	5W4
786	1T5	843	6AB5
787	2A7	844	6AC5
788	QQV04-15	845	6AC5
789	3C24	846	6AC7
790	2AP1	847	6AF6

C.V.	Commercial Types	C.V.	Commercial Types
848	6AG5	907	12A
849	6AJ7	908	12A5
850	6AK5	909	12A7
851	6B4G	910	12A8
852	6C4	911	12B8
854	6C7	913	12DP7A
855	6C21	914	12DP7
856	6G8	915	12FP7
857	6H7	916	12H6
858	6J6	917	12J7GT
859	6J8	918	12K7GT
860	6K5	919	12SF5
861	6K5	920	12SF5
862	6L5	921	12SF7
864	6P7	922	12SH7
865	6SD7	923	12SJ7
866	6SJ7	924	12SL7
867	6SR7	925	12SN7GT
869	6V5	926	4B35
870	6V7	927	12Z3
871	6Z5	928	13-4
872	6Z7	929	13SPA
873	6ZY5	930	14F7
874	7	931	15
875	2C21	932	GL446A
876	7A6	933	8023
877	7A7	934	4B30
878	7A8	936	24
879	7B4	937	25A7
880	7B5	938	25AC5
881	7B5	939	25B6
882	7B6	940	25B8
883	7B8	941	HK24
884	7BP7	942	25Y5
885	7C5	943	26
886	7C5	944	27
887	7C6	945	28D7
888	7D7	946	28D7
889	7D8	947	31
890	7E5	948	32L7
891	7E6	949	33
892	7E7	951	32A
893	7F7	952	4081
894	7G7	953	32G
895	7H7	954	20K
896	7K7	955	4409
897	7J7	956	4602
898	7N7	957	32E
899	7O7	958	26J
900	7R7	959	20K
901	7Y4	960	E4504/B/16
902	7W7	961	V1047
904	ESA892	962	E4504/E/16
905	9HP7	963	09J
906	1602	964	ECR30

C.V. TYPES

966—1122

C.V.	Commercial Types	C.V.	Commercial Types
966	E4504/M/16	1061	DET19
967	E4103/B/4	1062	TY1-50
979	DLS10	1064	DW4-500
984	52A	1065	SP61
986	15A	1066	P61
987	30C8/T1	1067	L63
989	41DS	1068	STV280/40
995	6AJ5	1069	STV280/80
996	1637	1070	7475
997	VT15B	1071	U52
998	2000T	1072	RG1-240A
999	3C22	1073	6F5
1000	4D1	1074	KTZ63
1001	SU2150A	1075	KT66
1002	E1192	1076	DA41
1018	Z21	1077	EM31
1019	P215	1078	D1
1020	PM2	1079	KT8C
1021	210LF	1080	307A
1022	220PA	1081	4052A
1023	230XP	1082	X24
1025	DET25	1083	VP21
1027	210LF	1087	14L
1028	220VSG	1088	832
1029	ESU150	1089	TV03-10A
1030	T250	1090	E1046
1031	ESG250	1091	EF50
1032	PM2B	1092	2B35
1034	DET3	1095	ZA2
1035	QP230	1096	5B/502A
1036	220PA	1097	E4504/B/16
1037	AC/HL	1098	E960T
1038	MHL4	1099	X66
1039	UU5	1100	KTW62
1040	PP5/400	1101	MHLD6
1041	PM12M	1102	BL63
1042	210LF	1103	6M1
1043	X22	1104	PT15
1044	HD24	1105	ML6
1045	X56	1106	VP1322
1046	PT25H	1107	15D2
1047	TZ05-20	1108	8D2
1048	215SG	1109	4D1
1049	210SPT	1110	S130
1050	HL2K	1111	19G7
1051	220PT	1112	V1026
1052	EL32	1113	U17
1053	EF39	1114	E1024
1054	EB34	1116	6F32
1055	EBC33	1117	41MTL
1056	EF36	1118	KT2
1057	EK32	1119	DDL4
1058	VT58A	1120	SU2150A
1059	955	1121	T41
1060	807	1122	PA1

C.V.	Commercial Types	C.V.	Commercial Types
1123	EF8	1182	MHD4
1124	MS/PEN	1183	W42
1125	MS/PENB	1184	A373
1126	4SH	1186	KT63
1127	PEN46	1187	D41
1128	AN1	1188	N43
1129	MS/PENT	1189	AC6/PEN
1130	HL23	1190	AC/P4
1131	VCR131	1191	KTZ41
1133	SU41	1192	Z62
1134	HVR2	1193	X65
1135	EF54	1194	X41
1136	EF54	1195	KTW63
1137	EC52	1196	AC5/PENDD
1138	VCR138	1197	EC53
1140	12MD6	1198	AC/P4
1141	GDT4C	1200	202
1142	MR75	1201	4317
1143	GT1C	1202	304
1144	XG2-500	1205	2587T
1145	BT9-A	1206	DA60
1146	BT9-B	1207	ES450
1147	BT35	1208	PM256
1148	E1289	1219	DA100
1149	BT41	1220	4033L
1151	PM3	1221	PT6
1152	L410	1222	ACT6
1153	PM254	1223	DET5
1154	PM254	1233	DET5
1155	DEG	1235	DET12
1156	DEQ	1237	PM24D
1158	S410	1238	PM24D
1159	S410	1240	PZI-35
1160	104V	1246	P2
1161	104V	1250	279A
1163	PM2BA	1252	V1505
1164	AC/SG	1253	E1161
1165	VMS4	1255	E1189
1166	LP2	1256	E1232
1167	PM24A	1257	E1155
1168	PP3/250	1259	ESU450
1169	9A1	1260	ESU208
1170	V914	1261	RX3-120
1171	HA1	1262	RG1-250
1172	VP4A	1263	RG1-125
1173	HL4	1264	FW4-500
1174	AC/PEN	1265	U15
1175	ZA1	1266	U15
1176	ZA1	1267	U4020
1177	4D1	1268	5Y3
1178	DA30	1279	MU2
1179	AC/P	1280	X64
1180	V312	1281	KTW61
1181	7A3	1282	AC/S2PEN

C.V. TYPES

C.V.	Commercial Types	C.V.	Commercial Types
1283	SP4	1345	TP25
1284	MS/PEN	1347	ECH35
1285	ECC31	1349	RG5-500
1286	EL35	1350	TY3-250
1287	KT32	1351	TY4-500
1288	4304CB	1352	EM80
1289	UU5	1353	0A81
1290	SU2150A	1354	0A85
1291	SU2150A	1355	RG4-1250
1293	PZ1-75	1356	U22
1296	MU14	1357	ESG250
1300	10D1	1359	ME41
1301	D63	1361	MZ05-20
1302	D42	1362	DET25
1303	HL2	1363	DET16
1304	LP2	1364	807
1305	HL1320	1365	4282BZ
1306	HL23DD	1366	V248A
1307	L2	1367	V245
1308	TDD2	1368	V226
1309	3A/107B	1369	4061A
1310	3A/108A	1370	PV1/35
1311	3A/110A	1371	PZ1-75
1312	220R	1372	4069A
1313	220LF	1373	PY3-600
1314	DLS10	1374	807
1316	3A/109B	1375	6BY7
1317	S625	1376	6BX6
1318	VS24	1377	GZ34
1319	VS2	1379	20K
1320	SP2	1380	20K
1321	9D2	1382	4101
1322	SP210	1384	41DS
1323	VP2	1385	E4504/B/16
1324	SP4	1386	ACR3
1325	42MPT	1387	ACR4
1326	AC4/PEN	1388	ACR5
1327	7D8	1389	ACR6
1328	7D8	1390	ECR35
1329	APP4G	1391	E4504/E/16
1330	TSP4	1392	ECR30
1331	VP23	1393	ACR17
1332	VP21	1394	ACR18
1333	Z22	1396	ECR30
1334	KT24	1400	CIC
1335	SP41	1401	CL33
1336	SP42	1402	CY31
1337	116PEN	1403	DD41
1338	220VPT	1404	EF36
1339	KT41	1405	E1199
1340	VT75A	1406	HL41
1341	MSP4	1407	Pen45
1342	QP25	1408	P41
1343	A1065	1409	SP2
1344	TP22	1410	TH2

C.V.	Commercial Types	C.V.	Commercial Types
1411	TH41	1466	P57
1412	TV4	1467	PY3-600
1413	UU6	1468	SP4
1414	VP41	1469	SP210
1415	4011A	1470	3P/270B
1416	3B/151A	1471	EL34
1417	211	1472	CMG25
1418	10D1	1473	CMG22
1419	11D3	1474	CE25
1420	2V/531E	1475	M501
1421	XP1.5	1476	M507
1422	3D/100A	1477	M507
1423	VP1322	1478	M501
1424	20A1	1479	M501
1425	7D5	1480	M501
1426	EK2	1481	M501
1427	EF9	1482	M501
1428	EBC3	1483	M519
1429	EL2	1484	M519
1430	AC/SP3/RH	1485	M519
1431	ACT16	1486	M519
1432	GS26	1495	M528
1433	EC31	1496	M528
1434	EM4	1497	M528
1435	AH221	1498	M528
1436	HL2K	1499	M528
1437	KT44	1500	M528
1438	6AG6G	1501	TT11
1439	MT9F	1502	KT32
1440	MT9L	1503	KT33C
1441	MT12A	1504	EHT1
1442	MT14	1505	MH41
1443	R1	1506	ESP450
1444	42SPT	1507	V1507
1445	4094A	1508	U19
1446	4017B	1510	QV04-7
1447	4030D	1515	MX1
1448	4043C	1516	PMD6
1449	872A	1517	09J
1450	228A	1518	09J
1451	274A	1519	V1042
1452	300A	1521	E/4412/N/9
1453	4378	1522	E4103/B/4
1454	225DU	1525	E/4205/C/7
1455	411U	1526	3EG7
1456	Pen383	1527	VLS492AG
1457	VP133	1529	E/4412/E/9
1458	41MP	1530	6LY1
1459	MU2	1535	EZ80
1460	X41	1536	1608ABA
1461	U22	1537	3ACP2
1462	A915	1538	5J32
1463	CBL31	1539	D15
1464	EF39	1540	33B/152M
1465	T250	1543	12MD6

C.V. TYPES

1546—1669

C.V.	Commercial Types	C.V.	Commercial Types
1546	12MD6	1611	MR4
1548	41DS	1612	VT9B
1550	VT1A	1614	ES1500A
1551	VT1C	1615	ESU1500
1552	VX3B	1618	TZ2-250
1553	VT4B	1619	V1505
1554	VT5B	1620	DET6
1555	VU6A	1621	ESW501
1557	VT9B	1622	4052A
1558	VT10D	1623	RG1-125
1559	VR12C	1624	PZ1-75
1560	VR12F	1625	RG3-250
1561	VT12B	1626	RG1-240A
1562	VT13C	1627	5D/100A
1563	VR14A	1628	GU8
1564	VU16A	1629	RG3-1250
1565	230XP	1630	ESP450
1566	VR24B	1632	1N82
1567	DET25	1633	3V4
1568	4062	1634	VB2
1569	UU5	1635	5A/163K
1570	EK32	1636	LS5
1571	VT58A	1637	LS5
1572	QV05-25	1638	4101D
1573	TV03-10	1639	3A/141A
1574	SP41	1640	3A/142A
1575	VU71A	1641	4102E
1576	VT75A	1642	DER
1577	KT44	1643	E132
1578	EF50	1644	E1532
1579	ZA2	1645	E133
1580	E960T	1646	E1453
1581	ECH35	1647	LS5B
1582	S130	1648	3B/151A
1583	E1024	1649	E133
1584	41MTL	1650	LS5A
1585	T41	1651	G445B
1586	HL23	1652	230XP
1587	ECR35	1653	3A/108A
1588	ECR30	1654	210LF
1596	09D	1655	3A/107B
1597	E4103/B/4	1656	LS8
1598	13VPA	1657	3A/108B
1599	SC13C	1658	LS9B
1600	CAT1	1659	3A/110B
1601	CAR1	1660	LS7
1602	CAR4	1661	DL
1603	4014A	1662	P215
1604	SS1971	1663	3A/109B
1605	4013C	1664	3A/110A
1606	CAT2	1665	DH
1607	0C2.5	1666	P610
1608	U4	1667	LS5X
1609	SW7	1668	E420
1610	MT4	1669	P625

C.V.	Commercial Types	C.V.	Commercial Types
1670	HL13C	1725	4328D
1671	3A/109A	1726	5A/105A
1672	7D6	1727	SP210
1673	HL2	1728	WE262B
1674	AC/52PEN	1729	KTW62
1675	N43	1730	KT66
1676	LS8A	1731	S310
1677	MS4B	1732	ML4
1678	MH41	1733	4018AG
1679	DA30	1734	3Q/231E
1680	PM202	1735	DC2P
1681	TSP4	1736	EF80
1683	MKT4	1737	MW6-2
1684	APP4C	1738	R5161
1685	APP4C	1739	GC10/4B
1686	D418	1740	GS12/C
1687	D418	1741	EL34
1688	4033L	1742	BK44
1689	PA1	1743	BS64
1690	9A1	1744	15L01A
1691	DDL4	1745	62BT
1692	AC/P	1746	30C12
1693	PP3/250	1747	M505
1694	3A/144A	1748	TTR31MC
1695	DDL13	1749	205F
1696	B21	1750	33A/100A
1697	AC/TH1	1751	34
1698	A891	1752	35
1699	SP41	1753	35A5
1700	SP41	1754	35TG
1701	XL0	1755	1626
1702	XP	1756	1629
1703	XW	1757	9001
1704	57	1758	1F2
1705	58	1759	2C26A
1706	2B7	1760	2J26
1707	2A5	1761	3FP7
1708	80	1762	6AK6
1709	6D6	1763	614
1710	6C6	1764	CE2
1711	6B7	1765	5664
1712	42	1766	CX25
1713	EF8	1768	707B
1714	EF9	1769	2A6
1715	EBC3	1770	7A4
1716	E1541	1771	39
1717	4307A	1772	47
1718	AC/TP	1773	82
1719	U22	1774	12A
1720	XL1.5	1775	36
1721	XP1.5	1776	6D7
1722	A901	1777	7C7
1723	V257	1778	101D
1724	5A/102D	1779	102D
		1780	30Twin

C.V. TYPES

C.V.	Commercial Types	C.V.	Commercial Types
1781	310B	1835	ESU103
1782	340A	1836	4B26
1783	9JP1	1837	2B7
1784	6AK7	1838	QQZ04-15
1785	1N26	1839	6F13
1786	2K33	1841	BS5Z
1787	XH8-100	1842	2G
1788	3J31	1843	2Y2
1789	5FP14	1844	CS3B
1790	7Z4	1846	5T4
1791	5JP1A	1847	19H4
1792	1960	1848	20A2
1793	724B	1849	5W4
1794	959	1850	6L19
1795	2K25	1851	5X4G
1796	R4	1852	5X4
1797	4081A	1853	6P25
1798	2051	1854	5Y3G
1799	350B	1855	UU9
1800	1A7	1856	5Y3GT
1801	GS118	1857	5Y4
1802	DK32	1858	BS62
1803	1C5G	1859	BS4A
1804	EAC91	1860	30D5
1805	DL35	1861	5Z3
1806	1D5	1862	EL90
1807	2J31	1863	5Z4G
1808	2J32	1864	5Z4
1809	2J33	1865	EC81
1810	2J34	1866	JP9-7D
1811	1D8	1867	6A6
1812	1E7	1868	MF13-1
1813	2DP1	1869	MF31-95
1814	5LP1	1870	6A7
1815	6O5	1871	707B
1816	6Y3	1873	6AB7
1817	1H4	1876	6AC7
1818	HD14	1878	6AD7
1819	6P5	1879	MS/PENT
1820	DAC32	1880	7MB1A
1821	1N5	1881	VX4144
1822	2J48	1882	6AG7
1823	DF33	1883	4H/182E
1824	1O5	1884	33A/158M
1825	KT45	1885	6B5
1826	1O5	1886	EC80
1827	2J32	1887	6B6
1828	2J36	1888	EC81
1829	1T5	1889	TYS4-500
1830	1B3	1891	6B7
1831	2A3	1892	2K28
1832	0A2	1893	6B8G
1833	0B2	1894	6B8
1834	2A5	1895	STV70/60
		1896	6C8

C.V.	Commercial Types	C.V.	Commercial Types
1897	4J34	1954	6N6
1898	4J35	1955	EF91
1899	6L18	1956	6N7
1900	6D6	1957	6N7
1901	6F11	1958	6N7
1902	6D8	1959	50C5
1903	592	1960	6R6
1904	CAA322	1961	12AU6
1905	QY3-65	1962	6R7G
1906	6E5	1963	6R7
1907	CS2C	1964	6R7
1908	6F5	1965	MF31-55
1909	6F5	1966	6SA7
1910	6F5	1967	6SA7GT
1911	6F6G	1968	CWS24A
1912	6F6	1969	6SC7
1913	GS44X	1970	6SC7GT
1914	4J31	1971	1T4
1915	6F7	1972	6SF5
1916	4J33	1973	6SF5
1917	6F8	1974	6S7
1918	6F8	1975	6S7
1919	6F14	1976	MV6-5
1920	6LD20	1977	UL41
1921	U24	1978	6SG7
1923	TTR31MR	1979	61BT
1924	TY2-125	1980	185BT
1926	6G6	1981	6SK7
1927	B142	1982	6SK7GT
1928	12BA6	1984	6SL7
1929	6H6G	1985	6SL7GT
1930	6H6	1986	6SN7
1931	6H6GT	1988	6SN7GT
1932	6J5G	1989	SD6
1933	6J5	1990	6SQ7
1934	6J5GT	1991	6SQ7GT
1935	6J7G	1992	Z300T
1936	6J7	1993	6SS7
1937	6J7GT	1995	6ST7
1938	6K6G	1996	6ST7
1939	37X50	1997	VCRX307
1940	6K6	1999	6Z3
1941	6K7G	2000	5A/159M
1942	6K7	2001	EF91
1943	6K7GT	2002	6AM5
1944	6K8G	2003	6AM5
1945	6K8	2004	6AL5
1946	6K8GT	2005	6AL5
1947	6L6G	2006	EF55
1948	6L6	2007	12AU7
1949	EN93	2008	A1714
1950	6L7	2009	6AO4
1951	6L7	2010	6J6
1952	VCRX267	2011	12AX7
1953	6N6	2012	85A2

C.V. TYPES

2013—2217

C.V.	Commercial Types	C.V.	Commercial Types
2013	6CH6	2152	MX107
2014	6062	2153	MX108
2015	DDR2	2158	VX3166
2016	12AT7	2159	BR153
2017	VX3098	2160	ESU77
2018	95A1	2161	K301
2019	150B3	2162	12L01A
2020	6AK5	2163	VX3071
2022	6BW6	2164	K302
2023	9D6	2166	4J50
2024	6BE6	2167	VX4080
2025	EF91	2171	A2087
2026	6BA6	2172	DC80
2029	G180/2G	2173	G10H
2101	DF72	2174	G240/2D
2102	DL75	2175	DG7-5
2103	DF73	2179	E2134
2104	DAF70	2180	19H4
2105	DL70	2181	VX4104
2106	DL66	2183	X661
2107	DF66	2184	VCRX298
2108	9M06A	2185	88D
2109	VX4099	2186	VX4073
2110	BT83	2187	Z239/1G
2115	1B3	2188	W7/2D
2116	VX5029	2189	V240C/2K
2124	BK24	2190	V233A/1K
2125	BD78	2191	DG13-2
2126	3V/420B	2192	9MW5AX
2127	6CH6	2193	89D
2128	6AJ8	2194	G400/1K
2129	5763	2195	EF91
2130	QY3-125	2196	VX3078
2131	QY4-250	2197	E1024
2132	90AV	2198	VX9031
2133	90CG	2199	GC10A
2134	90CV	2200	VX3098
2135	6BR7	2201	TD4.5-10
2136	6BW6	2202	XE2
2137	VCRX263	2203	FX215
2138	GM4	2204	TD03-10F
2139	EHM2	2205	E4103/E/4
2140	B6	2206	EY70
2141	B6E	2207	VX3147
2142	B12E	2208	G50/1G
2143	B24	2209	6F33 (Spec.)
2144	B24E	2210	XR1-3200
2145	M6	2211	401CAHA
2146	DM6	2212	13D3
2147	G24H	2213	CC3L
2148	G24E	2214	3B/240M
2149	G60E	2215	5545
2150	MX103	2216	30E8/T1
2151	MX105	2217	6K25

C.V.	Commercial Types	C.V.	Commercial Types
2218	R17	2278	VCRX353
2219	E1024	2280	3EG1
2220	5B/257M	2281	M537
2221	V235A/1K	2282	K308
2222	VCRX312	2283	VX7069
2223	G10/241E	2284	JP9-250
2224	G1/371K	2285	VX3146
2225	150B2	2286	VCRX393
2229	M502A	2287	G10H
2230	VCRX361	2288	DL66
2231	E2226	2289	U37
2232	DDX52	2290	VX3163
2233	G5H	2291	1909A
2234	X662	2292	VCRX173
2235	R18	2293	XB1
2236	Z800U	2294	VX9046
2237	DF62	2295	QQV5-P10
2238	DL620	2296	NSP2
2239	XFR3	2297	VX3154
2240	DL98	2298	E1024
2241	DY70	2299	DL73
2242	VX7052	2300	DL93
2243	PSG8	2301	E4412/C/9
2244	VCRX258	2302	DH3-91
2245	3J/160E	2303	VX3153
2246	DDX52	2304	K324
2247	G5H	2305	VCRX351
2248	VX9115	2306	BS122
2249	VX9112	2307	BS120
2250	VX9054	2308	VX4142
2251	VX9113	2309	VX4143
2252	VX9114	2310	GEX64
2253	21A1	2311	VX9076
2254	DF60	2312	VX9075
2255	Z801U	2313	VX4122
2256	X662	2314	MP31-55
2257	XC11	2315	C12B
2258	CS4B	2316	6097B
2259	DL68	2317	6097C
2260	DF64	2318	VX3193
2263	K305	2319	VX4061
2264	VX6110	2320	VX4061
2265	VX9077	2321	GD86W
2266	CC3L	2322	BR161
2267	F/6063	2323	BR179
2268	F/6064	2324	CR176
2269	ME1401	2325	Z502S
2270	90AG	2326	VX3143
2271	Z303C	2327	MX103
2272	VCRX212	2328	MF31-95
2273	K312	2329	4004B
2274	VX4134	2330	VX9106
2275	DC70	2331	DL64
2276	Z319	2332	VCRX359
2277	VX3188		

C.V.	Commercial Types	C.V.	Commercial Types
2338	F2	2400	CXT2
2340	VX9151	2411	VX8194
2341	VX3138	2412	4150
2342	VCRX364	2414	XC305/1
2343	VX2505	2415	VCRX225
2346	VX5028	2416	C1133
2347	5B/258M	2418	VX3222
2348	ME1403	2419	3EG1
2349	EN30	2420	JPT9-01
2350	VX9005	2421	JPT9-02
2352	DG16-22	2422	VX7104
2353	R6010	2424	M549
2354	R6015	2425	M539
2358	W7/1D	2426	M529
2359	VX9173	2428	25110
2360	5A6	2429	VX3220
2361	DL69	2430	VX3221
2362	M525	2431	DG7-32
2363	M525	2432	6205
2364	M525	2433	DF63
2365	M525	2434	Z803U
2366	M525	2435	VCRX387
2367	M525	2447	X1
2368	M525	2448	7182
2369	AA76	2449	7182
2370	DL92	2450	7182
2371	DF61	2451	7182
2372	MF22-75	2452	7182
2373	M502A	2455	VX9138
2374	GD60	2465	5B/251M
2375	GD100	2466	QQV02-6
2376	M521	2469	VCRX407
2377	13E1	2473	VX2525
2378	VX3176	2480	VX1002
2379	VX3177	2484	VX1009MK5
2380	VX3197	2486	XC18
2381	VX9164	2492	E88CC
2382	EL822	2493	E88CC
2383	BR191	2494	VA2018
2384	ZS10C	2498	DP1622
2385	S11E12	2499	VX7147
2386	VX9022	2500	35Z4GT
2387	VX8084	2501	40
2388	VCRX397A	2502	41FP
2389	CXT1	2503	41MH
2390	DL93	2504	41MHL
2391	VX3136	2505	41MPG
2392	VX3171	2506	41MPT
2393	BA9-20	2507	1U4
2394	DA42	2508	41STH
2395	TD03-10	2509	41FP
2396	VX9175	2510	1Z2
2397	VX3263	2511	420T
2398	VX3518	2512	420TDD
2399	2G/473C		

C.V.	Commercial Types	C.V.	Commercial Types
2514	43	2573	5651
2516	TD1-100A	2574	W21
2517	2E30	2575	5675
2518	4B32	2576	4C21
2519	4X150A	2577	V1505
2520	XH16-200	2578	5687
2521	6AH6	2579	218
2522	6AS6	2580	220C
2523	6AS7	2581	220/0T
2524	6AU6	2582	220VS
2525	6AV6	2584	231D
2526	6AV6	2585	39
2527	6BA7	2586	240B
2528	45DS	2587	242C
2529	451U	2588	244A
2530	45Z5	2589	RK63
2531	46	2591	RK38
2532	49	2592	256B
2533	50	2593	257A
2534	50L6	2594	258B
2535	53	2595	259A
2536	53A	2597	262A
2537	55	2598	264A
2538	59	2599	264C
2539	61P	2600	267B
2540	63D	2601	271A
2541	71A	2602	272A
2542	72	2603	274A
2543	RK73	2604	275A
2544	78	2605	282A
2545	49	2606	2B4
2546	81	2607	2B4D
2547	83V	2608	300A
2548	6Z4	2609	300A
2549	85	2610	303
2550	100T	2611	WL535
2551	100TH	2612	307A
2552	100TH	2613	310A
2553	101F	2614	311A
2554	111A	2615	313C
2556	117L7	2616	314A
2557	117N7	2617	323A
2558	117Z6	2618	5C37
2560	121A	2619	328A
2561	122A	2620	329A
2562	164V	2621	330B
2563	ES204A	2622	331A
2565	2050	2623	332A
2566	205E	2624	337A
2567	205F	2625	338A
2569	210DT	2626	346A
2570	210HF	2627	349A
2571	210HL	2628	349B
2572	450TH	2629	350A

C.V. TYPES

2630—2756

C.V.	Commercial Types	C.V.	Commercial Types
2630	351A	2694	930
2631	352A	2695	931
2632	354A	2696	931A
2633	362A	2697	935
2634	367	2698	5896
2636	375A	2699	6088
2637	388A	2700	957
2638	393A	2701	958
2639	394A	2704	7E5
2640	405BU	2705	7C4
2642	417A	2706	7C4
2643	2C40	2707	1231
2644	460BU	2709	1R4
2645	506BU	2710	3D6
2647	532	2711	1500T
2648	532A	2712	1609
2650	12AY7	2713	1610
2652	709A	2714	1614
2653	714AY	2715	1630
2654	715A	2716	6SC7
2655	715B	2717	1729
2656	724A	2718	1876
2657	800	2719	1924
2658	806	2720	ESU111
2659	3D21A	2721	EL81
2660	809	2722	3025
2661	812	2723	AH213
2662	5639	2725	3209
2663	815	2726	EL83
2664	822	2727	3226D
2665	825	2728	3229D
2666	QQV07-40	2729	E80F
2668	846	2730	ME1402
2669	849	2731	63DS
2670	849H	2733	3951
2671	851	2734	4003A
2672	852	2735	4015A
2673	AH205	2736	B1109
2674	863	2738	RG1-240
2675	864	2742	DF92
2676	865	2743	4033AF
2678	5799	2744	4J34
2679	2B26	2745	4050AG
2680	868	2746	4064A
2683	878	2747	6U5G
2685	880	2748	GZ30
2686	ESW5000	2749	4081
2687	ESA5000	2750	89J
2688	ESA891	2751	4096AB
2689	893R	2752	QV20-P18
2690	904V	2753	5684
2691	913	2754	5685
2692	918	2755	4251AX
2693	929	2756	4260A

C.V.	Commercial Types	C.V.	Commercial Types
2759	4304	2823	AC/SP3
2760	4304B	2824	AC/SPEN
2761	4304B	2825	ACT6
2762	4316A	2826	1B63A
2764	4606	2827	ACT10
2765	4673	2829	1N34
2766	4607	2830	AC/TH1
2767	4690	2831	2C51
2768	8003	2832	AC/VP2
2769	9006	2833	AF3
2770	13077	2834	AGT1
2772	23043	2835	5RWGY
2773	68503	2836	APP4G
2774	68504	2837	APP4G
2775	68506	2838	AR
2776	68510	2839	AR300
2777	4B28	2840	5UP7
2778	2J21	2841	ARP12T
2779	4B36	2842	6C4
2786	26J	2843	6J6
2788	NT13	2844	6X4
2789	ZP455	2847	5704
2790	C1K	2848	CK707
2791	K322	2849	K1051
2792	KS9-20A	2850	AT200A
2793	2J50	2851	3D22
2794	C1055/2G	2852	2J56
2795	DF92	2853	RZ1-250
2796	6L6	2854	6AN5
2797	QQV06-40A	2855	6K4
2798	QQV03-10	2856	1N23B
2799	QQV03-20A	2857	1N23BM
2800	A40	2858	3B24
2801	A40/N3	2859	5846
2803	A915/MET	2860	AZ1
2804	A915A/MET	2861	AZ2
2805	A924	2862	AZ31
2806	AC2/HL	2864	B21
2807	AC2/HL	2865	B30
2808	AC2/PEN	2866	2C51
2809	AC5/PEN	2867	BU100/6
2810	VCRX263	2868	AFX203
2811	AC/HL	2869	31P7
2812	AC/HL	2870	CC3D
2813	AC/HL/DD	2871	CAT6
2814	5D21	2872	BW153
2815	AC/P	2874	1005
2816	3JP12	2875	CL4
2817	6L6GA	2876	2D21W
2818	AC/PT8	2877	6AK5
2819	AC/S	2878	CRT1
2820	AC/SP1	2879	CRT2
2821	ECC33	2880	CRT4/1
2822	AC/SG	2882	6AL5

C.V.	Commercial Types	C.V.	Commercial Types
2883	6AO5	2946	ESU150
2884	6AS6	2947	ESU300
2885	54NCP11	2948	ESU450
2886	M2H	2949	F123A
2887	DAC1	2950	3P/2.0B
2888	EL31	2952	5628
2889	DD620	2953	5629
2890	DDT	2954	FC2A
2891	DE5	2955	FC4
2892	DE5B	2956	15D1
2895	DET1SW	2957	XG5-500
2896	52CG	2958	FG27A
2897	C211Q/X2	2959	3B22
2898	DET8	2960	5740
2899	DET9	2961	1N54A
2900	DET10	2962	1N38A
2901	EF86	2963	QY3-125
2902	GX402	2964	QY4-250
2903	6073	2965	31C2
2905	3J/170E	2966	6S2
2907	DF1	2967	8020
2908	3J/260E	2968	7F8
2909	DH73M	2969	GT1
2910	DK1	2970	5656
2911	DL2	2971	5675
2912	6R7	2972	5876
2914	1B40	2973	GU7
2916	1N25	2974	1N72
2918	1N28	2975	EL84
2919	1N43	2976	GET2
2920	E1148	2977	H2
2923	1N69	2978	H12
2924	1N70	2979	H30
2925	EBF2	2980	DM70
2926	EBL31	2981	H410
2927	EC50	2982	H610
2928	1N81	2983	DL94
2929	ECH3	2984	6080
2930	ECH35	2985	HD24
2931	2B22	2986	203A
2932	TD3-12	2987	4C22
2933	TD05-12	2988	HF200
2934	3PP1A	2989	HK354E
2935	31P1	2990	6136
2936	4B22	2991	HL2
2937	6AO5	2992	6106
2938	EL33	2993	KU25
2939	6F4	2994	HL23
2940	EL36	2995	HL23DD
2941	EL50	2996	HL41DD
2942	FM1	2997	HL63
2943	ESU76	2998	HL133
2944	ESU1500	2999	HL133DD
2945	ESU75	3500	HL210

C.V.	Commercial Types	C.V.	Commercial Types
3501	HL610	3559	2C53
3502	HL1320	3560	2J51A
3503	HLDD1320	3561	MS/PEN
3505	HY114B	3562	MSP41
3506	615	3563	MT11SW
3508	6201	3564	MT12
3509	1N31	3565	ME41
3510	4B31	3567	MU1
3511	371B	3569	JP9-80
3512	EN92	3570	MU4250
3514	K8140824	3571	MVS/PEN
3515	KB2	3572	MVS/PENB
3516	KK2	3573	MZ05-20
3517	5933	3574	MZ1/76
3518	5948	3575	3B26
3519	KT30	3576	FC4
3520	KT31	3577	26AT
3521	XH25-500	3578	PM22D
3522	QY5-500	3579	PT5E
3523	6146	3580	304TL
3524	G1/236G	3581	V1510
3525	1N21C	3582	VP4B
3526	EL85	3583	5BP1
3527	KTW73M	3584	21/2
3528	M513	3586	1B21A
3529	KTZ41	3587	705A
3530	KTZ73	3588	706A
3531	L2	3589	707B
3532	L21	3590	708A
3533	L22DD	3592	UX6653
3534	L30	3593	713A
3535	C14HM	3594	717A
3536	LS408A	3595	721B
3537	6C22	3596	722A
3538	L610	3597	726B
3539	6024	3599	QQV5-P10
3540	FX219	3600	902
3541	LS6A	3601	7193
3542	LS532	3602	5126
3543	4D32	3604	GL464
3544	SD432	3605	GL464B
3545	5939	3606	5J29
3546	MHD4	3607	NP90
3547	MHL4	3608	5J30
3548	1B24A	3609	5517
3549	1B38	3610	5663
3550	1B41	3611	5586
3551	1N38	3612	5686
3552	MPT4K	3613	6AR6
3553	MS4B	3614	6BL6
3554	MPT42	3615	6RM6
3555	1Q22	3616	6BN6
3557	MR300	3618	5932
3558	MR300/E	3619	6SJ7

C.V.	Commercial Types	C.V.	Commercial Types
3620	P220	3678	2BP1
3621	PM4X	3679	RK49
3622	P610	3680	1641
3623	PA40	3681	RK62
3624	GS46	3683	RKR47
3625	PE8	3685	QK283
3626	PEN4B	3686	QK284
3627	6SN7	3687	2J49
3628	1B35A	3688	2C33
3629	6130	3689	3B29
3630	Pen44	3690	RZ1-150
3631	Pen45DD	3691	S23
3632	6131	3692	S23
3633	Pen231	3693	10KP7
3634	PEN428	3694	S130A
3635	Pen1340	3695	S215
3636	PEN1346	3696	S215A
3637	7BP7	3697	12SX7
3638	PENA4	3698	S610
3639	7UP7	3699	5693
3640	5556	3702	SG215
3641	PM1HL	3703	SP4B
3642	PM1LF	3704	SP13C
3643	PM2A	3705	5691
3644	726C	3706	XR1-1600
3645	PM2DX	3707	6AL7
3646	845	3709	STV150/200
3647	PM22A	3710	AR63
3648	PM24E	3711	N78
3649	PM22	3712	STV280/80
3650	12AY7	3715	SW5
3651	12SH7	3719	SW7
3652	PT5	3721	T4D
3653	PT6	3722	T20
3654	PT11	3723	T41
3655	12SP7	3724	HF200
3656	PT425	3725	GL446
3657	PV05-15	3726	TDD2A
3658	PV1-35	3727	TDD4
3659	M501A	3729	1N47
3660	M501A	3730	TMC15B
3661	M501A	3731	TMC16B
3662	M501A	3732	40SUA
3666	12SW7	3733	3KP1
3667	GU1	3734	6X5
3668	12SY7	3735	TP26
3669	2K48	3736	K1105P2
3670	RG4-1000	3737	QK353
3671	RK25	3738	VXR130
3672	2K28	3739	TXR-200
3673	RK28A	3740	TX5-400
3674	RK31	3741	TZ2-300
3675	9004	3742	TZ20
3676	JP9-7	3743	U5
3677	814		

C.V.	Commercial Types	C.V.	Commercial Types
3744	U6	3803	VS24K
3745	1B58	3804	W21
3746	U14	3805	W30K
3747	U15	3806	W31
3748	2X2A	3808	6T4
3749	576	3809	807
3750	U22	3810	WD30
3751	U21	3812	1P31
3752	U30	3813	8A
3753	U31	3815	3B22
3754	U50	3816	X22
3755	5755	3817	X21
3756	68530	3818	X22
3758	UR3C	3819	X24
3759	UU4	3820	X24
3760	UU5	3821	X31
3761	UU7	3822	X31
3762	V120	3823	X41
3763	V123B	3824	X61
3765	V226	3825	X63
3766	V312	3826	X65
3767	V339	3827	12C8GT
3768	V503	3828	X66
3769	V877	3829	293A
3770	V955	3830	XH1.5
3772	V970	3831	XL2
3773	V1010	3832	XP2
3774	V1021	3833	XSG2.0
3775	V1021	3834	XW2
3776	V1023	3835	Z21
3777	V1029	3836	Z21
3778	V1105	3837	Z22
3779	4J26	3838	Z66
3780	4J27	3839	Z66
3781	4J28	3840	TTR31MR
3782	4J29	3841	6F1
3783	4J30	3842	5J29
3784	5A/102A	3843	5J30
3785	VMP4G	3844	5J31
3786	VMP4G	3845	RS366
3787	VP2	3846	RS261
3788	VP4	3847	RS250
3789	5842	3848	RS260
3790	VP13C	3849	RS217
3791	VP21	3850	RS207
3792	VP23	3851	RS253
3793	VP24	3852	RS285
3794	VP210	3853	RS15
3795	VP215	3854	RS47
3796	VP1322	3855	RS329
3797	V944A	3856	RV330
3798	VR75/30	3857	RS283A
3799	0B3	3858	RS18
3800	VS2	3859	RV271A
3802	VS24		

C.V.	Commercial Types	C.V.	Commercial Types
3860	RS282	3918	5JP2A
3861	RS281	3919	U82
3862	RS55	3920	A2196
3863	RS289	3921	A2244
3864	RS389	3923	1N21B
3865	RS288	3924	6AC7
3866	RS203	3925	TTR31MR
3867	RG44	3926	TY6-5000A
3868	RSQ15/40	3927	12K8GT
3869	RSQ15/5	3928	5636
3870	RGQ10/4d	3929	5840
3871	RS254	3930	5718
3872	RS255	3931	5906
3873	3Q/310E	3932	5977
3874	ATR388	3933	85A3
3875	KU54	3934	1N34A
3876	SAL39	3935	14A7
3877	1B56	3936	14S7
3878	2-150D	3937	14R7
3879	4-400A	3938	12SC7
3880	4-1000A	3939	6BM6
3881	EB41	3940	2C39A
3882	EBC41	3941	3RP1
3883	EA42	3942	5692
3884	ECC40	3943	5852
3885	EF40	3944	2J30
3886	EF41	3945	2K45
3887	EF42	3946	DG7-36
3888	ECH42	3947	4J54
3889	EL41	3948	4J55
3890	EL42	3949	4J56
3891	EZ40	3950	4J57
3892	AZ41	3951	4J58
3893	4X150G	3952	4J59
3894	6021	3953	JP9-250A
3895	5702	3954	DP13-2
3896	5784	3955	DB13-2
3897	5787	3956	719A
3898	5829	3957	1258
3899	5932	3958	5657
3900	5963	3959	MF13-1
3901	5946	3960	M8190
3902	6002	3961	6111
3903	6410	3963	559
3904	2K41	3964	354
3905	5847	3965	2C36
3906	6117	3966	QK428
3907	720C	3967	1N63
3908	6BH6	3968	1N63
3909	6BJ6	3969	577
3912	1U5	3970	5721
3915	8025A	3971	89L
3916	5647	3972	6095
3917	5703	3973	6AC7

C.V.	Commercial Types	C.V.	Commercial Types
3974	6AS7	4030	G75/3G
3975	6236	4031	M8081
3976	M509	4032	5814
3977	1N35	4033	F/6060
3978	6AG7	4034	F/6067
3979	0D3	4035	F/6057
3980	12SR7	4036	M8141
3981	G5S3	4037	F/5750
3982	M506	4038	VX3208
3983	12W7	4039	6062
3984	1N21C	4040	S6F17
3985	6SL7	4041	S6F17F
3986	6021	4042	S19G6F
3987	5644	4043	6061
3988	6442	4044	6443
3989	6AN4	4045	F/6061
3990	2E26	4046	44A/160M
3991	4X150D	4047	G400/2G
3992	HD6002	4048	M8098
3993	1N67A	4049	F/5726
3994	1V2	4050	M8180
3995	6CB6	4051	F/6158
3996	U709	4052	QS1202
3997	JP9-15	4053	QS1203
3998	E180F	4054	M8142
3999	MW22-22	4055	6132
4001	F/6063	4056	F/6132
4002	F/6064	4057	19G6
4003	6067	4058	M8080
4004	6057	4059	M8097
4005	6063	4060	S11E12
4006	6059	4061	U37
4007	5726	4062	E2134
4008	5719	4063	M8082
4009	5749	4064	S6F33
4010	M8100	4065	E2134
4011	M8196	4066	M8190
4012	5750	4067	M8167
4013	5670	4068	VX7124
4014	6064	4069	F/6158
4015	M8161	4070	M8099
4016	5814	4071	FVD7
4017	5751	4072	VX3522
4018	M8204	4076	M8179
4019	M8245	4077	SX643
4020	M8223	4078	VX3256
4021	3B24	4080	M8225
4022	6135	4082	VX3518
4023	6AU6	4084	75C1
4024	6060	4092	VX9184
4025	6058	4093	VX9185
4026	5R4	4094	VX9186
4027	5Y3	4095	VX9186 (Mod.)
4028	M8224	4096	VX9185
4029	5902	4097	VX6137

C.V.	Commercial Types	C.V.	Commercial Types
4501	5A/172G	5047	G7B
4502	5A/173G	5048	V239C/1K
4503	5A/174G	5049	V241C/1K
4504	2S/141G	5050	212-G11A
4505	EY70	5051	HD2016A
4506	5A/175G	5052	6AU7
4507	EC70	5053	6098CT
4508	EF70	5054	6390
4515	VX9081	5055	EM81
4516	VX9174	5056	A2094
4517	5A/172G	5057	5702
4518	5A/175G	5058	5784
5001	601C	5059	5829
5002	1N23B	5060	Z759
5003	BU28/4	5061	7YP2
5004	3JP2	5062	5841
5005	6110	5063	1N70
5007	6112	5064	1N38A
5008	6080	5065	6U8
5009	6203	5066	BL25
5011	TH1657A	5067	6SH7
5012	1N23C	5068	ES75H
5013	1N23CR	5069	GL6621
5014	1N78	5070	MB13-1
5015	1N53	5071	3J/195E
5016	1N32	5072	EZ81
5017	450TL	5073	6AM4
5018	4J52A	5074	6AF4A
5019	QK387	5075	622C
5020	QK388	5076	1N198
5021	6V3A	5077	PL81
5022	CS31A	5078	XC17
5023	AFX234	5079	5643
5024	MX408/U	5080	EF37A
5026	1N320	5081	61SPT
5027	3V/390A	5082	M8234
5028	3V/390B	5083	QS75/20
5029	6J4	5084	30B1P3
5030	26Z5W	5085	27M2
5031	M548	5086	6BS7
5032	1X2A	5087	4EP7
5033	3-14	5088	XC15
5034	3JP11	5089	L3040
5035	DG13-34	5090	L3041
5036	6AF4	5091	VX9076
5037	6BA6	5092	EF800
5038	6BC4	5093	EL803
5039	6BL7	5094	EL86
5040	6BO6	5095	GK2261
5041	6CL6	5096	GK2401
5042	12BH7	5098	ZS21
5043	811A	5099	ZS22
5044	5836	5100	GJ3M
5045	5837	5101	GJ5M
5046	5844		

C.V.	Commercial Types	C.V.	Commercial Types
5102	GJ6M	7004	OC45
5103	ZS20B	7005	OC71
5104	GEX541	7006	OC72
5105	OC45	7007	OC77
5106	EIT	7008	GET6
5107	KD63	7009	GET10
5108	EFP60	7010	OC16
5109	GE10	7011	V30/30P
5110	EF39	7012	V60/30P
5111	AD	7013	1S113
5112	3A/167M	7014	ZR20
5113	5787	7015	ZR21
5114	6260B	7016	ZR22
5115	X79	7017	ZR24
5116	3B/241M	7018	ZR11
5117	E148L	7019	ZR12
5120	20CV	7020	ZR14
5121	6870	7021	RS20
5122	Z900T	7022	RS20
5131	DG4-1	7023	RS20
5140	EA52	7024	RS20
5145	PCL83	7025	RS20
5156	EF89	7036	GJ4M
5164	MM13-10	7037	GJ6M
5171	DP7-5	7038	GJ3M
6004	XC12	7040	0A202
6005	VX9216	7041	0A95
6008	24B1	7042	GT41
7001	P03	7045	1S111
7002	P04	7046	1S115
7003	OC44	7048	0A5

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Type No.	C.V. No.	Type No.	C.V. No.
AA76	2369	AC/SP3RHSel	545
AC/DD	1170	AC/S1VM	1165
AC/DDT	2813	AC/S2	1677
AC/HL	2811	AC/S2Pen	1282
AC/HL/(Met)	2812	AC/TH1	2830
AC/HL/DD	2813	AC/TP	1718
ACH/P	1282	ACT6	2825
AC/L	1732	ACT9	28
ACP	2815	ACT10	2827
AC/PCen	1174	ACT16	1431
ACPT8	2818	ACT17	225
AC/P4	207	ACT19	379
AC/Q	1326	ACT22	257
ACR1	1379	ACT23	288
ACR2	1379	ACT24	240
ACR2X	1380	ACT25	436
ACR3	1386	ACT27	2163
ACR4	1387	AC/VH	3788
ACR5	1388	AC/VP(o)	1169
ACR6	1389	AC/VPB(o)	2832
ACR7	2745	AC/VP1	518
ACR8	1381	AC/VP2	2832
ACR10	1382	AC/VS	1165
ACR11	1383	AC/Y	1174
ACR12	1384	AC/YY	1326
ACR13	1385	AC/Z	1181
ACR14	1390	AC044	1168
ACR15	1391	AC2/HL	2806
ACR16	1392	AC2/HLMet	2807
ACR17	1393	AC2/PCen	2808
ACR18	1394	AC/2PenDD	519
ACR19	1395	AC/4	1326
ACR20	964	AC/5	2809
ACR21	1397	AC/5PenDD	1196
ACR22	252	AC/6Pen	1189
ACR23	1398	AC/7	1683
AC/S	2819	AC104	1161
AC/SG	2822	AD1	1314
AC/SGVM	1165	AD/P4	1198
AC/SH	1677	AFH202	12
AC/SPen	2824	AFX203	2868
AC/SP1	2820	AFX212	1949
AC/SP3	2823	AFX234	5023
AC/SP3RH	1430	AF3	2833
		AF350	1252
		AH200	1628
		AH201	32
		AH205	2673
		AH211	532
		AH213	2723
		AH217	642

Type No.	C.V. No.	Type No.	C.V. No.
AH221	5	ARS6	1317
AL1	1435	ARS7	1318
AL60	159	ARS8	1319
AN1	9	ARTH2	1347
APP4A	1128	ARTP1	1344
APP4B	1683	ARTP2	1345
APP4C	1181	AR2	2838
APP4G	1684	AR4	1303
APP4G	2836	AR5	1166
APP4G	2847	AR6	1304
AP4	1175	AR7	1109
APV4	1039	AR8	1306
ARDD1	1300	AR9	1307
ARDD3	1301	AR10	1308
ARDD5	1054	AR11	1655
ARD2	1078	AR12	1653
ARD4	1302	AR13	1664
ARH1	1280	AR14	1312
ARP1	1118	AR15	1313
ARP2	1320	AR16	1032
ARP3	1321	AR17	1037
ARP4	1322	AR20	1663
ARP5	1323	AR21	1055
ARP6	1324	AR63	3710
ARP7	1325	AR300	2839
ARP8	1326	AS4120	1677
ARP9	1327	ATP4	1366
ARP9A	1328	ATP5	1367
ARP10	1329	ATP7	1368
ARP11	1330	ATP10	1369
ARP12	1331	ATP35	1370
ARP12T	2841	ATP75	1371
ARP13	1332	ATP100	1372
ARP14	1333	ATP600	1373
ARP15	1195	ATR387	3539
ARP16	1074	ATR388	3874
ARP17	1186	ATS25	1374
ARP18	1334	ATS25A	1364
ARP19	1335	ATS70	1365
ARP20	1336	ATS250	1031
ARP21	1192	AT4	1171
ARP22	1337	AT15	2845
ARP23	1124	AT16	2846
ARP24	1138	AT20	1361
ARP25	1181	AT26	1360
ARP26	1340	AT35	1025
ARP33	1341	AT75	1222
ARP34	1053	AT80	25
ARP35	1091	AT200A	2850
ARP36	1065	AT200B	1363
ARP37	1342	AU1	1264
ARP38	1343	AU2	1349

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Type No.	C.V. No.	Type No.	C.V. No.
AU3	1064	B0L014MW	984
AU3A	1039	BR129	2689
AU4	1113	BR153	2159
AU5	1111	BR161	2322
AU6	1072	BR175	904
AU7	1355	BR179	2323
AU8	1356	BS4	189
AU12	1266	BS4A	1859
AU13	1863	BS5	233
AW1	1358	BS48	460
AW2	1070	BS52	1841
AW3	1110	BS60	527
AW4	1068	BS62	1858
AW5	1359	BS64	1743
AW6	1077	BS82	463
AW223	1601	BS84	462
AX224	1835	BS92	461
AX230	2518	BS100	1219
AZ1	2860	BT5	1147
AZ2	2861	BT9	1145
AZ31	2862	BT9A	1146
AZ32	2861	BT9B	13
AZ41	3892	BT19	1144
A40	2800	BT35	1147
A41	1175	BT45	22
A40/N3	2801	BT75	489
A41	1175	BT79	372
A207	2160	BT83	2110
A232	3587	BTR32	458
A373	1184	BTR34	459
A800	412	BU28/4	5003
A819	1698	EU100/6	2867
A901	1722	BW129	2686
A915	1462	BW140	2871
A915met	2803	BW153	2872
A915Amet	2804	BW173	1600
A924	2805	BW187	421
A1065	1343	B1C/1C	2734
A1714	408	B1C/1E	433
A1820	409	B2A	2565
A1835	2523	B6	2140
A2087	2171	B6E	2141
A2094	5056	B12	494
A2196	3920	B12E	2142
A2244	3921	B21	2864
A4229	824	B24	2143
BD78	2125	B24E	2144
B1C/1E	433	B30	2865
BK24	2124	B36	925
BK44	1742	B65	278
BL25	5066	B142	635
BL63	1102		1927

Type No.	C.V. No.	Type No.	C.V. No.
B217	1021	CR176	2324
B228	1673	CS2-A	103
B230	1032	CS2-C	1907
B240	1032	CS3-A	253
B262	1018	CS3-B	1844
B309	455	CS4B	2258
B406	3621	CS31A	5022
	789	CS36A	165
B1109			367
	2736	CS37A	
CAA322	1904		3923
CARI	1601	CWS24A	1968
CAR4	1602	CX25	1766
CAT1	1600	CX1113	2851
CAT2	1606	CY31	1402
CAT6	2871	C1A	2868
CAT9	2872	C1B	1765
CAT17	533	C1C	1400
CAT20C	421	C1K	2790
CBL31	1463	C6A	714
CC3D	2870	C10/SS/2G	2794
CC3L	2266	C12B	2315
CE1C	2692	C12R	429
CE1D	2680	C14HM	3535
CE1E	2680	C16GS/2G	2745
CE2	1764	C143	26
CE20	1474	C144	2666
CE25	405		788
CE72	709	C180	
CE230	812		1088
CG1-C	425	C200	2988
CG1-E	425	C203A	2986
CG3E	164	C243N	1118
CG14	496	C1108	2130
CK502AX	385		2752
CK505AX	443	C1111	427
CK506AX	387		528
CK705	2650	C1112	2131
CK707	2848	C7501	2869
CK1005	2874	DA	1109
CK5704	2847	DAC1	2887
CL4	2875	DAC32	1820
CL33	1401	DAF70	2104
CMG8	1432	DAF91	784
CMG22	1473	DAG1	2
CMG25	242	DA30	563
CMG25(R.S.)	250	DA41	1076
CMG25 short	1472	DA42	2394
CRT1	2878	DA60	527
CRT2	2879	DA90	753
CRT Type 4/1	2880	DA100	1219
CRT/51	487	DB13-2	3955
		DCC90	808

Type No.	C.V. No.	Type No.	C.V. No.
DC2P	1735	DG16-22	2352
DC51	1	DG16-21	2352
DC/0	2275	DH	1665
DDL4	1691	DH30	1695
DDL13	1695	DH63	587
DDPP4M	519	DH63M	587
DDR2	173	DH73M	2909
DDT	2813	DH77	452
DDT(Met)	2890	DH81	882
DDT4	2813	DK1	2910
DDX52	2232	DK32	1802
DD4	1170	DK91	782
DD6	140	DL	1661
DD6G	140	DLS10	190
DD41	1403	DL2	2911
DD620	2889	DL33	819
DEQ	1156	DL35	1803
DER	1642	DL63	2912
DET1SW	2895	DL64	2331
DET3	1034	DL66	2106
DET5	1223	DL68	2259
DET6	1620	DL70	2105
DET9	2899	DL71	385
DET10	2900	DL72	387
DET12	1288	DL73	2299
DET16	1363	DL75	2102
DET18	419	DL92	820
DET19	18	DL93	807
DET20	6	DL94	2983
DET22	273	DL95	818
DET23	354	DL98	2240
DET24	397	DM6	2146
DET25	1025	DM70	2980
DE5	2891	D024	1040
DE5B	2892	D026	1178
DF33	1823	D030	1178
DF64	2260	D060	1206
DF66	2107	DP7-5	5171
	443	DP13-2	3954
DF70	386	DP16-22	2498
	2101	DQP	1121
DF72	2103	DS	2979
DF73	785	DS103	94
DF91	1758	DT70	798
DF92	1141	DV32	88
DGP	5131	DV34	127
DG4-1	2175	DV40B	228
DG7-5	2431	DV55	230
DG7-32	3946	DV56	234
DG7-36	2191	DW2	1443
DG13-2	5035	DW4/350	1796
DG13-34		DW4/500	1064

Type No.	C.V. No.	Type No.	C.V. No.
DY70	2241	EC52	1137
D1	1078	EC53	1197
D2	2778	EC54	66
D4	1037	EC55	273
D41	1187	EC70	468
D42	557	EC71	3930
D61	1092	EC80	1886
D63	554	EC81	1865
D77	140	EC90	133
D210	1021	EC91	417
D400	1170	EE8020	2967
	1686	EF8	1713
D418	1687	EF9	1427
EAC91	137	EF22	303
EAF42	3883	EF36	1056
	375	EF37	358
EA50	1092	EF37A	5080
	5140	EF39	1053
EA52	469	EF40	3885
EA76	1428	EF41	3886
EBC3	347	EF42	3887
EBC21	1055	EF50	1091
EBC33	452	EF51	305
EBC90	2925	EF52	327
EBF2	501	EF54	1136
EBF32	2926	EF55	173
EBL31	1054	EF70	467
EB34	3881	EF71	475
EB41	3882	EF72	465
EBC41	140	EF73	466
EB91	1285	EF74	476
ECC31	181	EF80	1376
ECC32	569	EF85	1375
ECC35	3884	EF86	2901
ECC40	3986	EF89	5156
ECC70	455	EF91	138
ECC81	491	EF92	131
ECC82	492	EF93	454
ECC83	858	EF94	2524
ECC91	2929	EF95	850
ECH3	302	EF731	477
ECH22	2930	EF734	3929
ECH33	1347	EF800	5092
ECH35	3888	EFP60	5108
ECH42	2128	EHA5000	2687
ECH81	1588	EHM2	2139
ECR30	1587	EHT1	19
ECR35	1097	EHW5000	2686
ECR60	1433	EK2	1426
EC31	2927	EK32	1057
EC50			

Type No.	C.V. No.	Type No.	C.V. No.
EK90	453	ESU200	5
EL2	1429	ESU208	1260
EL3C	822	ESU300	2947
EL5B	2936	ESU450	1259
EL22	304	ESU866	32
EL31	2888	ESU872	642
EL32	1052	ESU1500	2944
EL33	2938	ESW501	1621
	1741	ESW5000	2686
EL34	}	ES15	3853
		1742	5060
EL35	1286	ES75H	}
EL36	2940		
EL37	586	ES85	25
EL38	450	ES204A	2563
EL41	3889	ES207	3850
EL42	3890	ES250M	1618
EL50	2941	ES253	3851
EL70	471	ES357	27
EL71	4029	ES450	1207
EL81	2721	ES450X	1553
EL83	2726	ES833	635
EL84	2975	ES1500	1614
EL85	3526	ES1500A	1614
EL86	5094	ET3	451
EL90	1862	ET30	1030
EL91	136	EY51	426
EL803	5093	EY70	473
EL821	2127	EY84	2235
EL822	2382	EY86	2966
EM4	1434	EY91	135
EM31	1077	EZ22	346
EM34	394	EZ35	574
EM35	1103	EZ40	3891
EM80	1352	EZ90	493
EN30	2349	E1T	5106
EN32	2253	E80F	2729
EN70	474	E132	1643
EN91	797	E133	1645
EN92	3512	E446	1282
EN93	1949	E686	5094
ESA891	2688	E960	1058
ESA892	701	E960T	1098
ESA892C	904	E1024	1114
ESA5000	2687	E1046	1090
ESG250	1031	E1097	1111
ESP450	1506	E1132	1111
ESU74	74	E1143	1577
ESU75	2945	E1148	6
ESU76	2943	E1148	2920
ESU150	2946	E1155	44
		E1161	1253

Type No.	C.V. No.	Type No.	C.V. No.
E1164	1091	E1457	257
E1180	1077	E1458	178
E1189	1255	E1459	174
E1190	55	E1465	236
E1191	12	E1468	172
E1192	1501	E1474	78
E1198	38	E1481	192
E1199	1405	E1485	807
E1209	7	E1487	208
E1228	3	E1494	191
E1229	4	E1495	259
E1231	52	E1496	240
E1232	92	E1497	215
E1235	29		355
E1236	69	E1511	
E1242	1510		356
E1248	8	E1516	221
E1255	40	E1524	338
E1256	42	E1527	290
E1266	15	E1531	214
E1267	41	E1532	1644
E1271	57	E1541	1716
E1273	58	E1563	1863
E1287	23	E1591	181
E1289	1148	E1599	273
E1297	5	E1606	278
E1320	51	E1633	456
E1323	63	E1647	288
E1325	56	E1648	135
E1326	69	E1659	453
E1331	1510	E1706	437
E1335	61	E1714	408
E1337	78	E1769	397
E1342	64	E1860	240
E1355	1343	E1935	415
E1359	76	E1938	493
E1362	126	E1954	25
E1365	114	E1955	797
E1368	90	E1956	261
E1371	105	E1959	495
E1373	99	E1996	436
E1379	79	E2004	2115
E1380	89	E2016	1758
E1411	153	E2018	454
E1415	115	E2095	471
E1416	281	E2133	2276
E1417	117	E2134	2179
E1419	154	E2163	491
E1423	406	E2164	492
E1429	79	E2196	3920
E1436	188	E2221	2277
E1453	1646	E2244	3921

Type No.	C.V. No.	Type No.	C.V. No.
E4103/B/4	1522	GD86W	2321
E4103/E/4	2205	GD100	2375
E4205B/7	1588	GD100A	188
E4205/C/7	1525	GD100B	1070
E4412/B/9	1587	GD120A	5110
E4412/C/9	2301	GD150A	216
E4412/E/9	1529	GD150C3	216
E4412/M/9	1521	GD150M	1832
E4504/B/16	1385	GE Pt.No. NE2	2976
E4504/C/16	252	GE Type T2	743
E4504/E/16	1391	GE Type T4½	744
E4504/M/16	966	GE10	5109
FA13	2952	GEX35	442
FA14	2953	GEX45/1	425
FA15	298	GEX54/1	5104
FC2	1043	GEX54/3	166
FC2A	2954	GEX64	2310
FC13C	2956		7038
FG17	2957	GJ3M	5100
FG27A	2958	GJ4M	7036
FG67	742	GJ5M	5101
FP54	2960		7037
FVD7	404	GJ6M	5102
FW4/500	1264	GK2261	5095
FW4/800	31	GK2401	5096
FX215	2203	GL203A	2986
	2520	GL446	3725
FX219	3540	GL446A	932
FX225	1787	GL446B	687
FX227	372	GL455	2789
FX229	3521	GL464	3604
FX231	2993	GL464A	688
F2	2338	GL471A	3586
F123A	2949	GL532	2547
F129B	2950	GL532A	2647
F328A	734	GL592	1903
F353	642	GL806	2658
F353A	642	GL868	2680
F366A	32	GL889R	2687
F869B	2723	GL889RA	2687
F872A	642	GL892R	904
F872B	642	GL918	2692
F892R	904	GL2050	2565
F/6063	4001	GL6621	5069
F/6064	4002	GL8020	2957
GA5A	2647	GL8023	933
GC10A	2199	GM1B	2149
GC10B/S	2271	GM4	2138
GC10/4B	1739	GM5	411
GDT4B	1141	GM5B	2148
GD60	2374		

GS10C—HP215

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Type No.	C.V. No.	Type No.	C.V. No.
GS10C	2325	G150/3D	216
GS12/C	1740	G180/2M	395
GS16S0(80-110)	2694	G210/1C	212
GS16(160)	248	G240/2D	2174
GS16(80-110)	1473	G400	289
GS18	242	G400/1K	2194
GS26	1432	G445B	1651
GS44X	1913	HAD	1419
GS46	584	HA1	1171
GS47X	405	HA2	1059
GS118	1801	HD14	1818
GS146	2692	HD24	2985
GTK95M/S	256	HD203A	2986
GTR95M/S	286	HD2016A	5051
GTR120A	45	HD6002	3992
GTR150M/S	287	HF93	1928
GT1	2969	HF100	2987
GT1A	1143	HF130	638
GT1C	1128	HF200	2988
GT1E	530	HF300	693
GT11	435	HK24	941
GU1	1262	HK24G	789
GU5	1072	HK54	707
GU7	2973	HK257	824
GU8	1628	HK354E	2989
GU11	532	HLA2	1678
GU20	1435	HLB1	1021
GU21	5	HLDD/1320	3503
GU50	1072	HL2	1673
GXU2	2518	HL2 Met	2991
GXU3	2399	HL2K	1050
GX402	2902	HL4	1173
GZ32	593	HL4X	1037
GZ33	378	HL13C	1109
GZ34	1377	HL21	1303
G1/235G	3524	HL21DD	1044
G1/371K	2224	HL23	1130
G5S3	3981	HL23DD	2995
G5H	2233	HL41	24
G7B	5047	HL41DD	2996
G10H	2173	HL92	1959
G10/241B	2223	HL133	2998
G24E	2148	HL133/DD	2999
G24H	2147	HL210	3500
G50/1G	2208	HL210A	1303
G60E	2149	HL610	3501
G75/2D	3798	HL1320	3502
G105/1D	686	HP2	1032
G120/1B	438	HP6	138
G150/1A	75	HP210	1322
G150/2D	413	HP215	1322

COMMERCIAL TO C.V.

HP415—LP2

Type No.	C.V. No.	Type No.	C.V. No.
HP415	1169	KS9-20	1795
HP4101	1124	KS9-20A	2792
HP4101c	1282	KTW61	1100
HP4106	1169	KTW62	1100
HP4115	1169	KTW63	1195
HR2	261	KTW73	1056
HR7	404	KTW73M	3527
HR210	1673	KTW74M	918
HT415	3540	KTZ41	3529
HVR2	1134	KTZ63	1074
HV18	2988	KTZ73M	3530
HY51B	702	KT2	1118
HY61	124	KT8	1079
HY75	751	KT8c	1079
HY114B	CV3505	KT24	1334
HY615	3506	KT30(o)	3519(o)
H2	2977	KT31(o)	3520
H2D	1044	KT32	1287
H12	2978	KT33C	1503
H30	2979	KT38	1576
H42	1182	KT41	1181
H45	372	KT42	1174
H63	1073	KT44	1577
H210	1673	KT44T	1576
H410	2981	KT45	1825
H610	2982	KT61	1438
IFW1	1039	KT63	1186
IW3	1039	KT66	1075
IW4	1039	KT67	437
IW4/500	1039	KT81	885
JP9-7	3676	KU25	2993
	370	KU54	3875
JP9-7D	{	K3A	410
	1866	K7RF4	1808
JP9-15	3997	K301	2161
JP9-80	3569	K302	2164
JP9-80A	5018	K305	2263
JP9-250	2284	K307	1871
JP9-250A	3953	K308	2283
KB2	3515	K312	2273
KD63	5107	K322	2791
KK2	3516(o)	K324	2304
KRN2	87	K335	2343
KRN3	158	K1051	2849
	217	K1105P2	3736
KR3	{	K8140824	3514
	218	LD210	502
KR6/1	116	LG210	1021
KR6/2	237	LL2	1021
KR6/3	238	LP2	548
KR6/4	272	LP2	1023

Type No.	C.V. No.	Type No.	C.V. No.
LP4	1168	MHT4	2955
LP220	1166	MH4	1037
LS5	1637	MH4(Met)	399
LS5A	1650	MH41	1505
LS5B	2846	MKT4	1683
LS5X	1667	ML4	1732
LS6A	3541	ML6	1105
LS7	1660	ML5667	2687
LS8	1656	MM4V	1165
LS8A	1676	MM113-10	5164
LS9B	1658	MP/PEN	1683
LS408A	3536	MPT4	1174
LS532	3542	MPT4K	3552
LS650	391	MPT42	3554
LS731	273	MR4	1611
L2	3531	MR10	34
L9	328	MR75	1142
L21	3532	MR300	3557
L21DD	1308	MR300E	3558
L22DD	3533	MSG/LA(o)	1677
L30	3534	MS Pen	3561
L63	1067	MS Pen (clear)	1124
L77	133	MS Pen (5 pin)	244
L210	1021	MS/Pen B	1125
L410	1152	MS/Pen T	1129
L600	3537	MSP4	1282
L610	3538	MSP41	3562
L3040	5089	MS4	1164
L3041	5090	MS4B	3553
ME41	3565	MT4	1610
ME1001	273	MT9F	1439
ME1005	354	MT9L	1440
ME1100	1795	MT11SW	3563
ME1400	432	MT12	3564
	495	MT12A	1441
ME1401		MT13	1614
	2269	MT14	1442
ME1402	2730	MT16	1030
ME1403	2348	MT17	2957
ME1500	474	MT5544	2210
ME1501	2253	MT5545	2215
ME1502	1128	MU1	3567
ME1503	1787	MU2	1459
MF11-15	3959	MU12	1039
MF31-55	429	MU12/14	1039
	1869	MU4250	1072
MF31-95		MVSG	1165
	2328	MVS Pen	3571
MHD4	3546	MVS Pen	1169
MHLD6	1101	MVS Pen B	3572
MHL4	1038	MV6-5	1976

COMMERCIAL TO C.V.

MW6-2--NGT6A

Type No.	C.V. No.	Type No.	C.V. No.
MW6-2	1737	M8099	4070
MW22-22	3999	M8100	4010
MW100	25	M8136	4003
MX1	1515	M8142	4054
MX2	418	M8137	4004
MX40	3576	M8140	4002
MX52	306	M8161	4015
MX57	209	M8162	4024
MX103	2150	M8167	4067
MX105	2151		4066
MX107	2152	M8190	3960
MX108	2153		
MX408U	5024	M8196	4011
MY3-275	1252	M8212	4007
MZ05-20	3573	M8223	4020
MZ05-60	1206	M8232	5029
MZ1-70	25	M8234	5082
MZ1-75	444	M8237	4049
MZ1-76	3574	M8245	4017
MZ1-100	1219	NC1	950
MZ2-200	200	NC2	951
M2H	2886	NC3	952
M6	2145	NC4	953
M125H	177	NC5	954
M500	353	NC6	955
M501	76	NC7	956
M502	2284	NC8	957
M502A	2229	NC9	958
M503	1866	NC10	959
M505	1747	NC11	960
M506	3982	NC12	960
M507	69	NC13	961
M508	370	NC13A	987
M509	3976	NC14	962
M510	1827	NC15	1596
M512	1828	NC16	964
M513	3528	NC17	965
M518	513	NC18	966
M518A	2744	NC19	967
M519	99	NC20	989
	2362	NE2	2976
M525			NE16
	2368	NE17	359
M528			NE18
M537	160	NGT1	1141
M542	2281	NGT2	1128
M548	3602	NGT3	1142
M8079	5031	NGT4	1143
M8081	4025	NGT5	1144
M8083	4031	NGT6	1145
M8083	4014	NGT6A	1146
M8090	4048		

NGT7—NT33

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Type No.	C.V. No.	Type No.	C.V. No.
NGT7	1147	NR67	1280
NGT8	1148	NR68	587
NGT9	1149	NR69	1103
NHP1	310	NR70	1124
NP90	3607	NR71	1129
NR14	1150	NR72	1188
NR15	1151	NR73	1285
NR15A	1152	NR74	1189
NR16	1153	NR75	1190
NR16A	1154	NR76	1191
NR17	1155	NR77	1286
NR18	1156	NR78	581
NR19	1157	NR78A	1932
NR22	1158	NR79	1192
NR23	1159	NR81	1941
NR26	1038	NR82	1193
NR27	1160	NR83	1074
NR27A	1161	NR84	1194
NR28	1019	NR85	1186
NR31	399	NR86	1195
NR35	1163	NR87	1196
NR37	1164	NR88	1197
NR38	1165	NR89	35
NR39	1118	NR94	1198
NR40	1237	NR95	1287
NR41	1083	NSP1	220
NR42	1166	NSP2	2296
NR43	1167	NS1	1069
NR44	1168	NS2	1199
NR45	1169	NS3	1200
NR46	1170	NS4	1201
NR47	1040	NS5	1202
NR48	1055	NT1	1203
NR49	1056	NT2	2213
NR50	1171	NT3	1292
NR51	1172	NT4A	1204
NR52	1173	NT10	1294
NR53	1174	NT13	2788
NR54	1175	NT17	1205
NR54A	1176	NT18	1206
NR55	1109	NT19	1207
NR56	1178	NT20	1208
NR57	1179	NT22B	1209
NR58	1180	NT22C	1210
NR59	1181	NT23B	1211
NR60	1182	NT23D	1212
NR61	1183	NT24	1213
NR62	1184	NT30	1214
NR64	1100	NT31	1215
NR65	1282	NT32B	1216
NR66	1187	NT33	1217

COMMERCIAL TO C.V.

NT35—OA73

Type No.	C.V. No.	Type No.	C.V. No.
NT35	1218	NU1	1258
NT36	1219	NU2	1259
NT37	1220	NU3	1064
NT38	1293	NU4	1260
NT38A	1221	NU5	1261
NT39	1222	NU7	1262
NT40	1223	NU8	1263
NT41A	1224	NU12	1264
NT43	1225	NU13	1265
NT45	1295	NU13A	1266
NT45A	1226	NU15	1267
NT46R	1227	NU17	1039
NT48	1228	NU17S	1296
NT52	1229	NU18	1113
NT54	1230	NU20	1474
NT57	1231	NU20	1268
NT57A	1232	NU22B	1269
NT57D	1233	NU22C	1270
NT57T	1234	NU23	1271
NT58	1288	NU24	1272
NT58A	1235	NU25	1273
NT59A	1236	NU26	1274
NT62	1237	NU26C	1275
NT62A	1238	NU28	1276
NT63A	1239	NU29	1277
NT65	1240	NU30	1278
NT65A	1240	NU31	1279
NT68	1241	NU33	1290
NT68A	1242	NU33A	1291
NT69	1243	NU34	1134
NT75	1244	NU40T2	1076
NT77A	50	NU75H	751
NT77B	50	NU114B	3505
NT78A	1245	NU200	2988
NT82	1246	NU615	3506
NT83	1247	N14	1803
NT84	1248	N16	819
NT86	1249	N17	820
NT87	1250	N18	818
NT90	1251	N41(o)	1181
NT92	1252	N43(o)	1675
NT93	1253	N77	136
NT97	1254	N78	3711
NT98	1255	N727	1862
NT98A	1491	OA2	1832
NT98B	1492	OA2WA	4020
NT98C	1493	OA3	3798
NT98D	1494	OA3/VR75	3798
NT99	1256	OA4G	752
NT100	1257	OA71	448
NU1	2680	OA73	442

OA74—PO4

COMMERCIAL TO C.V.

Type No.	C.V. No.	Type No.	C.V. No.
OA74	425	PEN 4VA	1174
OA81	1353	PEN 13C	889
OA85	1354	PEN 25	65
OA95	7041	PEN 36A	1672
OA202	7040	PEN 36C	1672
OB2	1833	PEN 44	3630
OB2WA	4028	PEN 45	1407
OB3	3799	PEN 45DD	3631
OB3/VR90	3799	PEN 46	1127
OC2.5	1607	PEN 220	1118
OC3	686	PEN 220A	1051
OC3/VR105	686	PEN 231	3633
OC16	7010	PEN 383	1456
OC44	7003	PEN 428	3634
	}	PEN 1340	3635
OC45		5105	PEN 1346
	}	PE7B	3624
OC71		7004	PE8
OC72	7005	PJ8	3640(o)
OC77	7006	PJ23	2680(o)
OD3	216	PK150	150
OD3/VR150	216	PL81	5077
OD3W	3979	PL522	2520
OG3	449	PM1A	2977
OM1	1402	PM1HF	1673
OM3	1054	PM1HL	3641
OM4	1055	PM1LF	3642
OM5	1056	PM2	1019
OM6	1053	PM2A	3643
OM9	1052	PM2B	1032
OM10	1581	PM2BA	1163
OM10(unmet)	1581	PM2DX	3645
OZ4	692	PM2HL	1050
OZ4A	517	PM3	1151
O1A	750	PM4DX	1152
O2DF	2260	PM12	1018
O9	2725	PM12A	1018
O9D	1596	PM12M	1041
O9J	1518	PM12V	319
PA1	1689	PM14	1159
PA40	3623	PM22	3649
	}	PM22A	3647
PCL83		5144	PM22D
	}	PM24A	1167
PD22A		5145	PM24D
PD220	1163	PM24E	3648
PD220A	1032	PM202	185
PEN A4	1696	PM254	1153
PEN B1	3638	PM256	1208
PEN B4	1118	PO3	7001
PEN B4	3626	PO4	7002
PEN T139	399		
PEN 4DD	CV519		

COMMERCIAL TO C.V.

PP3/250—QV1-150A

Type No.	C.V. No.	Type No.	C.V. No.
PP3/250	1168	QK284	3686
PP3/400	1040	QK338	3903
PP222	1118	QK353	3737
PTA	889	QK387	5019
PT2	1118	QK388	5020
PT4	1181	QK428	3966
PT5	3652	QMG159	2874
PT5E	3579	QPT2	1035
PT6	3653	QP21	1035
PT11	3654	QP22B	1035
PT15	1104	QP25	556
PT25	1046	QP230	1035
PT25H	1046	QQE03-12	2798
PT425	3656	QQE06-40	424
PT425X	1167	QQV03-10	2798
PV05-15	3657	QQV03-20	2799
PV1-35	3658	QQV03-20A	2799
PV495	1443	QQV04-15	788
PX4	1168	QQV04-20	2663
PX5	1040	QQV05-P10	2295
PX25	1040	QQV06-40	424
PX41	1168	QQV06-40A	2797
PY3-600	1373	QQV07-40	2666
PZ1-35	1240	QQZ04-15	1838
PZ1-75	1221		284
P2	1246	QS75/20	5083
P12/250	1168	QS75/60	434
P27/500	1040	QS83/3	449
P41	1408	QS92/10	188
P57	1466	QS95/10	286
P61	1066	QS108/45	422
P215	1019	QS150/15	287
P220	3620	QS150/40	216
P220A	1023	QS150/45	395
P410	3621	QS1200	2225
P415	1154	QS1202	4052
P425	1154	QS1203	4053
P495	1181	QS1205	3798
P535/1E	398	QS1206	686
P552/1E	427	QS1207	1832
P610	3622	QS1208	1833
P625	1208	QS1209	449
QA2400	4015	QS1212	4048
QA2403	4014	QS1213	4054
QA2404	4025	OV03-12	2129
QA2406	4024	OV04-7	309
QA2407	4005	OV05-25	124
QF196	1078	OV06-20	3523
QK26	1768	QV1-150	2519
QK221	3902	QV1-150A	2519
QK283	3685		

Type No.	C.V. No.	Type No.	C.V. No.
QV20-P18	2752	RT1	190
QY550-P40	313	RV120/250	106+
QY2-100	26	RX3-120	1261
QY3-65	1905	RX233	3680
QY3-125	2130	RX233A	793
QY4-250	2131	RX235	709
REL5	1098	RZ1-150	3690
REL8D	733	RZ1-250	2853
REL21	1507	R1	1443
REL25	914	R2/10	97
REL64	507	R2/38	98
RG1-125	1263	R3	1039
RG1-240	1626	R3/10	95
RG1-240A	1072	R3/16	96
RG1-250	3667	R4	1796
RG3-250	1625	R4A	1064
RG3-250A	32	R10	261
RG3-1250	1629	R11	1111
RG3-1250A	5	R12	426
RG4-1000	3670	R17	2218
RG4-1250	5	R18	2235
RG5-500	1349	R52	1863
RKR47	3683	R612G	597
RKR72	709	R4410	521
RKR73	2543	R5161	1738
RK20A	704	R5222	2346
RK28	3672	R5289	2116
RK28A	3673	R6010	2353
RK30	2657	R6015	2354
RK31	3674	SAL39	3876
RK33	875	SD6	1989
RK34	18	SD432	3544
RK38	2591	SG215	3702
RK44	637	SG220	1018
RK47	3677	SG250	1031
RK48A	690	SM95	286
RK49	3679	SM150	287
RK57	225	SN947D	471
RK58	638	SN954	473
RK60	3680	SN956B	2241
RK62	3681	SPT2	1049
RK63	2589	SPT4A	1682
RK6112	2116	SP2	1320
RL7	1136	SP4	1324
RL7	92	SP4B	3703
RL16	1137	SP6	136
RL18	1197	SP13C	3704
RL37	66	SP41	1574
RL7076-2A/B	2965	SP42	1336
RR3-250	1835	SP61	1065
RR3-1250	2518	SP210	1322

COMMERCIAL TO C.V.

SP215—TY3-250

Type No.	C.V. No.	Type No.	C.V. No.
SP215	1320	S625	1317
SS22AF	39	TBL6-6000	3926
SS1971	1604	TB3/750	1350
STV70/60	1895	TB4/1250	1351
STV150/200	3709(o)	TCR1	1733
STW280/40	1068	TDD2A	3726
STV280/80	1069	TDD4	3727
STV280/80A	3712	TDD13C	1419
SU41	1113	TD03-5	354
SU44	261	TD03-10	273
SU45	371	TD03-10F	2204
SU750	126	TD04-20	397
SU2150A	1290	TD1-100	2516
SU4150A	1134	TH2	1410
SV2	1731	TH4A	1194
SV3	1070	TH4B	1194
SV2C39A	2516	TH41	1411
SV4X/150A	2519	TH1657A	5011
SV280/40	1068	TMC15B	3730
SV280/80	1069	TMC16B	3731
SV813	26	TMC20B	3732
SV828	631	TP22	1344
SW5	3715	TP25	1345
SW7	3719	TP26	3735
SW7	1609	TSP4	560
SW35Pen	1370	TSW50	1288
SW40H	1076	TSW50A	1235
SW40Pen	1104	TS70	798
SW75Pen	1371	TT4	1179
S2	1018	TT10	26
S2A	984	TT11	1501
S3A	374	TT12	524
S4VB	1677	TT15	415
S6F12	4014	TT16	2963
S6F33	4064	TT18	2666
S23	3691	TTR31	221
S23(met)	3692	TTR31 MC(9375)	1748
S24	1018	TTR31 MR(9100)	3840
S25A	16	TTR31 MR(9375)	1923
S26A	53	Tube RG1	1453
S27A	82	Tube RG2	566
S28A	88	TV03-10	1573
S30A	127	TV03-10A	1089
S130	1110	TV4	1412
S130A	3694	TX3-200	3739
S130P	45	TX4(o)	1194
S215	3695	TX5-400	3740
S215A	3696	TYS4-500	1889
S215B	1018	TY1-50	1288
S215VM	1028	TY2-125	1924
S410	1159	TY3-250	1350
S610	3698		

TY4-350—VCR140

Type No.	C.V. No.
TY4-350	635
TY4-500	1351
TY4-500B	167
TY6-5000A	3926
TZ05-20	1047
TZ2-250	1618
TZ2-300	3741
TZ20	3742
TZ40	1076
T4D	3721
T20	3722
T20G	1047
T21	3679
T41	3723
T200	3724
T250	1030
T814	2658
T2000	1121
UD143	2293
UD166C	2257
UE301	621
UE905	625
UE938	638
UE945	735
UE972	642
UL41	1977
UR3C	3758
UU4	3759
UU5	1039
UU6	1413
UU7	3761
UU9	1855
UU12	5072
UU120/350	1796
UU120/500	1064
UV203A	2986
UX6653	3592
U2	142
U3	143
U4	1608
U4	144
U5	3743
U5	145
U6	3744
	147
U7	149
U8	148
U10	1443
U12	1064
U14	1064

COMMERCIAL TO C.V.

Type No.	C.V. No.
U15	3747
U16	1290
U17	1113
U18	1264
U18/20	31
U19	187
U19/23	187
U20	31
U21	3751
U22	3750
U23	235
U24	1921
U27	1111
U30	3752
U31	3753
U37	2289
U41	2115
U50	1268
U52	1071
U78	493
U82	3919
U143	2862
U600	3756
U709	3996
U4020	1267
VA16	528
VA35	285
VA50	2132
VCRX192	2280
VCRX210	389
VCRX212	2272
VCRX214	2211
VCRX225	2415
VCRX298	2184
VCRX312	2222
VCRX346	2372
VCRX361	2230
VCRX390	2352
VCRX397A	2388
VCR84	1084
VCR85	1085
VCR86	1086
VCR87	1087
VCR97	1097
VCR112	1112
VCR131	1131
VCR131A	1548
VCR138	1138
VCR138A	1587
VCR139A	1588
VCR140	1140

COMMERCIAL TO C.V.

VCR140A—VR53

Type No.	C.V. No.	Type No.	C.V. No.
VCR140A	1546	VHTA	2936
VCR311	1511	VH12A	1043
VCR311A	1509	VH14	2955
VCR311B	1590	VH2A	1043
VCR311C	1549	V177	1077
VCR314	1514	V1103	1103
VCR315	1515	V1132	1132
VCR316	1516	V1507	1507
VCR316A	262	V1507(Glass)	86
VCR317	1517	VLS452	3784
VCR317A	1591	VLS492AG	1527
VCR317B	1592	VMP4	1169
VCR317C	1593	VMP4G	1169
VCR317D	1594	VMP4(Met)	1169
VCR317E	1595	VMS4	1165
VCR518	1518	V04	2955
VCR518A	1596	VPT2	1083
VCR519	1519	VTP4	1169
VCR520	1520	VPT4B	1169
VCR521	1521	VTP210	1083
VCR522	1522	VP2	3787
VCR522A	1597	VP2B	520
VCR522B	335	VP4(Met)	3788
VCR522C	336	VP4A	1169
VCR523	1523	VP4B	3582
VCR524	1524	VP13C	3790
VCR524A	1547	VP21	1083
VCR525	1525	VP23	3792
VCR526	1526	VP24(Met)	3793
VCR527	1527	VP41	21
VCR528	1528	VP133	1457
VCR529	1529	VP210	3794
VCR530	1530	VP215	3795
VCR531	1531	VP1322	3796
VCR532	1532	VR17	1017
VCR533	1533	VR18	1018
VCU "A"	968	VR19	1019
VCU "B"	969	VR21	1021
VCU "C"	970	VR22	1022
VCU "E"	972	VR27	1027
VCU "F"	973	VR28	1028
VCU "L"	974	VR32	1032
VCU "M"	975	VR35	1035
VCU "N"	976	VR37	1037
VCU "P"	985	VR38	1038
VF01	80	VR40	1040
VF08	81	VR41	1041
VG11	2976	VR43	1043
VGT121	1121	VR44	1044
VGT121A	1585	VR49	1049
VGT128	1128	VR53	1053

Type No.	C.V. No.	Type No.	C.V. No.
VR54	1054	VS18B0	3625
VR55	1055	VS24	3802
VR56	1056	VS24/K (Met.)	3803
VR57	1057	VS26	161
VR57A	1570	VS68	1068
VR59	1059	VS69	1069
VR65	1065	VS70	1070
VR65A	1574	VS110	1110
VR66	1066	VS110A	1582
VR67	1067	VTX3	1094
VR75-30	3798	VTX4	1026
VR78	1078	VTX7	1030
VR82	1082	VT4B	1553
VR83	1083	VT4C	2576
VR90-30	3799	VT6	2577
VR91	1091	VT8	2563
VR91A	1578	VT10	1610
VR92	1092	VT11	1611
VR95	1095	VT16	1607
VR95A	1579	VT17	1608
VR99	1099	VT17	640
VR99A	1581	VT19	1612
VR100	1100	VT19	641
VR101	1101	VT20	1020
VR102	1102	VT21	1613
VR105-30	686	VT22	2563
VR106	1106	VT23	1023
VR106A	1598	VT23A	1565
VR107	1107	VT24	1636
VR108	1108	VT24	2675
VR108A	1599	VT25	1025
VR109	1109	VT25	1637
VR109A	1000	VT25	603
VR116	1116	VT25A	1567
VR117	1117	VT26	1026
VR117A	1584	VT26	1600
VR118	1118	VT26A	1568
VR119	1119	VT27	1601
VR122	1122	VT27	604
VR123	1123	VT28	936
VR124	1124	VT29	944
VR125	1125	VT30	1030
VR126	1126	VT30	750
VR129	1129	VT31	1031
VR130	1130	VT31	1638
VR130A	1586	VT31	947
VR135	1135	VT31B	1639
VR136	1136	VT32B	1640
VR137	1137	VT32D	1641
VR150-30	216	VT33	1642
VR502	1502	VT33	949
VR503	1503	VT34	1034
VR505	1505	VT34	1614
VS2	3800	VT35	1615

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VT35—VT88A

Type No.	C.V. No.	Type No.	C.V. No.
VT35	1752	VT61B	18
VT36	1602	VT62	1062
VT36	1775	VT62	1606
VT37	606	VT62	621
VT37B	1643	VT63	2531
VT37C	1644	VT65	1649
VT38	1645	VT65	582
VT38	712	VT65A	581
VT38A	1646	VT66	1650
VT39	2723	VT66	1912
VT39A	2723	VT66A	1911
VT40	1647	VT68	1651
VT40	2501	VT68	1891
VT41	2671	VT69	1652
VT42	642	VT69	1900
VT43	735	VT72	249
VT44	711	VT73	1073
VT45	1045	VT73	639
VT45	610	VT73A	1653
VT46	1046	VT74	1074
VT46	1616	VT74	1654
VT46	32	VT74	1864
VT46A	32	VT75	1075
VT47	1047	VT75	1655
VT47	1603	VT75	614
VT47	1772	VT75A	1576
VT48	608	VT75B	1577
VT49	1771	VT76	1076
VT50	2533	VT76	615
VT50	1050	VT77	616
VT51	1051	VT78	1656
VT51	1617	VT78	2544
VT52	1052	VT79	1079
VT52	1025	VT79A	1657
VT52	596	VT80	1080
VT53	1604	VT80	617
VT54	1618	VT80A	1658
VT54	1751	VT81	1081
VT55	2676	VT81	1659
VT56	1648	VT82	1660
VT56	611	VT83	618
VT57	25	VT84	619
VT57	612	VT85	1661
VT58	1058	VT86	1662
VT58	1619	VT86	1942
VT58	613	VT86A	1941
VT58A	1571	VT86B	1943
VT59	1620	VT87	1663
VT60	1060	VT87	1951
VT60	1605	VT87A	1950
VT60A	1572	VT88	1088
VT61	1061	VT88	1664
VT61	1609	VT88	1963
VT61A	1573	VT88A	1962

Type No.	C.V. No.	Type No.	C.V. No.
VT88B	1964	VT110	1678
VT89	1089	VT111	1679
VT89	1665	VT111	836
VT89	833	VT112	1680
VT90	1090	VT112	660
VT90	1732	VT113	1681
VT90	1930	VT114	1114
VT90A	1931	VT114	1682
VT91	1038	VT114	1846
VT91	1936	VT114A	1583
VT91A	1937	VT115	1683
VT92	1735	VT115	1948
VT92	588	VT115A	1947
VT92A	587	VT116	1684
VT93	1093	VT116	591
VT93	1666	VT116A	1685
VT93	1894	VT116A	592
VT93A	1893	VT116B	866
VT94	1094	VT117	1981
VT94	1667	VT117A	1982
VT94	1933	VT118	1088
VT94A	1932	VT118A	1686
VT94D	1934	VT118B	1687
VT95	1668	VT119	1169
VT95	1831	VT119	597
VT96	1096	VT120	1688
VT96	1957	VT120	1095
VT97	1849	VT121	1059
VT98	1098	VT121A	1288
VT98	1669	VT122	244
VT98	504	VT123	2715
VT98A	1580	VT124	756
VT99	1917	VT125	1689
VT100	1670	VT125	1805
VT100	124	VT126	1690
VT100B	1670	VT126	573
VT101	637	VT126A	572
VT102	1671	VT126B	574
VT103	1990	VT127	1127
VT103V	1672	VT127	1187
VT104	1104	VT127A	1691
VT104	1040	VT128	1692
VT104	546	VT128	2715
VT105	1105	VT130	1621
VT105	1673	VT131	1168
VT105	1969	VT131	543
VT106	1674	VT132	1694
VT106	623	VT133	1695
VT107	1675	VT133	700
VT107	510	VT134	525
VT107A	511	VT135	535
VT107B	509	VT135A	554
VT108	1676	VT136	1118
VT109	1677		
VT109	1798		

COMMERCIAL TO C.V.

VT136—VT198

Type No.	C.V. No.	Type No.	C.V. No.
VT136	659	VT167	1716
VT137	1081	VT167	1945
VT137	1755	VT167A	1944
VT138	1623	VT168	1626
VT138	1756	VT168A	515
VT139	399	VT169	1717
VT139	216	VT169	531
VT140	1166	VT170	1718
VT140	662	VT170	766
VT142	1039	VT171	1719
VT143	1696	VT171	782
VT143	625	VT172	784
VT144	1371	VT173	785
VT144	26	VT174	820
VT145	243	VT175	655
VT145	1861	VT176	1873
VT146	1625	VT177	1720
VT146	1823	VT177	780
VT147	1697	VT178	1721
VT147	1802	VT178	778
VT148	1698	VT179	1722
VT148	1811	VT179	781
VT149	1349	VT180	1053
VT150	1699	VT181	1052
VT150	1966	VT181	1790
VT150A	1700	VT182	1723
VT150A	1967	VT182	811
VT151	1701	VT183	1724
VT151	578	VT183	2709
VT151B	580	VT184	3799
VT152	1702	VT185	245
VT152	1940	VT185	815
VT152A	1938	VT186	1726
VT153	1703	VT187	1627
VT153	837	VT188	1727
VT154	1067	VT188	891
VT154	629	VT189	1128
VT155	1704	VT189	893
VT156	1705	VT190	1728
VT157	1706	VT190	895
VT158	1707	VT191	1628
VT158	997	VT191	683
VT159	1708	VT192	1770
VT160	1709	VT193	1100
VT161	1710	VT193	1777
VT161	537	VT194	587
VT162	1711	VT194	897
VT162	697	VT195	1863
VT163	1712	VT195	2874
VT163	1896	VT196	509
VT164	1713	VT196	574
VT164	723	VT197	1629
VT165	1714	VT197A	1856
VT166	1715	VT198	1075

Type No.	C.V. No.	Type No.	C.V. No.
VT198A	1926	VT246	2692
VT199	124	VT247	1882
VT199	1993	VT250	1091
VT200	1065	VT254	2611
VT200	686	VT255	3587
VT201	1056		1807
VT201	552		1808
VT201C	553	VT257	
VT202	1054		1809
VT202	664		1810
VT203	9	VT259	2666
VT203	665	VT260	3798
VT204	18	VT264	818
VT204	789	VT266	656
VT205	1630	VT267	2967
VT205	1996	VT268	540
VT206	1120	VT269	3594
VT206A	729	VT277	2642
VT207	1091	VT286	788
VT207	529	VT287	2663
VT209	694	VT288	922
VT210	783	VT289	924
VT211	1978	VT501	1501
VT212	650	VT501A	1002
VT213A	862	VT506	1506
VT214	916	VT509	62
VT215	1906	VT510	1510
VT216	724	VT513	44
VT217	628	VU7A	1556
VT218	2552	VU29	1029
VT220	2589	VU33	1033
VT221	819	VU39	1039
VT222	647	VU39A	1569
VT223	1820	VU64	1064
VT224	18	VU71	1071
VT225	2612	VU72	1072
VT226	817	VU111	1111
VT227	510	VU113	1113
VT228	662	VU120	1120
VT229	1985	VU120A	1001
VT230	2629	VU133	1133
VT231	1988	VU133A	54
VT232	2920	VU134	1134
VT233	867	VU504	1504
VT234	3505	VU508	1508
VT235	3506	VW36	1036
VT236	636	VW42	1042
VT237	2700	VW48	1048
VT238	649	VXR130	3738
VT240	1090	VX32	495
VT241	2704	VX41	2730
VT243	2706	VX3085	2351
VT244	575	VX3136	2391
VT245	2565	VX3138	2341
		VX3159	4061

Type No.	C.V. No.	Type No.	C.V. No.
VX3171	2392	VX7098	4051
VX3176	2378	VX7099	4052
VX3177	2379	VX7100	4063
VX3185	2339	VX7102	4055
VX3191	4046	VX7104	2422
VX3192	4062	VX7108	2659
VX3197	2380	VX7111	4002
VX3193	2318	VX7112	4033
VX3208	4038	VX7113	4001
VX3220	2429	VX7114	4056
VX3221	2430	VX7115	4051
VX3222	2418	VX7116	4036
VX3241	2344	VX7119	4037
VX3242	2345	VX7120	4034
VX3232	4002	VX7121	4030
VX3233	4007	VX7124	4068
VX3234	4024	VX7126	4504
VX3235	4034	VX7127	4047
VX3263	2397	VX7128	4035
VX3518	2398	VX7129	4007
VX3521	4071	VX7130	4049
VX3522	4072	VX7131	4067
	2333	VX7503	4045
VX4130	2337	VX7507	4506
	2308	VX7512	4069
VX4142	2309	VX8079	4025
VX4143	1881	VX8081	4031
VX4144	2346	VX8082	4064
VX5028	2116	VX8083	4014
VX5029	2276	VX8084	2387
VX5038	5114	VX8086	2255
VX5052	2353	VX8092	2299
VX5057	2377	VX8097	4059
VX6094	4064	VX8098	4048
VX6107	2243	VX8099	4070
VX6108	2253	VX8100	4010
VX6109	4060	VX8101	4009
VX6114	2360	VX8117	2348
VX6117	4041	VX8121	4501
VX6119	4042	VX8122	4502
VX6120	4040	VX8123	4504
VX6127	2358	VX8136	4003
VX7039	4003	VX8137	4004
VX7058	4004	VX8138	4005
VX7059	4024	VX8140	4002
VX7060	4005	VX8144	4024
VX7061	4015	VX8148	4037
VX7075	4025	VX8149	4034
VX7076	4012	VX8155	4505
VX7078	4009	VX8157	483
VX7079	4039	VX8162	4024
VX7080	4006	VX8166	2382
VX7081	4043	VX8170	2371
VX7082	4014	VX8171	2361
VX7083			

Type No.	C.V. No.	Type No.	C.V. No.
VX8180	4050	V1042	275
VX8182	2420	V1043	401
VX8190	4066	V1047	961
VX8194	2411	V1052	441
VX8209C	2369	V1063P1	400
VX8222	2421	V1101	1361
VX8234	5082	V1105	3778
VX9002	2386	V1111	1127
VX9005	2350	V1120	72
VX9087	2376	V1120B	73
VX9164	2831	V1133	276
VX9132	4052	V1135B	345
VX9133	4053	V1135C	377
VX9151	2340	V1501	3581
VX9168	2321	V1505	1252
VX9175	2396	V1507A	1504
V20	764	V1901	1504
V30/30P	7011	V1904	1072
		V1906	20
		V1907	1111
V120	3762	V1913	1508
V123B	3763	V1920	121
V226	3765	V1922	74
V230A/1K	234	V1924	100
V230C/1D	230	V1928	261
V233A/1K	2190	V1939	371
V235A/1K	2221	V2024	125
V239C/1K	5048	V2030F	349
V240C/2K	2189	V2046A	486
V241C/1K	5049	V2053	403
V245	1367	WD30	3810
V246A/1K	228	WE3A	3812
V248A	1366	WE8A	3813
V257	1723	WE258B	2594
V312	3766	WE262B	1728
V339	3767	WE289A	1836
V428A	1366	WE295A	2986
V503	3768	WE300B	2609
V625	93	WE322A	623
V630	201	WE327A	926
V872	1116	WE331A	625
V877	3769	WE350D	621
V884	131	WE368A	710
V885	132	WE417A	3789
V887	136	WE705A	3587
V914	1170	WE710A	62
V944A	3797	WE729A	539
V995	3770	WE1378X	761
V970	3772	WL203A	2986
V1010	3773	WL417A	2642
V1020	3774	WL532	2647
V1021	3775	WL532A	2647
V1023	3776	WL535	2611
V1029	3777	WL538	62
V1040	987	WL578	2967

Type No.	C.V. No.	Type No.	C.V. No.
WL629	648	X23	1082
WL715B	2655	X24	3819
WL735	2680	X24 (Met.)	3820
WL806	2658	X31	3821
WL892R	904	X31 (Met.)	3822
WL2050	2565	X41	1460
WL5846	2859	X41 (Met.)	3823
W7/1D	2352	X42	3576
W7/2D	2188	X61M	281
W17	785	X63	3825
W21-4 pin	171	X64	1280
W21-7 pin	3804	X65	3826
W30K	3805	X66	1099
W31	3806	X79	5115
W63	1183	X661	2183
W77	131		2234
W727	454	X662	
XB1	2293		2256
XB2	1634	X727	453
XC11	2257	Y61	1103
XC15	5088	Y63	1103
XC17	5078	Y65	51
XC305/1	2414	Y220	1118
XD60	168	ZA1	1175
XD61	169	ZA2	1095
XE1	495	ZD17	784
XE2	2202	ZG532	2647
XFR1	2237	ZG547	372
XFR2	2254	ZP455	2789
XFR3	2239	ZP477	914
XFY14	2238	ZP527	855
XGR3	151	ZP579	3842
XG2-500	1144	ZP584	3843
XG5-500	2957	ZP590	3844
XH1.5V	3830	ZR11	7008
XH3-045	372	ZR12	7009
XH8-100	1787	ZR14	7020
XH16-200	2520	ZR20	7014
XL02.0V	1701	ZR21	7015
XL1.5V	1720	ZR22	7016
XL2.0V	3831	ZR24	7017
XN	14	ZS21	5098
XP1.5V	176	ZS22	5099
XP2.0V	1702	ZS10C	2384
XR1-1600	3706	ZS20B	5103
XR1-3200	2210	Z21	3836
XR1-6400	2215	Z21 (7 pin)	3837
XSG1.5V	175	Z22	1322
XSG2.0V	3833	Z62	3838
XW2.0V	1703	Z66	3839
X17	782	Z77	138
X21	3816	Z90	1091
X21 (Met.)	3817	Z239/1G	2187
X22	3818	Z319	2276

Type No.	C.V. No.	Type No.	C.V. No.
Z300T	1992	1F3	785
Z759	5060	1F4	767
Z800U	2236	1F5G	768
Z801U	2255	1F6	769
Z900T	5121	1F7GV	770
1AD4	2237	1G4GT	1817
1A3	573	1G4GT/G	1817
1A4P	754	1G5G	771
1A5G	755	1G6G	772
1A5GT	756	1G6GT	773
1A5GT/G	756	1G6GT/G	773
1A6	757	1H4G	774
1A7G	1800	1H5G	1818
1A7GT/G	1802	1H5GT	1820
1B3GT	1830	1H5GT/G	1820
1B4P	758	1LA6	775
1B5/25S	759	1LB4	776
1B7GT	760	1LC5	777
1B21A	3586	1LC6	778
1B22	761	1LD5	779
1B23	539	1LH4	780
1B24	725	1LN5	781
1B24A	3548	1LN5E	781
1B26	576	1L4	1758
1B27	713	1N5G	1821
1B32/532A	2648	1N5GT	1823
1B32	2648	1N5GT/G	1823
1B35	369	1N21	727
1B35A	3628	1N21B	367
1B36	577	1N21C	3525
1B38	3549	1N23	5012
1B40	2914	1N23A	749
1B41	3550	1N23B	2856
1B49	508	1N23BM	2857
1B56	3877	1N23C	5012
1B58	3745	1N23CR	5013
1B63A	2826	1N25	2916
1CP1	2302	1N26	1785
1C1	782	1N28	2918
1C5G	1803	1N31	3509
1C5GT	1805	1N32	5016
1C5GT/G	1805	1N34	2829
1C21	762	1N34A	3934
1D5	764	1N38	3551
1D5GP	705		2962
1D5GT	1806	1N38A	5064
1D7G	765		2919
1D8GT	1811	1N43	3729
1D13	753	1N47	5015
1E5GP	766	1N53	2961
1E5GT	766	1N54A	3967
1E7G	1812	1N63	2650
1FD9	784	1N66	3993
1F2	1758	1N67A	2923
		1N69	

COMMERCIAL TO C.V.

1N70—2V3

Type No.	C.V. No.	Type No.	C.V. No.
1N70	{ 2924	2C33	793
	{ 5063	2C34	18
1N72	2974	2C36	3965
1N78	5014	2C39	3940
1N81	2928	2C39A	2516
1N82	1632	2C40	2643
1N198	5076	2C42	2932
1N311	2154	2C43	688
1N311R	2155	2C46	2933
1N320	5026	2C51	2831
1N618	7047	2C51W	2866
1P5GT	728	2C53	3559
1P10	820	2DP1	1813
1P21	337	2D2	794
1P23	2680	2D4A	795
1P30	1764	2D13C(o)	796
1P31	3812	2D21	797
1P32	405	2D21W	2876
1Q5G	1824	2E22	798
1Q5GT	1826	2E26	3990
1Q5GT/G	1826	2E30	2517
1Q22	3555	2G	1842
1R4/1294	2709	2J21	2778
1R5	782	2J21A	719
1S4	783	2J22	800
1S5	784	2J26	1760
1S111	7045	2J30	3944
1S113	7013	2J31	1807
1S115	7046	2J32	1808
1T4	785	2J33	1809
1T5GT	1829	2J34	1810
1U4	2507	2J36	514
1U5	3912	2J42	3676
1V	1999	2J42A	3997
1V2	3994	2J48	1822
1X2A	5032	2J49	3687
1Z2	2510	2J50	2793
2AP1	790	2J51	3560
2AP1A	790	2J51A	3560
2A3	1831	2J54	801
2A5	1834	2J56	2852
2A6	1769	2J58	997
2A7	787	2K25	2792
2BP1	3678	2K28	1892
2B4	648	2K33	1786
2B7	1837	2K41	3904
2B21	597	2K45	3945
2B22	2931	2K48	3669
2B36	1078	2N115	7010
2C21	875	2S/140G	469
2C22	792	2S/141G	4504
2C26	802	2T/270K	261
2C26A	1759	2T/450E	3587
		2V3	803

Type No.	C.V. No.	Type No.	C.V. No.
2V3G	804	3B/100-B	1689
2V/400A	32	3B/102-B	84
2V/401C	1446	3B/151A	1648
2V/470C	1355	3B/200-B	1047
2V/471A	1449	3B/240M	2214
2V/500C	5	3B/241M	5116
2V/530E	1240	3B/252B	1688
2W/540E	1601	3B/351A	1448
2X2	3748	3B/400A	1452
2X2/897	3748	3B/401J	127
2X2A	597	3B/501A	49
2X/105G	448	3B/504B	1288
2X/106G	425	3B/850A	25
2Y2	597	3B/851A	1620
2-100A/100R	2967	3C22	999
2-150D	3878	3C24	789
2-150D/152RA	3878	3C31/C1B	1765
3A	3812	3C34	941
3ACP2	1537	3C45	372
3AE	3812	3C/250A(o)	1034
3AP1/906P1	602	3C/270A	1252
3AP1	602	3C/350E	30
	807	3C/351H	27
3A4	}	3DP1-	816
		2390	3DP1A
3A5	808	3D6/1299	815
3A/105-B	809	3D21A	2659
3A/107A	249	3D22	2851
3A/107B	1655	3D22A	2851
3A/108A	1653	3D/100A	1422
3A/108B	1657	3D/150G	2735
3A/109A	1671	3EG1	1526
3A/109B	1663	3EP1	817
3A/110B	1659	3EP1/1806P1	817
3A/135A	2598	3E29	3599
3A/141A	1639	3FP7	1761
3A/142/A	1641	3GP1	516
3A/144A	1694	3GRK	442
3A/145J	16	3H/151J	2516
3A/146J	53	3JP1	2935
3A/147J	82	3JP2	5004
3A/148J	88	3JP7	2869
3A/167M	5112	3JP11	5034
3BP1	814	3JP12	2816
3BP1A	2934	3J31	1788
3B4	2240	3J/160E	2245
3B7/1291	811	3J/170E	2905
3B21	2959	3J/195E	5071
3B22	3815	3J/260E	2908
3B24	812	3KP1	3733
3B24W	2858	3P/270B(o)	2950
3B24WA	4021	3Q4	818
3B26	3575	3Q5GT	819
3B28	1835	3Q5GT/G	819
3B29	3689		

Type No.	C.V. No.	Type No.	C.V. No.
3Q/120G	1605	4J30	3783
3Q/150E	1450	4J31	1914
3Q/180E	1603	4J33	1916
3Q/181E	1600	4J34	1897
3Q/191E	570	4J35	1898
3Q/195E	570	4J50	2284
3Q/211E	1604	4J52	3569
3Q/212E	1797(o)	4J52A	5018
3Q/213E	1734	4J53	513
3Q/260E	446	4J54	3947
3Q/293E	1447	4J55	3948
3RP1	3941	4J56	3949
3S4	820	4J57	3950
3V4	1633	4J58	3951
3V/390A	5027	4J59	3952
3V/390B	5028	4J78	3953
3V/420B	2126	4PR60A	3752
3V/530E	447	4SH	1126
3WP1	3946	4SHA	825
3-14	5033	4THA	826
4-65A	1905	4TPB (clear)	828
4/125A	2963	4TPB (Met.)	829
4/250A	2964	4TSP	830
4-400A	3879	4XP	1168
4-1000A	3880	4X150A	2519
4A1	821	4X150D	3991
4A/137B	243	4X150G	3893
4B22	2936	5ADP1	5035
4B24	822	5AP1	832
4B26	1836	5AP1/1805P1	832
4B28	2777	5A6	2360
4B30	934	5A/102A	3784
4B31	3510	5A/102D	1724
4B32	2518	5A/105A(o)	1726
4B35	926	5A/128B	244
4B36	2779	5A/136A	2619
4CSUA	1267	5A/136D	245
4C21	2576	5A/157D	358
4C22	2987	5A/159N	2000
4C27	92	5A/163K	1635
4C30	933	5A/164K	3536
4C35	1787	5A/172G	4501
4C/100A	2756	5A/173G	4502
4D1	1109	5A/174G	4503
4D21	2963	5A/175G	4506
4D32	3543	5BP1/1802P1	601
4EP7	5087	5BP1	601
4E27	824	5BP4/1802P4	836
4G/280K	797	5B1	1018
4H/135M	2519	5B/100A	1369
4J26	3779	5B/151A	1080
4J27	3780	5B/250A	124
4J28	3781		428
4J29	3782	5B/251M	2465

Type No.	C.V. No.	Type No.	C.V. No.
5B/252M	391	5X4	1852
5B/253M	499	5X4G	1851
5B/254M	428	5Y3G	1854
5B/255M	391	5Y3GT	1856
5B/256M	499	5Y3WGTA	4027
5B/257M	2220	5Y3GT/G	1856
5B/258M	2347	5Y4G	1857
5B/300B	834	5Z094	162
5B/502A	1096	5Z3	1861
5B/600A	1081	5Z4	1864
5B/700A	631	5Z4G	1863
5C22	2520	5Z4GT	2748
5C/100A	26	6AB5	843
5C/101A	1372	6AB5/6N5	843
5C/450A	1506	6AB7	1873
5CP1	600	6AB7/1853	1873
5CP1A	2191	6AC5G	844
5CP7	838	6AC5GT	845
5CP7A	3954	6AC7	660
5CP12	3955	6AC7/1852	660
5D21	2814	6AC7W	3924
5D22	2964	LAC7Y	3973
5D/100A	1627	6AD7G	1878
5FP7 (Spec.)	1789	6AF4	5036
5FP7	718	6AF4A	5074
5FP7A	3959	6AF6G	847
5FP11	5070	6AG5	848
5FP14	1789	6AG6G	1438
5GP1	839	6AG7	1882
5HP1	3583		3882
5HP1A	3583	6AG7Y	3978
5H4	840		2521
5JP2A	3918	6AH6	849
5JP1	1791	6AJ7/6AC7	995
5J23	542	6AJ6	849
5J26	3602	6AJ7	2128
5J29	3842	6AJ8	850
5J30	3843	6AK5	2877
5J32	1538	6AK5W	1762
5J/180E	445	6AK6	1784
5LP1	741	6AK7	283
5L/444	311	6AL5	283
5MP1	740	6AL5	283
5R4GY	717	6AL5W	2882
5R4GWY	2835	6AL7GT	3707
5T01A	1868	6AM4	5073
5T4	1846	6AM5	136
5UP7	2840	6AM6	138
5U4G	575	6AN4	3989
5U4GT	841	6AN5	2854
5V4G	729	6AQ4	4070
5W4	1849	6AQ5	1862
5W4G	842	6AQ5W	2883
5W4GT	503	6AQ6	2937
		6AR6	3613

Type No.	C.V. No.	Type No.	C.V. No.
6AS6	2522	6C5	582
6AS6W	2884	6C5G	581
6AS7G	2523	6C5GT	583
6AT6	452	6C5GT/G	583
6AU6	2524		585
6AU6WA	4023	6C6	1710
6AU7	5052		
6AV6	2526	6C7	854
6A3	730	6C8G	1896
6A6	1867	6C21	855
6A7	1870	6DA5	5055
6A8	579	6D2	140
6A8G	578	6D4	1949
6A8GT	580	6D6	1900
6BA6	454	6D7	1776
6BA6W	5037	6D8G	1902
6BA7	2527	6E5	1906
6BC4	5038	6F1	3841
6BE6	453	6F4	2939
6BF7	3894	6F5	1909
6BH6	3908	6F5G	1908
6BJ6	3909	6F5GT	1910
6BL6	3614	6F6	1912
6BL7	5039	6F6G	1911
6BM6	3615	6F6GT	731
	3615	6F6GT/G	731
6BM6A			6F7
	3939	6F8	1918
6BN6	3616	6F8G	1917
6BQ6G	5040	6F11	1901
6BR7	2135	6F12	138
6BS7	5086	6F13	1839
6BT4	3891	6F14	1919
6BW6	2136	6F17	416
6B4G	851	6F32	1116
6B5	1885	6F33	329
6B6G	1887	6G6G	1926
6B7	1891	6G8G	856
6B8	1894	6H6	1930
6B8G	1893	6H6G	1929
6CA4	5072	6H6GT	1931
6CB6	3995	6H6GT/G	1931
	2127	6J4	1763
6CH6	4055	6J4WA	5029
	4056	6J5	1933
6CK6	2726	6J5G	1932
6CJ6	2721	6J5GT	1934
6CK6	2726	6J5GT/G	1934
6CL6	5041	6J6	858
6CQ6	131	6J6W	2843
6CW5	5094	6J7	1936
6C4	133	6J7G	1935
6C4W	2842	6J7GT	1937
6C4WA	4058	6J8G	859

Type No.	C.V. No.	Type No.	C.V. No.
6K4	2855	6SF5	1972
6K5G	860	6SF5GT	1973
6K5GT	861	6SG7	1978
6K5GT/G	861	6SH7	594
6K6G	1938	6SH7GT	595
6K6GT	1940	6SH7L	5067
6K6GT/G	1940	6SJ7	591
6K7	1942	6SJ7G	590
6K7G	1941	6SJ7GT	592
6K7GT	1943	6SJ7WGT	3619
6K8	1945		591
6K8G	1944	6SJ7Y	866
6K8GT	1946		
6K25	2217	6SK7	1981
6LD3	3882	6SK7GT	1982
6LD20	1920	6SK7GT/G	1982
6L5G	862	6SL7WGT	3985
6L6	1948	6SL7GT	1985
6L6G	1947	6SN7GT	1988
6L6GA	2817	6SN7WGT	3627
6L6WGA	3618	6SQ7	1990
6L6WGB	2796	6SQ7GT	1991
6L7	1951	6SQ7GT/G	1991
6L7G	1950	6SR7	867
6L18	1899	6SS7	1993
6L19	1850	6ST7	1996
6L34	417	6ST7G	1995
6N5	843	6S7	1975
6N6	1954	6S7G	1974
6N6G	1953	6T4	3808
6N7	1957	6T7G	500
6N7G	1956	6U5/6G5	504
6N7GT	1958	6U5G	2747
6P5GT/G	1819	6U7G	706
6P7G	864	6U8	5065
6P25	1853	6V3A	5021
6Q4	1886	6V6	510
6Q5G	1815	6V6G	509
6Q7	588	6V6GT	511
6Q7G	587	6V6GT/G	511
6Q7GT	589	6V7G	870
6R4	1865	6W7G	512
6R6G	1960	6X2	426
6R7	1963	6X4	493
6R7G	1962	6X4W	2844
6R7GT	1964	6X5	573
6R7GT/G	1964	6X5G	572
6SA7	1966	6X5GT	574
6SA7GT	1967	6X5GT/G	574
6SA7GT/G	1967	6X5WGT	3734
6SA7Y	3974	6Y3G	1816
6SC7	1969	6Y6G	515
6SC7GT	1970	6ZY5G	873
6SD7GT	865	6Z4	619
		6Z5	871

Type No.	C.V. No.	Type No.	C.V. No.
6Z7G	872	8A3	3813
7	874	8D2	1108
7A	823	8D3	138
7A2	1174	8D5	2135
7A3	1181	9-3	368
7A4	1170	9A1	1172
7A6	876	9D2	1106
7A7	877	9D5	1053
7A7LM	877	9D6	131
7A8	878	9HP7	905
7B	824	9JP1	1783
7BP7	884	9L01A	464
7BP7A	3637	9LP7	2789
7B4	879	9MD6	262
7B5	880	9M06A	2108
7B5E	880	9MW5AX	2192
7B5LT	881	9PK5	109
7B6	882	10	603
7B6LM	882	10 (special)	906
7B7	522	10D1	1300
7B8	883	10KP7	3693
7B8LM	883	10Y	603
7C4/1203A	2706	11A2	2813
7C5	885	11D3	1419
7C5LT	886	11E2	276
7C6	887	11E3	73
7C7	1777	12A/112A	1774
7D5	1425	12AEP26	429
7D6	1672	12AH7GT	529
7D8	889	12AT7	455
7D8S	1328	12AT7WA	4024
7D9	136	12AU6	1961
7D10	2127	12AU7	491
7E5	2704	12AU7WA	4002
7E5/1201	2704	12AX7	492
7E6	891	12AY7	3650
7E7	892	12A5	908
7F7	893	12A6	525
7F8	2968	12A6GT	526
7G7	894	12A7	909
7G7/1232	894	12A8GT	910
7H7	895	12A8GT/G	910
7J7	897	12BA6	1928
7K7	896	12BH7	5042
7MB1A	1880	12B8GT	911
7N7	898	12C8	531
7Q7	899	12C8 (special)	837
7R7	900	12C8GT	3827
7UP7	3639	12DP7	913
7W7	902	12DP8	914
7Y4	901	12E1	345
7YP2	5061	12FP7	915
7Z4	1790	12H6	916
8A1	1282	12J5	534

Type No.	C.V. No.	Type No.	C.V. No.
12J5GT	535	15D1	2956
12J7GT	917	15D2	1107
12J7GT/G	917	15E	933
12K7GT	918	15L01A	1744
12K7GT/G	918	15R	934
12K8	703	19E2	265
12K8GT	3927	19G3	277
12L01A	2162		371
12SA7	537	19G6	
12SA7GT	538		4057
12SC7	540	19H1	121
12SC7GT	3938	19H4	2180
12SF5	919	19H5	490
12SF5GT	920	20A1	1424
12SF7	921	20A2	1848
12SF7GT	170	20A3	797
12SG7	694	20CV	5120
12SH7	922		954
12SH7GT	3651	20K	
12SJ7	697		1379
12SJ7GT	698	21/2	3584
12SK7	543	22/11BXA	439
12SK7GT	544	22S/200A	1451
12SK7GT/G	544		1588
12SL7GT	924	23D	
12SN7GT	925		1382
12SQ7	546	24A	936
12SQ7GT	547	24B1	6008
12SQ7GT/G	547	24B2	339
12SP7	3655	25AC5GT/G	938
12SR7	700	25A6	549
12SR7GT	3980	25A6GT	550
12SW7	3666	25A6GT/G	550
12SW7GT	3983	25B6G	939
12SX7GT	3697	25A7GT/G	937
12SY7	3668	25B8GT	940
12T01A	1869	25L6	552
12T03A	2328	25L6G	551
12Y4	523	25L6GT	553
12Z3	927	25L6GT/G	553
13D1	423	25SN7GT	423
13D3	2212	25T	941
13E1	2377	25TG	789
13SPA	929	25Y5	942
13VPA	1106	25Z5	555
14A7	3935	25Z6	558
14F7	930	25Z6GT	559
14L	1087	25Z6GT/G	559
14R7	3937	26	943
14S7	3936	26A7GT	3577
15	931	26D	2727
15A	986	26J	2786
15A2	3576	26Z5W	5030
15B	326	27	944
		27M1	337
		27M2	5085
		28D7	945

Type No.	C.V. No.	Type No.	C.V. No.
28D7GT/G	946	41MH	2503
29C1	430	41MHF	1037
29D	2728	41MHL	2504
30	604	41MLF	1038
30 Twin	1780	41MP	1458
30B1P3	5084	41MPG	2505
30C8	987	41MPT	2506
30C12P1	1746	41MTL	1117
	254	41MXP	1122
30D5	1860	41STH	2508
	2216	42	609
30E8P1	1140	42E	609
30HM/HD	947	42MP/PEN	1181
31	711	42MPT	1325
32	711	420T	2511
32	951	420TDD	2512
32A	957	42SPT	1444
	711	43	2514
32E	953	43E	2514
32G	958	431U	1039
32J	948	44A/160M	415
32L7GT	949	441U	1039
33	1750	45	610
33A/100A	18	45DS	2528
33A/138A	1884	451U	2529
33A/158M	1540	45SP	596
33B/152M	1751	45Z5GT	2530
34	1751	46	2531
34E	1752	47	1772
35	1753	49	2532
35A5LT	561	50	2533
35L6	562	50C5	1959
35L6GT	562	50L6G	2534
35L6GT/G	668	50L6GT	571
35T	1754	50Y6GT	805
35TG	564	50Y6GT/G	805
35Z3	565	51	487
35Z3GT	726	52CG	2896
35Z3LT	2500	52KU	1863
35Z4GT	567	53	2535
35Z5	568	53A	2536
35Z5GT	568	53KU	378
35Z5GT/G	1752	54KU	729
35/51	1775	54NCP11	2885
36	606	55	2537
37	712	55CG	405
38	712	56	611
38A	1771	57	612
39/44	2501	58	613
40	1267	59	2538
40SUA	2530	59A3	2692
40Z5	2530	59A4	2692
40Z5GT	608	61BT	1979
41	1131	61P	2539
41DS	2502		
41FP			

Type No.	C.V. No.	Type No.	C.V. No.
61SPT	5081	112A	1774
62BT	1745	114A	3505
63D	2540	114B	3505
63DS	2731	116Pen	1337
63SPT	1091	117L7GT	2556
64SU	135	117N7GT	2557
70B1	470	117Z6GT	2558
71A	2541	117Z6GT/G	2558
71A3	1764	121A	2560
72	709	122A	2561
72R	709	129B	2950
73	2543	143D	597
73R	2543	150B2	2225
75	614	150B3	287
75B1	284	150C2	1832
75C1	4080	150C3	216
76	615	152RA	3878
77	616	154V	1037
78	2544	161	708
78DS	1328	164V	2562
79	2545	185BT	1980
80	617	200	2988
81	2546	202	1200
82	1773	203B	2986
83	618	204A	2563
83V	2547	205D	1749
84	2548	205E	2566
84/6Z4	619	205F	2567
85	2549	210DDT	1044
85A1	431	210DET(o)	2569
85A2	449	210HF	2570
85A3	3933	210HL	2571
	3960	210LF	1021
88D	2185	210PG	1043
89	833	210RC	2977
89D	2193	210SPT	1049
89J	2750	210VPA	2574
89L	3971	210VPT	1083
89Y	833	211	620
90A/G	2270	211 (special)	2576
90A/V	2132	212E	2577
90C/G	2133	212-G11A	5050
90C/V	2134	215P	1019
90EG4	1587	215SG	1018
95A1	286	218	2579
100B1	1199	220B	1032
100R	2967	220C	2580
100TH	2552	220HPT	1118
101D	1778	2201PT	1333
101F	2553	220LF	1313
102D	1779	220LPT	1195
104V	1161	220/OT	1118
108C1	1833	220P	1020
111A	2554		

Type No.	C.V. No.	Type No.	C.V. No.
220PA	1022	328A	2619
220PT	1051	329A	2620
220RC	1312	330B	2621
220SG	1018	331A	2622
220TH	1082	332A	2623
220VS	2582	332Pen	1401
220VSG	1028	337A	2624
225DU	1454	338A	2625
228A	734	340A	1782
230XP	1023	346A	2626
231D	2584	349A	2627
239	1771	349B	2628
240B	2586	350A	2629
240QP	1035	350B	1799
242C	2587	350D	621
244A	2588	351A	2630
244V	1038	352A	2631
250TH	2589	354	3964
256B	2592	354A	2632
257A	2593	354V	1173
258B	2594	357A	691
259A	2595	362A	2633
262A	2597	367	2634
262B	2597	368A	710
264A	2598	371B	3511
264C	2599	375A	2636
267B	2600	388A	2637
270A	30	393A	2638
271A	2601	394A	2639
272A	2602	401CAHA	389
274A	2603	402Pen	1672
274B	684	405BU	2640
275A	2604	408CAHA	2211
279A	669	410LF	1152
282A	2605	410PT	1167
293A	3829	415XP	CV1154
300A	2608	417A	2642
300B	2609	420XP	1040
303	2610	425XP	1655
303A	2986	428T	812
304	1202	442BU	1796
304TH	2611	446	3725
304TL	3580	446A	932
307A	2612	446B	687
310A	2613	450TH	2572
310B	1781	450TL	5017
311A	2614	460BU	2644
313C	2615	464A	688
314A	2616	471A	3586
316A	683	484V	1678
322A	623	506BU	2645
323A	2617	522	999
327A	926	532	2647
327A	2618	532A	2648

Type No.	C.V. No.	Type No.	C.V. No.
559	3963	805	625
576	3749	806	2658
577	3969	807	124
578	2967	807W	3809
601C	5001	808	626
610XP	1154	809	2660
615	3506	810	627
622C	5075	811	628
625P	1208	811A	5043
631P1	220	812	2661
645	670	813	26
648P1	746	814	629
653B	666	815	2663
700A	689	816	724
700B	695	822	2664
700C	696	825	2665
700D	699	826	630
701A	677	828	631
702A	678	829	2666
703A	679	829A	3599
705A	3587	829B	2666
706A	3588	830B	702
707A	3589	832	1088
707B	1768	832A	788
708A	3590	833	635
709A	2652	833A	635
710A	62	836	636
713A	3593	837	637
714AY	2653	838	638
715A	2654	841	906
715B	2655	843	639
715C	598	845	735
717A	3594	845W	3646
719A	3956	846	2668
720C	3907	849	2669
721A	3595	849H	2670
722A	3596	851	2671
723A	720	852	2672
723A/B	1795	857B	2673
724A	2656	859	2779
724B	1793	860	640
725A	722	861	641
726A	676	863	2674
726B	3597	864	2675
726C	3644	865	2676
729A	539	866	32
731A	850	866A	32
732A	812	866JR	2679
800	2657	868	2680
801	621	868/PJ23	2680
801A	621	869B	2723
801A/801	621	872	642
802	622	872A	642
803	623	874	643
804	624		

Type No.	C.V. No.	Type No.	C.V. No.
875A	644	1601ABC	440
876	645	1603	652
878	2683	1608ABA	1536
878A	2683	1609	2712
879	597	1610	2713
880	2685	1611	653
884	647	1612	554
885	648	1613	655
889	2686	1614	2714
889R	2687	1616	656
889RA	2687	1619	723
891R	2688	1620	657
892R	904	1622	658
893R	2689	1625	659
902	3600	1626	1755
904V	2690	1629	1756
905	736	1630	2715
906	737	1637	1052
906P1	602	1642	875
913	2691	1655	2716
918	2692	1729	2717
927	405	1754	3518
929	2693	1805P1	832
930	2694	1806P1	817
930B	702	1809P1	1783
931	2695	1813P7	884
931A	2696	1814P1	790
935	2697	1821	1443
953	738	1851	599
954	1095	1852	660
955	1059	1852/6AC7	660
956	649	1853	1873
957	2700	1853/6AB7	1873
958	650	1861	1039
958A	2701	1876	2718
959	1794	1907	3521
972	642	1909A	2291
991	651	1924	2719
1005	2874	1960	1792
1043	1097	2000T	998
1201	2704	2050	2565
1201A	2704	2051	1798
1203	2705	2501A3	602
1229	711	2505A5	740
1231	2707	2511A5	741
1258	3957	2529A5	1791
1267	1992	3025	2722
1282	902	3071	2723
1294	2709	3209	2725
1299	815	3220K	954
1378X	761	3226D	2727
1500T	2711	3226J	2786
1547	3789	3229D	2728
1561	1064	3263DS	2731

Type No.	C.V. No.	Type No.	C.V. No.
3530	405	4096AB	2751
3951	2733	4100BU	1264
3982	2680	4101	1588
4003A	2734	4101D	2845
4004B	2329	4101E	1639
4006A	1600	4102D	1640
4008B	1601	4102E	1641
4011A	1415	4104D	1694
4012A	1445	4120AA	536
4013C	1605	4201	1097
4014A	1603	4203	1587
4015A	2735	4205E	1648
4017B	1446	4212D	1619
4018G	1733	4212E	1619
4019A	249	4212E	1252
4019B	1655	4222B	1601
4020A	1653	4228A	1450
4020B	1657	4242A	25
4021A	1671	4251AX	2755
4021B	1663	4260A	2756
4022AR	1664	4264A	2598
4022B	1659	4270A	30
4030A	1447	4274A	1451
4030C	1447	4279A	1250
4033A	1220	4282BZ	1365
4033AF	2743	4300A	1452
4033L	1688	4304	2759
4043C	1448	4304B	2760
4045A	243	4304BB	2761
4046A	244	4304CB	1288
4047B	1600	4307A	1080
4049C	1355	4307AF	1080
4049D	5	4313C	75
4050AG	2745	4316A	683
4052A	1081	4317	1201
4053	950	4328A	2619
4053A	967	4328D	245
4056A	1025	4357A	27
4059A	1611	4378	1453
4060A	1030	4407	1084
4061A	1369	4409	955
4062A	1568	4410	1087
4064A	2746	4502	1086
4064B	1449	4602	956
4066A	1181	4605	1085
4069A	1372	4606	2764
4074A	18	4607	960
4074B	1573	4608	1511
4077A	33	4671	1059
4078A	1420	4672	1095
4078GA	447	4673	2765
4081	2749	4687	2766
4081A	1797	4690	2767
4094A	1620	4701A	677

Type No.	C.V. No.	Type No.	C.V. No.
4702A	678	5702	3895
4703A	679	5702WA	5057
4705A	3587	5703	3917
4706A	3588	5704	2847
4707A	3589	5718	3930
4708A	3590	5719	4008
4713A	3593	5721	3970
4717A	3594	5725	4011
4721A	3595	5725/6AS6W	4011
4722A	3596	5726	4007
4726A	676	5726/6AL5W	4007
5215A	1081	5727	4018
5517	3609	5727/2D21W	4018
5517/CK1013	3609	5744/WA	163
5544	2210	5749	4009
5545	2215	5749/6BA6W	4009
5556	3640	5750	6012
5557	2957	5750/6BE6W	4012
5586	3611	5751	4017
5626	298	5751WA	4017
5628	2952	5755	3755
5636	3928	5755/420A	3755
5639	2662	5763	2129
5641	473	5783	3933
5642	2241	5783WA	3960
	474	5784	3896
5643		5784WA	5058
	5079	5787	3897
	3987	5787WA	5113
5644		5796	3706
	5010	5799	2678
5647	3916	5800	2730
5651	2573	5814	4016
5654	4010	5814A	4016
5654/6AK5W	4010	5814WA	4032
5656	2970	5823	5121
5657	3958	5829	3898
5663	3610	5829WA	5059
5664	1765	5836	5044
5667	2687	5837	5045
5670	4013	5840	3929
5670WA	4013	5841	5062
5672	2238	5842	3789
5675	2971	5844	5046
5676	2239	5846	2859
5678	2254	5847	3905
5684	2753	5852	3943
5684/C3J/A	2753	5861	273
5685	2754	5876	2972
5685/C6J	2754	5881	2796
5686	3612	5886	495
5687	2578	5894	424
5691	3705	5894A	2797
5692	3942		
5693	3699		
5696	3512		

Type No.	C.V. No.	Type No.	COMMERCIAL TO C.V. C.V. No.
5896	2698	6131	3632
	{ 475	6135	4022
5899	{ 477	6136	2990
	{ 4029	6146	3523
5902	4029	6155	2130
5906	3931	6155/4-125A	2130
5924	3926	6156	2131
5932	3899	6156/4-250A	2131
5933	3517	6161	3901
5939	3545	6187	4011
5948/1754	3518	6189	4002
5948	3518	6201	3508
5949/1907	3521	6203	5009
5949	3521	6236	3975
5963	3900	6260B	5114
5977	3932	6390	5054
6002	3902	6410	3903
6005	4019	6442	3988
6005/6AQ5W	4019	6443	4044
	{ 3986	6516	4063
6021	{ 5006	6538	2236
	{ 3539	6539	2255
6024	3539	6870	5121
6038	3628	7193	3601
6057	4004	7475	1070
	{ 4007	8001	824
6058	{ 4025	8003	2768
	{ 4006	8011	62
6059	4024	8012	622
6060	4005	8013A	716
6063	4014	8016	541
6064	4015	8020	2967
6065	4003	8021	3587
6067	2903	8022	934
6073	4028	8023	933
6074	3522	8025	663
6079	2984	8025A	3915
6080	5068	8026	92
6080WA	2699	9001	1757
6088	{ 3972	9002	664
	{ 4019	9003	665
6095	4010	9004	666
	{ 4007	9005	667
6096	2316	9006	2769
6097	2317	13077	2770
6097B	5053	23043	2772
6097C	4058	25110	2428
6098CT	4031	68503 (mod.)	2773
6100	4031	68504	2774
6101	2992	68506	2775
6101/6J6WA	5005	68510	2776
6106	3961	68530/U600	3756
6110	5007	189048	2777
6111	3906	859483	2779
6112	3629		
6117	3629		
6130	3629		
6130/3C45	3629		

BRITISH ARMY VALVES WITH COMMERCIAL EQUIVALENTS

AD1	DLS10	ARP19	SP41
AR4	HL210	ARP20	SP42
AR5	LP2	ARP21	Z62
AR6	LP2	ARP22	116/Pen
AR7	4D1	ARP23	HP4101
AR8	HL23DD	ARP24	220VPT
AR9	L21	ARP25	KT41
AR10	TDD2A	ARP26	KT44
AR11	4019B	ARP33	MSP4
AR12	4020A	ARP34	EF39
AR13	4022AR	ARP35	EF50
AR14	220RC	ARP36	SP61
AR15	220LF	ARP37	QP25
AR16	220B	ARP38	KTZ73
AR17	MH4	ARS6	S625
AR20	4021B	ARS7	VS24
AR21	EBC33	ARS8	PM12V
ARD2	D1	ARTH2	ECH35
ARD4	D42	ARTP1	TP22
ARDD1	10D1	ARTP2	TP25
ARDD3	6H6	AT20	MZ05-20
ARDD5	EB34	AT35	DET25
ARH1	X64	AT37	ACT6
ARP1	KT2	ATP10	4061A
ARP2	SP2	ATP35	PV1-35
ARP3	9D2	ATP75	PT6
ARP4	SP210	ATP100	4069A
ARP5	VP2	ATS25	807
ARP6	SP4	ATS25A	807
ARP7	42MPT	ATS70	4282B
ARP8	AC4/Pen	AU1	U18
ARP9	Pen1340	AU3	U12-14
ARP9a	7D8	AU3A	MU14
ARP10	PenA4	AU4	U17
ARP11	TSP4	AU6	GU5
ARP12	VP23	AU8	U22
ARP13	VP21	AW2	7475
ARP14	220PT	AW3	S130
ARP15	KTW63	AW4	STV280/40
ARP16	6J7	AW5	ME41
ARP17	6F6	AW6	EM31
ARP18	KT24		

ROYAL NAVY VALVES WITH COMMERCIAL EQUIVALENTS

NGT1	DPQ	NR18	DEQ
NGT2	GT1C	NR22	PM14
NGT4	GT1A	NR23	PM14
NR15	PM3	NR26	MHL4
NR15A	PM4DX	NR27	ML4
NR16	PM254	NR27A	ML4
NR16A	PM4DX	NR28	PM2

ROYAL NAVY VALVES WITH COMMERCIAL EQUIVS. (Contd.)

NR31	MH4	NR79	Z62
NR35	PD220A	NR81	6K7
NR37	AC/SG	NR82	X65
NR38	VMS4	NR83	6J7
NR39	KT2	NR84	X41
NR41	210VPT	NR85	6F6
NR42	LP2	NR86	KTW63
NR43	PM24A	NR87	AC5/PenDD
NR44	AC044	NR88	RL18
NR45	VMP4G	NR94	AC/P4
NR46	D41	NR95	KT32
NR47	PX25	NS1	STV280/80
NR48	EBC33	NS3	202
NR49	EF36	NS4	4713
NR50	AT4	NS5	304
NR53	KT42	NT18	DO60
NR54	AP4	NT20	PM256
NR55	4D1	NT36	DA100
NR56	DO30	NT37	4033A
NR57	ML4	NT38A	PZ1-75
NR58	244V	NT39	ACT6
NR59	KT41	NT40	DET5
NR60	H42	NT58	DET12
NR61	W42	NT62	PM24D
NR66	D41	NT65A	PZ1-35
NR67	X64	NT82	PM202
NR68	6O7	NU3	U12/14
NR69	EM35	NU5	RX3-12C
NR70	HP4101	NU12	U18
NR71	MS/Pen	NU13	U15
NR72	N43	NU16	GU5
NR73	ECC31	NU17	MU14
NR74	AC6/Pen	NU18	U17
NR75	2xAC/P4	NU20	5Y3
NR76	KTZ41	NU31	MU2
NR77	EL35	NU33	SU2150A
NR78	6C5	NU34	HVR2

ROYAL AIR FORCE VALVES WITH COMMERCIAL EQUIVALENTS

VG121	T41	VR38	MHL4
VG128	GT1C	VR40	PX25
VI77	EM31	VR41	PM12M
VI103	EM35	VR43	210PG
VR18	215SG	VR44	210DDT
VR19	PM2	VR45	X56
VR21	210LF	VR46	PT25H
VR22	220PA	VR47	TZ05-20
VR27	210LF	VR49	210SPT
VR28	220VSG	VR53	EF39
VR32	220B	VR54	EB34
VR35	QP21	VR55	EBC33
VR37	MH4	VR56	EF36

ROYAL AIR FORCE VALVES WITH COMMERCIAL EQUIVS. (Contd.)

VR57	EK32	VR503	KT33C
VR59	955	VR505	MH41
VR65	SP61	VS68	STV280/40
VR65A	SP41	VS69	STV280/80
VR66	P61	VS70	7475
VR67	6J5	VT20	220P
VR78	D1	VT23	230XP
VR82	220TH	VT25	DET25
VR83	210VPT	VT45	X56
VR91	EF50	VT50	HL2K
VR91A	EF50	VT51	Pen220A
VR92	EA50	VT52	EL32
VR95	954	VT60	807
VR95A	954	VT60A	807
VR99	X66	VT61	RK34
VR100	KTW62	VT61A	4074B
VR101	MHLD6	VT62	TY1-50
VR102	BL63	VT73	H63
VR105	ML6	VT74	6J7
VR106	9D2	VT75	KT66
VR107	15D2	VT76	DA41
VR108	8D2	VT79	KT8
VR109	4D1	VT80	4307A
VR117	41MTL	VT81	4052A
VR118	KT2	VT88	832
VR119	DDL4	VT96	5B/502A
VR122	41MXP	VT104	PT15
VR123	EF8	VT127	Pen46
VR124	HP4101	VU29	ESU150
VR125	MS/PenB	VU39	MU14
VR126	4SH	VU39A	R3
VR129	MS/Pen	VU64	U12/14
VR130	HL23	VU71	5U4
VR136	EF54	VU72	GU5
VR137	EC52	VU113	U17
VR502	KT32	VU120	SU2150A
		VU134	HVR2

WAR-TIME CIVILIAN VALVES WITH COMMERCIAL EQUIVALENTS

BVA211	IW4-350	BVA264	EL33
BVA214	and	BVA265	and
BVA215	Equivalents	BVA266	Equivalents
BVA216		BVA267	
BVA243	EF39	BVA274	ECH35
BVA246	and	BVA275	and
BVA247	Equivalents	BVA276	Equivalents

U.S.A. SERVICE TYPES WITH COMMERCIAL EQUIVALENTS

1	WE203A	64	800
2	WE205B	65	6C5
4B	211	65A	6C5G
4C	211spec.	66	6F6
5	WE215A	66A	6F6G
6	212A	67	30spec.
7	WX12	68	6B7
8	UV204	69	6D6
17	860	70	6F7
19	861	72	842
22	204A	73	843
24	864	74	5Z4
25	10	75	75
25A	0Y-10spec.	76	76
26	22	77	77
27	30	78	78
28	24A	80	80
29	27	83	83
30	01A	84	84/6Z4
31	31	86	6K7
33	33	86A	6K7G
34	207	86B	6K7GT
35	35/51	87	6L7
36	36	87A	6L7G
37	37	88	6R7
38	38	88A	6R7G
39	869	88B	6R7GT
39A	869A	89	89
40	40	90	6H6
41	851	90A	6H6GT/G
42	872	91	6J7
42A	872A	91A	6J7GT
43	845	92	6O7
44	32	92A	6Q7G
45	45	93	6B8
46	866	93A	6B8G
46A	866A	94	6J5
47	47	94A	6J5G
48	41	94D	6J5GT/G
49	39/44	95	2A3
50	50	96	6N7
51	841	97	5W4
52	45spec.	98	6U5/6G5
54	34	99	6F8G
55	865	100	807
56	56	100A	807spec.
57	57	101	837
58	58	103	6S07
60	850	104	12S07
62	801/801A	105	6S07
63	46	106	803

U.S.A. SERVICE TYPES WITH COMMERCIAL EQUIVS. (Contd.)

107	6V6	154	814
107A	6V6GT	161	12SA7
107B	6V6G	162	12SJ7
108	450TH	163	6C8G
109	2051	164	1619
111	5BP4/1802P4	165	1624
112	6AC7/1852	166	371A
114	5T4	167	6K8
115	6L6	167A	6K8G
115A	6L6G	168A	6Y6G
116	6SJ7	169	12C8
116A	6SJ7GT	170	1E5GP
116B	6SJ7Y	171	1R5
117	6SK7	172	1S5
117A	6SK7GT	173	1T4
118	832	174	3S4
119	2X2/879	175	1613
120	954	176	6AB7/1853
121	955	177	1LH4
124	1A5GT	178	1LC6
125	1C5GT	179	1LN5
126	6X5	180	3LF4
126A	6X5G	181	7Z4
126B	6X5GT	182	3B7/1291
128	1630	183	1R4/1294
129	304TL	184	OB3/VR90
130	250TL	185	3D6/1299
131	12SK7	187	575A
132	12K8	188	7E6
133	12SR7	189	7F7
134	12A6	190	7H7
135	12J5GT	191	316A
135A	12J5	192	7A4
136	1625	193	7C7
137	1626	194	7J7
138	1629	195	1005
139	OD3/VR150	196	6W5G
141	WL531	197A	5Y3GT/G
143	805	198A	6G6G
144	813	199	6SS7
145	5Z3	200	OC3/VR105
146	1N5GT	201	25L6
147	1A7GT	201C	25L6GT/G
148	1D8GT	202	9002
149	3A8GT	203	9003
150	6SA7	204	3C24
150A	6SA7GT	205	6ST7
151	6A8G	206A	5V4G
151B	6A8GT	207	12AH7GT
152	6K6GT	208	7B8
152A	6K6G	209	12SG7
153	12C8Y	210	1S4

U.S.A. SERVICE TYPES WITH COMMERCIAL EQUIVS. (Contd.)

211	6SG7	241	7E5/1201
212	958	243	7C4/1203A
213A	6L5G	244	5U4G
214	12H6	245	2050
215	6E5	246	918
216	816	247	6AG7
217	811	248	3CP1/1808P1
218	100TH	249	1006
220	250TH	250	EF50
221	3Q5GT	251	WL441 Series
222	884	252	923
223	1H5GT	254	304TH
224	2C34-RK34	255	705A
225	307A	256	GL486
226	3EP1/1806P1	257	K-7
227	7184	259	829
228	8012	260	OA3/VR-75
229	6SL7GT	264	3O4
230	350A	266	1616
231	6SN7GT	267	WL578
232	E1148	268	12SC7
233	6SR7	269	717A
234	114B	277	417
235	615	279	GY2
236	836	282	ZG489
237	957	286	832A
238	956	287	815
239	1LE3	288	12SH7
240	710A	289	12SH7GT

Type	Replacement	Maker	Remarks
3/6A	65K 65K/2 TA15 6705A	Cossor Emitron G.E.C.	Change base, ion-trap tube. Tetrode tube, A1 250 v, aluminised, Max. EHT 7 kV, increased focus current. Change base, aluminised, no ion trap, increased heater rating 6.3 v, 0.5 A, no grey filter.
12XP4-A	7102A C12F C12FM MW31-15 MW31-16 MW31-17 MW31-18 MW31-20 MW31-21 MW31-22 MW31-23 MW31-74 14KP4A 141K	G.E.C. Brimar Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard Emitron Cossor (Mullard)	Change base, aluminised, no ion trap, no grey filter. Not aquadag coated, no grey filter. No grey filter. Not aquadag coated, no grey filter. No grey filter. Not aquadag coated, no ion trap, no grey filter. No ion trap, no grey filter. Aluminised, no ion trap, not aquadag coated, change base, no grey filter. Change base, no ion trap, not aquadag coated, no grey filter. Aluminised, no ion trap, not aquadag coated, no grey filter. No ion trap, no grey filter. Direct replacement. Direct replacement. Direct replacement. Direct replacement.
14KP4-A	MW36-22	{ European { Mullard	Direct replacement.
15EP4	MW36-24	{ European { Cossor	Direct replacement.
17ASP4	85K 171K 172K MW43-22 MW43-24 MW43-29 MW43-43 MW43-61	Cossor Cossor European European European European	Change base, no aquadag coating, max. EHT 9 kV, increased heater current rating 6.3 v, 0.55 A. Direct replacement. Pentode tube, connect pin 7 to cathode (pin 11). EHT 12 kV max. EHT 12 kV, max., grey filter. EHT 12 kV max., aluminised. Glass or metal cone, pentode tube, connect pin 7 to cathode (pin 11), grey filter. Direct replacement.

Type	Replacement	Maker	Remarks
	MW43-64	(Mullard	
	T908	{ European	
	TR17/7	Eng. Electric	Grey filter, pentode tube. Connect pin 7 to cathode (pin 11).
	TR17/8	Ferranti	Direct replacement.
	65K/2	Ferranti	Aluminised, no ion trap, no aquadag coating.
	3/6A	Cossor	Aluminised, no ion trap.
65K	TA15	Emitron	Ion-trap tube.
		Emitron	Change base, intended for cathode-modulated designs, max. EHT 4 kv.
			Change base, tetrode tube, A1 requires 250 v. Increased focus current, aluminised, intended for cathode-modulated designs, max. EHT 7 kv.
	65K	Cossor	No ion trap.
	3/6A	Emitron	Change base, intended for cathode-modulated designs, max. EHT 4 kv, no ion trap.
	TA15	Emitron	Change base, tetrode tube, A1 requires 250 v. Increased focus current, aluminised, intended for cathode-modulated designs, no ion trap.
85K	15EP4	Emitron	Change base, tetrode tube, A1 = 250 v.
141K	14KP4	Emitron	Direct replacement.
	14KP4A	Emitron	Direct replacement.
	MW36-22	(Mullard	
	MW36-24	{ European	
	17ASP4	European	Direct replacement.
	172K	Emitron	Direct replacement.
	MW43-22	Cossor	Pentode tube, connect pin 7 to cathode (pin 11), grey filter.
	MW43-24	European	EHT 12 kv max.
	MW43-29	European	EHT 12 kv max., grey filter.
	MW43-43	European	EHT 12 kv max., aluminised.
	MW43-61	European	Glass or metal cone, pentode tube, connect pin 7 to cathode (pin 11), grey filter.
		(Mullard	Direct replacement.
	MW43-64	{ European	
	T908	Eng. Electric	Pentode tube, connect pin 7 to cathode (pin 11), grey filter.
	TR17/7	Ferranti	Direct replacement.
			Aluminised, no ion trap, no aquadag coating.

TELEVISION PICTURE TUBES

171K (cont.)—6504

Type	Replacement	Maker	Remarks	
172K	TR17/8	Ferranti	Aluminised, no ion trap.	
	17ASP4	Emitron	No grey filter.	
	171K	Cossor	No grey filter.	
	MW43-22	European	No grey filter, EHT 12 kV max.	
	MW43-24	European	EHT 12 kV max.	
	MW43-29	European	Aluminised, no grey filter, EHT 12 kV max.	
	MW43-43	European	Glass or metal cone.	
	MW43-61	European	No grey filter.	
	MW43-64	Mullard	Direct replacement.	
	6501	T908	European	No grey filter.
		TR17/7	Eng. Electric	Aluminised, no ion trap, no aquadag coating, no grey filter.
		TR17/8	Ferranti	Aluminised, no ion trap, no grey filter.
		6502	Ferranti	Aquadag coated.
		6504	G.E.C.	Direct replacement.
6504A		G.E.C.	Aluminised, aquadag coated.	
MW22-14		Mullard	Change base, tetrode tube, A1 = 200 v, aquadag coating.	
MW22-14c		Mullard	Change base, tetrode tube, A1 = 200 v.	
MW22-15		Mullard	Change base, tetrode tube, A1 = 350 v, increase EHT 9 kV max., ion-trap tube.	
MW22-16		Mullard	As for MW22-15 but with aquadag coating.	
MW22-17		Mullard	Change base, tetrode tube, A1 = 350 v, increase EHT to 9 kV max.	
MW22-18		Mullard	As for MW22-17 but with aquadag coating.	
6504		G.E.C.	Not aquadag coated.	
6504A		G.E.C.	Aluminised.	
6502	MW22-14	Mullard	Change base, tetrode tube, A1 = 200 v.	
	MW22-14c	Mullard	Change base, tetrode tube, A1 = 200 v, not aquadag coated.	
	MW22-15	Mullard	Change base, ion-trap tube, tetrode tube, A1 = 350 v. Increase EHT 9 kV max. not aquadag coated.	
	MW22-16	Mullard	Change base, ion-trap tube, tetrode tube, A1 = 350 v. Increase EHT 9 kV max.	
	MW22-17	Mullard	Change base, tetrode tube, A1 = 350 v. Increase EHT to 9 kV max., not aquadag coated.	
	MW22-18	Mullard	Change base, tetrode tube, A1 = 350 v. Increase EHT to 9 kV max.	
	6505A	G.E.C.	Aluminised, aquadag coated.	
	6504	G.E.C.	Aquadag coated.	

Type	Replacement	Maker	Remarks
	6504A	G.E.C.	Aluminised, aquadag coated.
	MW22-14	Mullard	Aquadag coated, change base, tetrode tube, A1 = 200 v.
	MW22-14c	Mullard	Change base, tetrode tube, A1 = 200 v.
	MW22-15	Mullard	Change base, tetrode tube, A1 = 350 v. Increase EHT to 9 kV. ion-trap tube.
	MW22-16	Mullard	As for MW22-15 but with aquadag coating.
	MW22-17	Mullard	Change base, tetrode tube, A1 = 350 v. Increase EHT to 9 kV.
	MW22-18	Mullard	As for MW22-17 but with aquadag coating.
6504A	6502	G.E.C.	Not aluminised.
	6504	G.E.C.	Not aluminised, not aquadag coated.
	MW22-14	Mullard	Not aluminised, change base, tetrode tube, A1 = 200 v.
	MW22-14c	Mullard	Not aluminised, change base, tetrode tube, A1 = 200 v, not aquadag coated.
	MW22-15	Mullard	Not aluminised, change base, tetrode tube, A1 = 350 v. Increase EHT 9 kV, ion-trap tube.
	MW22-16	Mullard	Not aluminised, change base, tetrode tube, A1 = 350 v. Increase EHT 9 kV, ion-trap tube.
	MW22-17	Mullard	Not aluminised, change base, tetrode tube, A1 = 350 v. Increase EHT 9 kV, not aquadag coated.
6505A	MW22-18	Mullard	Not aluminised, change base, tetrode tube, A1 = 350 v. Increase EHT 9 kV.
6703A	6503	G.E.C.	aquadag coated.
	6705A	G.E.C.	Not aluminised, change base, tetrode tube, A1 = 350 v. Increase EHT 9 kV.
	7102A	G.E.C.	Direct replacement.
6704A	6706A	G.E.C.	6.3 v, 0.3 A heater.
6705A	6703A	G.E.C.	Direct replacement.
	7102A	G.E.C.	EHT 8 kV max.
	6704A	G.E.C.	6.3 v, 0.3 A heater.
6706A	T901	Eng. Electric	Max. EHT 8 kV.
6901A	T901B	Eng. Electric	Increased heater rating 6.3 v, 0.6 A, metal cone, tetrode gun, A1 = 400 v max.
	MW41-1	Mullard	Metal cone, tetrode gun, A1 = 400 v max.
7102A	6705A	G.E.C.	Metal cone, tetrode gun, A1 = 350 v max.
C9A	MW31-74	Mullard	Increased heater rating, 6.3 v, 0.5 A.
	CRM91	Mazda	Ion trap tube, grey filter.
	CRM92-A	Mazda	Direct replacement.
	MW22-3	Mullard	Direct replacement.
	C9B	Brimar	Change base.
	CRM91	Mazda	Change base, increased heater rating 2.0 v, 2.5 A.
	CRM92-A	Mazda	Change base, reduced heater rating 2.0 v, 1.4 A.
			Change base, reduced heater rating 2.0 v, 1.4 A.

TELEVISION PICTURE TUBES

C9B (cont.)—C12DM

Type	Replacement	Maker	Remarks
C12A	MW22-3	Mullard	Change base, reduced heater rating 2.0 v, 1.2 A.
	C9A	Brimar	Change base, reduced heater rating 2.0v, 1.4A.
	CRM121-A	Mazda	Direct replacement.
	CRM121-B	Mazda	Grey filter screen.
	CRM123	Brimar	Aluminised, increase EHT to 10 kV.
	C12B	Brimar	12 kV, increased heater rating 2.0 v, 2.5 A.
	C12B	Brimar	As for C12B but with aquadag coating.
	C12B	Brimar	Change base, increased heater rating 2.0 v, 2.5 A.
	C12B	Brimar	As for C12D but with aquadag coating.
	C12B	Brimar	Change base, aquadag coated.
C12B	CRM121B	Mazda	Change base, max. EHT 10 kV.
	CRM121B	Brimar	Aquadag coated.
	T12/91	Ferranti	Change base, not aluminised, max. EHT 9 kV, grey filter.
	T12/92	Ferranti	Not aluminised, max. EHT 9 kV.
	C12B	Brimar	Not aluminised, aquadag coated, max. EHT 9 kV.
	CRM123	Mazda	No aquadag coating.
	CRM121B	Brimar	Change base, EHT max. 10 kV, no aquadag coating.
	T12/91	Ferranti	Change base, EHT max. 9 kV, not aluminised, no aquadag coating.
	T12/92	Ferranti	Not aluminised, EHT max. 9 kV, no aquadag coating.
	C12A	Brimar	Not aluminised, EHT max. 9 kV.
C12D	C12B	Brimar	Change base.
	C12BM	Brimar	Aluminised, increase EHT 12 kV.
	C12DM	Brimar	As for C12B but with aquadag coating.
	CRM121-A	Mazda	Aquadag coated.
	CRM121B	Mazda	Change base, max. EHT 7.5 kV.
	CRM123	Mazda	Change base, grey filter.
	T12/91	Ferranti	Change base, aluminised, increase EHT 10 kV.
	T12/92	Ferranti	Max. EHT 9 kV.
	C12A	Brimar	Max. EHT, 9 kV, aquadag coated.
	C12B	Brimar	Change base, no aquadag coating.
C12DM	C12B	Brimar	Increase EHT 12 kV, no aquadag coating.
	C12BM	Brimar	Increase EHT 12 kV.
	C12D	Brimar	No aquadag coating.
	CRM121-A	Mazda	Change base, no aquadag coating, max. EHT 7.5 kV.

Type	Replacement	Maker	Remarks
	CRM121-B	Mazda	Grey filter, no aquadag coating, change base.
	CRM123	Mazda	Aluminised, increase EHT to 10 kV, change base.
	T12/91	Ferranti	Max. EHT 9 kV, no aquadag coating.
	T12/92	Ferranti	Max. EHT 9 kV.
	CRM151	Mazda	Change base, max. EHT 13 kV.
	CRM171	Mazda	Not aquadag coated.
C15B	MW18-2	Mullard	Change base.
C17FM	CRM92-A	Mazda	Direct replacement.
CRM71	C9A	Brimar	Direct replacement.
CRM91	MW22-3	Mullard	Change base.
CRM92-A	C9B	Brimar	Change base, increased heater rating 2.0 v, 2.5 A.
	CRM91	Mazda	Direct replacement.
	C9A	Brimar	Direct replacement.
	MW22-3	Mullard	Change base.
	C9B	Brimar	Change base, increased heater rating 2.0 v, 2.5 A.
CRM121-A	CRM121B	Mazda	Direct replacement, grey-filter screen.
	CRM123	Mazda	Aluminised, increase EHT to 10 kV.
	C12A	Brimar	Direct replacement.
	C12B	Brimar	Aluminised, change base, increase EHT to 12 kV. increased heater current 2.0 v, 2.5 A.
	C12BM	Brimar	As for C12B but with aquadag coating.
	C12D	Brimar	Change base, increased heater current 2.0 v, 2.5 A.
	C12DM	Brimar	As for C12D but with aquadag coating.
	T12/91	Ferranti	Change base.
	T12/92	Ferranti	Change base, aquadag coated.
CRM121B	CRM123	Mazda	Aluminised.
	C12B	Brimar	Change base, aluminised, increased heater rating 2.0 v, 2.5 A, EHT 12 kV max.
	C12BM	Brimar	As C12B but with aquadag coating.
	T12/91	Ferranti	Change base.
	T12/92	Ferranti	Change base, aquadag coated.
CRM123	CRM121B	Mazda	(None of these tubes have grey filter screens).
	C12B	Brimar	Not aluminised, max. EHT 9 kV, grey filter screen.
	C12BM	Brimar	Change base, increased heater rating 2.0 v, 2.5 A.
	T12/91	Ferranti	As for C12B but with aquadag coating.
	T12/92	Ferranti	Change base, not aluminised.

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CRM151—MW22-15

Type	Replacement	Maker	Remarks
CRM151	C15B	Brimar	Change base, max. EHT 10 kV.
CRM171	C17FM	Brimar	Aquadag coated.
MW18-2	CRM71	Mazda	Change base.
MW22-1	T9/2	Ferranti	Change base, max. permissible EHT 6 kV.
	T9/3	Ferranti	Change base, max. permissible EHT 6 kV.
	T9/5	Ferranti	Change base, aquadag coated, max. permissible EHT 6 kV.
	CRM91	Mazda	Change base.
MW22-3	CRM92-A	Mazda	Change base.
	C9A	Brimar	Change base.
	C9B	Brimar	Change base, increased heater rating 2.0 v, 2.5 A.
MW22-5	MW22-16	Mullard	As for MW22-17 but with ion trap and aquadag coating.
	MW22-17	Mullard	Change base, increase EHT 9 kV max. Increase A1 to 350 v max.
	MW22-18	Mullard	As for MW22-17 but with aquadag coating.
MW22-7	MW22-16	Mullard	As for MW22-17 but with ion trap and aquadag coating.
	MW22-17	Mullard	Change base, increase A1 to 350 v max.
	MW22-18	Mullard	As for MW22-17 but with aquadag coating.
MW22-14	6502	G.E.C.	Change base, triode tube, increased heater current 6.3 v, 0.5 A.
	6504	G.E.C.	Change base, triode tube, not aquadag coated, increased heater current 6.3 v, 0.5 A.
	6504A	G.E.C.	Aluminised, change base, triode tube, increased heater current 6.3 v, 0.5 A.
	MW22-14c	Mullard	Not aquadag coated.
	MW22-15	Mullard	Ion-trap tube, not aquadag coated, permissible EHT 9 kV, change base.
	MW22-16	Mullard	Ion-trap tube, permissible EHT 9 kV, change base.
	MW22-17	Mullard	Not aquadag coated, permissible EHT 9 kV, change base.
	MW22-18	Mullard	Permissible EHT 9 kV, change base.
MW22-14c	6502	G.E.C.	Change base, triode tube, aquadag coated, increased heater current 6.3 v, 0.5 A.
	6504	G.E.C.	Change base, triode tube, increased heater current 6.3 v, 0.5 A.
	6504A	G.E.C.	Change base, triode tube, aluminised. Aquadag coated, increased heater current 6.3 v, 0.5 A.
	MW22-14	Mullard	Aquadag coated.
	MW22-15	Mullard	Ion-trap tube, change base, max. EHT 9 kV.
	MW22-16	Mullard	Aquadag coated, ion-trap tube, change base, permissible EHT 9 kV.
	MW22-17	Mullard	Change base, max. EHT 9 kV.
	MW22-18	Mullard	Change base, max. EHT 9 kV, aquadag coated.
MW22-15	MW22-16	Mullard	Aquadag coated.

Type	Replacement	Maker	Remarks
MW22-16	MW22-17 MW22-18 MW22-15 MW22-17 MW22-18 MW22-15 MW22-16 MW22-18 MW22-15 MW22-16 MW22-17	Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard	No ion trap. No ion trap, aquadag coated. Not aquadag coated. No ion trap, not aquadag coated. No ion trap. Ion-trap tube. Ion-trap tube, aquadag coated. Aquadag coated. Ion-trap tube, not aquadag coated. Ion-trap tube. Not aquadag coated.
MW22-18	MW22-15 MW22-16 MW22-17	Mullard Mullard Mullard	Aquadag coated. Ion-trap tube, not aquadag coated. Ion-trap tube.
MW31-3 } MW31-6 }	6703A 6705A }	G.E.C. G.E.C.	Change base, triode tube, aluminised, aquadag coated, max. EHT 8 kV. As for 6703A but max. EHT 9 kV.
	7102A } C12E } C12F } C12FM } MW31-7 MW31-14 MW31-14c MW31-15 MW31-16 MW31-17 MW31-18 MW31-21 MW31-23 MW31-20 MW31-22 MW31-74	Brimar Brimar Brimar Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard	Change base, triode tube, max. EHT = 7 kV. Change base, ion-trap tube, max. EHT = 7 kV. Change base, ion-trap tube, aquadag coated, max. A1 = 200 v, A2 7 kV. Change base, max. A1 = 350 v, A2 7 kV. Change base, aquadag coated. Change base. Change base, ion-trap tube, A1 350 v max., A2 9 kV max. As for MW31-15 but with aquadag coating. As for MW31-15 but without ion trap. Change base, aquadag coated, A1 350 v max., A2 9 kV max. Change base, aluminised, max. A1 = 350 v, A2 9 kV. As for MW31-20. Change base, grey filter, ion-trap tube, aquadag coated, max. A1 = 350 v, A2 9 kV

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MW31-6 (cont.)—MW31-14c

Type	Replacement	Maker	Remarks	
MW31-14	T12/56	Ferranti	Change base, triode tube, aquadag coated, max. EHT = 8 kV.	
	6703A	G.E.C.		
MW31-14c	6705A	G.E.C.	Change base, triode tube, aluminised, increased heater rating 6.3 v, 0.5 A.	
	7102A	G.E.C.		
	C12E	Brimar	Change base, triode tube, aluminised.	
	C12F	Brimar		
	C12FM	Brimar	Change base, ion-trap tube, not aquadag coated.	
	MW31-14c	Mullard		
	MW31-15	Mullard	No aquadag coating.	
	MW31-16	Mullard		
	MW31-17	Mullard	Change base, no aquadag coating, ion-trap tube, max. A1 = 350 v, A2 9 kV.	
	MW31-18	Mullard		
	MW31-20	Mullard	Change base, max. A1 = 350 v, A2 9 kV.	
	MW31-21	Mullard		
	MW31-22	Mullard	Change base, max. A1 = 350 v, A2 9 kV.	
	MW31-23	Mullard		
	MW31-74	Mullard	Change base, ion-trap tube, max. A1 = 350 v, A2 9 kV, grey filter.	
	T12/56	Ferranti		
	MW31-14c	6703A	G.E.C.	Change base, triode tube, increased heater rating 6.3 v, 0.6 A.
		6705A	G.E.C.	
	MW31-14c	7102A	G.E.C.	Change base, triode tube, aluminised, aquadag coated, increased heater rating 6.3 v, 0.5 A.
		C12E	Brimar	
		C12F	Brimar	Change base, triode tube, increased heater rating 6.3 v, 0.5 A.
		C12FM	Brimar	
		MW31-14	Mullard	As for C12F but aquadag coated.
MW31-15		Mullard		
MW31-16		Mullard	Change base, ion-trap tube, max. A1 = 350 v, A2 9 kV.	
MW31-17		Mullard		
MW31-18		Mullard	Change base, aquadag coated, max. A1 = 350 v, A2 = 9 kV.	
MW31-20		Mullard		
MW31-21		Mullard	Aluminised, max. A1 = 350 v, A2 9 kV.	
MW31-22		Mullard		
MW31-23		Mullard	Aquadag coated, max. A1 = 350 v, A2 9 kV.	
MW31-24		Mullard		
MW31-23		Mullard	Change base, aluminised, max. A1 = 350 v, A2 9 kV.	
MW31-74		Mullard		
MW31-14c		MW31-74	Mullard	Change base, aquadag coated, max. A1 = 350 v, A2 = 9 kV.
MW31-14c		MW31-74	Mullard	

Type	Replacement	Maker	Remarks
MW31-15	T12/56 6705A	Ferranti G.E.C.	Change base, triode tube, aquadag coated, increased heater rating 6.3 v, 0.6 A. Change base, triode tube, increased heater rating 6.3 v, 0.5 A, aluminised, aquadag coated, no ion trap.
	7102A C12F C12FM	G.E.C. Brimar	Change base, aluminised, aquadag coated, no ion trap, triode tube. Direct replacement.
	MW31-16 MW31-17 MW31-18 MW31-20 MW31-21 MW31-22 MW31-23 MW31-74 6705A	Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard G.E.C.	Aquadag coated. No ion trap. Aquadag coated, no ion trap. Change base, aluminised, no ion trap. Change base, aquadag coated, no ion trap. Aluminised, no ion trap. Aquadag coated, no ion trap. Aquadag coated, grey filter. Change base, triode tube, increased heater rating 6.3 v, 0.5 A, aluminised, no ion trap. Change base, aluminised, no ion trap. Not aquadag coated. Direct replacement.
MW31-16	7102A C12F C12FM	G.E.C. Brimar	Change base, aluminised, no ion trap. Not aquadag coated. Direct replacement.
	MW31-15 MW31-17 MW31-18 MW31-20 MW31-21 MW31-22 MW31-23 MW31-74 6705A	Mullard Mullard Mullard Mullard Mullard Mullard Mullard Mullard G.E.C.	Not aquadag coated. No ion trap, not aquadag coated. No ion trap. No ion trap. Change base, aluminised, no ion trap, not aquadag coated. Change base, no ion trap. Aluminised, no ion trap, not aquadag coated. No ion trap. Grey filter. Change base, triode tube, increased heater rating 6.3 v, 0.5 A, aluminised, aquadag coated.
MW31-17	7102A C12F C12FM	G.E.C. Brimar	Change base, aluminised, aquadag coated. Ion-trap tube.
	MW31-15 MW31-16 MW31-18 MW31-20 MW31-21	Brimar Mullard Mullard Mullard Mullard	Ion-trap tube, aquadag coated. Ion-trap tube. Ion-trap tube, aquadag coated. Aquadag coated. Change base, aluminised.
	MW31-21	Mullard	Change base, aquadag coated.

TELEVISION PICTURE TUBES

MW31-17 (cont.)—MW31-21

Type	Replacement	Maker	Remarks
MW31-18	MW31-22	Mullard	Aluminised.
	MW31-23	Mullard	Aquadag coated.
	MW31-74	Mullard	Ion-trap tube, aquadag coated, grey filter.
	6705A	G.E.C.	Change base, triode tube, increased heater rating 6.3 v, 0.5 A, aluminised.
	7102A	G.E.C.	Change base, triode tube, aluminised.
	MW31-15	Mullard	Not aquadag coated, ion-trap tube.
	MW31-16	Mullard	Ion-trap tube.
	MW31-17	Mullard	Not aquadag coated.
	MW31-20	Mullard	Change base, aluminised, not aquadag coated.
	MW31-21	Mullard	Change base.
	MW31-22	Mullard	Aluminised, not aquadag coated.
	MW31-23	Mullard	Direct replacement.
	MW31-74	Mullard	Ion-trap tube, grey filter.
	C12F	Brimar	Ion-trap tube, not aquadag coated.
	C12FM	Brimar	Ion-trap tube.
	MW31-20	6705A	G.E.C.
7102A		G.E.C.	Change base, aquadag coated.
C12F		Brimar	Change base, not aluminised, ion-trap tube.
C12FM		Brimar	Change base, not aluminised, ion-trap tube, aquadag coated.
MW31-15		Mullard	Change base, not aluminised, ion-trap tube.
MW31-16		Mullard	Change base, not aluminised, ion-trap tube.
MW31-17		Mullard	Change base, not aluminised, aquadag coated.
MW31-18		Mullard	Change base, not aluminised.
MW31-21		Mullard	Change base, not aluminised, aquadag coated.
MW31-22		Mullard	Not aluminised, aquadag coated.
MW31-21	MW31-23	Mullard	Change base.
	MW31-74	Mullard	Change base, not aluminised, aquadag coated.
	6705A	G.E.C.	Change base, ion-trap tube, aquadag coated, not aluminised.
	7102A	G.E.C.	Change base, aluminised, increased heater rating 6.3 v, 0.5 A.
	C12F	Brimar	Change base, aluminised.
	C12FM	Brimar	Change base, not aquadag coated, ion-trap tube.
	MW31-15	Mullard	Change base, ion-trap tube.
	MW31-16	Mullard	Change base, ion-trap tube, not aquadag coated.
	MW31-17	Mullard	Change base, ion-trap tube, not aquadag coated.
	MW31-18	Mullard	Change base, ion-trap tube.
	MW31-21	Mullard	Change base, ion-trap tube.
	MW31-22	Mullard	Change base, ion-trap tube, not aquadag coated.

Type	Replacement	Maker	Remarks
MW31-22	MW31-18	Mullard	Change base.
	MW31-20	Mullard	Aluminised, not aquadag coated.
	MW31-22	Mullard	Change base, aluminised, not aquadag coated.
	MW31-23	Mullard	Change base.
	MW31-74	Mullard	Change base, aquadag coated, ion-trap tube, grey filter.
	6705A	G.E.C.	Change base, aquadag coated, increased heater rating 6.3 v, 0.5 A.
	7102A	G.E.C.	Change base, aquadag coated.
	C12F	Brimar	Not aluminised, ion-trap tube.
	C12FM	Brimar	Not aluminised, ion-trap tube, aquadag coated.
	MW31-15	Mullard	Ion-trap tube, not aluminised.
	MW31-16	Mullard	Ion-trap tube, not aluminised, aquadag coated.
	MW31-17	Mullard	Ion-trap tube, not aluminised, aquadag coated.
	MW31-18	Mullard	Not aluminised.
	MW31-20	Mullard	Not aluminised, aquadag coated.
	MW31-21	Mullard	Not aluminised, aquadag coated.
MW31-23	MW31-23	Mullard	Change base, not aluminised, aquadag coated.
	MW31-74	Mullard	Not aluminised, aquadag coated.
	6705A	G.E.C.	Change base, aluminised, increased heater rating 6.3 v, 0.5 A.
	7102A	G.E.C.	Change base, aluminised.
	C12F	Brimar	Ion-trap, not aquadag coated.
	C12FM	Brimar	Ion-trap tube.
	MW31-15	Mullard	Ion-trap, not aquadag coated.
	MW31-16	Mullard	Ion-trap tube.
	MW31-17	Mullard	Not aquadag coated.
	MW31-18	Mullard	Direct replacement.
	MW31-20	Mullard	Change base, aluminised, not aquadag coated.
	MW31-21	Mullard	Change base.
	MW31-22	Mullard	Aluminised, not aquadag coated.
	MW31-74	Mullard	Ion-trap tube, grey filter.
	6705A	G.E.C.	Change base, aluminised, no ion trap, increased heater rating 6.3 v, 0.5 A, no grey filter.
MW31-74	7102A	G.E.C.	Change base, aluminised, no ion trap, no grey filter.
	12XP4-A	Emitron	Direct replacement.
	C12F	Brimar	Not aquadag coated, no grey filter.
	C12FM	Brimar	No grey filter.
	MW31-15	Mullard	Not aquadag coated, no grey filter.
	MW31-16	Mullard	No grey filter.

TELEVISION PICTURE TUBES

MW31-74 (cont.)—MW43-29

Type	Replacement	Maker	Remarks
MW36-22	MW31-17	Mullard	Not aquadag coated, no ion trap, no grey filter. No ion trap, no grey filter. Aluminised, no ion trap, not aquadag coated, change base, no grey filter. Change base, no ion trap, no grey filter. Aluminised, no ion trap, not aquadag coated, no grey filter. No ion trap, no grey filter. Direct replacement. Direct replacement. Direct replacement. Direct replacement. Direct replacement.
	MW31-18	Mullard	
	MW31-20	Mullard	
	MW31-21	Mullard	
	MW31-22	Mullard	
	MW31-23	Mullard	
	14KP4	Emitron	
	14KP4A	Emitron	
	141K	Cossor	
		{ Mullard	
MW36-24	MW36-24	{ European	Direct replacement.
	14KP4	Emitron	
	14KP4A	Emitron	
	141K	Cossor	
		{ Mullard	
MW41-1	MW36-22	{ European	Direct replacement. Increased heater rating 6.3 v, 0.6 A. Direct replacement. Triode tube, aluminised, no ion trap, all glass construction. Grey filter. Aluminised. Glass or metal cone, pentode tube, connect pin 7 to cathode (pin 11), grey filter. Direct replacement.
	T901	Eng. Electric	
	T901B	Eng. Electric	
	6901A	G.E.C.	
	MW43-24	European	
	MW43-29	European	
	MW43-43	European	
	MW43-61	European	
		{ Mullard	
		{ European	
MW43-24	MW43-22	{ European	No grey filter. Aluminised, no grey filter. Glass or metal cone, pentode tube, connect pin 7 to cathode (pin 11). No grey filter. Pentode tube, connect pin 7 to cathode (pin 11).
	MW43-29	European	
	MW43-43	European	
	MW43-61	European	
		{ Mullard	
MW43-29	MW43-64	{ European	Not aluminised. Not aluminised, grey filter. Pentode tube, connect pin 7 to cathode (pin 11), grey filter, not aluminised.
	MW43-22	European	
	MW43-24	European	
	MW43-43	European	

Type	Replacement	Maker	Remarks	
MW43-43 (Glass)	MW43-61	European	Not aluminised.	
	MW43-64	European	Grey filter, not aluminised, pentode tube, connect pin 7 to cathode (pin 11).	
	MW43-22	European	Direct replacement.	
	MW43-24	European	Grey filter.	
	MW43-29	European	Aluminised.	
	MW43-61	European (Mullard	Direct replacement.	
MW43-61	MW43-64	European	Grey filter.	
	MW43-22	European	Direct replacement.	
	MW43-24	European	EHT 12 kV max., grey filter.	
	MW43-29	European	Aluminised.	
	MW43-43	European	Glass or metal cone, pentode tube, connect pin 7 to cathode (pin 11).	
	MW43-61	European (Mullard	Pentode tube, connect pin 7 to pin 11, grey filter.	
	MW43-64	17ASP4	European	No grey filter.
		171K	Emitron	No grey filter.
		172K	Cossor	Direct replacement.
		MW43-22	European	No grey filter, EHT 12 kV max.
MW43-24		European	EHT 12 kV max.	
MW43-29		European	Aluminised, no grey filter, EHT 12 kV max.	
MW43-43		European	Glass or metal cone.	
MW43-61		European	No grey filter.	
T908		Eng. Electric	No grey filter.	
TR17/7		Ferranti	Aluminised, no ion trap, no aquadag coating, no grey filter.	
TR17/8		Ferranti	Aluminised, no ion trap, no grey filter.	
T9/3		Ferranti	Direct replacement.	
T9/5		Ferranti	Aquadag coated.	
T9/2		Ferranti	Direct replacement.	
T9/5		Ferranti	Aquadag coated.	
T9/2		Ferranti	No aquadag coating.	
T9/3	Ferranti	No aquadag coating.		
T12/3	Ferranti	Direct replacement.		
T12/44	Ferranti	Direct replacement.		
T12/54	Ferranti	Aquadag coated.		
T12/404	Ferranti	Aluminised, increase EHT to 9 kV.		
T12/449	Ferranti	Increase EHT to 9 kV.		

TELEVISION PICTURE TUBES

T12/2 (cont.)—T12/504

Type	Replacement	Maker	Remarks
T12/3	T12/504	Ferranti	Aluminised, aquadag coated, increase EHT to 9 kV.
	T12/549	Ferranti	Aquadag coated, increase EHT to 9 kV.
	T12/44	Ferranti	Direct replacement.
	T12/54	Ferranti	Aquadag coated.
	T12/404	Ferranti	Aluminised, increase EHT to 9 kV.
	T12/449	Ferranti	Increase EHT to 9 kV.
	T12/504	Ferranti	Aluminised, aquadag coated, increase EHT to 9 kV.
	T12/549	Ferranti	Aquadag coated, increase EHT to 9 kV.
	T12/3	Ferranti	Direct replacement.
	T12/54	Ferranti	Aquadag coated.
T12/44	T12/54	Ferranti	Aluminised, increase EHT to 9 kV.
	T12/404	Ferranti	Increase EHT to 9 kV.
	T12/449	Ferranti	Aluminised, aquadag coated, increase EHT to 9 kV.
	T12/504	Ferranti	Aquadag coated, increase EHT to 9 kV.
	T12/549	Ferranti	Aquadag coated, increase EHT to 9 kV.
	T12/3	Ferranti	No aquadag coating.
	T12/44	Ferranti	No aquadag coating.
	T12/404	Ferranti	Aluminised, increase EHT to 9 kV, no aquadag coating.
	T12/449	Ferranti	Increase EHT to 9 kV, no aquadag coating.
	T12/504	Ferranti	Aluminised, increase EHT to 9 kV.
T12/91	T12/549	Ferranti	Aluminised, increase EHT to 9 kV.
	CRM121B	Mazda	Increase EHT to 9 kV.
	CRM123	Mazda	Change base.
	C12B	Brimar	Change base, aluminised.
	C12BM	Brimar	Aluminised, increase EHT 12 kV.
	T12/92	Ferranti	As for C12B but with aquadag coating.
	CRM121B	Mazda	Aquadag coated.
	C12B	Brimar	Change base, no aquadag coating.
	CRM123	Mazda	Aluminised, change base, no aquadag coating.
	C12BM	Brimar	Aluminised, increase EHT 12 kV, no aquadag coating.
T12/404	T12/91	Ferranti	Aluminised, increase EHT 12 kV.
	T12/449	Ferranti	No aquadag coating.
	T12/504	Ferranti	Not aluminised.
	T12/549	Ferranti	Aquadag coated.
	T12/404	Ferranti	Not aluminised, aquadag coated.
	T12/504	Ferranti	Aluminised.
	T12/549	Ferranti	Aluminised, aquadag coated.
	T12/404	Ferranti	Aquadag coated.
	T12/549	Ferranti	Aluminised, aquadag coated.
	T12/404	Ferranti	No aquadag coating.
T12/504	T12/404	Ferranti	Not aluminised.
	T12/449	Ferranti	Aquadag coated.
	T12/549	Ferranti	Not aluminised, aquadag coated.
	T12/404	Ferranti	Aluminised.
	T12/504	Ferranti	Aluminised, aquadag coated.
	T12/549	Ferranti	Aquadag coated.
	T12/404	Ferranti	Aluminised, aquadag coated.
	T12/549	Ferranti	Aluminised, aquadag coated.
	T12/404	Ferranti	Aquadag coated.
	T12/504	Ferranti	No aquadag coating.

Type	Replacement	Maker	Remarks
T12/549	T12/449 T12/549 T12/404 T12/449 T12/504 T901B MW41-1 6901A	Ferranti Ferranti Ferranti Ferranti Eng. Electric Mullard G.E.C.	Not aluminised, no aquadag coating. Not aluminised. Aluminised, no aquadag coating. No aquadag coating. Aluminised. Decreased heater rating 6.3 v, 0.3 A. Decreased heater rating 6.3 v, 0.3 A. Decreased heater rating 6.3 v, 0.3 A. construction. Increased heater rating 6.3 v, 0.6 A. Direct replacement. Triode tube, aluminised, no ion trap, all glass construction. Direct replacement. Direct replacement. Direct replacement. Grey filter, pentode tube, connect pin 7 to cathode (pin 11). EHT 12 kV max. EHT 12 kV max., grey filter. Aluminised, EHT 12 kV max. Glass or metal cone, grey filter, pentode tube, connect pin 7 to cathode (pin 11). Direct replacement.
T901B	T901 MW41-1 6901A	Eng. Electric Mullard G.E.C.	Direct replacement. Triode tube, aluminised, no ion trap, all glass construction. Direct replacement.
T908	17ASP4 171K 172K MW43-22 MW43-24 MW43-29 MW43-43 MW43-61	Emitron Cossor Cossor European European European European European (Mullard	Direct replacement. Direct replacement. Direct replacement. Grey filter, pentode tube, connect pin 7 to cathode (pin 11). EHT 12 kV max. EHT 12 kV max., grey filter. Aluminised, EHT 12 kV max. Glass or metal cone, grey filter, pentode tube, connect pin 7 to cathode (pin 11). Direct replacement.
TA15	MW43-64	European	Grey filter, pentode tube, connect pin 7 to cathode (pin 11).
TR14/4	TR17/7 TR17/8 65K/2	Ferranti Ferranti Cossor	No aquadag coating, aluminised, no ion trap. Aluminised, no ion trap. Not aluminised, ion trap tube, max. EHT 6 kV. Change base, no aquadag coating. Change base. EHT 12 kV max., aquadag coated, change base. Aquadag coated. EHT 12 kV max., change base. No aquadag coating. EHT 12 kV max., ion trap tube, aquadag coated Aquadag coated. Max. EHT 12 kV, ion trap tube. Not aquadag coated.
TR14/12	TR14/12 TR14/13 TR14/4 TR14/13 TR14/4 TR14/12	Ferranti Ferranti Cossor	Change base, no aquadag coating. Change base. EHT 12 kV max., aquadag coated, change base. Aquadag coated. EHT 12 kV max., change base. No aquadag coating. EHT 12 kV max., ion trap tube, aquadag coated Aquadag coated. Max. EHT 12 kV, ion trap tube. Not aquadag coated.
TR17/7	MW43-29 TR17/8	European Ferranti	No aquadag coating, aluminised, no ion trap. Aluminised, no ion trap.
TR17/8	MW43-29 TR17/7	European Ferranti	No aquadag coating, aluminised, no ion trap. Aluminised, no ion trap.

COMMERCIAL VALVE EQUIVALENTS RECEIVED TOO LATE FOR CLASSIFICATION

6AU6	7543		UM35	}	19G5G
E84L	EL84				19U5G
E188CC	CCa		XAA91		3AL5
ECC186	7316		XC95		2ER5
ECL82	8B8		XCC82		7AU7
PF86	4CF8		XCC189		4ES8
PM84	9FG6		XCL82		8B8
PY88	30AE3		XF94		3AU6
UBC81	15BD7A		XL36		13CH5
UCL82	48A8		XL86		8CB5
UCL84	45DX8		XY88		16AQ3
UL84	48BQ5				

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7/6

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2/6

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