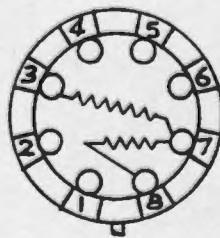
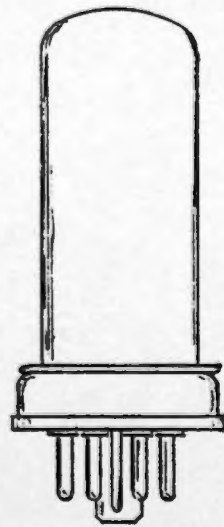


THE
**BALLAST TUBE
SUBSTITUTION**
GUIDE



Compiled By
A.P. Jacobi

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The BALLAST TUBE SUBSTITUTION Guide

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The Replacement Data in this Guide has been compiled from sources believed to be reliable. However, we assume no obligation resulting from the use of this data.

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BALLAST TUBE SUBSTITUTION GUIDE

Introduction.

Ballast tubes are essentially current regulating devices, and as such were used in basically three categories: Current control of 1919-1920's tube filaments, Current control in primary of power transformers of early AC radios, and Control of the series filament string tubes of AC-DC type radios. In these they also provided voltage drops for the dial lamp(s).

During the years of the AC-DC type receiver, manufacturers came out with several hundred different types of ballast tubes with numerous voltage ratings. Fortunately, most were standardized at 300 MA current rating and mostly confined to 4 prong or 8 prong octal bases. To make it easier on service personnel to obtain replacements for these many different types, manufacturers brought out the 'Universal Ballast'. Thus, a small group of tubes could replace several hundred types, greatly simplifying the locating and stocking of replacements. JFD, for example, had three basic types with a unique base arrangement that could replace approximately 2000 types. Others had nine or ten types that would directly substitute for several hundred types.

This substitution guide is mainly oriented toward listing the 'universal' type that may be used as a replacement--but there are many instances of equivalent (or near equivalent) types and these are also listed. In the interest of practicality, this guide has been limited to tubes that would be used in sets with line voltages up to 130 volts, except where used in the primary of power transformer, battery sets, or foreign types. Also, to conserve space, since any RMA Standard type beginning with BK, BL, or BM can be replaced with a type beginning with K, L, or M (or vice versa) as long as the middle number and following letter are the same, these are not listed. e.g. BK49B, K49B, L49B, and M49B are all interchangeable with each other.

In order to provide as much information as possible in limited space, a considerable number of notes are listed near the end of this guide. These are indicated by circled numbers in the replacement section and should be referred to when indicated. For example, JFD tubes require breaking off certain pins and cutting shorting segments between pins to provide proper resistances. This is all directed in the notes. Also at the end there is a chart of tube base diagrams of the various original ballast tubes.

Replacing Ballast Tubes.

In the process of replacing a ballast tube in a receiver with one other than an exact duplicate, there are several things to keep in mind. Electrical characteristics especially, along with space available, base type and diagram, pins that may or may not be needed, and dial lamp(s) arrangement. In some cases a socket may have to be changed, wiring to existing socket pins may have to be moved, certain pins broken off, or dial lamps changed to a different rating.

In all cases where a substitute ballast of another type is being used to replace the original, check the set's ballast tube socket wiring.

Manufacturers often utilized unused socket terminals for tie-points of wiring not associated with the ballast or filament circuit. If this exists, the wires should be moved to other tie-points, or the unused pins of the ballast tube cut off. Remember when using universal type replacements that they usually have all pins connected in the tube and these need to be accounted for.

As previously mentioned, dial lamps may also need to be adjusted. In cases where they glow too dim (or too bright), it may be possible to just replace the bulb(s) with one of a different current rating. In some extreme cases, possibly a small resistor in series or parallel will greatly improve the operation of the lamp. In any set, if a dial lamp is burned out, be sure it is replaced so as to maintain proper voltage distribution in the series string filaments.

Ballasts are designed to work at a certain voltage drop, usually within a small range up or down. Universal types handle a wider range, depending somewhat on whether its high or low voltage. In any case, when a ballast being replaced falls near the end of a range, some judgement should be used. Line voltages of 40 or 50 years ago were about 110 volts under good conditions, whereas today they are 120 to 125 volts. So, if a set then needed a tube to drop say 49 volts, today it may need one capable of 55 or 60 volts. So, in some cases, it may be prudent to use a tube rated at a little higher voltage drop than the one originally used. This would be a judgement call, but something to keep in mind.

Picking a replacement ballast today is somewhat a matter of what you can find that will work. But, if a choice is available, it is recommended that a glass type be used instead of a metal type. The reasoning here is that a glass type will dissipate the heat better, is hermetically sealed, and connections to the elements are usually spot-welded. Metal tubes are not hermetically sealed, the element connections generally were wrapped and crimped, thereby subject to oxidation or corrosion and high resistance connections. In all fairness, some metal tubes had the resistance wire brought out into the pins and soldered, but they are in the minority. Metal tubes with high resistance connections will sometimes heal themselves (to various extent) after power is applied. The worst ones can be disassembled, connections cleaned and recrimped, and work good as new.

Points To Remember.

Pin 1 is connected to the shell on some metal tubes; Pin 4 in some rare instances.

In many cases, the same type number was made in both 4 prong and 8 prong octal bases.

Refer to charts near end of guide for Universal Replacement base diagrams, RMA Standard information, and original base diagrams.

RMA Standard types beginning with BK, BL, and BM may be replaced with a type beginning with K, L, or M (or vice versa) as long as the middle number and following letter are the same.

Universal Replacement Type
Ballast Tubes

Type	Manufacturer	See Chart Number:	
A	JFD Mfg. Co.	6	Page 54
B	"	6	" 54
C	"	6	" 54
KL-25	Amperite Co.	4	Page 53
KL-25E	"	4	" 53
KL-25H	"	4	" 53
KL-25J	"	4	" 53
KL-45	"	4	" 53
KL-45J	"	4	" 53
KL-50E	"	4	" 53
KL-50H	"	4	" 53
KL-50J	"	4	" 53
KL-50S1	"	4	" 53
KL-50S2	"	4	" 53
KL-50S3	"	4	" 53
KL-75	"	4	" 53
KL-75H	"	4	" 53
KL-75J	"	4	" 53
KL-220	"	4	" 53
URB-001	Gen. Elect. Co.	3	Page 52
URB-002	"	3	" 52
URB-003	"	3	" 52
URB-004	"	3	" 52
URB-005	"	3	" 52
URB-006	"	3	" 52
URB-007	"	3	" 52
URB-008	"	3	" 52
URB-009	"	3	" 52
UX10-23-A, E, or F	Clarostat Mfg. Co.		
UX23-55-A, E, or F	"		
UX60-92-A, E, or F	"		
UX92-105-A	"		
Z	Micamold Radio Corp. (Equivalent to JFD Type C.)		
4P-45	Amperite Co.	4	Page 53
10-23-A, E, or F	Clarostat Mfg. Co.	3	" 52
10-23-1, 2, or 3	Nat'l Union Co.	3	" 52
23-55-A, E, or F	Clarostat Mfg. Co.	3	" 52
23-55-1, 2, or 3	Nat'l Union Co.	3	" 52
45-001	Philco Radio Co.	3	" 52
45-001-2	"	3	" 52
50AB	Amperite Co.	4	" 53
60-92-A, E, or F	Clarostat Mfg. Co.	3	" 52
60-92-1, 2, or 3	Nat'l Union Co.	3	" 52
92-105-A	Clarostat Mfg. Co.	3	" 52
92-105-1	Nat'l Union Co.	3	" 52

BALLAST TUBE LISTING

* indicates European type.

Type	Base	Replacement Types	Numbers in circles refer to Notes pages 45 to 48.
A-16037	43	L17E, 10-23-2, 10-23-E, URB-002	JFD Type A. (15)(36)(77)
A-16040		KL9C, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
A-16042			" " B. (10)(23)
A-16043			
B13A*	66	G2, CV2, V70	
BK3AJ	29	10-23-1(4) 10-23-A(4) URB-001(4)	
BK11B	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	JFD Type A. (10)(23)
BK11C	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10)(23)
BK11D	36	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (11)(50)
BK15B	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10)(23)
BK17B	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10)(39)
BK17C	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10)(39)
BK17D	36	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (11)(36)
BK17E	43	KL-25E, 10-23-2, 10-23-E, URB-002	" " A. (15)(36)(77)
BK17E1	33	KL-25E	" " A. (15)(36)(76)
BK23B	33	KL-25, 5514, 23-55-1, 23-55-A, URB-004	" " A. (10)(24)
BK23C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10)(24)
BK23D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11)(44)
BK23E	43	KL-25E, 23-55-2, 23-55-E, URB-005	" " A. (15)(44)(77)
EK24C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10)(24)
BK29B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10)(47)
BK29C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10)(47)
BK29D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11)(29)
BK29D-10	36		JFD Type B. (10)(23)
BK30B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10)(47)
BK30C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10)(47)
BK30D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11)(29)
BK30H	45	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (20)(30)
BK32D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11)(48)
BK36	36	BK36D, KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11)(48)
BK36B	33	5515, KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10)(32)
BK36C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10)(32)
BK36D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11)(48)
BK36E	43	KL-50E, 23-55-2, 23-55-E, URB-005	" " A. (15)(48)(77)
BK36F	44	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (11)(35)
BK36H	45	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (20)(49)
BK42B	33	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10)(40)
BK42C	33	5516, KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10)(40)
BK42D	36	5517, KL-45, 23-55-1, 23-55-A, URB-004	" " A. (11)(33)
BK42E	43	KL-50E, 23-55-2, 23-55-E, URB-005	" " A. (15)(33)(77)
BK44BJ	42	23-55-1(4) 23-55-A(4) URB-004(4)	JFD Type B. (9)(39)
BK47B	33	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
BK49B	33	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
EK49C	33	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
BK49CJ	42	23-55-1(4) 23-55-A(4) URB-004(4)	" " B. (9)(39)
EK49D	36	5518, KL-45, 23-55-1, 23-55-A, URB-004	" " A. (11)(41)
BK49-D10	36	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (11)(41)
BK49E	43	KL-50E, 23-55-2, 23-55-E, URB-005	" " A. (15)(41)(77)
EK51DJ	21	23-55-1(4) 23-55-A(4) URB-004(4)	" " B. (8)(51)
BK52H	45	KL-50H, 23-55-3, 23-55-F, URB-006	" " B. (20)(37)
BK55B	33	5519, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(39)
BK55BJ	42	23-55-1(4) 23-55-A(4) URB-004(4)	" " B. (9)(39)
BK55C	33	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(39)
BK55D	36	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (11)(36)
BK55E	43	KL-50E, 23-55-2, 23-55-E, URB-005	" " B. (15)(36)(77)
BK55F	44	KL-50H, 23-55-3, 23-55-F, URB-006	" " B. (11)(46)
BK61B	33	KL-45, 60-92-1, 60-92-A, URB-007	" " B. (10)(24)
BK61C	33	KL-45, 60-92-1, 60-92-A, URB-007	" " B. (10)(24)
BK61D	36	KL-45, 60-92-1, 60-92-A, URB-007	" " B. (11)(44)
BK61E	43	KL-50E, 60-92-2, 60-92-E, URB-008	" " B. (15)(44)(77)
BK61H	33	KL-50H, 60-92-3, 60-92-F, URB-009	" " B. (20)(45)
BK61B	33	KL-45, 60-92-1, 60-92-A, URB-007	" " B. (10)(24)
BK67B	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(47)
BK67BJ	42	60-92-1(4) 60-92-A(4) URB-007(4)	" " B. (9)(47)
EK67C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(47)
BK67D	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(29)
BK80B	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(40)
BK86B	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(29)

Type	Base	Replacement Types				Numbers in circles refer to Notes pages 45 to 48.
BL17B	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	JFD Type A.	(10)	(39)	
BL17C	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	"	"	A. (10) (39)	
BL17D	36	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	"	"	A. (11) (36)	
BL23B	33	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (21)	
BL23C	33	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (21)	
BL23D	36	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (11) (41)	
BL24C	33	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (21)	
BL30B	33	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (17)	
BL30C	33	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (17)	
BL30D	36	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (11) (29)	
BL36B	33	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (32)	
BL36C	33	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (32)	
BL36D	36	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (11) (46)	
BL42B	33	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (40)	
BL42C	33	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (40)	
BL42D	36	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (11) (33)	
BL42F	44	KL-50H, 23-55-3, 23-55-F, URB-006	"	"	A. (11) (43)	
BL49B	33	KL-45, 23-55-1, 23-55-A, URB-001	"	"	B. (10) (23)	
BL49C	33	KL-45, 23-55-1, 23-55-A, URB-001	"	"	B. (10) (23)	
BL49D	36	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (11) (41)	
BL55B	33	KL-45, 23-55-1, 23-55-A, URB-001	JFD Type B.	(10)	(39)	
BL55C	33	KL-45, 23-55-1, 23-55-A, URB-001	"	"	B. (10) (39)	
BL55D	36	KL-45, 23-55-1, 23-55-A, URB-001	"	"	B. (11) (36)	
BL55F	44	KL-50H, 23-55-3, 23-55-F, URB-006	"	"	B. (11) (46)	
BL61B	33	KL-45, 60-92-1, 60-92-A, URB-007	"	"	B. (10) (21)	
BL61C	33	KL-45, 60-92-1, 60-92-A, URB-007	"	"	B. (10) (21)	
BL61D	36	KL-45, 60-92-1, 60-92-A, URB-007	"	"	B. (11) (41)	
BL67B	33	KL-75, 60-92-1, 60-92-A, URB-007	"	"	B. (10) (47)	
BL67C	33	KL-75, 60-92-1, 60-92-A, URB-007	"	"	B. (10) (47)	
BL67D	36	KL-75, 60-92-1, 60-92-A, URB-007	"	"	B. (11) (29)	
BM17B	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	JFD Type A.	(10)	(39)	
BM17C	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	"	"	A. (10) (39)	
BM17D	36	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	"	"	A. (11) (36)	
BM17E	43	KL-25E, 10-23-2, 10-23-E, URB-002	"	"	A. (15) (36) (77)	
BM23B	33	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (21)	
BM23C	33	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (21)	
BM23D	36	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (11) (41)	
BM23E	43	KL-25E, 23-55-2, 23-55-E, URB-005	"	"	A. (15) (41) (77)	
BM24C	33	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (21)	
BM29C	33	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (47)	
BM30B	33	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (47)	
BM30C	33	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (47)	
BM30D	36	KL-25, 23-55-1, 23-55-A, URB-001	"	"	A. (11) (29)	
BM36	33	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (32)	
BM36B	33	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (32)	
BM36C	33	5520, KL-45, 23-55-1, 23-55-A, URB-004	"	"	A. (10) (32)	
BM36D	36	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (11) (48)	
BM36E	43	KL-50E, 23-55-2, 23-55-E, URB-005	"	"	A. (15) (48) (77)	
BM42	33	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (40)	
BM42B	33	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (10) (40)	
BM42C	33	5521, KL-45, 23-55-1, 23-55-A, URB-004	"	"	A. (10) (40)	
BM42D	36	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (11) (33)	
BM42E	43	KL-50E, 23-55-2, 23-55-E, URB-005	"	"	A. (15) (33) (77)	
BM43B	33	KL-45, 23-55-1, 23-55-A, URB-001	JFD Type A.	(10)	(40)	
BM49A	28	KL-45, 23-55-1, 23-55-A, URB-001	"	"	B. (11) (56)	
BM49B	33	5522, KL-45, 23-55-1, 23-55-A, URB-004	"	"	B. (10) (23)	
BM49C	33	5523, KL-45, 23-55-1, 23-55-A, URB-004	"	"	B. (10) (23)	
BM49D	36	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (11) (41)	
BM49E	43	KL-50E, 23-55-2, 23-55-E, URB-005	"	"	A. (15) (41) (77)	
BM49F	44	KL-50H, 23-55-3, 23-55-F, URB-006	"	"	B. (11) (38)	
BM49G	44	KL-50H, 23-55-3, 23-55-F, URB-006	"	"	B. (11) (38)	
BM49H	45	KL-50H, 23-55-3, 23-55-F, URB-006	"	"	A. (20) (42)	
BM50B	33	KL-45, 23-55-1, 23-55-A, URB-001	"	"	B. (10) (23)	
BM50C	33	KL-45, 23-55-1, 23-55-A, URB-001	"	"	B. (10) (23)	
BM50D	36	KL-45, 23-55-1, 23-55-A, URB-001	"	"	A. (11) (41)	
BM55B	33	5524, KL-45, 23-55-1, 23-55-A, URB-004	"	"	B. (10) (39)	
BM55C	33	KL-45, 23-55-1, 23-55-A, URB-001	"	"	B. (10) (39)	
BM55D	36	KL-45, 23-55-1, 23-55-A, URB-001	"	"	B. (11) (36)	
BM55E	43	KL-50E, 23-55-2, 23-55-E, URB-005	"	"	B. (15) (36) (77)	
BM55F	44	KL-50H, 23-55-3, 23-55-F, URB-006	"	"	B. (11) (46)	
BM61B	33	KL-45, 60-92-1, 60-92-A, URB-007	"	"	B. (10) (21)	
BM61C	33	KL-45, 60-92-1, 60-92-A, URB-007	"	"	B. (10) (21)	
BM67B	33	KL-75, 60-92-1, 60-92-A, URB-007	"	"	B. (10) (47)	
BM67C	33	KL-75, 60-92-1, 60-92-A, URB-007	"	"	B. (10) (47)	

Base	Type	Replacement Types	JFD Type	Numbers in circles refer to Notes pages 15 to 48.
BM7LB	33	KL-75, 60-92-1, 60-92-A, URB-007	B.	(10)(32)
BM7LC	33	KL-75, 60-92-1, 60-92-A, URB-007	"	(10)(32)
BM80B	33	5525, KL-75, 60-92-1, 60-92-A, URB-007	"	(10)(40)
BM80C	33	KL-75, 60-92-1, 60-92-A, URB-007	"	(10)(40)
BM88B	33	KL-75, 60-92-1, 60-92-A, URB-007	"	(10)(29)
C1 *	66	13U8, CV1, U-RL200, U1, V-140		
C2 *	66	13U9, B13A, CV2, V70		
C-376 (376)	1	876		
C-386 (386)	1	886		
CL-610-10		5526		
CV 1 *	66	C1, U-RL200, U1, V-140		
CV 2 *	66	B13A, C2, V70		
D-30		D-35		
H553		KL-45		
J-438				
K6A	28		A.	(11)(70)
K6B	33		"	(10)(22)
K6BJ	42	K6B (4)	"	(9)(22)
K6C	33		"	(10)(22)
K6CJ	42	K6C (4)	"	(9)(22)
K6F	44		"	(11)(53)
K6S1	37		"	(10)(22)(81)
K6S2	37		"	(10)(22)(61)
K6S3	37			
K11A	28	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	"	(11)(74)
K11AJ	29	K11A (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4), 45-4001 (4)	"	(13)(74)
K11B	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	"	(10)(23)
K11B2	41	25B2		
K11BJ	42	K11B (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4), 45-4001 (4)	"	(9)(22)
K11C	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	"	(10)(23)
K11CJ	42	K11C (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4), 45-4001 (4)	"	(9)(22)
K11D	36	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	JFD Type	(11)(51)
K11DJ	21	K11D (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4), 45-4001 (4)	"	(8)(51)
K11E	43	KL-25E, 10-23-2, 10-23-E, URB-002	"	(15)(51)(77)
K11E1	33	KL-25E,	"	(15)(51)(76)
K11F	44	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	"	(11)(58)
K11G	44	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2		
K11H	45	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	"	(20)(52)
K11J	46	KL-25J, 10-23-3, 10-23-F, URB-003, 45-4001-2		
K11S1	37		"	(10)(23)(61)
K11S2	37		"	(10)(23)(51)
K11S3	37		"	(15)(51)(52)
K13J36	28	L9A (Octal), K49A		
K13J58				
K13J287				
K13J566				
K13J567				
K17A	28	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	JFD Type	(11)(22)
K17AJ	29	K17A (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4), 45-4001 (4)	"	(13)(22)
K17B	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	"	(10)(39)
K17BJ	42	K17B (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4), 45-4001 (4)	"	(9)(39)
K17C	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	"	(10)(39)
K17CJ	42	K17C (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4), 45-4001 (4)	"	(9)(39)
K17D	36	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	"	(11)(36)
K17DJ	21	K17D (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4), 45-4001 (4)	"	(8)(51)
K17E	43	KL-25E, 10-23-2, 10-23-E, URB-002	"	(15)(36)(77)
K17E1	33	KL-25E,	"	(15)(36)(76)
K17F	44	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	"	(11)(46)
K17H	45	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	"	(20)(37)
K17R				

Type	Base	Replacement Types	Numbers in circles refer to Notes pages 45 to 48.
K17S1	37		JFD Type A. (10) (39) (81)
K17S2	37		" " A. (10) (39) (81)
K17S3	37		" " A. (15) (36) (82)
K18A	28	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (11) (22)
K18B	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10) (39)
K18B2	41	25B2	
K18C	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10) (39)
K18D	36	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (14) (36)
K18E	43	KL-25E, 10-23-2, 10-23-E, URB-002	" " A. (15) (36) (77)
K18E1	33	KL-25E,	" " A. (15) (36) (78)
K18F	44	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	" " A. (14) (46)
K18G	44	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	
K18H	45	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	" " A. (20) (37)
K18J	46	KL-25J	
K18R			
K22A	28	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11) (76)
K22B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (24)
K22B2	41		
K22C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (24)
K22D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14) (44)
K22E	43	KL-25E, 23-55-2, 23-55-E, URB-005	" " A. (15) (44) (77)
K22E1	33	KL-25E	" " A. (15) (44) (78)
K22F	44	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (14) (31)
K22G	44	KL-25H, 23-55-3, 23-55-F, URB-006	
K22H	45	KL-25H, 23-55-3, 23-55-F, URB-006	JFD Type A. (20) (45)
K22J	46	KL-25J	
K23A	28	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11) (76)
K23AJ	29	K23A (4), KL-25J, 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " A. (13) (60)
K23B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (24)
K23BJ	42	K23B (4), KL-25 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " A. (9) (51)
K23C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (24)
K23CJ	42	K23C (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4), 45-4001 (4)	" " A. (9) (51)
K23D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14) (44)
K23DJ	21	K23D (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4)	" " A. (8) (44)
K23E	43	KL-25E, 23-55-2, 23-55-E, URB-005,	" " A. (15) (44) (77)
K23E1	33	KL-25E	" " A. (15) (44) (78)
K23F	44	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	" " A. (14) (31)
K23H	45	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	" " A. (20) (45)
K23S1	37		" " A. (10) (24) (81)
K23S2	37		" " A. (10) (24) (81)
K23S3	37		" " A. (15) (44) (82)
K24B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (24)
K24C	33	5527, KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (24)
K25B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (47)
K29A	28	KL-25, 23-55-1, 23-55-A, URB-004	JFD Type A. (11) (73)
K30A	28	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11) (73)
K30AJ	29	K30A (4), KL-25J, 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " A. (13) (39)
K30B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (47)
K30B2	41	25B2	" " A. (10) (47)
K30BJ	42	K30B (4), KL-25 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " A. (9) (47)
K30C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (47)
K30CJ	42	K30C (4), KL-25 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " A. (9) (47)
K30D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14) (29)
K30DJ	21	K30D (4), KL-25 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " A. (6) (48)
K30E	43	KL-25E, 23-55-2, 23-55-E, URB-005	" " A. (15) (29) (77)
K30E1	33	KL-25E,	" " A. (15) (29) (78)
K30E2	43		
K30F	44	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (14) (50)
K30G	44	KL-25H, 23-55-3, 23-55-F, URB-006	
K30H	45	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (20) (30)
K30J	46	KL-25J	
K30S1	37		JFD Type A. (10) (47) (81)
K30S2	37		" " A. (10) (47) (81)
K30S3	37		" " A. (15) (29) (82)
K32D	34	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14) (29)
K33H	45	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (20) (30)
K34A	28	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11) (75)
K34B (UX)	11	KX36B, 4P-45, 23-55-1 (2), 23-55-A (2), UX23-55-A	" " C. (17) (73)
K34B (Octal)	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (32)
K34C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (32)
K34D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14) (29)
K34E	43	KL-25E, 23-55-2, 23-55-E, URB-005	" " A. (15) (29) (77)

Type	Base	Replacement Types	Numbers in circles refer to Notes pages 45 to 48.
K34E1	33	KL-25E	JFD Type A. (15)(29)(78)
K36A	28	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (11)(75)
K36AJ	29	K36A (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " B. (13)(21)
K36B	33	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10)(32)
K36B2	41	50AB	
K36BJ	42	K36B (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " A. (9)(44)
K36C	33	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10)(32)
K36CJ	42	K36C (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " A. (9)(44)
K36D	36	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (14)(48)
K36DJ	21	K36D (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " A. (8)(48)
K36E	43	KL-50E, 23-55-2, 23-55-E, URB-005	" " A. (15)(48)(77)
K36E1	33	KL-50E	" " A. (15)(48)(76)
K36F	44	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (14)(35)
K36G	44	KL-50H, 23-55-3, 23-55-F, URB-006	
K36H (K36HA)	45	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (20)(49)
K36J	46	KL-50J	
K36S1	37		" " A. (10)(32)(81)
K36S2	37		" " A. (10)(32)(81)
K36S3	37		" " A. (15)(48)(82)
K38A	28	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (11)(75)
K38B	33	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10)(32)
K38B2	41	5528, 50AB	
K38C	33	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10)(32)
K38D	36	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (14)(48)
K38E	43	KL-50E, 23-55-2, 23-55-E, URB-005	" " A. (15)(48)(77)
K38E1	33	KL-50E	JFD Type A. (15)(48)(78)
K38F	44	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (14)(35)
K38H	45	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (20)(49)
KL0B	33	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10)(40)
KL0C	33	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10)(40)
KL0D	36	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (14)(33)
KL0F	44	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (14)(35)
KL0X	11	4P-45	" " C. (17)(75)
KL0Y	12	4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C. (17)(75)
KL2	26		
KL2A	28	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (11)(72)
KL2AJ	29	KL2A (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " A. (13)(47)
KL2B (UX)	11	KX42B, 4P-45, 23-55-1 (2), 23-55-A (2), UX23-55-A	" " C. (17)(75)
KL2B (Octal)	33	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10)(40)
KL2B2	41	50AB, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
KL2B-K4	33		
KL2BJ	42	KL2B (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " B. (9)(22)
KL2CG (UX)	11	KX42C, 4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2)	" " C. (17)(75)
KL2C (Octal)	33	5530, 5516, KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10)(40)
KL2CS4			
KL2CJ	42	KL2C (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " B. (9)(22)
KL2D	36	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (14)(33)
KL2DJ	21	KL2D (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " B. (8)(51)
KL2E	43	5531, KL-50E, 23-55-2, 23-55-E, URB-005	JFD Type A. (15)(33)(77)
KL2E1	33	KL-50E	" " A. (15)(33)(78)
KL2F	44	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (14)(43)
KL2G	44	KL-50H, 23-55-3, 23-55-F, URB-006	
KL2H	45	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (20)(34)
KL2J	46	KL-50J	
KL2S1	37	KL-50S1	" " A. (10)(40)(61)
KL2S2	37	KL-50S2	" " A. (10)(40)(61)
KL2S3	37	KL-50S3	" " A. (15)(33)(62)
KL3 A	28	KL-45	" " B. (11)(72)
KL3B	33	5532, KL-45	" " A. (10)(40)
KL3B2	33		" " B. (10)(23)
KL3F	44	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (14)(43)
KL3H	45	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (20)(34)
KL9	26		" " C. (17)(75)
KL9A	28	49A, KL3J36, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (11)(56)
KL9AJ	29	KL9A (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " B. (13)(56)
KL9B (UX)	11	KX49B, 4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C. (17)(72)
KL9B (Octal)	33	5533, KL-45, 23-55-1, 23-55-A, URB-004	JFD Type B. (10)(23)
KL9B2	41	50AB	
KL9BJ	42	KL9B (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " B. (9)(39)
KL9C (UX)	11	KX49C, 4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C. (17)(72)
KL9C (Octal)	33	5534, KL-45, 23-55-1, 23-55-A, URB-004	JFD Type B. (10)(23)
KL9CB	33	ML9B, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
KL9CJ	42	KL9C (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " B. (9)(39)
KL9D	36	5518, KL-45, 23-55-1, 23-55-A, URB-004	" " A. (14)(41)

Type	Base	Replacement Types	Numbers in circles refer to Notes pages l5 to l8.
Kl9D-10	36	KL-l5	
Kl9DJ	21	Kl9D (u), KL-l5 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	JFD Type B. (8) 51
Kl9E	l3	KL-50E, 23-55-2, 23-55-E, URB-005	" " A. (15) (11) 77
Kl9El	33	KL-50E,	" " A. (15) (11) 78
Kl9F	ll	KL-50H, 23-55-3, 23-55-F, URB-006	" " B. (11) 38
Kl9G	ll	KL-50H, 23-55-3, 23-55-F, URB-006	
Kl9H	l5	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (20) 42
Kl9J	l6	KL-50J	
Kl9Sl	37	KL-50S1	" " B. (10) 23 81
Kl9S2	37	KL-50S2	" " B. (10) 23 81
Kl9S3	37	KL-50S3	" " A. (15) (11) 82
Kl9X	11	lP-l5, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C. (18) 73
Kl9Y	11	lP-l5, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " B. (12) 56
K50A	28	KL-l5, 23-55-1, 23-55-A, URB-004	" " B. (11) 56
K50B	33	KL-l5, 23-55-1, 23-55-A, URB-004	" " B. (10) 23
K50C	33	KL-l5, 23-55-1, 23-55-A, URB-004	" " B. (10) 23
K50H	l5	KL-50H, 23-55-3, 23-55-F, URB-006	" " B. (20) 37
K52H	l5	KL-50H, 23-55-3, 23-55-F, URB-006	" " B. (20) 37
K54B	33	KL-l5, 23-55-1, 23-55-A, URB-004	" " B. (10) 39
K55	31		
K55A	28	KL-l5, 23-55-1, 23-55-A, URB-004	" " B. (11) 54
K55AJ	29	K55A (u), KL-l5 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " B. (13) 62
K55B	33	5535, 5519, W-l6l6, KL-l5, 23-55-1, 23-55-A, URB-004	" " B. (16) 39
K55B2	ll	50AB	
K55BJ	l2	K55B (u), KL-l5 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	JFD Type B. (9) 39
K55C	33	5536, KL-l5, 23-55-1, 23-55-A, URB-004	" " B. (10) 39
K55CJ	l2	K55C (u), KL-l5 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " B. (9) 39
K55CP	38	5529	
K55CPR	38	K55CP	
K55D	36	KL-l5, 23-55-1, 23-55-A, URB-004	" " B. (11) 36
K55DJ	21	K55D (u), KL-l5 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " B. (8) 44
K55E	l3	KL-50E, 23-55-E, 23-55-2, URB-005	" " B. (15) 36 77
K55El	33	KL-50E	" " B. (15) 36 78
K55F	ll	KL-50H, 23-55-3, 23-55-F, URB-006	" " B. (11) 46
K55G	ll	KL-50H, 23-55-3, 23-55-F, URB-006	
K55H	l5	KL-50H, 23-55-3, 23-55-F, URB-006	" " B. (20) 37
K55J	l6	KL-50J	
K55S1	37	KL-50S1	" " B. (10) 39 81
K55S2	37	KL-50S2	" " B. (10) 39 81
K55S3	37	KL-50S3	" " B. (15) 36 82
K60C	33	KL-l5, 60-92-1, 60-92-A, URB-007	" " B. (10) 24
K60A	28	KL-l5, 60-92-1, 60-92-A, URB-007	" " B. (11) 60
K61AJ	29	K61A (u), KL-l5 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " B. (13) 60
K61B	33	KL-l5, 60-92-1, 60-92-A, URB-007	" " B. (10) 24
K61BJ	l2	K61B (u), KL-l5 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	JFD Type A. (9) 41
K61C	33	KL-l5, 60-92-1, 60-92-A, URB-007	" " B. (10) 24
K61CJ	l2	K61C (u), KL-l5 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " A. (9) 41
K61D	36	KL-l5, 60-92-1, 60-92-A, URB-007	" " B. (11) 44
K61DJ	21	K61D (u), KL-l5 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " B. (6) 44
K61E	l3	KL-50E, 60-92-2, 60-92-E, URB-008	" " B. (15) 44 77
K61El	33	KL-50E	" " B. (15) 44 78
K61F	ll	KL-50H, 60-92-3, 60-92-F, URB-009	" " B. (11) 31
K61H	l5	KL-50H, 60-92-3, 60-92-F, URB-009	" " B. (20) 45
K61S1	37	KL-50S1	" " B. (10) 24 81
K61S2	37	KL-50S2	" " B. (10) 24 81
K61S3	37	KL-50S3	" " B. (15) 44 82
K62B	33	KL-l5, 60-92-1, 60-92-A, URB-007	" " B. (10) 24
K67A	28	KL-l5, 60-92-1, 60-92-A, URB-007	" " B. (11) 23
K67AJ	29	K67A (u), KL-l5 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " B. (13) 59
K67B	33	5537, KL-l5, 60-92-1, 60-92-A, URB-007	" " B. (10) 47
K67B2	ll	50AB	
K67BJ	l2	K67B (u), 60-92-1 (u), 60-92-A (u), KL-l5 (u), URB-007 (u)	" " B. (9) 47
K67C	33	KL-l5, 60-92-1, 60-92-A, URB-007	JFD Type B. (10) 47
K67CJ	l2	K67C (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " B. (9) 47
K67D	36	KL-l5, 60-92-1, 60-92-A, URB-007	" " B. (11) 29
K67DJ	21	K67D (u), KL-l5 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " B. (8) 44
K67E	l3	KL-50E, 60-92-2, 60-92-E, URB-008	" " B. (15) 29 77
K67El	33	KL-50E	" " B. (15) 29 78
K67F	ll	KL-50H, 60-92-3, 60-92-F, URB-009	" " B. (11) 50
K67G	ll	KL-50H, 60-92-3, 60-92-F, URB-009	
K67H	l5	KL-50H, 60-92-3, 60-92-F, URB-009	" " B. (20) 30
K67J	l6	KL-50J	
K67S1	37	KL-50S1	" " B. (10) 47 81
K67S2	37	KL-50S2	" " B. (10) 47 81

Type	Base	Replacement Types	Numbers in circles refer to Notes pages L5 to L8.
K67S3	37	KL-50S3	JFD Type B. (15)(29)(82)
K70A	28	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(57)
K70B	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(47)
K70C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(47)
K70D	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(29)
K72A	28	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(57)
K72B	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(32)
K72C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(32)
K72D	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(45)
K73C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(32)
K7LA	28	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(57)
K7LAJ	29	K7LA (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " B. (13)(57)
K7LB	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(32)
K7LB2	L1	50AB	
K7LB3	L2	K7LB (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " B. (9)(47)
K7LC	33	5538, KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(32)
K7LCJ	L2	K7LC (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " B. (9)(47)
K7LD	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(48)
K7LDJ	21	K7LD (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " B. (8)(48)
K7LE	L3	KL-50E, 60-92-2, 60-92-E, URB-008	" " B. (15)(48)(77)
K7LE1	33	KL-50E	" " B. (15)(48)(78)
K7LF	L4	KL-50H, 60-92-3, 60-92-F, URB-009	" " B. (14)(35)
K7LG	L4	KL-50H, 60-92-3, 60-92-F, URB-009	
K7LH	L5	KL-50H, 60-92-3, 60-92-F, URB-009	" " B. (20)(49)
K7LJ	L6	KL-50J	
K7LS1	37	KL-50S1	JFD Type B. (10)(32)(81)
K7LS2	37	KL-50S2	" " B. (10)(32)(81)
K7LS3	37	KL-50S3	" " B. (15)(48)(82)
K75A	28	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(57)
K75B	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(32)
K75B2	L1		
K75C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(32)
K75CC	33	KL-75	" " B. (10)(32)
K76B	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(32)
K76C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(40)
K77-CC	33	KL-75	" " B. (10)(40)
K78A	28	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(57)
K78B (UX)	11	KX78B, 60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C. (17)(39)
K78B (Octal)	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(40)
K78C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(40)
K78D	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(48)
K78F	L4	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (14)(35)
K78G	L4		
K78H	L5	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (20)(34)
K79A	28	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(57)
K79B (UX)	11		" " C. (17)(39)
K79B (Octal)	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(40)
K79C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(40)
K79D	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(33)
K80A	28	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(55)
K80AJ	29	K80A (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " B. (13)(47)
K80B	33	5539, KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(40)
K80BJ	L2	K80B (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " B. (9)(40)
K80B2	L1	50AB	
K80C	33	KL-75, 60-92-1, 60-92-A, URB-007	JFD Type B. (10)(40)
K80CJ	L2	K80C (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " B. (9)(40)
K80D	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(33)
K80DJ	21	K80D (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " B. (8)(48)
K80E	L3	KL-50E, 60-92-2, 60-92-E, URB-008	" " B. (15)(33)(77)
K80E1	33	KL-50E	" " B. (15)(33)(78)
K80F	L4	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (14)(35)
K80G	L4	KL-75H, 60-92-3, 60-92-F, URB-009	
K80H	L5	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (20)(34)
K80J	L6	KL-75J	
K80S1	37	KL-50S1	" " B. (10)(40)(81)
K80S2	37	KL-50S2	" " B. (10)(40)(81)
K80S3	37	KL-50S3	" " B. (15)(33)(82)
K82A	28	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(47)
K82B	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(40)
K82C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(40)
K82D	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(33)
K82F	L4	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (14)(35)
K82H	L5	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (20)(34)

Type	Base	Replacement Types	Numbers in circles refer to Notes pages 45 to 48.
K84H	45	KL-75H, 60-92-3, 60-92-F, URB-009	JFD Type B. (20)(34)
K86A	28	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(47)
K86AJ	29	K86A (4), KL-75 (4), 60-92-1 (4), 60-92-A (4), URB-007 (4)	" " B. (13)(44)
K86B	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(29)
K86BJ	42	K86B (4), KL-75 (4), 60-92-1 (4), 60-92-A (4), URB-007 (4)	" " B. (9)(48)
K86C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(29)
K86CJ	42	K86C (4), KL-75 (4), 60-92-1 (4), 60-92-A (4), URB-007 (4)	" " B. (9)(48)
K86D	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(41)
K86DJ	21	K86D (4), KL-75 (4), 60-92-1 (4), 60-92-A (4), URB-007 (4)	" " B. (8)(41)
K86E	43	KL-75E, 60-92-2, 60-92-E, URB-008	" " B. (15)(41)(77)
K86E1	33	KL-75E	" " B. (15)(41)(78)
K86F	44	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (14)(43)
K86H	45	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (20)(42)
K86S1	37	KL-50S1	" " B. (10)(29)(81)
K86S2	37	KL-50S2	" " B. (10)(29)(81)
K86S3	37	KL-50S3	" " B. (15)(41)(82)
K87A	28	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(47)
K87B	33	5540, KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(29)
K87B2	41	75B2	
K87C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(29)
K87D	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (14)(41)
K87E	43	KL-75E, 60-92-2, 60-92-E, URB-008	" " B. (15)(41)(77)
K87E1	33	KL-75E	" " B. (15)(41)(78)
K87F	44	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (14)(43)
K87G	44	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (14)(43)
K87H	45	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (20)(42)
K87J	46	KL-75J	
K87S1	37	KL-75S1	JFD Type B. (10)(25)(81)
F87S2	37	KL-75S2	" " B. (10)(25)(81)
K87S3	37	KL-75S3	" " B. (15)(41)(82)
K90A	28	KL-75, 60-92-1, 60-92-A, URB-007	" " F. (11)(32)
K90AJ	29	K90A (4), KL-75 (4), 60-92-1 (4), 60-92-A (4), URB-007 (4)	" " B. (13)(40)
K90B	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(25)
K90BJ	42	K90B (4), KL-75 (4), 60-92-1 (4), 60-92-A (4), URB-007 (4)	" " B. (9)(48)
K90C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(25)
K90CJ	42	K90C (4), KL-75 (4), 60-92-1 (4), 60-92-A (4), URB-007 (4)	" " B. (9)(48)
K90D	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (14)(41)
K90DJ	21	K90D (4), KL-75 (4), 60-92-1 (4), 60-92-A (4), URB-007 (4)	" " B. (8)(41)
K90F	44	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (14)(28)
K90G	44	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (11)(55)
K90H	45	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (20)(27)
K92A	28	5541, KL-75, 92-105-1, 92-105-A	" " B. (11)(32)
K92B	33	KL-75, 92-105-1, 92-105-A	" " B. (10)(25)
K92B2	41	75B2	
K92C	33	KL-75, 92-105-1, 92-105-A	" " B. (10)(25)
K92D	36	KL-75, 92-105-1, 92-105-A	" " B. (14)(41)
K92E	43	KL-75E, 60-92-2, 60-92-E, URB-008	" " B. (15)(41)(77)
K92E1	33	KL-75E	" " B. (15)(41)(78)
K92F	44	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (14)(28)
K92G	44	KL-75H, 60-92-3, 60-92-F, URB-009	
K92H	45	KL-75H, 60-92-3, 60-92-F, URB-009	B. (20)(27)
K92J	46	KL-75J	
K92S1	37	KL-50S1	" " B. (10)(25)(81)
K92S2	37	KL-50S2	" " B. (10)(25)(81)
K94A	28	KL-75, 92-105-1, 92-105-A	" " B. (11)(32)
K94B	33	KL-75, 92-105-1, 92-105-A	" " B. (10)(25)
K94C	33	KL-75, 92-105-1, 92-105-A	" " B. (10)(25)
K94D	36	KL-75, 92-105-1, 92-105-A	" " B. (14)(41)
K94F	44	KL-75H	" " B. (14)(28)
K94H	45	KL-75H	" " B. (20)(27)
K95A	28	KL-75, 92-105-1, 92-105-A	" " B. (11)(32)
K95B	33	5542, KL-75, 92-105-1, 92-105-A	" " B. (10)(25)
K95B2			" " B. (19)(41)
K95C	33	KL-75, 92-105-1, 92-105-A	" " B. (10)(25)
K95D	36	KL-75, 92-105-1, 92-105-A	" " B. (14)(41)
K95F	44	KL-75H	" " B. (14)(28)
K95H	45	KL-75H	" " B. (20)(27)
K98A	28	KL-75, 92-105-1, 92-105-A	" " B. (11)(58)
K98AJ	29	K98A (4), KL-75 (4), 92-105-1 (4), 92-105-A (4)	" " B. (13)(48)
K98B	33	KL-75, 92-105-1, 92-105-A	" " B. (10)(33)
K98BJ	42	K98B (4), KL-75 (4), 92-105-1 (4), 92-105-A (4)	" " B. (9)(41)
K98C	33	KL-75, 92-105-1, 92-105-A	" " B. (10)(33)
K98CJ	42	K98C (4), KL-75 (4), 92-105-1 (4), 92-105-A (4)	" " B. (9)(41)
K98D	36	KL-75, 92-105-1, 92-105-A	" " B. (14)(26)

Type	Base	Replacement Types	Numbers in circles refer to Notes pages 45 to 48.
K98DJ	21	K98D(4), KL-75(4), 92-105-1(4), 92-105-A(4)	JFD Type
K98E	43		" " B. 15 26 77
K98E1	33		" " B. 15 26 78
K98F	44	KL-75H	" " B. 11 28
K98H	45	KL-75H	" " B. 20 27
K98S1	37	KL-50S1	" " B. 10 33 81
K98S2	37	KL-50S2	" " B. 10 33 81
K98S3	37	KL-50S3	" " B. 15 26 82
K99A	28	KL-75, 92-105-1, 92-105-A	" " B. 11 58
K99B	33	KL-75, 92-105-1, 92-105-A	" " B. 10 33
K99B2	41	75B2	
K99C	33	KL-75, 92-105-1, 92-105-A	" " B. 10 33
K99D	36	KL-75, 92-105-1, 92-105-A	" " B. 11 26
K99E	43	KL-75E	" " B. 15 26 77
K99E1	33	KL-75E	" " B. 15 26 78
K99F	44	KL-50H	" " B. 11 28
K99G	44	KL-50H	
K99H	45	KL-75H	" " B. 20 27
K99J	46	KL-75J	
K99S1	37	KL-75S1	" " B. 10 33 81
K99S2	37	KL-75S2	" " B. 10 33 81
K99S3	37	KL-75S3	" " B. 15 26 82
K105A	28	92-105-1, 92-105-A	" " B. 11 25
K105B	33	92-105-1, 92-105-A	JFD Type B. 10 41
K105C	33	92-105-1, 92-105-A	" " B. 10 41
K105D	36	92-105-1, 92-105-A	" " B. 11 26
K105S1	37		" " B. 10 41 81
K105S2	37		" " B. 10 41 81
K105S3	37		
K106A	28	KL-75, 92-105-1, 92-105-A	" " B. 11 25
K106B	33	KL-75, 92-105-1, 92-105-A	" " B. 10 41
K150A	28		" " B. 11 74
K1336		KL-45	
K-83747-1	33	BK42B, KL-45, 23-55-1, 23-55-A, URB-004	" " A. 10 23
K-83747-2		KL-45, 23-55-1, 23-55-A, URB-004	" " A. 10 32
K-83747-3	42	BK49BJ, KL-45(4), 23-55-1(4), 23-55-A(4), URB-004(4)	" " B. 9 39
KX23A	6	X23A, 23-55-1(1), UX23-55-A, 23-55-A(1), URB-004(1)	" " C. 18 70
KX23B	11	60R30, 23-55-1(2), UX23-55-A, 23-55-A(2), URB-004(2)	" " C. 17 71
KX23C	11	23-55-1(2), UX23-55-A, 23-55-A(2), URB-004(2)	" " C. 17 71
KX23D	12	23-55-1(3), UX23-55-A, 23-55-A(3), URB-004(3)	" " C. 67
KX23R	6	878R48	" " C. 18 74
KX27A	6	23-55-1(1), UX23-55-A, 23-55-A(1), URB-004(1)	JFD Type C. 18 74
KX30A	6	X30A, 23-55-1(1), UX23-55-A, 23-55-A(1), URB-004(1)	" " C. 18 74
KX30B	11	23-55-1(2), UX23-55-A, 23-55-A(2), URB-004(2)	" " C. 17 76
KX30C	11	23-55-1(2), UX23-55-A, 23-55-A(2), URB-004(2)	" " C. 17 76
KX30D	12	23-55-1(3), UX23-55-A, 23-55-A(3), URB-004(3)	" " C. 64
KX36A	6	4F-45, 23-55-1(1), UX23-55-A, 23-55-A(1), URB-004(1)	" " C. 18 71
KX36B	11	4F-45, 23-55-1(2), UX23-55-A, 23-55-A(2), URB-004(2)	" " C. 17 73
KX36C	11	4F-45, 23-55-1(2), UX23-55-A, 23-55-A(2), URB-004(2)	" " C. 17 73
KX36D	12	4F-45, 23-55-1(3), UX23-55-A, 23-55-A(3), URB-004(3)	" " C. 69
KX42A	6	4F-45, 23-55-1(1), UX23-55-A, 23-55-A(1), URB-004(1)	" " C. 18 72
KX42B	11	4F-45, 23-55-1(2), UX23-55-A, 23-55-A(2), URB-004(2)	" " C. 17 75
KX42C	11	4F-45, 23-55-1(2), UX23-55-A, 23-55-A(2), URB-004(2)	" " C. 17 75
KX42D	12	4F-45, 23-55-1(3), UX23-55-A, 23-55-A(3), URB-004(3)	" " C. 66
KX45A	6	4F-45, 23-55-1(1), UX23-55-A, 23-55-A(1), URB-004(1)	" " C. 18 73
KX46A	6	4F-45, 23-55-1(1), UX23-55-A, 23-55-A(1), URB-004(1)	" " C. 18 73
KX49A	6	4F-45, 23-55-1(1), UX23-55-A, 23-55-A(1), URB-004(1)	" " C. 18 72
KX49B	11	4F-45, 23-55-1(2), UX23-55-A, 23-55-A(2), URB-004(2)	" " C. 17 72
KX49C	11	4F-45, 23-55-1(2), UX23-55-A, 23-55-A(2), URB-004(2)	" " C. 17 72
KX49D	12	4F-45, 23-55-1(3), UX23-55-A, 23-55-A(3), URB-004(3)	" " C. 68
KX55A	6	4F-45, 23-55-1(1), UX23-55-A, 23-55-A(1), URB-004(1)	" " C. 18 75
KX55B	11	4F-45, 23-55-1(2), UX23-55-A, 23-55-A(2), URB-004(2)	" " C. 17 66
KX55C	11	4F-45, 23-55-1(2), UX23-55-A, 23-55-A(2), URB-004(2)	" " C. 17 66
KX55D	12	4F-45, 23-55-1(3), UX23-55-A, 23-55-A(3), URB-004(3)	" " C. 65
KX61A	6	4F-45, 60-92-1(1), UX60-92-A, 60-92-A(1), URB-007(1)	" " C. 18 69
KX61B	11	4F-45, 60-92-1(2), UX60-92-A, 60-92-A(2), URB-007(2)	" " C. 17 68
KX61C	11	4F-45, 60-92-1(2), UX60-92-A, 60-92-A(2), URB-007(2)	" " C. 17 68
KX61D	12	4F-45, 60-92-1(3), UX60-92-A, 60-92-A(3), URB-007(3)	" " C. 39
KX67A	6	4F-45, 60-92-1(1), UX60-92-A, 60-92-A(1), URB-007(1)	" " C. 18 66
KX67B	11	4F-45, 60-92-1(2), UX60-92-A, 60-92-A(2), URB-007(2)	" " C. 17 22
KX67C	11	4F-45, 60-92-1(2), UX60-92-A, 60-92-A(2), URB-007(2)	" " C. 17 22
KX67D	11	4F-45, 60-92-1(3), UX60-92-A, 60-92-A(3), URB-007(3)	" " C. 24
KX74A	6	60-92-1(1), UX60-92-A, 60-92-A(1), URB-007(1)	" " C. 18 22

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type
KX74B	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	C. (17) (23)
KX74C	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C. (17) (23)
KX74D	12	60-92-1 (3), UX60-92-A, 60-92-A (3), URB-007 (3)	" " C. (17) (23)
KX78B	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C. (17) (39)
KX80A	6	60-92-1 (1), UX60-92-A, 60-92-A (1), URB-007 (1)	" " C. (18) (23)
KX80B	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C. (17) (39)
KX80C	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C. (17) (39)
KX80D	12	60-92-1 (3), UX60-92-A, 60-92-A (3), URB-007 (3)	" " C. (17) (39)
KX86A	6	60-92-1 (1), UX60-92-A, 60-92-A (1), URB-007 (1)	" " C. (18) (39)
KX86B	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C. (17) (24)
KX86C	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C. (17) (24)
KX86D	12	60-92-1 (3), UX60-92-A, 60-92-A (3), URB-007 (3)	" " C. (17) (24)
KX92A	6	92-105-1 (1), UX92-105-A, 92-105-A (1)	" " C. (17) (47)
KX92B	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" " C. (17) (47)
KX92C	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" " C. (17) (47)
KX92D	12	92-105-1 (3), UX92-105-A, 92-105-A (3)	" " C. (17) (47)
KX98A	6	92-105-1 (1), UX92-105-A, 92-105-A (1)	" " C. (16) (24)
KX98B	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" " C. (17) (32)
KX98C	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" " C. (17) (32)
KX98D	12	92-105-1 (3), UX92-105-A, 92-105-A (3)	" " C. (17) (32)
KX105A	6	92-105-1 (1), UX92-105-A, 92-105-A (1)	" " C. (18) (47)
KX105B	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" " C. (17) (40)
KX105C	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" " C. (17) (40)
KX105D	12	92-105-1 (3), UX92-105-A, 92-105-A (3)	" " C. (17) (40)
KY6B	40		JFD Type A. (19) (62)
KY6C	40		" " A. (19) (62)
KY6D	41		" " A. (16) (62)
KY11A	39		" " A. (12) (56)
KY11B	40		" " A. (19) (59)
KY11C	40		" " A. (19) (59)
KY11D	41		" " A. (16) (59)
KY17A	39		" " A. (12) (62)
KY17B	40		" " A. (19) (59)
KY17C	40		" " A. (19) (59)
KY17D	41		" " A. (16) (59)
KY23A	39		" " A. (12) (60)
KY23B	40		" " A. (19) (59)
KY23C	40		" " A. (19) (59)
KY23D	41		" " A. (16) (59)
KY30A	39		" " A. (12) (59)
KY30B	40		" " A. (19) (61)
KY30C	40		" " A. (19) (61)
KY30D	41		" " A. (16) (61)
KY36A	39	50AB	" " B. (12) (21)
KY36B	40	50AB	" " A. (19) (61)
KY36C	40	50AB	" " A. (19) (61)
KY36D	41		" " A. (16) (61)
KY42A	39	50AB, 42A1	" " A. (12) (61)
KY42B	40	50AB, 42A2	" " E. (19) (62)
KY42C	40	50AB, 42B2	" " B. (19) (62)
KY42D	41	5543	" " B. (16) (62)
KY49A	39	50AB, 49A1	JFD Type B. (12) (56)
KY49B	40	50AB, 49A2	" " A. (19) (58)
KY49C	40	50AB, 49B2	" " A. (19) (58)
KY49D	41		" " A. (16) (58)
KY55A	39	50AB, 55A1	" " B. (12) (62)
KY55B	40	50AB, 55A2	" " B. (19) (59)
KY55C	40	50AB, 55B2	" " B. (19) (59)
KY55D	41		" " B. (16) (59)
KY61A	39	50AB	" " B. (12) (60)
KY61B	40	50AB	" " B. (19) (59)
KY61C	40	50AB	" " B. (19) (59)
KY61D	41		" " B. (16) (59)
KY67A	39	50AB	" " B. (12) (59)
KY67B	40	50AB	" " B. (19) (59)
KY67C	40	50AB	" " B. (19) (59)
KY67D	41		" " B. (16) (59)
KY74A	39		" " B. (12) (57)
KY74B	40		" " B. (19) (61)
KY74C	40		" " B. (19) (61)
KY74D	41		" " B. (16) (61)
KY80A	39		" " B. (12) (61)
KY80B	40		" " B. (19) (61)

Type	Base	Replacement Types	Numbers in circles refer to Notes pages L5 to L8.
KY80C	L0		JFD Type B. (19)(61)
KY80D	L1		" " B. (16)(61)
KY86A	39		" " B. (12)(61)
KY86B	L0		" " B. (19)(58)
KY86C	L0		" " B. (19)(58)
KY86D	L1		" " B. (16)(58)
KY90A	39		" " B. (12)(58)
KY90B	L0		" " B. (19)(58)
KY90C	L0		" " B. (19)(58)
KY90D	L1		" " B. (16)(58)
KY92C	L0		" " B. (19)(58)
KY98A	39		" " B. (12)(58)
KZ6B	2L		JFD Type A. (10)(22)(80)
KZ6C	2L		" " A. (10)(22)(80)
KZ11B	2L		" " A. (10)(23)(80)
KZ11C	2L		" " A. (10)(23)(80)
KZ17A	22		" " A. (11)(22)(79)
KZ17B	2L		" " A. (10)(39)(80)
KZ17C	2L		" " A. (10)(39)(80)
KZ23B	2L		" " A. (10)(24)(80)
KZ23C	2L		" " A. (10)(24)(80)
KZ30B	2L		" " A. (10)(47)(80)
KZ30C	2L		" " A. (10)(47)(80)
KZ36B	2L		" " A. (10)(32)(80)
KZ36C	2L		" " A. (10)(32)(80)
KZ42B	2L	KL-50S1	" " A. (10)(40)(80)
KZ42C	2L	KL-50S2	" " A. (10)(40)(80)
KZ49A	22	KL-50S1, 50MG	" " B. (11)(56)(79)
KZ49B	2L	KL-50S1, 50B2MG, 5508	" " B. (10)(23)(80)
KZ49C	2L	KL-50S2, 50A2MG, 5507	" " B. (10)(23)(80)
KZ55A	22	KL-50S1	" " B. (11)(54)(79)
KZ55B	2L	KL-50S1	" " B. (10)(39)(80)
KZ55C	2L	KL-50S1	" " B. (10)(39)(80)
KZ61B	2L	KL-50S1	" " B. (10)(24)(80)
KZ61C	2L	KL-50S2	" " B. (10)(24)(80)
KZ67B	2L	KL-50S1	" " B. (10)(47)(80)
KZ67C	2L	KL-50S2	" " B. (10)(47)(80)
KZ68			" " A. (10)(22)(80)
KZ74A	22		" " B. (11)(57)(79)
KZ74B	2L		" " B. (10)(32)(80)
KZ74C	2L		" " B. (10)(32)(80)
KZ80A	22		JFD Type B. (11)(55)(79)
KZ80B	2L		" " B. (10)(40)(80)
KZ80C	2L		" " B. (10)(40)(80)
KZ86A	22		" " B. (11)(47)(79)
KZ86B	2L		" " B. (10)(29)(80)
KZ86C	2L		" " B. (10)(29)(80)
KZ92A	22		" " B. (11)(32)(79)
KZ92B	2L		" " B. (10)(25)(80)
KZ92C	2L		" " B. (10)(25)(80)
KZ98B	2L		" " B. (10)(33)(80)
KZ98C	2L		" " B. (10)(33)(80)
KZ105A	22		" " B. (11)(25)(79)
KZ105B	2L		" " B. (10)(41)(80)
KZ105C	2L		" " B. (10)(41)(80)
L6A	28		JFD Type A. (11)(70)
L6B	33		" " A. (10)(22)
L6BJ	L2	L6B (L)	" " A. (9)(22)
L6C	33		" " A. (10)(22)
L6CJ	L2	L6C (L)	" " A. (9)(22)
L6F	L4		" " A. (11)(53)
L6S1	37		" " A. (10)(22)(81)
L6S2	37		" " A. (10)(22)(81)
L10C	33	KL-25, 10-23-1, 10-23-A, URB-001, L5-L001	" " A. (10)(23)
L11A	28	KL-25, 10-23-1, 10-23-A, URB-001, L5-L001	" " A. (11)(74)
L11AJ	29	L11A (L), KL-25 (L), 10-23-1 (L), 10-23-A (L), URB-001 (L)	" " A. (13)(74)
L11B	33	KL-25, 10-23-1, 10-23-A, URB-001, L5-L001	" " A. (10)(23)
L11B2	L1	25B2	
L11BJ	L2	L11B (L), KL-25 (L), 10-23-1 (L), 10-23-A (L), URB-001 (L)	" " A. (9)(22)
L11C	33	KL-25, 10-23-1, 10-23-A, URB-001, L5-L001	" " A. (10)(23)
L11CJ	L2	L11C (L), KL-25 (L), 10-23-1 (L), 10-23-A (L), URB-001 (L)	" " A. (9)(22)
L11D	36	KL-25, 10-23-1, 10-23-A, URB-001, L5-L001	" " A. (11)(51)

Type	Base	Replacement Types	Numbers in circles refer to Notes pages 45 to 48.
L11DJ	21	L11D (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4)	JFD Type A. (8) (51)
L11E	43	KL-25E, 10-23-2, 10-23-E, URB-002	" " A. (15) (51) (77)
L11EI	33	KL-25E	" " A. (15) (51) (78)
L11F	44	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	" " A. (14) (38)
L11G	44	KL-25H 10-23-3, 10-23-F, URB-003, 45-4001-2	" " " "
L11H	45	KL-25H	" " A. (20) (52)
L11J	46	KL-25J	" " " "
L11S1	37		" " A. (10) (23) (81)
L11S2	37		" " A. (10) (23) (81)
L11S3	37		" " A. (15) (51) (82)
L15B	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10) (23)
L15C	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10) (39)
L15D	36	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (14) (36)
L17A	28	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (11) (22)
L17AJ	29	L17A (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4)	" " A. (13) (22)
L17B	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10) (39)
L17BJ	42	L17B (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4)	" " A. (9) (39)
L17C	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10) (39)
L17CJ	42	L17C (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4)	" " A. (9) (39)
L17D	36	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (14) (36)
L17DJ	21	L17D (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4)	" " A. (8) (51)
L17E	43	KL-25E, 10-23-2, 10-23-E, URB-002	JFD Type A. (15) (36) (77)
L17EI	33	KL-25E	" " A. (15) (36) (78)
L17F	44	KL-25H	" " A. (14) (46)
L17H	45	KL-25H	" " A. (20) (37)
L17S1	37		" " A. (10) (39) (81)
L17S2	37		" " A. (10) (39) (81)
L17S3	37		" " A. (15) (36) (82)
L18A	28	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (11) (22)
L18B	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10) (39)
L18B2	41	25B2	" " " "
L18C	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10) (39)
L18D	36	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (14) (36)
L18E	43	KL-25E, 10-23-2, 10-23-E, URB-002	" " A. (15) (36) (77)
L18EI	33	KL-25E	" " A. (15) (36) (78)
L18F	44	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	" " A. (14) (46)
L18G	44	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	" " " "
L18H	45	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	" " A. (20) (37)
L18J	46	KL-25J	" " " "
L22A	28	KL-25, 23-55-1, 23-55-A, URB-004	JFD Type A. (11) (76)
L22B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (24)
L22B2	41	25B2	" " " "
L22C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (24)
L22D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14) (44)
L22E	43	KL-25E, 23-55-2, 23-55-E, URB-005	" " A. (15) (44) (77)
L22EI	33	KL-25E	" " A. (15) (44) (78)
L22F	44	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (14) (46)
L22G	44	KL-25H, 23-55-3, 23-55-F, URB-006	" " " "
L22H	45	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (20) (45)
L22J	46	KL-25J	" " " "
L23A	28	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11) (76)
L23AJ	29	L23A (4), KL-25 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " A. (13) (60)
L23B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (24)
L23BJ	42	L23B (4), KL-25 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " A. (9) (51)
L23C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (24)
L23CJ	42	L23C (4), KL-25 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " A. (9) (51)
L23D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14) (44)
L23DJ	21	L23D (4), KL-25 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	JFD Type A. (8) (44)
L23E	43	23-55-2, 23-55-E, URB-005	" " A. (15) (44) (77)
L23EI	33		" " A. (15) (44) (78)
L23F	44	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (14) (31)
L23H	45	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (20) (45)
L23S1	37		" " A. (10) (24) (81)
L23S2	37		" " A. (10) (24) (81)
L23S3	37		" " A. (15) (44) (82)
L24B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (24)
L24C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (24)
L25G	44	KL-25H, 23-55-3, 23-55-F, URB-006	" " " "
L26B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (47)
L26CC	33	KL-25	" " A. (14) (44)
L26CC-159	33		" " " "
L30A	28	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11) (73)
L30AJ	29	L30A (4), KL-25 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " A. (13) (39)

Type	Base	Replacement Type	Numbers in circles refer to Notes pages L5 to L8.
L30B	33	KL-25, 23-55-1, 23-55-A, URB-00L	JFD Type A. (10)(47)
L30B2	L1	25B2	" " A. (10)(47)
L30BJ	L2	L30B(L1) KL-25(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" " A. (9)(47)
L30C	33	KL-25, 23-55-1, 23-55-A, URB-00L	" " A. (10)(47)
L30CC	33		" " A. (11)(29)
L30CJ	L2	L30C(L1) KL-25(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" " A. (9)(47)
L30D	36	KL-25, 23-55-1, 23-55-A, URB-00L	" " A. (11)(29)
L30DJ	21	L30D(L1) KL-25(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" " A. (8)(48)
L30E	L3	KL-50E, 23-55-2, 23-55-E, URB-005	" " A. (15)(29)(77)
L30E1	33	KL-50E	" " A. (15)(29)(78)
L30F	L4	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (14)(50)
L30G	L4	KL-25H, 23-55-3, 23-55-F, URB-006	" "
L30H	26	KL-25H, 23-55-3, 23-55-F, URB-006	" "
L30J	27	KL-25J	" " A. (20)(30)
L30S1	37		" " A. (10)(47)(81)
L30S2	37		" " A. (10)(47)(81)
L30S3	37		" " A. (15)(29)(82)
L32B	33	KL-25, 23-55-1, 23-55-A, URB-00L	" " A. (10)(32)
L32C	33	KL-25, 23-55-1, 23-55-A, URB-00L	" " A. (10)(32)
L34B	33	KL-25, 23-55-1, 23-55-A, URB-00L	" " A. (10)(32)
L34C	33	KL-25, 23-55-1, 23-55-A, URB-00L	JFD Type A. (10)(32)
L34D	36	KL-25, 23-55-1, 23-55-A, URB-00L	" " A. (11)(48)
L34E	L3	KL-50E, 23-55-2, 23-55-E, URB-005	" " A. (15)(29)(77)
L35-5.5C			" " B. (10)(39)
L36A	28	KL-25, 23-55-1, 23-55-A, URB-00L	" " A. (11)(75)
L36AJ	29	L36A(L1) KL-25(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" " B. (13)(21)
L36B	33	KL-45, 23-55-1, 23-55-A, URB-00L	" " A. (10)(32)
L36B0	11	L36B(L1) KL-45(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" "
L36B2	L1	50AB	" "
L36BJ	L2	L36B(L1) KL-45(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" " A. (9)(44)
L36C	33	KL-45, 23-55-1, 23-55-A, URB-00L	" " A. (10)(32)
L36CJ	L2	L36C(L1) KL-45(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" " A. (9)(44)
L36D	36	KL-45, 23-55-1, 23-55-A, URB-00L	" " A. (11)(48)
L36DJ	21	L36D(L1) KL-45(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" " A. (8)(48)
L36E	L3	KL-50E, 23-55-2, 23-55-E, URB-005	" " A. (15)(48)(77)
L36E1	33	KL-50E	" " A. (15)(48)(78)
L36F	L4	KL-50H, 23-55-3, 23-55-F, URB-006	" "
L36G	L4	KL-50H, 23-55-3, 23-55-F, URB-006	" "
L36H	L5	KL-50H, 23-55-3, 23-55-F, URB-006	JFD Type A. (20)(49)
L36J	L6	KL-50J	" "
L36S1	37	KL-50S1	" " A. (10)(32)(81)
L36S2	37	KL-50S2	" " A. (10)(32)(81)
L36S3	37	KL-50S3	" " A. (15)(48)(82)
L38B	33	KL-45, 23-55-1, 23-55-A, URB-00L	" " A. (10)(32)
L38C	33	KL-45, 23-55-1, 23-55-A, URB-00L	" " A. (10)(32)
L38D	36	KL-45, 23-55-1, 23-55-A, URB-00L	" " A. (11)(48)
L39B	33	KL-45, 23-55-1, 23-55-A, URB-00L	" " A. (10)(32)
L39C	33	KL-45, 23-55-1, 23-55-A, URB-00L	" " A. (10)(32)
L39D	36	KL-45, 23-55-1, 23-55-A, URB-00L	" " A. (11)(48)
L39DJ	21	L39D(L1) KL-45(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" "
L40B	33	KL-45, 23-55-1, 23-55-A, URB-00L	" " A. (10)(40)
L40C	33	55L4, KL-45, 23-55-1, 23-55-A, URB-00L	" " A. (10)(40)
L40CT	33	KL-45, 23-55-1, 23-55-A, URB-00L	" " A. (10)(40)
L40D	36	KL-45, 23-55-1, 23-55-A, URB-00L	" " A. (11)(33)
L40E	L3	KL-50E, 23-55-2, 23-55-E, URB-005	JFD Type A. (15)(33)(77)
L40E1	33	KL-50E	" " A. (15)(33)(76)
L40F	L4	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (14)(35)
L40S	33	55L5, See L40C	" "
L40S1	37	KL-50S1	" " A. (10)(40)(81)
L40S2	37	55L6, KL-50S2	" " A. (10)(40)(81)
L40S3	37	KL-50S3	" " A. (15)(33)(82)
L42A	28	KL-45, 23-55-1, 23-55-A, URB-00L	" " B. (11)(12)
L42AJ	29	L42A(L1) KL-45(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" " A. (13)(47)
L42BG (UX)	11	L42A(L1) KL-45(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" " C. (17)(75)
L42B (Octal)	33	55L7, KL-45, 23-55-1, 23-55-A, URB-00L	" " A. (10)(40)
L42B2	L0	50AB	" " A. (10)(23)
L42BJ	L2	L42B(L1) KL-45(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" " B. (9)(22)
L42BX			" "
L42CG (UX)	11	L42B(L1) KL-45(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" " C. (17)(75)
L42C (Octal)	33	55L8, KL-45, 23-55-1, 23-55-A, URB-00L, F-27287, 27287	" " A. (10)(40)
L42CJ	L2	L42C(L1) KL-45(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" " B. (9)(22)
L42CS1		5575	" "
L42D (UX)	12	L42C(L1) KL-45(L1), 23-55-1(L1), 23-55-A(L1), URB-00L(L1)	" " C. (66)
L42D (Octal)	36	55L9, KL-45, 23-55-1, 23-55-A, URB-00L	JFD Type A. (14)(33)

Type	Base	Replacement Types	Numbers in circles refer to Notes pages 45 to 48.
L42DJ	21	L42D (u), KL-45J, 23-55-1 (u), 23-55-A (u), URB-004 (u)	JFD Type B. (8)(51)
L42DSX		220SX	
L42DX		L42EX	
L42E	43	KL-50E, 23-55-2, 23-55-E, URB-005	" " A. (15)(33)(77)
L42E1	33	KL-50E	" " A. (15)(33)(78)
L42F	44	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (14)(43)
L42G	44	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (20)(34)
L42H	45	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (20)(34)
L42J	46	KL-50J	" " A. (10)(40)(81)
L42S1	37	KL-50S1	" " A. (10)(40)(81)
L42S2	37	KL-50S2	" " A. (15)(33)(82)
L42S3	37	KL-50S3	" " B. (10)(23)
L48B	33	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
L48C	33	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
L48D	36	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
L49-5.5C	33	23-55-1, 23-55-A, URB-004	" " B. (10)(23)
L49-5.5E	43	KL-50E, 23-55-2, 23-55-E, URB-005, L49E	" " A. (15)(41)(77)
L49A	28	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (11)(56)
L49AJ	29	L49A (u), KL-45 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " B. (13)(56)
L49B (UX)	11	LX49B, 4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C. (17)(72)
L49B (Octal)	33	5550, KL-45, 23-55-1, 23-55-A, URB-004	JFD Type B. (10)(23)
L49B2	41	50AB	" " B. (9)(39)
L49BJ	42	5551, 100-70, L49B (u), KL-45 (u), 23-55-1 (u), 23-55-A (u)	" " B. (9)(39)
L49BSX		220SX	
L49EX			
L49C (UX)	11	LX49C, 4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2)	" " C. (17)(72)
L49C (Octal)	33	5552, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
L49CJ	42	L49C (u), KL-45J, 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " B. (9)(39)
L49D (UX)	12		" " C. (68)
L49D (Octal)	36	5567, KL-45, 23-55-1, 23-55-A, URB-004, 3CR-241	" " A. (14)(41)
L49DJ	21	5553, L49D (u), KL-45J, 23-55-A (u), 23-55-1 (u), URB-004 (u)	" " B. (8)(51)
L49DSX		220SX	
L49DX	12	L49EX	
L49E	43	KL-50E, 23-55-2, 23-55-E, URB-005	JFD Type A. (15)(41)(77)
L49E1	33	5554, KL-50E	" " A. (15)(41)(78)
L49F	44	KL-50H, 23-55-3, 23-55-F, URB-006	" " B. (14)(38)
L49G	44	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (20)(42)
L49H	45	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (20)(42)
L49J	46	KL-50J	" " B. (10)(23)(81)
L49S1	37	KL-50S1	" " B. (10)(23)(81)
L49S2	37	KL-50S2	" " A. (15)(41)(82)
L49S3	37	KL-50S3	" " B. (10)(39)
L54B	33	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(39)
L54C	33	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(39)
L54D	36	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (14)(46)
L55-5C	33	KL-45, 23-55-1, 23-55-A, URB-004, L55C	" " B. (10)(39)
L55-5.5C	33	KL-45, 23-55-1, 23-55-A, URB-004, L55C	" " B. (10)(39)
L55-515E	43	KL-50E, 23-55-2, 23-55-E, URB-005	" " B. (15)(36)(77)
L55A	28	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (11)(54)
L55AJ	29	L55A (u), KL-45 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " B. (13)(62)
L55B (UX)	11	LX55B, 4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C. (17)(66)
L55B (Octal)	33	5555, KL-45, 23-55-1, 23-55-A, URB-004	JFD Type B. (10)(39)
L55B2	41	50AB	" " B. (9)(39)
L55BJ	42	L55B (u), KL-45 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " B. (9)(39)
L55C (UX)	11	LX55C, 4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C. (17)(66)
L55C (Octal)	33	5556, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(39)
L55CJ	42	L55C (u), KL-45 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " B. (9)(39)
L55CP	38	K55CP	
L55CPR	38	K55CP	
L55D	36	KL-45, 23-55-1, 23-55-A, URB-004	JFD Type B. (14)(36)
L55DJ	21	L55D (u), KL-45 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " B. (8)(44)
L55E	43	KL-50E, 23-55-2, 23-55-E, URB-005	" " B. (15)(36)(77)
L55E1	33	KL-50E	" " B. (15)(36)(78)
L55F	44	KL-50H, 23-55-3, 23-55-F, URB-006	" " B. (14)(46)
L55G	44	KL-50H, 23-55-3, 23-55-F, URB-006	" " B. (20)(37)
L55H	45	KL-50H, 23-55-3, 23-55-F, URB-006	" " B. (20)(37)
L55J	46	KL-50J	" " B. (10)(39)(81)
L55S1	37	5557, KL-50S1	" " B. (10)(39)(81)
L55S2	37	5558, KL-50S2	" " B. (10)(39)(81)
L55S3	37	KL-50S3	" " B. (15)(36)(82)
L59BJ	42	L61B (u), KL-45 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" " A. (9)(41)
L60B	33	KL-45, 60-92-1, 60-92-A, URB-007	JFD Type B. (10)(24)

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type	Notes
L61A	28	KL-45, 60-92-1, 60-92-A, URB-007	B.	(10)(24)
L61AJ	29	L61A(4), KL-45(4), 60-92-1(4), 60-92-A(4), URB-007(4)	B.	(13)(60)
L61B	33	KL-45, 60-92-1, 60-92-A, URB-007	B.	(10)(24)
L61BJ	42	L61B(4), KL-45(4), 60-92-1(4), 60-92-A(4), URB-007(4)	A.	(9)(41)
L61C	33	KL-45, 60-92-1, 60-92-A, URB-007	B.	(10)(24)
L61CJ	42	L61C(4), KL-45(4), 60-92-1(4), 60-92-A(4), URB-007(4)	B.	(9)(41)
L61D	36	KL-45, 60-92-1, 60-92-A, URB-007	B.	(14)(44)
L61DJ	21	L61D(4), KL-45(4), 60-92-1(4), 60-92-A(4), URB-007(4)	A.	(8)(44)
L61E	43	KL-50E, 60-92-2, 60-92-E, URB-008	B.	(15)(44)(77)
L61E1	33	KL-50E	B.	(15)(44)(78)
L61F	44	KL-50H, 60-92-3, 60-92-F, URB-009	B.	(14)(31)
L61G	44	KL-50H, 60-92-3, 60-92-F, URB-009	"	"
L61H	45	KL-50H, 60-92-3, 60-92-F, URB-009	B.	(20)(45)
L61S1	37	KL-50S1	B.	(10)(24)(81)
L61S2	37	KL-50S2	B.	(10)(24)(81)
L61S3	37	KL-50S3	B.	(15)(44)(82)
L66B	33	KL-45, 60-92-1, 60-92-A, URB-007	JFD Type B.	(10)(47)
L67A	28	KL-45, 60-92-1, 60-92-A, URB-007	B.	(11)(23)
L67AJ	29	L67A(4), KL-45(4), 60-92-1(4), 60-92-A(4), URB-007(4)	B.	(13)(59)
L67B	33	KL-45, 60-92-1, 60-92-A, URB-007	B.	(10)(47)
L67B2	41	50AB	"	"
L67BJ	42	L67B(4), KL-45(4), 60-92-1(4), 60-92-A(4), URB-007(4)	B.	(9)(47)
L67C	33	KL-45, 60-92-1, 60-92-A, URB-007	B.	(10)(47)
L67CJ	42	L67C(4), KL-45(4), 60-92-1(4), 60-92-A(4), URB-007(4)	B.	(9)(47)
L67D	36	KL-45, 60-92-1, 60-92-A, URB-007	B.	(14)(29)
L67DJ	21	L67D(4), KL-45(4), 60-92-1(4), 60-92-A(4), URB-007(4)	B.	(8)(44)
L67E	43	KL-50E, 60-92-2, 60-92-E, URB-008	B.	(15)(29)(77)
L67E1	33	KL-50E	B.	(15)(29)(78)
L67F	44	KL-50H, 60-92-3, 60-92-F, URB-009	B.	(14)(50)
L67G	44	KL-50H, 60-92-3, 60-92-F, URB-009	"	"
L67H	45	KL-50H, 60-92-3, 60-92-F, URB-009	"	"
L67J	46	KL-50J	B.	(20)(30)
L67S1	37	KL-50S1	JFD Type B.	(10)(47)(81)
L67S2	37	KL-50S2	B.	(10)(47)(81)
L67S3	37	KL-50S3	B.	(15)(29)(82)
L70B	33	KL-75, 60-92-1, 60-92-A, URB-007	B.	(10)(47)
L70C	33	KL-75, 60-92-1, 60-92-A, URB-007	B.	(10)(47)
L70D	36	KL-75, 60-92-1, 60-92-A, URB-007	B.	(14)(29)
L72B	33	KL-75, 60-92-1, 60-92-A, URB-007	B.	(10)(32)
L72C	33	KL-75, 60-92-1, 60-92-A, URB-007	B.	(10)(32)
L72D	36	KL-75, 60-92-1, 60-92-A, URB-007	B.	(14)(48)
L73B	33	KL-75, 60-92-1, 60-92-A, URB-007	B.	(10)(32)
L74A	28	KL-75, 60-92-1, 60-92-A, URB-007	B.	(11)(57)
L74AJ	29	L74A(4), KL-75(4), 60-92-1(4), 60-92-A(4), URB-007(4)	B.	(13)(57)
L74B	33	KL-75, 60-92-1, 60-92-A, URB-007	B.	(10)(32)
L74B2	41	50AB	"	"
L74BJ	42	L74B(4), KL-75(4), 60-92-1(4), 60-92-A(4), URB-007(4)	JFD Type B.	(9)(47)
L74C	33	KL-75, 60-92-1, 60-92-A, URB-007	B.	(10)(32)
L74CC	33	KL-75, 60-92-1, 60-92-A, URB-007	B.	(10)(32)
L74CJ	42	L74C(4), KL-75(4), 60-92-1(4), 60-92-A(4), URB-007(4)	B.	(9)(47)
L74D	36	KL-75, 60-92-1, 60-92-A, URB-007	B.	(14)(48)
L74DJ	21	L74D(4), KL-75(4), 60-92-1(4), 60-92-A(4), URB-007(4)	B.	(8)(48)
L74E	43	KL-50E, 60-92-2, 60-92-E, URB-008	B.	(15)(48)(77)
L74E1	33	KL-50E	B.	(15)(48)(78)
L74F	44	KL-75H, 60-92-3, 60-92-F, URB-009	B.	(14)(35)
L74G	44	KL-75H, 60-92-3, 60-92-F, URB-009	"	"
L74H	45	KL-75H, 60-92-3, 60-92-F, URB-009	B.	(20)(34)
L74J	46	KL-75J	"	"
L74S1	37	KL-50S1	B.	(10)(32)(81)
L74S2	37	KL-50S2	B.	(10)(32)(81)
L74S3	37	KL-50S3	B.	(15)(48)(82)
L75CC	36		"	"
L80A	28	KL-75, 60-92-1, 60-92-A, URB-007	JFD Type B.	(11)(55)
L80AJ	29	L80A(4), KL-75(4), 60-92-1(4), 60-92-A(4), URB-007(4)	B.	(13)(47)
L80B	33	5561, KL-75, 60-92-1, 60-92-A, URB-007	B.	(10)(40)
L80B2	41	72B2	"	"
L80BJ	42	L80B(4), KL-75(4), 60-92-1(4), 60-92-A(4), URB-007(4)	B.	(9)(40)
L80C	33	KL-75, 60-92-1, 60-92-A, URB-007	B.	(10)(40)
L80CJ	42	L80C(4), KL-75(4), 60-92-1(4), 60-92-A(4), URB-007(4)	B.	(9)(40)
L80D	36	KL-75, 60-92-1, 60-92-A, URB-007	B.	(14)(33)
L80DJ	21	L80D(4), KL-75(4), 60-92-1(4), 60-92-A(4), URB-007(4)	B.	(8)(48)
L80E	43	KL-50E, 60-92-2, 60-92-E, URB-008	B.	(15)(33)(77)

Type	Base	Replacement Types	Numbers in circles refer to Notes pages L5 to L8.
L80E1	33		JFD Type B. (15)(33)(78)
L80F	L4	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (14)(43)
L80G	L4	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (20)(34)
L80H	L5	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (10)(40)(81)
L80J	L6	KL-75J	" " B. (15)(33)(82)
L80S1	37	KL-50S1	" " B. (10)(40)
L80S2	37	KL-50S2	" " B. (10)(40)(81)
L80S3	37	KL-50S3	" " B. (15)(33)(82)
L81B	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(40)
L81BJ	L2	L80E(L4), KL-75(L4), 60-92-1(L4), 60-92-A(L4), URB-007(L4)	" " B. (9)(40)
L85CC	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(29)
L86A	28	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(47)
L86AJ	29	L86A(L4), KL-75(L4), 60-92-1(L4), 60-92-A(L4), URB-007(L4)	" " B. (13)(44)
L86B	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(29)
L86BJ	L2	L86B(L4), KL-75(L4), 60-92-1(L4), 60-92-A(L4), URB-007(L4)	" " B. (9)(48)
L86C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(29)
L86CJ	L2	L86C(L4), KL-75(L4), 60-92-1(L4), 60-92-A(L4), URB-007(L4)	" " B. (9)(48)
L86D	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (14)(41)
L86DJ	21	L86D(L4), KL-75(L4), 60-92-1(L4), 60-92-A(L4), URB-007(L4)	" " B. (8)(41)
L86E	L3	KL-50E, 60-92-2, 60-92-E, URB-008	JFD Type B. (15)(41)(77)
L86E1	33		" " B. (15)(41)(78)
L86F	L4	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (14)(43)
L86H	L5	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (20)(42)
L86S1	37	KL-50S1	" " B. (10)(29)(81)
L86S2	37	KL-50S2	" " B. (10)(29)(81)
L86S3	37	KL-50S3	" " B. (15)(41)(82)
L87A	28	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (20)(42)
L87B	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(29)
L87C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " E. (10)(29)
L87D	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (14)(41)
L87E	L3	KL-75E, 60-92-2, 60-92-E, URB-008	" " B. (15)(41)(77)
L87F	L4	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (14)(43)
L87G	L4	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (14)(43)
L87H	L5	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (20)(42)
L87J	L6	KL-50J	
L90A	28	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(32)
L90AJ	29	L90A(L4), KL-75(L4), 60-92-1(L4), 60-92-A(L4), URB-007(L4)	" " B. (13)(40)
L90B	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(25)
L90BJ	L2	L90B(L4), KL-75(L4), 60-92-1(L4), 60-92-A(L4), URB-007(L4)	" " B. (9)(48)
L90C	33	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(25)
L90CC	33	KL-75, 60-92-1, 60-92-A, URB-007	JFD Type B. (10)(25)
L90CJ	L2	L90C(L4), KL-75(L4), 60-92-1(L4), 60-92-A(L4), URB-007(L4)	" " B. (9)(48)
L90D	36	KL-75, 60-92-1, 60-92-A, URB-007	" " B. (14)(41)
L90DJ	21	L90D(L4), KL-75(L4), 60-92-1(L4), 60-92-A(L4), URB-007(L4)	" " B. (9)(41)
L90F	L4	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (14)(26)
L90H	L5	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (20)(27)
L90S1	37	KL-50S1	" " B. (10)(25)(81)
L90S2	37	KL-50S2	" " B. (10)(25)(81)
L90S3	37	KL-50S3	" " B. (15)(41)(82)
L91D	36	60-92-1, 60-92-A, URB-007	" " B. (14)(41)
L92A	28	KL-75, 92-105-1, 92-105-A	JFD Type B. (11)(32)
L92B	33	KL-75, 92-105-1, 92-105-A	" " B. (10)(25)
L92C	33	KL-75, 92-105-1, 92-105-A	" " B. (10)(25)
L92D	36	KL-75, 92-105-1, 92-105-A	" " B. (14)(41)
L92E	L3	KL-75E, 60-92-2, 60-92-E, URB-008	" " B. (15)(41)(77)
L92E1	33	KL-75E	" " B. (15)(41)(78)
L92F	L4	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (14)(26)
L92G	L4	KL-75H	" " "
L92H	L5	KL-75H, 60-92-3, 60-92-F, URB-009	" " B. (20)(27)
L92J	L6	KL-75J	" " "
L92S1	37	KL-50S1	" " B. (10)(25)(81)
L92S2	37	KL-50S2	" " B. (10)(25)(81)
L92S3	37	KL-50S3	" " B. (15)(41)(82)
L98A	28	KL-75, 92-105-1, 92-105-A	" " B. (11)(58)
L98AJ	29	L98A(L4), KL-75(L4), 92-105-1(L4), 92-105-A(L4)	" " B. (13)(48)
L98B	33	KL-75, 92-105-1, 92-105-A	" " B. (10)(33)
L98BJ	L2	L98B(L4), KL-75(L4), 92-105-1(L4), 92-105-A(L4)	" " B. (9)(41)
L98C	33	KL-75, 92-105-1, 92-105-A	" " B. (10)(33)
L98CJ	L2	L98C(L4), KL-75(L4), 92-105-1(L4), 92-105-A(L4)	" " B. (9)(41)
L98D	36	KL-75, 92-105-1, 92-105-A	" " B. (14)(26)

Numbers in circles refer to Notes pages L5 to L8.

Type	Base	Replacement Types	JFD Type	Notes
L98E	L3		B.	(15)(26)(77)
L98E1	33		B.	(15)(26)(78)
L98F	L4	KL-75H	B.	(14)(28)
L98H	L5	KL-75H	B.	(20)(27)
L98S1	37	KL-50S1	B.	(10)(33)(81)
L98S2	37	KL-50S2	B.	(10)(33)(81)
L98S3	37	KL-50S3	B.	(15)(26)(82)
L99D	36	92-105-1, 92-105-A	B.	(14)(26)
L100D	36	92-105-1, 92-105-A	B.	(14)(26)
L105A	28	92-105-1, 92-105-A	B.	(11)(25)
L105B	33	92-105-1, 92-105-A	B.	(10)(11)
L105C	33	92-105-1, 92-105-A	B.	(10)(11)
L105S1	37		B.	(10)(11)(81)
L105S2	37		B.	(10)(11)(81)
L105S3	37		B.	(10)(11)(81)
LH-1	6			
LLL-25	6	5H1, 1K1, 1V1, 10AB		
LLL-225	6	5E1, 1A1, 5-1, 6AA		
LR-1		1T1		
LX23A	6	23-55-1 (1), UX23-55-A, 23-55-A (1), URB-004 (1)	JFD Type C.	(18)(70)
LX23B	11	23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C.	(17)(71)
LX23C	11	23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C.	(17)(71)
LX23D	12	23-55-1 (3), UX23-55-A, 23-55-A (3), URB-004 (3)	" " C.	(67)
LX30A	6	23-55-1 (1), UX23-55-A, 23-55-A (1), URB-004 (1)	" " C.	(18)(71)
LX30B	11	100L1, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C.	(17)(76)
LX30C	11	100L8, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C.	(17)(76)
LX30D	12	23-55-1 (3), UX23-55-A, 23-55-A (3), URB-004 (3)	" " C.	(64)
LX36A	6	LP-45, 23-55-1 (1), UX23-55-A, 23-55-A (1), URB-004 (1)	" " C.	(18)(71)
LX36B	11	LP-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C.	(17)(73)
LX36C	11	LP-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C.	(17)(73)
LX36D	12	LP-45, 23-55-1 (3), UX23-55-A, 23-55-A (3), URB-004 (3)	" " C.	(69)
LX42A	6			
LX42B	11	LP-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C.	(17)(75)
LX42C	11	LP-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C.	(17)(75)
LX42D	12	LP-45, 23-55-1 (3), UX23-55-A, 23-55-A (3), URB-004 (3)	" " C.	(66)
LX49A	6	LP-45, 23-55-1 (1), UX23-55-A, 23-55-A (1), URB-004 (1)	" " C.	(18)(73)
LX49B	11	LP-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C.	(17)(72)
LX49C	11	LP-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C.	(17)(72)
LX49D	12	LP-45, 23-55-1 (3), UX23-55-A, 23-55-A (3), URB-004 (3)	" " C.	(68)
LX55A	6			
LX55B	11	LP-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C.	(17)(66)
LX55C	11	LP-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	" " C.	(17)(66)
LX55D	12	LP-45, 23-55-1 (3), UX23-55-A, 23-55-A (3), URB-004 (3)	" " C.	(65)
LX61A	6	LP-45, 60-92-1 (1), UX60-92-A, 60-92-A (1), URB-007 (1)	JFD Type C.	(18)(69)
LX61B	11	LP-45, 60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C.	(17)(68)
LX61C	11	LP-45, 60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C.	(17)(68)
LX61D	12	LP-45, 60-92-1 (3), UX60-92-A, 60-92-A (3), URB-007 (3)	" " C.	(39)
LX67A	6	60-92-1 (1), UX60-92-A, 60-92-A (1), URB-007 (1)	" " C.	(18)(66)
LX67B	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C.	(17)(22)
LX67C	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C.	(17)(22)
LX67D	12	60-92-1 (3), UX60-92-A, 60-92-A (3), URB-007 (3)	" " C.	(21)
LX74A	6	60-92-1 (1), UX60-92-A, 60-92-A (1), URB-007 (1)	" " C.	(18)(22)
LX74B	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C.	(17)(23)
LX74C	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C.	(17)(23)
LX74D	12	60-92-1 (3), UX60-92-A, 60-92-A (3), URB-007 (3)	" " C.	(47)
LX80B	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C.	(17)(39)
LX80C	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C.	(17)(39)
LX80D	12	60-92-1 (3), UX60-92-A, 60-92-A (3), URB-007 (3)	" " C.	(47)
LX86B	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	JFD Type C.	(17)(24)
LX86C	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" " C.	(17)(24)
LX86D	12	60-92-1 (3), UX60-92-A, 60-92-A (3), URB-007 (3)	" " C.	(32)
LX92B	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" " C.	(17)(47)
LX92C	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" " C.	(17)(47)
LX92D	12	92-105-1 (3), UX92-105-A, 92-105-A (3)	" " C.	(40)
LX98A	6	92-105-1 (1), UX92-105-A, 92-105-A (1)	" " C.	(18)(24)
LX98B	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" " C.	(17)(32)
LX98C	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" " C.	(17)(32)
LX98D	12	92-105-1 (3), UX92-105-A, 92-105-A (3)	" " C.	(25)

Type	Base	Replacement Type	Numbers in circles refer to Notes pages 45 to 48.
LX105B	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	JFD Type C. (17) (40)
LX105C	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" " C. (17) (40)
LX105D	12	92-105-1 (3), UX92-105-A, 92-105-A (3)	" " C. (25)
LY6B	40		" " A. (19) (62)
LY6C	40		" " A. (19) (62)
LY6D	41		" " A. (16) (62)
LY11A	39		" " A. (12) (56)
LY11B	40		" " A. (19) (59)
LY11C	40		" " A. (19) (59)
LY11D	41		" " A. (16) (59)
LY17A	39		" " A. (12) (62)
LY17B	40		" " A. (19) (59)
LY17C	40		" " A. (19) (59)
LY17D	41		" " A. (16) (59)
LY23A	39		" " A. (12) (60)
LY23B	40		" " A. (19) (59)
LY23C	40		" " A. (19) (59)
LY23D	41		" " A. (16) (59)
LY30A	39		" " A. (12) (59)
LY30B	40		JFD Type A. (19) (61)
LY30C	40		" " A. (19) (61)
LY30D	41		" " A. (16) (61)
LY36A	39	50AB	" " B. (12) (21)
LY36B	40	50AB	" " A. (19) (61)
LY36C	40	50AB	" " A. (19) (61)
LY36D	41	50AB	" " A. (16) (61)
LY42A	39	50AB	" " A. (12) (61)
LY42B	40	50AB	" " B. (19) (62)
LY42C	40	50AB	" " B. (19) (62)
LY42D	41	50AB	" " B. (16) (62)
LY49A	39	50AB	" " B. (12) (56)
LY49B	40	50AB	" " A. (19) (58)
LY49C	40	50AB	" " A. (19) (58)
LY49D	41	50AB	" " A. (16) (58)
LY55A	39	50AB	" " B. (12) (62)
LY55B	40	50AB	" " B. (19) (59)
LY55C	40	50AB	" " B. (19) (59)
LY55D	41	50AB	" " B. (16) (59)
LY61A	39	50AB	JFD Type B. (12) (60)
LY61B	40	50AB	" " B. (19) (59)
LY61C	40	50AB	" " B. (19) (59)
LY61D	41	50AB	" " B. (16) (59)
LY67A	39	50AB	" " B. (12) (59)
LY67B	40	50AB	" " B. (19) (59)
LY67C	40	50AB	" " B. (19) (59)
LY67D	41	50AB	" " B. (16) (59)
LY74A	39		" " B. (12) (57)
LY74B	40		" " B. (19) (61)
LY74C	40		" " B. (19) (61)
LY74D	41		" " B. (16) (61)
LY80A	39		" " B. (12) (61)
LY80B	40		" " B. (19) (61)
LY80C	40		" " B. (19) (61)
LY80D	41		" " B. (16) (61)
LY86A	39		" " B. (12) (61)
LY86B	40		JFD Type B. (19) (58)
LY86C	40		" " B. (19) (58)
LY86D	41		" " B. (16) (58)
LY90B	40		" " B. (19) (58)
LY90C	40		" " B. (19) (58)
LY90D	41		" " B. (16) (58)
LY98A	39		" " B. (12) (58)
LY98B	40		
LY98C	40		
LY98D	41		
LZ6B	24		JFD Type A. (10) (22) (80)
LZ6C	24		" " A. (10) (22) (80)
LZ11B	24		" " A. (10) (23) (80)
LZ11C	24		" " A. (10) (23) (80)
LZ17A	22		" " A. (11) (22) (79)

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type
LZ17B	24		A. 10 39 80
LZ17C	24		" " A. 10 39 80
LZ23B	24		" " A. 10 24 80
LZ23C	24		" " A. 10 24 80
LZ30B	24		" " A. 10 17 80
LZ30C	24		" " A. 10 17 80
LZ36B	24	KL-50S1	" " A. 10 32 80
LZ36C	24	KL-50S1	" " A. 10 32 80
LZ42B	24		" " A. 10 16 80
LZ42C	24		" " A. 10 16 80
LZ49B	24	KL-50S1	" " B. 10 23 80
LZ49C	24	KL-50S2	" " B. 10 23 80
LZ55A	22	KL-50S1	" " B. 11 54 79
LZ55B	24	KL-50S1	" " B. 10 39 80
LZ55C	24	KL-50S2	" " B. 10 39 80
LZ61B	24	KL-50S1	" " B. 10 24 80
LZ61C	24	KL-50S2	" " B. 10 24 80
LZ67B	24	KL-50S1	" " B. 10 17 80
LZ67C	24	KL-50S2	" " B. 10 17 80
LZ74A	22		" " B. 11 57 79
LZ74B	24		JFD Type B. 10 32 80
LZ74C	24		" " B. 10 32 80
LZ80A	22		" " B. 11 55 79
LZ80B	24		" " B. 10 10 80
LZ80C	24		" " B. 10 10 80
LZ86A	22		" " B. 11 17 79
LZ86B	24		" " B. 10 29 80
LZ86C	24		" " B. 10 29 80
LZ92A	22		" " B. 11 32 79
LZ92B	24		" " B. 10 25 80
LZ92C	24		" " B. 10 25 80
LZ98B	24		" " B. 10 33 80
LZ98C	24		" " B. 10 33 80
LZ105B	24		" " B. 10 11 80
LZ105C	24		" " B. 10 11 80
M6A	28		JFD Type A. 11 70
M6B	33		" " A. 10 22
M6BJ	42	M6B (4)	" " A. 9 22
M6C	33		" " A. 10 22
M6CJ	42	M6C (4)	" " A. 9 22
M6F	44		" " A. 11 53
M6S1	37		" " A. 10 22 81
M6S2	37		" " A. 10 22 81
M11A	28	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. 11 74
M11AJ	29	M11A (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4)	" " A. 13 74
M11B	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. 10 23
M11BJ	42	M11B (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4)	" " A. 9 22
M11C	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. 10 23
M11CJ	42	M11C (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4)	" " A. 9 22
M11D	36	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. 11 51
M11DJ	21	M11D (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4)	" " A. 8 51
M11E	43	KL-25E, 10-23-2, 10-23-E, URB-002	" " A. 15 51 77
M11E1	33	KL-25E	" " A. 15 51 78
M11F	44	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	" " A. 11 38
M11H	45	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	JFD Type A. 20 52
M11S1	37		" " A. 10 23 81
M11S2	37		" " A. 10 23 81
M11S3	37		" " A. 15 51 82
M17A	28	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. 11 22
M17AJ	29	M17A (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), URB-001 (4)	" " A. 13 22
M17B	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. 10 39
M17BJ	42	M17B (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), 45-4001 (4)	" " A. 9 39
M17C	33	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. 10 39
M17CJ	42	M17C (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), 45-4001 (4)	" " A. 9 39
M17D	36	KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. 11 36
M17DJ	21	M17D (4), KL-25 (4), 10-23-1 (4), 10-23-A (4), 45-4001 (4)	" " A. 8 51
M17E	43	KL-25E, 10-23-2, 10-23-E, URB-002	" " A. 15 36 77
M17E1	33		" " A. 15 36 78
M17F	44	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	" " A. 11 46
M17H	45	KL-25H, 10-23-3, 10-23-F, URB-003, 45-4001-2	" " A. 20 37
M17S1	37		" " A. 10 39 81
M17S2	37		" " A. 10 39 81

Type	Base	Replacement Types	Numbers in circles refer to Notes pages 45 to 48.
M17S3	37		JFD Type A. (15) (36) (82)
M22H	45	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (20) (45)
M23A	28	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11) (76)
M23AJ	29	M23A (u), KL-25 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " A. (13) (60)
M23B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (24)
M23BJ	42	M23B (u), KL-25 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " A. (9) (51)
M23C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (24)
M23CJ	42	M23C (u), KL-25 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " A. (9) (51)
M23D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14) (44)
M23DJ	21	M23D (u), KL-25 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " A. (8) (44)
M23E	43	KL-25E, 23-55-2, 23-55-E, URB-005	" " A. (15) (44) (77)
M23E1	33		" " A. (15) (44) (78)
M23F	44	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (14) (31)
M23H	45	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (20) (45)
M23S1	37		" " A. (10) (24) (81)
M23S2	37		" " A. (10) (24) (81)
M23S3	37		" " A. (15) (44) (82)
M27F	44	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (14) (50)
M27H	45	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (20) (30)
M30A	28	KL-25, 23-55-1, 23-55-A, URB-004	JFD Type A. (11) (73)
M30AJ	29	M30A (u), KL-25 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " A. (13) (39)
M30B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (47)
M30BJ	42	M30B (u), KL-25 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " A. (9) (47)
M30C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (47)
M30CJ	42	M30C (u), KL-25 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " A. (9) (47)
M30D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14) (29)
M30DJ	21	M30D (u), KL-25 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " A. (8) (48)
M30E	43	KL-25E, 23-55-2, 23-55-E, URB-005	" " A. (15) (29) (77)
M30E1	33		" " A. (15) (29) (78)
M30F	44	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (14) (50)
M30H	45	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (20) (30)
M30S1	37		" " A. (10) (47) (81)
M30S2	37		" " A. (10) (47) (81)
M30S3	37		" " A. (15) (29) (82)
M32B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (32)
M32C	33	KL-25, 23-55-1, 23-55-A, URB-004	JFD Type A. (10) (32)
M32D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14) (48)
M32F	44	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (14) (50)
M32H	45	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (10) (47)
M33B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (47)
M33C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (47)
M33D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14) (29)
M33H	45	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (20) (30)
M34B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (32)
M34C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (32)
M34D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14) (48)
M36A	28	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11) (75)
M36AJ	29	M36A (u), KL-25 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " B. (13) (21)
M36B	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (32)
M36BJ	42	M36B (u), KL-25 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " A. (9) (44)
M36C	33	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10) (32)
M36CJ	42	M36C (u), KL-25 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	JFD Type A. (9) (44)
M36D	36	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14) (48)
M36DJ	21	M36D (u), KL-25 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " A. (8) (48)
M36E	43	KL-50 E, 23-55-2, 23-55-E, URB-005	" " A. (15) (46) (77)
M36E1	33	KL-50E	" " A. (15) (46) (78)
M36F	44	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (14) (35)
M36H	45	KL-25H, 23-55-3, 23-55-F, URB-006	" " A. (20) (49)
M36S1	37	KL-50S1	" " A. (10) (52) (81)
M36S2	37	KL-50S2	" " A. (10) (32) (81)
M36S3	37	KL-50S3	" " A. (15) (46) (82)
M38B	33	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10) (32)
M38C	33	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10) (32)
M38D	36	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (14) (48)
M38E	43	KL-50E, 23-55-2, 23-55-E, URB-005	" " A. (15) (48) (77)
M38E1	33	KL-50E	" " A. (15) (48) (78)
M38F	44	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (14) (35)
M38H	45	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (20) (49)
M39F	44	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (14) (43)
M39H	45	KL-50H, 23-55-3, 23-55-F, URB-006	" " A. (20) (34)
M40B	33	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10) (40)
M40C	33	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10) (40)
M40D	36	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (14) (33)
M40E	43	KL-50E, 23-55-2, 23-55-E, URB-005	" " A. (15) (33) (77)

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type	Notes
M4OF	44	KL-50H, 23-55-3, 23-55-F, URB-006	A.	(14) (35)
M4OH	45	KL-50H, 23-55-3, 23-55-F, URB-006	"	(20) (34)
M42A	28	KL-45, 23-55-1, 23-55-A, URB-004	"	(11) (72)
M42AJ	29	M42A (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	"	(13) (47)
M42B	33	5562, KL-45, 23-55-1, 23-55-A, URB-004	"	(10) (40)
M42BJ	42	M42B (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	"	(9) (22)
M42C	33	KL-45, 23-55-1, 23-55-A, URB-004	"	(10) (40)
M42CJ	42	M42C (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	"	(9) (22)
M42D	36	KL-45, 23-55-1, 23-55-A, URB-004	"	(14) (33)
M42DJ	21	M42D (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	"	(6) (51)
M42E	43	KL-50E, 23-55-2, 23-55-E, URB-005	"	(15) (33) (77)
M42E1	33	KL-50E	"	(15) (33) (78)
M42F	44	KL-50H, 23-55-3, 23-55-F, URB-006	"	(14) (43)
M42G	44	KL-50H, 23-55-3, 23-55-F, URB-006	"	"
M42H	45	KL-50H, 23-55-3, 23-55-F, URB-006	"	A. (20) (34)
M42S1	37	KL-50S1	"	(10) (40) (81)
M42S2	37	KL-50S2	"	(10) (40) (81)
M42S3	37	KL-50S3	"	(15) (33) (82)
M44B	33	KL-45, 23-55-1, 23-55-A, URB-004	JFD Type	A. (10) (40)
M44C	33	KL-45, 23-55-1, 23-55-A, URB-004	"	A. (10) (40)
M44D	36	KL-45, 23-55-1, 23-55-A, URB-004	"	A. (14) (33)
M45R		KL-45	"	"
M49A	28	KL-45, 23-55-1, 23-55-A, URB-004	"	B. (11) (56)
M49AJ	29	M49A (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	"	B. (13) (56)
M49B	33	5563, KL-45, 23-55-1, 23-55-A, URB-004	"	B. (10) (23)
M49BJ	42	M49B (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	"	B. (9) (39)
M49C	33	KL-45, 23-55-1, 23-55-A, URB-004	"	B. (10) (23)
M49CJ	42	M49C (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	"	B. (9) (39)
M49D	36	KL-45, 23-55-1, 23-55-A, URB-004	"	A. (14) (41)
M49DJ	21	M49D (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	"	E. (6) (51)
M49E	43	KL-50E, 23-55-2, 23-55-E, URB-005	"	A. (15) (41) (77)
M49E1	33	KL-50E	"	A. (15) (41) (78)
M49F	44	KL-50H, 23-55-3, 23-55-F, URB-006	"	B. (14) (38)
M49G	44	KL-50H, 23-55-3, 23-55-F, URB-006	"	B. (14) (38)
M49H	45	KL-50H, 23-55-3, 23-55-F, URB-006	"	A. (20) (42)
M49S1	37	KL-50S1	JFD Type	B. (10) (23) (81)
M49S2	37	KL-50S2	"	B. (10) (23) (81)
M49S3	37	KL-50S3	"	A. (15) (41) (82)
M50R		KL-45	"	"
M52H	45	KL-50H, 23-55-3, 23-55-F, URB-006	"	B. (20) (37)
M55A	28	KL-45, 23-55-1, 23-55-A, URB-004	"	B. (11) (54)
M55AJ	29	M55A (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	"	B. (13) (62)
M55B	33	KL-45, 23-55-1, 23-55-A, URB-004	"	B. (10) (39)
M55BJ	42	M55B (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	"	B. (9) (39)
M55C	33	KL-45, 23-55-1, 23-55-A, URB-004	"	B. (10) (39)
M55CJ	42	M55C (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	"	B. (9) (39)
M55D	36	KL-45, 23-55-1, 23-55-A, URB-004	"	B. (14) (36)
M55DJ	21	M55D (4), KL-45 (4), 23-55-1 (4), 23-55-A (4), URB-004 (4)	"	B. (8) (44)
M55E	43	KL-50E, 23-55-2, 23-55-E, URB-005	"	B. (15) (36) (77)
M55E1	33	KL-50E, 8601	"	B. (15) (36) (78)
M55F	44	KL-50H, 23-55-3, 23-55-F, URB-006	"	B. (14) (46)
M55H	45	KL-50H, 23-55-3, 23-55-F, URB-006	JFD Type	E. (20) (37)
M55S1	37	KL-50S1	"	B. (10) (39) (81)
M55S2	37	KL-50S2	"	B. (10) (39) (81)
M55S3	37	KL-50S3	"	B. (15) (36) (82)
M58B	33	KL-45, 60-92-1, 60-92-A, URB-007	"	B. (14) (36)
M61A	28	KL-45, 60-92-1, 60-92-A, URB-007	"	B. (11) (60)
M61AJ	29	M61A (4), KL-45 (4), 60-92-1 (4), 60-92-A (4), URB-007 (4)	"	B. (13) (60)
M61B	33	KL-45, 60-92-1, 60-92-A, URB-007	"	B. (10) (24)
M61BJ	42	M61B (4), KL-45 (4), 60-92-1 (4), 60-92-A (4), URB-007 (4)	"	A. (9) (41)
M61C	33	KL-45, 60-92-1, 60-92-A, URB-007	"	B. (10) (24)
M61CJ	42	M61C (4), KL-45 (4), 60-92-1 (4), 60-92-A (4), URB-007 (4)	"	A. (9) (41)
M61D	36	KL-45, 60-92-1, 60-92-A, URB-007	"	B. (14) (44)
M61DJ	21	M61D (4), KL-45 (4), 60-92-1 (4), 60-92-A (4), URB-007 (4)	"	B. (8) (44)
M61E	43	KL-50E, 60-92-1, 60-92-A, URB-007	"	B. (15) (44) (77)
M61E1	33	KL-50E	"	B. (15) (44) (78)
M61F	44	KL-50H, 60-92-3, 60-92-F, URB-009	"	B. (14) (31)
M61G	44	KL-50H, 60-92-3, 60-92-F, URB-009	"	"
M61H	45	KL-50H, 60-92-3, 60-92-F, URB-009	JFD Type	B. (20) (45)
M61S1	37	KL-50S1	"	B. (10) (24) (81)
M61S2	37	KL-50S2	"	B. (10) (24) (81)
M61S3	37	KL-50S3	"	B. (15) (44) (82)
M67A	28	KL-75, 60-92-1, 60-92-A, URB-007	"	B. (11) (23)

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type	Notes
M67AJ	29	M67A (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	B.	13, 59
M67B	33	KL-75, 60-92-1, 60-92-A, URB-007	" "	10, 47
M67BJ	42	M67B (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	9, 47
M67C	33	KL-75, 60-92-1, 60-92-A, URB-007	" "	10, 47
M67CJ	42	M67C (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	9, 47
M67D	36	KL-75, 60-92-1, 60-92-A, URB-007	" "	14, 29
M67DJ	21	M67D (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	8, 44
M67E	43	KL-50E, 60-92-2, 60-92-E, URB-008	" "	15, 29, 77
M67E1	33	KL-50E	" "	15, 29, 78
M67F	44	KL-50H, 60-92-3, 60-92-F, URB-009	" "	14, 50
M67H	45	KL-50H, 60-92-3, 60-92-F, URB-009	" "	20, 30
M67S1	37	KL-50S1	" "	10, 47, 81
M67S2	37	KL-50S2	" "	10, 47, 81
M67S3	37	KL-50S3	" "	15, 29, 82
M73B	33	KL-75, 60-92-1, 60-92-A, URB-007	JFD Type	B. 10, 32
M74A	28	KL-75, 60-92-1, 60-92-A, URB-007	" "	11, 57
M74AJ	29	M74A (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	13, 57
M74B	33	KL-75, 60-92-1, 60-92-A, URB-007	" "	10, 32
M74BJ	42	M74B (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	9, 47
M74C	33	KL-75, 60-92-1, 60-92-A, URB-007	" "	10, 32
M74CJ	42	M74C (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	9, 47
M74D	36	KL-75, 60-92-1, 60-92-A, URB-007	" "	14, 48
M74DJ	21	M74D (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	8, 48
M74E	43	60-92-2, 60-92-E, URB-008	" "	15, 48, 77
M74E1	33		" "	15, 48, 78
M74F	44	KL-75H, 60-92-3, 60-92-F, URB-009	" "	14, 35
M74H	45	KL-75H, 60-92-3, 60-92-F, URB-009	" "	20, 49
M74S1	37	KL-50S1	" "	10, 32, 81
M74S2	37	KL-50S2	" "	10, 32, 81
M74S3	37	KL-50S3	JFD Type	B. 15, 48, 82
M79B	33	KL-75, 60-92-1, 60-92-A, URB-007	" "	10, 40
M79C	33	KL-75, 60-92-1, 60-92-A, URB-007	" "	10, 40
M80A	28	KL-75, 60-92-1, 60-92-A, URB-007	" "	11, 55
M80AJ	29	M80A (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	13, 47
M80B	33	KL-75, 60-92-1, 60-92-A, URB-007	" "	10, 40
M80BJ	42	M80B (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	9, 40
M80C	33	KL-75, 60-92-1, 60-92-A, URB-007	" "	10, 40
M80CJ	42	M80C (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	9, 40
M80D	36	KL-75, 60-92-1, 60-92-A, URB-007	" "	14, 33
M80DJ	21	M80D (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	8, 48
M80E	43	60-92-2, 60-92-E, URB-008	" "	15, 33, 77
M80E1	33		" "	15, 33, 78
M80F	44	KL-75H, 60-92-3, 60-92-F, URB-009	" "	14, 43
M80H	45	KL-75H, 60-92-3, 60-92-F, URB-009	" "	20, 34
M80S1	37	KL-50S1	JFD Type	B. 10, 40, 81
M80S2	37	KL-50S2	" "	10, 40, 81
M80S3	37	KL-50S3	" "	15, 33, 82
M84F	44	KL-75H, 60-92-3, 60-92-F, URB-009	" "	14, 43
M86A	28	KL-75, 60-92-1, 60-92-A, URB-007	" "	11, 47
M86AJ	29	M86A (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	13, 44
M86B	33	KL-75, 60-92-1, 60-92-A, URB-007	" "	10, 29
M86BJ	42	M86B (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	9, 48
M86C	33	KL-75, 60-92-1, 60-92-A, URB-007	" "	10, 29
M86CJ	42	M86C (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	9, 48
M86D	36	KL-75, 60-92-1, 60-92-A, URB-007	" "	14, 41
M86DJ	21	M86D (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	8, 41
M86E	43	60-92-2, 60-92-E, URB-008	" "	15, 41, 77
M86E1	33		JFD Type	B. 15, 41, 78
M86F	44	KL-75H, 60-92-3, 60-92-F, URB-009	" "	14, 43
M86H	45	KL-75H, 60-92-3, 60-92-F, URB-009	" "	20, 42
M86S1	37	KL-50S1	" "	10, 29, 81
M86S2	37	KL-50S2	" "	10, 29, 81
M86S3	37	KL-50S3	" "	15, 41, 82
M90A	28	KL-75, 60-92-1, 60-92-A, URB-007	" "	11, 32
M90AJ	29	M90A (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	13, 40
M90B	33	KL-75, 60-92-1, 60-92-A, URB-007	" "	10, 25
M90BJ	42	M90B (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	9, 49
M90C	33	KL-75, 60-92-1, 60-92-A, URB-007	" "	10, 25
M90CJ	42	M90C (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	9, 49
M90D	36	KL-75, 60-92-1, 60-92-A, URB-007	" "	14, 41
M90DJ	21	M90D (u), KL-75 (u), 60-92-1 (u), 60-92-A (u), URB-007 (u)	" "	8, 41
M90E	43	60-92-2, 60-92-E, URB-008	" "	

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type	Notes
M90F	44	KL-75H, 60-92-3, 60-92-F, URB-009	B.	(14) 29
M90H	45	KL-75H, 60-92-3, 60-92-F, URB-009	B.	(20) 27
M92A	28	KL-75, 92-105-1, 92-105-A	B.	(11) 32
M92B	33	KL-75, 92-105-1, 92-105-A	B.	(10) 25
M92C	33	KL-75, 92-105-1, 92-105-A	B.	(10) 25
M92D	36	KL-75, 92-105-1, 92-105-A	B.	(14) 11
M92E	43	60-92-2, 60-92-E, URB-008	B.	(15) 11 (77)
M92E1	33		B.	(15) 11 (78)
M92F	44	KL-75H, 60-92-3, 60-92-F, URB-009	B.	(14) 28
M92H	45	KL-75H, 60-92-3, 60-92-F, URB-009	B.	(20) 27
M92S1	37	KL-50S1	B.	(10) 25 (81)
M92S2	37	KL-50S2	B.	(10) 25 (81)
M92S3	37	KL-50S3	B.	(15) 11 (82)
M95B	33	KL-75, 92-105-1, 92-105-A	B.	(10) 25
M95C	33	KL-75, 92-105-1, 92-105-A	B.	(10) 25
M95D	36	KL-75, 92-105-1, 92-105-A	B.	(14) 11
M95F	44	KL-75H	B.	(14) 28
M95H	45	KL-75H	B.	(20) 27
M98A	28	KL-75, 92-105-1, 92-105-A	JFD Type B.	(11) 58
M98AJ	29	M98A (4), KL-75 (4), 92-105-1 (4), 92-105-A (4)	B.	(13) 48
M98B	33	KL-75, 92-105-1, 92-105-A	L.	(10) 33
M98BJ	42	M98B (4), KL-75 (4), 92-105-1 (4), 92-105-A (4)	B.	(9) 11
M98C	33	KL-75, 92-105-1, 92-105-A	B.	(10) 33
M98CJ	42	M98C (4), KL-75 (4), 92-105-1 (4), 92-105-A (4)	B.	(9) 11
M98D	36	KL-75, 92-105-1, 92-105-A	B.	(14) 26
M98E	43		B.	(15) 26 (77)
M98E1	33		B.	(15) 26 (78)
M98F	44	KL-75H	B.	(14) 28
M98H	45	KL-75H	B.	(20) 27
M98S1	37		B.	(10) 33 (81)
M98S2	37		B.	(10) 33 (81)
M98S3	37		B.	(15) 26 (82)
M105A	28	92-105-1, 92-105-A	B.	(11) 25
M105B	33	92-105-1, 92-105-A	B.	(10) 11
M105C	33	92-105-1, 92-105-A	B.	(10) 11
M105F	44	KL-75H		
M105H	45	KL-75H		
M105S1	37		JFD Type B.	(10) 11 (81)
M105S2	37		B.	(10) 11 (81)
MT-30A			JFD Type A.	(10) 17
MT-300	33	NTH		
MT-650				
MX23A	6	4P-45, 23-55-1 (1), UX23-55-A, 23-55-A (1), URB-004 (1)	JFD Type C.	(18) 70
MX23B	11	4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	C.	(17) 71
MX23C	11	4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	C.	(17) 71
MX23D	12	4P-45, 23-55-1 (3), UX23-55-A, 23-55-A (3), URB-004 (3)	C.	(6)
MX30A	6	4P-45, 23-55-1 (1), UX23-55-A, 23-55-A (1), URB-004 (1)	C.	(18) 71
MX30B	11	4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	C.	(17) 76
MX30C	11	4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	C.	(17) 76
MX30D	12	4P-45, 23-55-1 (3), UX23-55-A, 23-55-A (3), URB-004 (3)	C.	(6)
MX36A	6	4P-45, 23-55-1 (1), UX23-55-A, 23-55-A (1), URB-004 (1)	C.	(18) 71
MX36B	11	4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	C.	(17) 73
MX36C	11	4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	C.	(17) 73
MX36D	12	4P-45, 23-55-1 (3), UX23-55-A, 23-55-A (3), URB-004 (3)	C.	(6)
MX42B	11	4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	JFD Type C.	(17) 75
MX42C	11	4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	C.	(17) 75
MX42D	12	4P-45, 23-55-1 (3), UX23-55-A, 23-55-A (3), URB-004 (3)	C.	(6)
MX49A	6	4P-45, 23-55-1 (1), UX23-55-A, 23-55-A (1), URB-004 (1)	C.	(18) 73
MX49B	11	4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	C.	(17) 72
MX49C	11	4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	C.	(17) 72
MX49D	12	4P-45, 23-55-1 (3), UX23-55-A, 23-55-A (3), URB-004 (3)	C.	(6)
MX55B	11	4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	JFD Type C.	(17) 66
MX55C	11	4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	C.	(17) 66
MX55D	12	4P-45, 23-55-1 (3), UX23-55-A, 23-55-A (3), URB-004 (3)	C.	(6)
MX61A	6	4P-45, 60-92-1 (1), UX60-92-A, 60-92-A (1), URB-007 (1)	C.	(18) 69
MX61B	11	4P-45, 60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	C.	(17) 68
MX61C	11	4P-45, 60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	C.	(17) 68
MX61D	12	4P-45, 60-92-1 (3), UX60-92-A, 60-92-A (3), URB-007 (3)	C.	(3)

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type	Notes
MX67A	6	60-92-1 (1), UX60-92-A, 60-92-A (1), URB-007 (1)	C.	(18) 66
MX67B	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" "	C. (17) 22
MX67C	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" "	C. (17) 22
MX67D	12	60-92-1 (3), UX60-92-A, 60-92-A (3), URB-007 (3)	" "	C. (24)
MX74A	6	60-92-1 (1), UX60-92-A, 60-92-A (1), URB-007 (1)	" "	C. (18) 22
MX74B	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" "	C. (17) 23
MX74C	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" "	C. (17) 23
MX74D	12	60-92-1 (3), UX60-92-A, 60-92-A (3), URB-007 (3)	" "	C. (47)
MX80B	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	JFD Type	C. (17) 39
MX80C	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" "	C. (17) 39
MX80D	12	60-92-1 (3), UX60-92-A, 60-92-A (3), URB-007 (3)	" "	C. (47)
MX86B	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" "	C. (17) 24
MX86C	11	60-92-1 (2), UX60-92-A, 60-92-A (2), URB-007 (2)	" "	C. (17) 24
MX86D	12	60-92-1 (3), UX60-92-A, 60-92-A (3), URB-007 (3)	" "	C. (32)
MX92B	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	JFD Type	C. (17) 47
MX92C	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" "	C. (17) 47
MX92D	12	92-105-1 (3), UX92-105-A, 92-105-A (3)	" "	C. (40)
MX98A	6	92-105-1 (1), UX92-105-A, 92-105-A (1)	" "	C. (18) 24
MX98B	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" "	C. (17) 32
MX98C	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" "	C. (17) 32
MX98D	12	92-105-1 (3), UX92-105-A, 92-105-A (3)	" "	C. (25)
MX105B	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" "	C. (17) 40
MX105C	11	92-105-1 (2), UX92-105-A, 92-105-A (2)	" "	C. (17) 40
MX105D	12	92-105-1 (3), UX92-105-A, 92-105-A (3)	" "	C. (25)
MX-408-U	22			
MY6B	40		JFD Type	A. (19) 62
MY6C	40		" "	A. (19) 62
MY6D	41		" "	A. (16) 62
MY11A	39		" "	A. (12) 56
MY11B	40		" "	A. (19) 59
MY11C	40		" "	A. (19) 59
MY11D	41		" "	A. (16) 59
MY17A	39		" "	A. (12) 62
MY17B	40		" "	A. (19) 59
MY17C	40		" "	A. (19) 59
MY17D	41		" "	A. (16) 59
MY23A	39		" "	A. (12) 60
MY23B	40		" "	A. (19) 59
MY23C	40		" "	A. (19) 59
MY23D	41		" "	A. (16) 59
MY30A	39		" "	A. (12) 59
MY30B	40		" "	A. (19) 61
MY30C	40		" "	A. (19) 61
MY30D	41		" "	A. (16) 61
MY36A	39	50AB	JFD Type	B. (12) 21
MY36B	40	50AB	" "	A. (19) 61
MY36C	40	50AB	" "	A. (19) 61
MY36D	41	50AB	" "	A. (16) 61
MY42A	39	50AB	" "	A. (12) 61
MY42B	40	50AB	" "	B. (19) 62
MY42C	40	50AB	" "	B. (19) 62
MY42D	41	50AB	" "	B. (16) 62
MY49A	39	50AB	" "	B. (12) 56
MY49B	40	50AB	" "	A. (19) 58
MY49C	40	50AB	" "	A. (19) 58
MY49D	41	50AB	" "	A. (16) 58
MY55A	39	50AB	JFD Type	B. (12) 62
MY55B	40	50AB	" "	B. (19) 59
MY55C	40	50AB	" "	B. (19) 59
MY55D	41	50AB	" "	B. (16) 59
MY61A	39	50AB	" "	B. (12) 60
MY61B	40	50AB	" "	B. (19) 59
MY61C	40	50AB	" "	B. (19) 59
MY61D	41	50AB	" "	B. (16) 59
MY67A	39	50AB	" "	B. (12) 59
MY67B	40	50AB	" "	B. (19) 59
MY67C	40	50AB	" "	B. (19) 59
MY67D	41	50AB	" "	B. (16) 59

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type
MY74A	39		B. (12) (57)
MY74B	40		" " B. (19) (61)
MY74C	40		" " B. (19) (61)
MY74D	41		" " B. (16) (61)
MY80A	39		" " B. (12) (61)
MY80B	40		" " B. (19) (61)
MY80C	40		" " B. (19) (61)
MY80D	41		" " B. (16) (61)
MY86A	39		" " B. (12) (61)
MY86B	40		" " B. (19) (58)
MY86C	40		" " B. (19) (58)
MY86D	41		" " B. (16) (58)
MY90B	40		" " B. (19) (58)
MY90C	40		" " B. (19) (58)
MY90D	41		" " B. (16) (58)
MY98A	39		" " B. (12) (58)
MZ6B	24		JFD Type A. (10) (22) (80)
MZ6C	24		" " A. (10) (22) (80)
MZ11B	24		" " A. (10) (23) (80)
MZ11C	24		" " A. (10) (23) (80)
MZ17A	22		" " A. (11) (22) (79)
MZ17B	24		" " A. (10) (39) (80)
MZ17C	24		" " A. (10) (39) (80)
MZ23B	24		" " A. (10) (24) (80)
MZ23C	24		" " A. (10) (24) (80)
MZ30B	24		" " A. (10) (47) (80)
MZ30C	24		" " A. (10) (47) (80)
MZ36B	24	KL-50S1	" " A. (10) (32) (80)
MZ36C	24	KL-50S2	" " A. (10) (32) (80)
MZ42B	24	KL-50S1	" " A. (10) (40) (80)
MZ42C	24	KL-50S2	" " A. (10) (40) (80)
MZ49B	24	KL-50S1	" " B. (10) (23) (80)
MZ49C	24	KL-50S2	" " B. (10) (23) (80)
MZ55A	22		" " B. (11) (54) (79)
MZ55B	24	KL-50S1	" " B. (10) (39) (80)
MZ55C	24	KL-50S2	" " B. (10) (39) (80)
MZ61B	24	KL-50S1	" " B. (10) (24) (80)
MZ61C	24	KL-50S2	JFD Type B. (10) (24) (80)
MZ67B	24	KL-50S1	" " B. (10) (47) (80)
MZ67C	24	KL-50S2	" " B. (10) (47) (80)
MZ74A	22		" " B. (11) (57) (79)
MZ74B	24		" " B. (10) (32) (80)
MZ74C	24		" " B. (10) (32) (80)
MZ80A	22		" " B. (11) (55) (79)
MZ80B	24		" " B. (10) (40) (80)
MZ80C	24		" " B. (10) (40) (80)
MZ86A	22		" " B. (11) (47) (79)
MZ86B	24		" " B. (10) (29) (80)
MZ86C	24		" " B. (10) (29) (80)
MZ92A	22		" " B. (11) (32) (79)
MZ92B	24		" " B. (10) (25) (80)
MZ92C	24		" " B. (10) (25) (80)
MZ98B	24		" " B. (10) (33) (80)
MZ98C	24		" " B. (10) (33) (80)
MZ105B	24		" " B. (10) (41) (80)
MZ105C	24		" " B. (10) (41) (80)
NTH		MT-650	JFD Type A. (15) (41) (78)
NUA		KL-45	" " A. (15) (41) (77)
NUB		KL-45	" " A. (15) (41) (77)
P17287			
P26871			
P27287 (27287)33		KL-50E, L49E1, 5554	" " A. (15) (41) (77)
R6V			
RL3B2			
RL30-180			
RL30-T380			
RL61-300			
R300			
RL000			
RL000R			

* indicates European type.

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	
RI100		BBR	
RI900			
R3003	32		
RR100 *	82	V60, WE 15, W1100, 100R*, 1904, T-1904	
RR180 *	82	1926	
RR-1180 *	82	V100, W1180a, 1927	
RR-2180 *	82	V150, W1180b, 1928, 180R*	
T-5			
T-1904*(1904)*82		1904, RR-100, V 60, WE 15, W1100, 100R*	
TU-34		KL-45	
TU-83		KL-45	
U 1 *	66	C1, CV1, U-RL200	
U-RL200 *	66	C1, CV1, U 1, V-140	JFD Type C. (16)(74)
UX23 (23)			
V60 *	82	WE 15, W1100, 100R*, 1904, T-1904, RR-100	
V70 *	66	B13A, C2, CV2, V70	
V80 *	82	1912	
V100 *	82	W1180a, 1927, RR-1180	
V110 *	66	C1, CV1, U-RL200, U 1	
V150 *	82	W1180b, 1928, 180R*, RR-2180	
V180a *	82	1929	
W-16054	28		
W-41187			
W-42105		3H-1C	
W-42505			
W-42520		5564	
W-43251	6	5E1, 1A1	
W-43282	6	6-1, 1J1, 6E1	
W-43357	33	KL9B, KL-45, 23-55-1, 23-55-A, URB-004	JFD Type B. (10)(23)
W-43506		5565	
W-44118	6	1G1, 4-1	
W-44338		5566	
W-44416			
W-45788	28	KL-75, K80A	JFD Type B. (11)(55)
W-46416	33	K55B, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(39)
W-46773	33	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
W-48669			
W-48670			
W-443357	28		JFD Type B. (11)(57)
WE 15 *	82	W1100, 100R*, 1904, T-1904, RR-100, V60	
WE 22 *	79	501	
WE 34 *	83	1011	
WE 44 *	79	329	
WE 45 *	79	1331	
WE 46 *	79	1014	
WE 55 *	79	452	
W100 *	82	100R*, 1904, T-1904, RR-100, V60, WE 15	
W1150 *	82	150R*, 1911, W1150	
W1180a *	82	1927, RR-1180, V100	
W1180b *	82	1928, RR-2180, V150, 180R*	
W1250 *	82	1920	
W1 V 1700 *	82	1938	
W1 V 2000 *	82	1943	
WW48	48	M-86892-6, 86892-6	
X10A	6		
X23A	6	KX23A,	JFD Type C. (18)(70)
X30A	6	KX30A,	" " C. (18)(74)
X35-35		KL-45	
X36A	6	KX36A	" " C. (18)(71)
X42A	6	KX42A	" " C. (18)(76)
X49A	6	KX49A	" " C. (18)(73)
X55A	6	KX55A	" " C. (18)(75)
X55B	7		" " C. (17)(66)
X61A	6	KX61A	" " C. (18)(69)
X67A	6	KX67A	" " C. (18)(66)
X74A	6	KX74A	" " C. (18)(22)
X80A	6	KX80A	" " C. (18)(23)
X86A	6	KX86A	" " C. (18)(39)
X92A	6	KX92A	
X96A	6	KX96A	

Numbers in circles refer to Notes pages L5 to L8.

Type	Base	Replacement Types	JFD Type	C.
X98A	6	KX98A	"	(18) (21)
X105A	6	KX105A	"	(18) (47)
XB90	6		"	(17) (47)
XD-5	33	KL9C, KL-45, 23-55-1, 23-55-A, URB-004	"	(10) (23)
Y11A	39	KY11A	"	(12) (56)
Y17A	39	KY17A	"	(12) (62)
Y23A	39	KY23A	"	(12) (60)
Y30A	39	KY30A	"	(12) (59)
Y36A	39	KY36A	"	(12) (21)
Y42A	39	KY42A	"	(12) (61)
Y49A	39	KY49A	"	(12) (56)
Y55A	39	KY55A	"	(12) (62)
Y61A	39	KY61A	"	(12) (60)
Y67A	39	KY67A	"	(12) (59)
Y74A	39	KY74A	"	(12) (57)
Y80A	39	KY80A	"	(12) (61)
Y86A	39	KY86A	"	(12) (61)
Y98A	39	KY98A	"	(12) (58)
YTD-16040	33	KL9C, 23-55-1, 23-55-A, URB-004	"	(10) (23)
Y-TU-9	33	KL-45, 23-55-1, 23-55-A, URB-004	"	(10) (39)
Z		Equivalent to JFD Type C.		
Z6A	22	KZ6A	JFD Type A.	(11) (70) (79)
Z11A	22	KZ11A	"	(11) (74) (79)
Z17A	22	KZ17A	"	(11) (22) (79)
Z23A	22	KZ23A	"	(11) (78) (79)
Z30A	22	KZ30A	"	(11) (73) (79)
Z36A	22	KZ36A	"	(11) (75) (79)
Z42A	22	KZ42A	"	(11) (72) (79)
Z49A	22	KZ49A	"	(11) (56) (79)
Z55A	22	KZ55A	"	(11) (54) (79)
Z61A	22	KZ61A	"	(11) (60) (79)
Z67A	22	KZ67A	"	(11) (23) (79)
Z74A	22	KZ74A	"	(11) (57) (79)
Z80A	22	KZ80A	"	(11) (55) (79)
Z86A	22	KZ86A	"	(11) (47) (79)
Z92A	22	KZ92A	"	(11) (32) (79)
Z98A	22	KZ98A	"	(11) (58) (79)
Z105A	22	KZ105A	"	(11) (25) (79)
.0C2 (0C2)		R300		
.030 (030)				
.038 (038)	7	11-150		
.042 (042)		5E1		
1A1	6	5E1, 5-1, 6AA, LLL-225		
1A2	10	30		
1A5	7			
1B1	6	3H1, 3-1		
1B2	10	31		
1C1	6	7H1, 1U1 (5)		
1C2	10	52		
1D1	6	2H1		
1D2	17	101 (5), 4-1 (5), 1G1 (5), 1P1 (5)		
1E1	6	5E1		
1E2	17	6H1 (5), 1S1 (5)		
1F1	6	7-1, 1Q1 (5), 6		
1G1	6	4-1, 1D2 (5), 1P1 (5)		
1H1	6	1Y1, 1R1 (5)		
1J1	6	6-1, 6E1		
1K1	6	5H-1 (5H1), 10AB, 1V1, LLL-25		
1L1	22	1E1 (5), 3H1 (5)		
1N1	22			
1P1	22	1D2 (5), 101 (5), 4-1 (5)		
1Q1	22	1F1 (5), 7-1 (5)		
1R1	22	1Y1 (5)		
1S1	22	1E2 (5), 6H1 (5)		
1T1	22	1R1		
1U1	22	1C1 (5), 7H1 (5)		
1V1	6	5H-1 (5H1), 1K1, 10AB, LLL-25		
1W1				
1X1	6			

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	
1Y1	6	1H1, 1H1 (5), 1OAB	
1Z1	6	9-1	
2	6	3-16 (5)	
2-1			
2-A-5	7		
2A10 (2-A-1)			
2A12			
2A16			
2A20			
2B11	22	KZ17A	
2B1			
2CR-2h1		KL-45	
2H1	6	1D1	
2H-2E			
2I1			
2H5	7		
2H10			
2H20			
2LR-12			
2LR-212	41	LY12D, 5OAB,	JFD Type B. (10) (39)
2M2			
2R67			
2UR		23-55-1, 23-55-A, URB-004	
2UR-215	33	KL-45, 155B, 5555, 23-55-1, 23-55-A, URB-004	B. (10) (39)
2UR-224	33	149B, 5550, KL-45, 23-55-1, 23-55-A, URB-004	JFD Type B. (10) (23)
2VR		23-55-1, 23-55-A, URB-004	
2VR-215	33	155B, KL-45, 23-55-1, 23-55-A, URB-004	JFD Type B. (10) (39)
3-1	6	3H1, 1E1	
3-2			
3-4	22		
3,6D5			
3-7			
3-11			
3-12			
3-11A	22		
3-11A			
3-16	22	KZ11A, Z11A	
3-20			
3-25	11		JFD Type C. (17) (23)
3-38A			
3-40	6	5-B, KX30A	
3-50A	22	KZ19A, Z19A	
3-100			
3-150	7		
3-A-5	7		
3A10			
3CR		23-55-1, 23-55-A, URB-004	
3CR-2h1	36	149D, 5567, KL-45, 23-55-1, 23-55-A, URB-004	JFD Type A. (11) (41)
3ER		23-55-1, 23-55-A, URB-004	
3ER-2h8	21	KL-45J, 149DJ, 5553, 149D (4)	" " B. (8) (51)
3H1	6	1E1	
3H-1-7 (3H17)	24		
3H-1C			
3H2E			
3H10	24		
3H11			
3H17 (3H-1-7)	24		
3H20			
3H25			
3V4	22	3TFV4 (5)	
4	6		
4-1	6	101, 1D2 (5), 1P1 (5)	
4-12	22		
4-20			
4-150			
4A	6		
4A-1 (4A1)	6		
4A-5 (4A5)	7		
4A10			
4A21 (01-4A21)	22		

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	
L4AB 1094			
L4H1	6		
L4H3			
L4H4			
L4H4C	22		
L4H5	7		
L4H10			
L4H11			
L4SR-211			
L4SR-311			
L4TU-9		KL-45	
L4XR-308			JFD Type B. (11)(29)
5-1	6	5E1, 1A1, 6AA, LLL-225	
5-7			
5-10			
5-16	7		
5-20			
5-150	7		
5A5 (5-A-5)	7		
5A10			
5B	11	3-40, 23-55-1 (2), UX23-55-A (2), 23-55-A (2), URB-004 (2)	JFD Type C. (17)(72)
5E1	6	1A1, 5-1, 6AA, LLL-225	
5H-1 (5H1)	6	1KL, 1V1, 10AB, LLL-25	
5H-3	7		
5H-4			
5H-5	7		
5H-10			
5H-11			
5H-20			
5H-150			
6	6	1F1, 7-1	
6-1	6	1J1, 6E1	
6-2			
6-3			
6-4			
6-7			
6-8B			
6-11	22		
6-12			
6-13			
6-14			
6-20			
6.125	21	KL-45J, 23-55-1 (4), 23-55-A (4), URB-004 (4), L42DJ	JFD Type B. (8)(51)
6.126	21	KL-45J, 23-55-1 (4), 23-55-A (4), URB-004 (4), L36DJ	" " A. (8)(48)
6.128		KL-45J,	
6.129	21	KL-45J, 23-55-1 (4), 23-55-A (4), URB-004 (4), L49DJ	" " B. (8)(51)
6.130			
6.133	29	KL-45J, 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " B. (13)(56)
6.133A	29	KL-45J, 23-55-1 (4), 23-55-A (4), URB-004 (4)	" " B. (13)(62)
6.134			
6.135	29	KL-45J, 23-55-1 (4), 23-55-A (4), URB-004 (4), K23AJ	" " A. (13)(39)
6.138			
6.141	7		
6A			JFD Type A. (11)(70)
6AA	6	5E1, 1A1, 5-1, LLL-225	
6-A-5	7		
6A10			
6A15	22		
6A20			
6B	7	4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2), URB-004 (2)	JFD Type C. (17)(72)
6E1	6	6-1, 1J1	
6H1	6	1E2 5, 1S1 (5)	
7-1	6	1F1, 1Q1 (5)	
7-4			
7-11			
7-20	7		
7A5	7		
7A10			
7H1	6	1C1, 1U1 (5)	

Type	Base	Replacement Types	Numbers in circles refer to Notes pages 45 to 48.
8	6		
9	6	KX49A, LP-45	
9-1	6	1Z1	
10-10	7		
10-20	7		
10-23			JFD Type A. (14)(31)
10A		10-23-1, 10-23-A, URB-001, 45-4001	
10AB	6	5H-1, 1K1, 1V1	
10B	33	K11B	
10UR-570	21	K36CJ, K36C (u), KL-45 (u), 23-55-1 (u), 23-55-A (u)	JFD Type A. (9)(14)
11A	28	K11A, 10-23-1, 10-23-A, URB-001, 45-4001	JFD Type A. (11)(74)
11AJ	29	K11AJ, 10-23-1 (u), 10-23-A (u), URB-001 (u), 45-4001 (u)	" " A. (13)(74)
11-A-5	7	216	
11-A-10	7	11-10	
11 KA	28	K11A, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	JFD Type A. (11)(74)
11 KB	33	K11B, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10)(23)
11 KC	33	K11C, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10)(23)
11 KD	36	K11D, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (14)(51)
11 LB	33	L11B, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10)(23)
11 LC	33	L11C, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10)(23)
11 LD	36	L11D, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (14)(51)
13TL	22	13-L	
13U8 *	66	C1	
13U9 *	66	C2	
13-L	22	13TL	
14LD	12		JFD Type C. (66)
17A	28	K17A, 10-23-1, 10-23-A, URB-001, 45-4001, KL-25	" " A. (11)(22)
17KA	28	K17A, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (11)(22)
17KB	33	K17B, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10)(39)
17KC	33	K17C, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10)(39)
17KD	36	K17D, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (14)(36)
17KE	43	K17E, KL-25E, 10-23-2, 10-23-E, URB-002	" " A. (15)(36)(77)
17LB	33	L17B, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10)(39)
17LC	33	L17C, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10)(39)
17LD	36	L17D, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (14)(36)
17MB	33	M17B, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10)(39)
17MC	33	M17C, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (10)(39)
17MD	36	M17D, KL-25, 10-23-1, 10-23-A, URB-001, 45-4001	" " A. (14)(36)
18		5501	
18-10	7	218	
18-110A			
23 (UX-23)			JFD Type C. (18)(74)
23A	28	K23A	
23AJ	29	K23AJ	
23KB	33	K23B, KL-25, 23-55-1, 23-55-A, URB-004	JFD Type A. (10)(24)
23KC	33	K23C, KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10)(24)
23KD	36	K23D, KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14)(29)
23LB	33	L23B, KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10)(24)
24B875	21	K30CJ, K30C (u), KL-25 (u), 23-55-1 (u), 23-55-A (u), URB-004 (u)	" " A. (14)(29)
25B2			
26C5			
30	10	1A2	
30A (Octal)	28	KL-25, 23-55-1, 23-55-A, URB-004	JFD Type A. (11)(73)
30AG (UX)	11	3-25	
30AJ	29	23-55-1 (u), 23-55-A (u), URB-004 (u)	" " A. (13)(39)
30KB	33	K30B, KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10)(47)
30KC	33	K30C, KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10)(47)
30KD	36	K30D, KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14)(29)
30LB	33	L30B, KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10)(47)
30LC	33	L30C, KL-25, 23-55-1, 23-55-A, URB-004	" " A. (10)(47)
30LD	36	L30D, KL-25, 23-55-1, 23-55-A, URB-004	" " A. (14)(29)
31	10	1B2	
32	45	KL-50H, 23-55-3, 23-55-3, 23-55-F, URB-006, BK 52H	" " B. (20)(37)

Type	Base	Replacement Types	Numbers in circles refer to Notes pages 45 to 48.
32DR			JFD Type C. (18)(17)
33A	28	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11)(75)
33H			" " A. (20)(30)
34A	28	KL-25, 23-55-1, 23-55-A, URB-004	" " A. (11)(75)
36A	28	KL-25, 23-55-1, 23-55-A, URB-004, K36A	" " A. (11)(75)
36AJ	29	KL-25 (1), 23-55-1 (1), 23-55-A (1), URB-004 (1)	" " B. (13)(21)
36D			
36H	45	K36H, 23-55-3, 23-55-F, URB-006	JFD Type A. (20)(49)
36MB	33	M36B, KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10)(32)
36MC	33	M36C, KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10)(32)
36MD	36	M36D, KL-45, 23-55-1, 23-55-A, URB-004	" " A. (11)(18)
37A	28	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (11)(75)
038 (.038)	7	11-150	
38A	28	KL-45, 23-55-1, 23-55-A, URB-004	" " A. (11)(75)
40	6	KX42A, 3-40, 23-55-1 (1), UX23-55-A, 23-55-A (1)	" " C. (18)(76)
40A	28	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (11)(72)(79)
40A1	22		
40A2	11	4P45, 23-55-1 (2), 23-55-A (2), UX23-55-A, URB-004 (2)	JFD Type C. (17)(75)
40B1			
40B20 (UX)	11	4P-45, KX42B, 23-55-1 (2), 23-55-A (2), URB-004 (2)	" " C. (17)(75)
40B2 (Octal)	33	K42B, KL-45, 23-55-1, 23-55-A, URB-004	" " A. (10)(40)
40W	6	3-40, KX42A, 4P-45, 23-55-1 (1), 23-55-A (1), URB-004 (1)	" " C. (16)(76)
40X300	6	4P-45, KX42A, 3-40, 23-55-1 (1), 23-55-A (1), URB-004 (1)	" " C. (16)(76)
42A (UX)	6	KX42A, 3-40, 4P-45, 23-55-1 (1), 23-55-A (1), UX23-55-A	" " C. (16)(76)
42A (Octal)	28	42A, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (11)(72)
42AJ			" " A. (13)(47)
42A1	39	KY42A, 50AB	" " A. (12)(61)
42A2	40	KY42B, 50AB	" " B. (19)(62)
42B2	40	KY42C, 50AB	" " B. (19)(62)
42H	45	23-55-3, 23-55-F, URB-006	
42HA	45	5506, 23-55-3, 23-55-F, URB-006	" " B. (11)(72)
45W	6	KX45A, 4P-45, 23-55-1 (1), UX23-55-A, 23-55-A (1)	" " C. (16)(76)
46A1	15		
46B1	15		
48A1			
48A2			
48B1			
48B2			
49A (UX)	6	4P-45, KX49A	JFD Type C. (18)(73)
49A (Octal)	28	KL9A, KL3J36	" " B. (11)(56)
49A1	39	KY49A, 50AB	" " B. (12)(56)
49A2	40	KY49B, 50AB	" " A. (19)(58)
49AJ	29	KL9AJ, 23-55-1 (1), 23-55-A (1), URB-004 (1)	" " B. (13)(56)
49B	33	KL9B, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
49B2	40	KY49C, 50AB	" " A. (19)(58)
49C	33	23-55-1, 23-55-A, URB-004	" "
49H	45	23-55-3, 23-55-F, URB-006	" "
49KA	28	KL9A, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (11)(56)
49KB	33	KL9B, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
49KC	33	KL9C, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
49KD	36	KL9D, KL-45, 23-55-1, 23-55-A, URB-004	" " A. (14)(17)
49LB	33	49B, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
49LC	33	49C, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
49LD	36	49D, KL-45, 23-55-1, 23-55-A, URB-004	" " A. (14)(17)
49W		KL-45, 23-55-1, 23-55-A, URB-004	" "
50	6	KX45A, 4P-45, 23-55-1 (1), UX23-55-A, 23-55-A (1)	JFD Type C. (18)(73)
50A	28	KL9A, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (11)(56)(79)
50A2 (UX)	11	KX49C, 4P-45, 23-55-1 (2), 23-55-A (2), UX23-55-A	" " C. (17)(72)
50A2 (Octal)	33	KL9B, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)(80)
50A2 M0	24	KL50S2, 5507, K249C	" " B. (10)(23)(80)
50B2 (UX)	11	4P-45, 23-55-1 (2), 23-55-A (2), UX23-55-A, URB-004 (2)	" " C. (17)(72)
50B2 (Octal)	33	KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)(80)
50B2 M0	24	KL50S1, 5508	" " B. (10)(23)(80)
50 M0		KL50S1,	" " B. (11)(56)(79)
50W	6	KX49A, 4P-45, 23-55-1 (1), UX23-55-A, 23-55-A (1)	" " C. (18)(73)
50X3	11	4P-45, KX55A, 23-55-1 (2), UX23-55-A, 23-55-A (2)	" " C. (18)(75)
50X3T	11	4P-45, KX55C, 23-55-1 (2), UX23-55-A, 23-55-A (2)	" " C. (17)(66)
50X300	6	KX55A, 4P-45, 23-55-1 (1), UX23-55-A, 23-55-A (1)	" " C. (18)(75)
52	10	1C2	
52H	45	23-55-3, 23-55-F, URB-006	

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type
55A	28	KL-45, 23-55-1, 23-55-A, URB-004, K55A	B. (11)(54)
55A1	39	KY-55A, 50AB	" " B. (12)(62)
55A2	40	KY-55B, 50AB	" " B. (19)(59)
55AJ	29	K55AJ, K55A(4)	" " B. (13)(62)
55B	33	K55B	" " B. (10)(39)
55B2	40	KY55C, 50AB	" " B. (19)(59)
55H	45	K55H, KL-50H	" " B. (20)(37)
55KA	28	K55A, 23-55-1, 23-55-A, URB-004, KL-45	" " B. (11)(61)
55KB	33	K55B, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(39)
55KC	33	K55C, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(39)
55LB	33	L55B, 5509, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(39)
55LC	33	L55C, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(39)
55LF	44	L55F, KL-50H, 23-55-3, 23-55-F, URB-006	" " B. (11)(46)
55LH	45	L55H, KL-50H, 23-55-3, 23-55-F, URB-006	" " B. (20)(37)
55MB	33	M55B, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(39)
55MC	33	M55C, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(39)
55MD	36	M55D, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (11)(36)
60R30	11	KX23B, 23-55-1(2), UX23-55-A, 23-55-A(2), KL-45(2)	JFD Type C. (17)(71)
61A	28	K61A, KL-45, 60-92-1, 60-92-A, URB-007	" " B. (11)(60)
61AJ	29	K61AJ, K61A(4), KL-45(4), 60-92-1(4), 60-92-A(4)	" " B. (13)(60)
61KB	33	K61B, KL-45, 60-92-1, 60-92-A, URB-007	" " B. (10)(24)
61KC	33	K61C, KL-45, 60-92-1, 60-92-A, URB-007	" " B. (10)(24)
61LB	33	L61B, KL-45, 60-92-1, 60-92-A, URB-007	" " B. (10)(24)
61LC	33	L61C, KL-45, 60-92-1, 60-92-A, URB-007	" " B. (10)(24)
61LD	36	L61D, KL-45, 60-92-1, 60-92-A, URB-007	" " B. (11)(44)
61MB	33	M61B, KL-45, 60-92-1, 60-92-A, URB-007	" " B. (10)(24)
61MC	33	M61C, KL-45, 60-92-1, 60-92-A, URB-007	" " B. (10)(24)
62A	28	K61A, KL-45, 60-92-1, 60-92-A, URB-007	" " B. (11)(60)
65R4	11		
67A	28	K67A, KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(23)
67AJ	29	K67AJ, K67A(4), KL-75(4), 60-92-1(4), 60-92-A(4)	" " B. (13)(59)
67KB	33	K67B, KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(47)
67KC	33	K67C, KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(47)
67KD	36	K67D, KL-75, 60-92-1, 60-92-A, URB-007	" " E. (14)(29)
69-2027		3-40	
69-2028		3-220	
69-2033	33	L49B, KL-45, 23-55-1, 23-55-A, URB-004	JFD Type B. (10)(23)
69-2037	33	L49C, KL-45	" " A. (10)(40)
69-2047			" " B. (10)(23)
74A	28	K74A, KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(57)
74AJ	29	K74AJ, K74A(4), KL-75(4), 60-92-1(4), 60-92-A(4)	" " B. (13)(57)
74KA	28	K74A, KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(57)
74KB	33	K74B, KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(32)
74KC	33	K74C, KL-75, 60-92-1, 60-92-A, URB-007	" " E. (10)(32)
74KD	36	K74D, KL-75, 60-92-1, 60-92-A, URB-007	" " E. (11)(48)
75		KL-75	
79A	28	K80A, KL-75, 60-92-1, 60-92-A, URB-007	JFD Type B. (11)(55)
79KB	33	K79B, KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(40)
79KC	33	K79C, KL-75, 60-92-1, 60-92-A, URB-007	" " B. (10)(40)
80		L4P-45	
80A (UX)	6	UX60-92-1	JFD Type C. (16)(22)
80A (Octal)	28	K80A, KL-75, 60-92-1, 60-92-A, URB-007	" " B. (11)(55)
80A	27	80B2	
80A2	27		
80AJ	29	K80AJ, K80A(4), KL-75(4), 60-92-1(4), 60-92-A(4)	" " B. (13)(47)
80B2	27	80A1	
80F	44		
80H2	27		
80L4	11	LX23B, L23B(2)	JFD Type C. (17)(71)
80L8	11	LX23C, L23C(2)	" " C. (17)(71)
80LB	33	L80B	" " B. (10)(40)
80LC	33	L80C	" " B. (10)(40)
80R	6	KX23A, X23A, K23A(1)	" " C. (18)(70)
80R4	11	KX23B, K24B(2)	" " C. (17)(71)
80R8	11	KX23C, K24C(2)	" " C. (17)(71)
82A	28	60-92-1, 60-92-A, URB-007	
82LB	33	60-92-1, 60-92-A, URB-007	" " B. (10)(40)
85L75CC			

* indicates European type.				Numbers in circles refer to Notes pages 45 to 48.	
Type	Base	Replacement Types		JFD Type	B.
85LC	33	L85C		"	(10)(29)
85LD	36	L85D		"	(11)(41)
85R8	11	KX23C, 10-23-1 (2), 10-23-A (2), URB-001 (2)		"	(17)(71)
86A	28	60-92-1, 60-92-A, URB-007		"	(11)(47)
86A1	27				
86A2	27				
86AJ	29	K80AJ, K80A (4), KL-75 (4), 60-92-1 (4), 60-92-A (4)		"	(13)(44)
86B2	27				
86KB	33	K86B		"	(10)(29)
86KC	33	K86C		"	(10)(29)
86KD	36	K86D		"	(11)(41)
88A	28	60-92-1, 60-92-A, URB-007		"	(11)(47)
90A	28			JFD Type	B. (11)(32)
90AJ	29			"	(13)(40)
90F	44	K90F		"	(11)(28)
90R8	11	KX30C, K30C (2), KL-25 (2), 23-55-1 (2), 23-55-A (2)		"	(17)(76)
92A	28	KL-75, 60-92-1, 60-92-A, URB-007		"	(11)(32)
92A1	27				
92A2	27				
92B2	27				
92KB	33	K92B		JFD Type	B. (10)(25)
92KC	33	K92C		"	(10)(25)
92KD	36	K92D		"	(11)(41)
94R8	11	KX30C, K30C (2), 23-55-1 (2), 23-55-A (2), URB-004 (2)		"	(17)(76)
95K2	33	KL2C, 5530, KL-45, 23-55-1, 23-55-A, URB-004		"	(10)(40)
98 (D-98)	7	9-20			
98A	28	K98A, KL-75, 92-105-1, 92-105-A		"	(11)(58)
98AJ	29	K98AJ, K98A (4), KL-75 (4), 92-105-1 (4), 92-105-A (4)		"	(13)(48)
100	7	9-20			
100-37	42	L49CJ, KL-45J, KL-45 (4), 23-55-1 (4), 23-55-A (4), 5502		JFD Type	B. (9)(39)
100-38	42	L42CJ, KL-45J, KL-45 (4), 23-55-1 (4), 23-55-A (4), 5503		"	(9)(22)
100-40	49				
100-45	42	L55CJ, L55C (4), KL-45 (4), 23-55-1 (4), 23-55-A (4)		"	(9)(39)
100-46	42	L80CJ, L80C (4), KL-75 (4), 60-92-1 (4), 23-55-A (4)		"	(9)(40)
100-52	17	1D2			
100-53	17	1E2			
100-55	49				
100-61	49				
100-68	6	1G1, 4-1			
100-69	6	1W1			
100-70	42	L49BJ, L49B (4), KL-45J, KL-45 (4), 23-55-1 (4), 23-55-A (4)		JFD Type	B. (9)(39)
100-74	49				
100L4	11	LX30B, L30B (2), 23-55-1 (2), UX23-55-A, 23-55-A (2)		"	(17)(76)
100L8	11	LX30C, L30C (2), 23-55-1 (2), UX23-55-A, 23-55-A (2)		"	(17)(76)
100R *	82	1904, RR100, V60, WE 15, W1100, T-1904			
100R	6	KX30A, K30A (1), 4P-45, 23-55-1 (1), UX23-55-A, 23-55-A (1)		"	(18)(74)
100RL	11	KX30B, K30B (2), 4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2)		"	(17)(76)
100R8	11	KX30C, K30C (2), 4P-45, 23-55-1 (2), UX23-55-A, 23-55-A (2)		"	(17)(76)
101		9-20			
105 (D-105)	7	9-20, 9-A-5			
105A	28	K105A		JFD Type	B. (11)(25)
105KC	33	K105C		"	(10)(41)
105KD	36	K105D		"	(11)(26)
105ML	11	MX30B, 4P-45		"	(17)(76)
110 (D-110)	7	11-20, 10-20			
115.14	33	KL9B, KL-45, 23-55-1, 23-55-A, URB-004		"	(10)(23)
115.22	36	K55D, KL-45, 23-55-1, 23-55-A, URB-004		"	(11)(36)
115.23	33	K55B, KL-45, 23-55-1, 23-55-A, URB-004		"	(10)(39)
115.28	36	KL9D, KL-45, 23-55-1, 23-55-A, URB-004		"	(11)(41)
115.40	28	K55A, KL-45, 23-55-1, 23-55-A, URB-004		"	(11)(54)
115.41	33	KL9B, KL-45, 23-55-1, 23-55-A, URB-004		"	(10)(23)
115.42	36	K36D, KL-25, 23-55-1, 23-55-A, URB-004		"	(11)(29)
115.53	33	K55B, KL-45, 23-55-1, 23-55-A, URB-004		"	(10)(39)
115.53X		KL-45, 23-55-1, 23-55-A, URB-004		JFD Type	B. (10)(39)
115.55	36	KL2D, KL-45, 23-55-1, 23-55-A, URB-004		"	(8)(51)
115.58					
115.62	33				
115.65	42	KL9BJ, KL9B (4), KL-45 (4), 23-55-1 (4), 23-55-A (4)		"	(8)(51)
117.24	33	L42B, KL-45, 23-55-1, 23-55-A, URB-004		"	(10)(40)
117A					

* indicates European type.

Numbers in circles refer to Notes pages L5 to L8.

Type	Base	Replacement Types	
118	7	11A5	
120Lh	11	LX36B, L36B (2), KL-25 (2), 23-55-1 (2), 23-55-A (2)	JFD Type C. (17)(73)
120L8	11	LX36C, L36C (2), KL-25 (2), 23-55-1 (2), 23-55-A (2)	" " C. (17)(73)
120R	6	KX36A, X36A, K36A (1)	" " C. (18)(71)
120Rh	11	KX36B, K36B (2)	" " C. (17)(73)
120R8	11	KX36C, K36C (2), LP-L5	" " C. (17)(73)
125	7	10A5	
126 (D-126)	7	12-20	
130	7		
130R	6	KX36A, X36A, LP-L5	JFD Type C. (18)(71)
130Rh	11	KXh2B, Kh2B (2), LP-L5	" " C. (17)(75)
130R8	11	KXh2C, Kh2C (2), LP-L5	" " C. (17)(75)
135K1	33	Kh2B, KL-L5, 23-55-1, 23-55-A, URB-00L	" " B. (10)(23)
135K1A	h2	Kh2BJ, KL-L5 (4), 23-55-1 (4), 23-55-A (4), URB-00L (4)	" " B. (9)(39)
135T380			
1h0	6	KXh2A, Xh2A, LP-L5	
1h0A	6	KXh2A, Xh2A, LP-L5	JFD Type C. (18)(76)
1h0KB (UX)	11	KXh2B, LP-L5, UX23-55-A	" " C. (17)(75)
1h0KB (Octal)	33	Kh2B, KL-L5, 23-55-1, 23-55-A, URB-00L	" " A. (10)(40)
1h0KC (UX)	11	KXh2C, LP-L5, UX23-55-A	" " C. (17)(75)
1h0KC (Octal)	33	Kh2C, KL-L5, 23-55-1, 23-55-A, URB-00L	" " A. (10)(40)
1h0Lh	11	LXh2B, LP-L5, UX23-55-A	" " C. (17)(75)
1h0L8	11	LXh2C, LP-L5, UX23-55-A	" " C. (17)(75)
1h0LhLh	12	LXh2D, LP-L5, UX23-55-A	" " C. (66)
1h0LB (UX)	11	LXh2B, LP-L5, UX23-55-A	" " C. (17)(75)
1h0LB (Octal)	33	Lh2B, KL-L5, 23-55-1, 23-55-A, URB-00L	" " A. (10)(40)
1h0LC (UX)	11	LXh2C, LP-L5, UX23-55-A	" " C. (17)(75)
1h0LC (Octal)	33	Lh2C, KL-L5, 23-55-1, 23-55-A, URB-00L	" " A. (10)(40)
1h0LD (UX)	12	LXh2D, LP-L5, UX23-55-A	" " C. (66)
1h0LD (Octal)	36	Lh2D, KL-L5, 23-55-1, 23-55-A, URB-00L	" " A. (14)(33)
1h0LR	11	LP-L5	JFD Type C. (17)(72)
1h0Mh	11	MXh2B, Mh2B (2), LP-L5, UX23-55-A	" " C. (17)(75)
1h0M8	11	MXh2C, Mh2C (2), LP-L5, UX23-55-A	" " C. (17)(75)
1h0R	6	KXh2A, Xh2A, Kh2A (1), LP-L5, UX23-55-A	" " C. (18)(76)
1h0Rh	11	KXh2B, Kh2B (2), LP-L5, UX23-55-A	" " C. (17)(75)
1h0R8	11	5510, KXh2C, Kh2C (2), LP-L5, UX23-55-A	" " C. (17)(75)
1h0RhLh	12	KXh2D, Kh2D (3), LP-L5, UX23-55-A	" " C. (66)
1h5A	6		
1h9C			
150	7	15A5	
150R *	82	1911, wi 150	
150R	6	KXh5A, Xh5A, Kh5A (1)	JFD Type C. (18)(73)
155	7	158	
155-20		5511	" " B. (10)(23)
158	7	18-10	
159			" " A. (10)(24)
160A			
160KB	33	5533, Kh9B, KL-L5, 23-55-1, 23-55-A, URB-00L	" " B. (10)(23)
160LB	33	5550, Lh9B, KL-L5, 23-55-1, 23-55-A, URB-00L	" " B. (10)(23)
160LC	33	5552, Lh9C, KL-L5, 23-55-1, 23-55-A, URB-00L	" " B. (10)(23)
160R	6	KXh9A, Xh9A, Kh9A (1), LP-L5, UX23-55-A	" " C. (18)(72)
160Rh	11	KXh9B, Kh9B (2), LP-L5, UX23-55-A	" " C. (17)(72)
16h		7A5	
165A	6	KXh9A, LP-L5, UX23-55-A	" " C. (18)(73)
165KB (UX)	11	KXh9B, LP-L5, UX-23-55-A	" " C. (17)(72)
165KB (Octal)	33	Kh9B, KL-L5, 23-55-1, 23-55-A, URB-00L	" " B. (10)(23)
165KC (UX)	11	KXh9C, LP-L5, UX23-55-A	" " C. (17)(72)
165KC (Octal)	33	Kh9C, KL-L5, 23-55-1, 23-55-A, URB-00L	" " B. (10)(23)
165KD (UX)	12	KXh9D, LP-L5, UX23-55-A	JFD Type C. (68)
165KD (Octal)	36	Kh9D, KL-L5, 23-55-1, 23-55-A, URB-00L	" " A. (14)(41)
165Lh	11	LXh9B, LP-L5, Lh9B (2), UX23-55-A	" " C. (17)(72)
165L8	11	LXh9C, Lh9C (2), LP-L5, UX23-55-A	" " C. (17)(72)
165LhLh	12	LXh9D, Lh9D (3), LP-L5, UX23-55-A	" " C. (68)
165LB (UX)	11	LXh9B, LP-L5, UX23-55-A	" " C. (17)(72)
165LB (Octal)	33	Lh9B, KL-L5, 23-55-1, 23-55-A	" " B. (10)(23)
165LC (UX)	11	LXh9C, LP-L5, UX23-55-A	" " C. (17)(72)
165LC (Octal)	33	Lh9C, KL-L5, 23-55-1, 23-55-A	" " B. (10)(23)
165LD (UX)	12	LXh9D, LP-L5, UX23-55-A	" " C. (68)
165LD (Octal)	36	Lh9D, KL-L5, 23-55-1, 23-55-A	" " A. (14)(41)
165Mh	11	MXh9B, Mh9B (2), LP-L5, UX23-55-A	" " C. (17)(72)
165M8	11	MXh9C, Mh9C (2), LP-L5, UX23-55-A	" " C. (17)(72)
165R	6	KXh9A, Xh9A, Kh9A (1), LP-L5, UX23-55-A	" " C. (18)(73)
165Rh	11	5512, KXh9B, Kh9B (2), LP-L5, UX23-55-A	" " C. (17)(72)
165R8	11	KXh9C, Kh9C (2), LP-L5, UX23-55-A	" " C. (17)(72)

* indicates European type.

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type	C.
165RL4	12	KX49D, K49D (3), LP-45, UX23-55-A	"	(68)
168R8	11	KX49C, K50C (2), LP-45, UX23-55-A	"	(72)
169		10A5	"	
17OKL	33	23-55-1, 23-55-A, URB-004	"	(39)
180A	6	KX55A, K55A (1), LP-45, UX23-55-A	"	(75)
180KB (UX)	11	K55B (2), KX55B, LP-45, UX23-55-A	"	(66)
180KB (Octal)	33	K55B, KL-45, 23-55-1, 23-55-A, URB-004	"	(39)
180KC (UX)	11	KX55C, K55C (2), LP-45, UX23-55-A	"	(66)
180KC (Octal)	33	K55C, KL-45, 23-55-1, 23-55-A, URB-004	"	(39)
180KD (UX)	12	KX55D, K55D (3), LP-45, UX23-55-A	"	(66)
180KD (Octal)	36	K55D, KL-45, 23-55-1, 23-55-A, URB-004	"	(36)
180R	6			
180R *	82	RR2180, V150, W180b, 1928		
185	11	KX49C, LP-45	JFD Type	(72)
185A (UX)	6	KX55A, LP-45, UX23-55-A	"	(72)
185A (Octal)	28	K55A, KL-45, 23-55-1, 23-55-A, URB-004	"	(51)
185KB (UX)	11	KX55B, K55B (2), LP-45, UX23-55-A	"	(66)
185KB (Octal)	33	K55B, KL-45, 23-55-1, 23-55-A, URB-004	"	(39)
185KC (UX)	11	KX55C, K55C (2), LP-45, UX23-55-A	"	(66)
185KC (Octal)	33	K55C, KL-45, 23-55-1, 23-55-A, URB-004	"	(39)
185KD (UX)	12	KX55D, K55D (3), LP-45, UX23-55-A	"	(66)
185KD (Octal)	36	K55D, KL-45, 23-55-1, 23-55-A, URB-004	"	(36)
185L4	11	LX55B, LP-45, UX23-55-A	"	(66)
185L8	11	LX55C, LP-45, UX23-55-A	"	(66)
185L44	12	LX55D, LP-45, UX23-55-A	"	(65)
185LE (UX)	11	LX55B, LP-45, UX23-55-A	"	(66)
185LE (Octal)	33	L55B, KL-45, 23-55-1, 23-55-A, URB-004	"	(39)
185LC (UX)	11	LX55C, LP-45, UX23-55-A	"	(66)
185LC (Octal)	33	L55C, KL-45, 23-55-1, 23-55-A, URB-004	"	(39)
185LD (UX)	12	LX55D, LP-45, UX23-55-A	"	(66)
185LD (Octal)	36	L55D, KL-45, 23-55-1, 23-55-A, URB-004	JFD Type	(36)
185M4	11	MX55B, M55B (2), LP-45, UX23-55-A	"	(66)
185M8	11	MX55C, M55C (2), LP-45, UX23-55-A	"	(66)
185R	6	KX55A, X55A, K55A (1), LP-45,	"	(75)
185RL	11	KX55B, K55B (2), LP-45, UX23-55-A	"	(66)
185R8	11	5513, KX55C, K55C (2), LP-45, UX23-55-A	"	(66)
185RL4	12	KX55D, K55D (3), LP-45, UX23-55-A	"	(65)
185X8				
190K1	28	K61A, KL-45, 60-92-1, 60-92-A, URB-007	"	(60)
192A		MT-650		
200L4	11	LX61B, L61B (2), LP-45, UX60-92-A	JFD Type	(68)
200L8	11	LX61C, L61C (2), LP-45, UX60-92-A	"	(68)
200R	6	KX61A, X61A, K61A (1), LP-45, UX60-92-A	"	(69)
200RL	11	KX61B, K61B (2), LP-45, UX60-92-A	"	(68)
200R8	11	KX61C, K61C (2), LP-45, UX60-92-A	"	(68)
203	7	12A5		
216	7	11A5		
218	7	18-10		
220L4	11	LX67B, L67B (2), KL-45 (2), UX60-92-A	JFD Type	(22)
220L8	11	LX67C, L67C (2), KL-45 (2), UX60-92-A	"	(22)
220R	6	KX67A, X67A, K67A (1), KL-45 (1), UX60-92-A	"	(66)
220RL	11	KX67B, K67B (2), KL-45 (2), UX60-92-A	"	(22)
220R8	11	KX67C, K67C (2), KL-45 (2), UX60-92-A	"	(22)
2L0L4	11	LX74B, L74B (2), KL-75 (2), UX60-92-A	"	(23)
2L0L8	11	LX74C, L74C (2), KL-75 (2), UX60-92-A	"	(23)
2L0R	6	KX74A, K72A (1), KL-75 (1), UX60-92-A	"	(22)
2L0RL	11	KX74B, K72B (2), KL-75 (2), UX60-92-A	"	(23)
2L0R8	11	KX74C, K72C (2), KL-75 (2), UX60-92-A	"	(23)
2L5A	6	K75A (1), 60-92-1 (1), UX60-92-A, 60-92-A (1), URB-007 (1)	"	(22)
2L5KA	28	K75A, KL-75, 60-92-1, 60-92-A, URB-007	JFD Type	(57)
2L5KB (UX)	11	K75B (2), KL-75 (2), 60-92-1 (2), UX60-92-A, 60-92-A (2)	"	(23)
2L5KB (Octal)	33	K75B, KL-75, 60-92-1, 60-92-A, URB-007	"	(32)
2L5KC (UX)	11	K75C (2), KL-75 (2), 60-92-1 (2), UX60-92-A, 60-92-A (2)	"	(23)
2L5KC (Octal)	33	K75C, KL-75, 60-92-1, 60-92-A, URB-007	"	(32)
2L5KD (UX)	12	K75D (3), KL-75 (3), 60-92-1 (3), UX60-92-A, 60-92-A (3)	"	(23)
2L5KD (Octal)	36	K75D, KL-75, 60-92-1, 60-92-A, URB-007	"	(48)
250A	6	KX74A, KL-75 (1), 60-92-1 (1), UX60-92-A, 60-92-A (1)	"	(22)
250KB (UX)	11	KX74B, K75B (2), KL-75 (2), 60-92-1 (2), UX60-92-A, 60-92-A (2)	"	(23)
250KB (Octal)	33	K75B, KL-75, 60-92-1, 60-92-A, URB-007	"	(32)
250KC (UX)	11	KX74C, K75C (2), KL-75 (2), 60-92-1 (2), URB-007 (2), UX60-92-A	"	(23)
250KC (Octal)	33	K75C, KL-75, 60-92-1, 60-92-A, URB-007	"	(32)
250KD (UX)	12	KX74D, K75D (3), KL-75 (3), 60-92-1 (3), UX60-92-A	"	(47)
250KD (Octal)	36	K75D, KL-75, 60-92-1, 60-92-A, URB-007	"	(48)

* indicates European type.

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type	C.
250Lh	11	LX7Lb, L7Lb (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (23)
250L8	11	LX7Lc, L7Lc (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (23)
250Mh	11	MX7Lb, M7Lb (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (23)
250M8	11	MX7Lc, M7Lc (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (23)
250R	6	KX7La, X7La, K75A (1), KL-75 (1), 60-92-1 (1), UX60-92-A	"	(18) (22)
250R4	11	KX7Lb, K7Lb (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (23)
250R8	11	KX7Lc, K7Lc (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (23)
250T				
251 *	82	193L		
260				
260Lh	11	LX80B, L80B (2), KL-75 (2), 60-92-1 (2), UX60-92-A	JFD Type	C. (17) (39)
260L8	11	LX80C, L80C (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (39)
260R	6	KX80A, X80A, K78A (1), KL-75 (1), 60-92-1 (1), UX60-92-A	"	(18) (23)
260R4	11	KX80B, K78B (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (39)
260R8	11	KX80C, K78C (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (39)
270FB (UX)	11	KX8CB, K82B (2), KL-75 (2), 60-92-1 (2), UX60-92-A, 60-92-A (2)	"	(17) (39)
270FB (Octal)	33	K82B, 60-92-1, 60-92-A, URB-007	"	B. (10) (40)
270KC (UX)	11	KX80C, K82C (2), KL-75 (2), 60-92-1 (2), UX60-92-A, 60-92-A (2)	"	(17) (39)
270KC (Octal)	33	K82C, 60-92-1, 60-92-A, URB-007	"	B. (10) (40)
270Lh	11	LX80B, L80B (2), KL-75 (2), 60-92-1 (2), UX60-92-A, 60-92-A (2)	"	(17) (39)
270L8	11	LX80C, L80C (2), KL-75 (2), 60-92-1 (2), UX60-92-A, 60-92-A (2)	"	(17) (39)
270Mh	11	MX80B, M80B (2), KL-75 (2), 60-92-1 (2), UX60-92-A, 60-92-A (2)	"	(17) (39)
270M8	11	MX80C, M80C (2), KL-75 (2), 60-92-1 (2), UX60-92-A, 60-92-A (2)	"	(17) (39)
270R	6	KX80A, X80A, K82A (1), KL-75 (1), 60-92-1 (1), UX60-92-A	JFD Type	C. (18) (23)
270R4	11	KX80B, K8CB (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (39)
270R8	11	KX80C, K80C (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (39)
280Lh	11	LX86B, L86B (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (24)
280L8	11	LX86C, L86C (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (24)
280R	6	KX86A, X86A, K86A (1), KL-75 (1), 60-92-1 (1), UX60-92-A	"	(18) (39)
280R4	11	KX86B, K86B (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (24)
280R8	11	KX86C, K86C (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (24)
300Lh	11	LX92B, L90B (2), KL-75 (2), 60-92-1 (2), UX60-92-A	JFD Type	C. (17) (47)
300L8	11	LX92C, L90C (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (47)
300R	6	KX92A, X92A, K90A (1), KL-75 (1), 60-92-1 (1), UX60-92-A	"	(18) (39)
300R4	11	KX92B, K90B (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (47)
300R8	11	KX92C, K90C (2), KL-75 (2), 60-92-1 (2), UX60-92-A	"	(17) (47)
313	7	13-20		
314	7	14-20		
315	7	15-20		
320Lh	11	LX98B, L98B (2), KL-75 (2), 92-105-1 (2), UX92-105-A	JFD Type	C. (17) (32)
320L8	11	LX98C, L98C (2), KL-75 (2), 92-105-1 (2), UX92-105-A	"	(17) (32)
320R	6	KX98A, X96A, K98A (1), KL-75 (1), 92-105-1 (1), UX92-105-A	"	(18) (24)
320R4	11	KX98B, K98B (2), KL-75 (2), 92-105-1 (2), UX92-105-A	"	(17) (32)
320R8	11	KX98C, K98C (2), KL-75 (2), 92-105-1 (2), UX92-105-A	"	(17) (32)
320Xh			"	(17) (32)
329 *	79	WE 44		
380				
386	1	886		
415	9	11-20		
424-90		6-20		
425	7	13-20		
439		3H-20		
444-50		3-20		
449	9	14-20		
452 *	79	WE 55		
454		5-20		
460	7	13-20		
464-90		8-20		
464-200		3H-20		
484-90		16-20		
484-200	7	7-20		
501 *	79	WE 22		
538	7	9-20		
610-10		CL-610-10, 5526		
808-1	42	808-5, L36E1 (4)		
808-5				
838	7	9-20		
876	1			
877				

* indicates European type.

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type
878R48	13		JFD Type C. (18)(14)
886	1		
886A	7		
887			
1011 *	83	WE 34	
1012 *	1/82	6003 (5)	
1012 (USA)	3		
1014 *	79	WE 46	
1210 (USA)	3		
1331 *	79	WE 45	
1508	3		
1516	3		
1904 *	1	RR100 , V 60 , WE 15 , W1100* , 100R* , T-1904	
1911 *	82	W1150 , 150R	
1912 *	82	V80*	
1920 *	82	W1250	
1926 *	82	RR100	
1927 *	82	RR1180 , V100 , W1180a	
1928 *	82	180R * , RR2180 , V150 , W1180b	
1929 *	82	V180a	
1934 *	82	251	
1938 *	82	W1 V 1700	
1943 *	82	W1 V 2000	
2169	7	9-20	
2179	7	9-20	
2342			
2342-1			
2408	7	10-10	
2518			
2600	28		
2601	33	L30E1	
2903	33	L55B, 23-55-1, 23-55-A, URB-004	JFD Type B. (10)(39)
2904	33	L55C, 23-55-1, 23-55-A, URB-004	" " B. (10)(39)
2905	33	L49C, 23-55-1, 23-55-A, URB-004	" " B. (10)(23)
2906		23-55-1, 23-55-A, URB-004	" " A. (10)(40)
2911			
2916			
2917			
2918			
2919			
2922		60-92-1, 60-92-A, URB-007	JFD Type B. (10)(32)
2923		60-92-1, 60-92-A, URB-007	" " B. (10)(40)
3035			JFD Type A. (13)(22)
3271		5504	
3313		KL-45	
3326	36	KL-45, BK42D, 23-55-1, 23-55-A, URB-004	JFD Type A. (14)(33)
3334 (UX)	12	KX49D	" " C. (68)
3334 (Octal)	36	KL49D, KL-45	" " A. (14)(41)
3334A (UX)	12	KX49D	" " C. (68)
3334A (Octal)	36	KL49D, KL-45	" " A. (14)(41)
3613	33	BK 55B, KL-45, 23-55-1, 23-55-A, URB-004	" " B. (10)(39)
3614		KL-45	
5001	7	12-A-5	
5002	7	12-A-5	
5003	7	10-A-5	
5184			
5500		3M2-419	
5501		18	
5502	42	100-37, L49CJ	JFD Type B. (9)(39)
5503	42	100-38, L42CJ	" " B. (9)(22)
5504		3271	
5505		26871	
5506	45	42HA, 23-55-3, 23-55-F, URB-006	JFD Type B. (11)(72)
5507	24	50A2MG, K249C	" " B. (10)(23)(80)
5508	24	50B2MG, K249B	" " B. (10)(23)(80)
5509	33	551B, L55B	" " B. (10)(39)
5510	11	140R8 KX42C, 4P-45	" " C. (17)(75)
5511	33	155-20, L49B	" " B. (10)(23)
5512	11	165R4, 4P-45, KX49B, 50B2	" " C. (17)(72)
5513	11	185R8, 4P-45, KX55C	" " C. (17)(66)

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type	A.
5514	33	BK23B, KL-25	"	(10) (24)
5515	33	BK36B, KL-45	"	A. (10) (32)
5516	33	BK42C, KL-45	"	A. (10) (40)
5517	36	BK42D, KL-45	"	A. (14) (33)
5518	36	EK49D, KL-45	"	A. (14) (41)
5519	33	BK55B, KL-45	"	B. (10) (39)
5520	33	BM36C, KL-45	"	A. (10) (32)
5521	33	BM42C, KL-45	"	A. (10) (40)
5522	33	BM49B, KL-45	"	B. (10) (23)
5523	33	BM49C, KL-45	"	E. (10) (23)
5524	33	BM55B, KL-45	"	B. (10) (39)
5525	33	EM80E, KL-75	"	B. (10) (40)
5526		CL-610-10, 610-10		
5527	33	K24C, KL-25	"	A. (10) (24)
5528	41	K38B2, 50AB		
5529	38	K55CP		
5530	33	KL2C, KL-45	JFD Type	A. (10) (40)
5531	43	KL2E, KL-50E	"	A. (15) (33) (77)
5532	33	KL3B, KL-45	"	A. (10) (40)
5533	33	KL9B, KL-45	"	B. (10) (23)
5534	33	KL9C, KL-45	"	B. (10) (23)
5535	33	K55B, KL-45	"	B. (10) (39)
5536	33	K55C, KL-45	"	B. (10) (39)
5537	33	K67B, KL-45	"	B. (10) (47)
5538	33	K74C, KL-75	"	B. (10) (32)
5539	33	K80B, KL-75	"	B. (10) (40)
5540	33	K87B, KL-75	"	B. (10) (29)
5541	28	K92A, KL-75	"	B. (11) (32)
5542	33	K95B, KL-75	"	B. (10) (25)
5543	41	KY42D,	JFD Type	B. (16) (62)
5544	33	L40C, KL-45	"	A. (10) (40)
5545		L40S		
5546	37	L40S2, KL-50S2	"	A. (10) (40)
5547	33	L42B, KL-45	"	A. (10) (40)
5548	33	L42C, KL-45	"	A. (10) (40)
5549	36	L42D, KL-45	"	A. (14) (33)
5550	33	L49B, KL-45	"	B. (10) (23)
5551	42	L49BJ, L49B (4), KL-45 (4)	"	B. (9) (39)
5552	33	L49C, KL-45	"	B. (10) (23)
5553	21	L49DJ, L49D (4), KL-45 (4)	"	B. (8) (51)
5554	33	L49E1, KL-50E	"	A. (15) (41) (78)
5555	33	L55B, KL-45	"	B. (10) (39)
5556	33	L55C, KL-45	"	B. (10) (39)
5557	37	L55S1, KL-50S1	"	B. (10) (39) (81)
5558	37	L55S2, KL-50S2	"	B. (10) (39) (81)
5561	33	L80B, KL-75	"	B. (10) (40)
5562	33	M42B, KL-45	"	A. (10) (40)
5563	33	M49B, KL-45	"	B. (10) (23)
5564		W-42520		
5565		W-43506		
5566		W-44338		
5567	36	L49D, KL-45, 3CR-241	JFD Type	A. (14) (41)
5571	6	KX74A, 245A, 250A	"	C. (18) (22)
5574	33	K90B, KL-75	"	B. (10) (25)
5576	42	K17BJ,	"	A. (9) (39)
5577	11	165R8, KX49C, 50A2	"	C. (17) (72)
5579	33	K74B, KL-75	"	B. (10) (36)
5580	33	L66B, KL-45	"	B. (10) (47)
5581	29	K49AJ,	"	B. (13) (56)
5583	33	M55E1, 8601, KL-50E	"	B. (15) (36) (78)
5584	40	KY55C, 55B2	"	B. (19) (59)
5586	45	BK52H, 32, KL-50H	"	B. (20) (37)
5587	21	L42DJ, 6.125, KL-45J	"	B. (8) (51)
5588	21	L36DJ, 6.126, KL-45J	"	A. (8) (48)
5589	36	L36D, KL-45	"	A. (11) (48)
5590	11	KX42B, K40X, 40B2, 140R4	"	C. (17) (75)
5591	43	L42E, KL-50E	"	A. (15) (33) (77)
5592	40	KY42B, 42A2	"	B. (19) (62)
5593	40	KY42C, 42B2	"	B. (19) (62)
5594	43	L49E, KL-50E	"	A. (15) (41) (77)
5595	40	KY49B, 49A2	"	A. (19) (58)
5596	40	KY49C, 49B2	"	A. (19) (58)
5597	36	L55D, KL-45	"	B. (14) (36)
5598	40	KY55B, 55A2	"	B. (19) (59)

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type	Notes
5600	11	KX23B, 60R30	C.	(17) 72
5601	11	LX42B, 140L4	" "	C. (17) 75
5602	11	LX42C, 140L8	" "	C. (17) 75
5603	11	LX42D, 140L44	" "	C. (66)
5604	33	L36B, KL-45	" "	A. (10) 32
5605	12	KX42D, 140R44	" "	C. (66)
5606	11	LX49B, 165 LB, 165L4	" "	C. (17) 72
5607	11	LX49C, 165 LC, 165L8	" "	C. (17) 72
5608	12	LX49D, 165L44	" "	C. (68)
5609	33	L36C, KL-45	" "	A. (10) 32
5610	12	KX49D, 165R44	" "	C. (68)
5611	38	L55CP, L55CPR		
5612	11	KX55B, 185 KB, 185R4	JFD Type C.	(17) 66
5613	45	K55H, K52H, 55H, KL-50H	" " B.	(20) 37
5614	11	LX55B, 185 LB(UX), 185L4	" " C.	(17) 66
5615	11	LX55C, 185 LC(UX), 185L8	" " C.	(17) 66
5616	12	LX55D, 185L44	" " C.	(65)
5617	12	KX55D, 185R44	" " C.	(65)
5618	11	KX74B, 245 KB(UX), 250 KB(UX), 250R4	" " C.	(17) 23
5619	11	KX74C, 245 KC(UX), 250 KC(UX), 250R8	" " C.	(17) 23
5620	11	300R4, KX92B	" " C.	(17) 47
5621	33	L55E1, 8664, KL-50E	" " B.	(15) 36 (78)
5622	33	M49C, 16036, KL-45	" " B.	(10) 23
5623	33	BK49B, 115.41, KL-45	" " B.	(10) 23
5624	33	K36B, KL-45	" " A.	(10) 32
5625	33	K36C, KL-45	" " A.	(10) 32
5626	36	K36D, KL-45	" " A.	(11) 48
5627	43	K36E, KL-50E	" " A.	(15) 48 (77)
5628	33	K36E1, KL-50E	" " A.	(15) 48 (78)
5629	33	K42B, K42B, KL-45	" " A.	(10) 40
5630	36	K42D, K42D, KL-45	" " A.	(11) 33
5632	33	K42E1, KL-50E	JFD Type A.	(15) 33 (78)
5633	36	K49D, KL-45	" " A.	(11) 41
5634	43	K49E, KL-50E	" " A.	(15) 41 (77)
5635	33	K49E1, KL-50E	" " A.	(15) 41 (78)
5636	44	K80F, KL-75H	" " B.	(11) 43
5637	45	K80H, KL-75H	" " B.	(20) 31
5638	44	K90F, KL-75H	" " B.	(11) 28
5639	43	L55E, KL-50E	" " B.	(15) 36 (77)
5640	45	M42H, KL-50H	" " A.	(20) 31
5641	45	M52H, KL-50H	" " A.	(20) 42
5642	43	M55E, KL-50E	" " B.	(15) 36 (77)
5643		115.46		
5644	36	K55D, KL-45	JFD Type B.	(11) 36
5645	43	K55E, KL-50E	" " B.	(15) 36 (77)
5646	33	K55E1, KL-50E	" " B.	(15) 36 (78)
5647	33	BK62B, KL-45	" " B.	(10) 24
5648	33	K60C, 16032, KL-45	" " B.	(10) 24
5649	33	M61B, KL-45	" " B.	(10) 24
5650	43	K17E, KL-25E	" " A.	(15) 36 (77)
5651	45	M36H, KL-25H	" " A.	(20) 49
5652	36	BK55D, KL-45	" " B.	(11) 36
5653	29	K23AJ, 6.135	" " A.	(13) 60
5655	45	M55H, KL-50H	" " B.	(20) 31
5656	45	M49H, KL-50H	" " A.	(20) 42
5657	33	M55B, KL-45	" " B.	(10) 39
5658	36	BK32D, 115.42, KL-25	" " A.	(11) 48
5660			JFD Type B.	(10) 47
5662			" " A.	(9) 41
5663			" " B.	(9) 41
5664			" " A.	(9) 47
5666			" " B.	(11) 50
5667			" " B.	(10) 40
5669			" " C.	(18) 73
5671			" " A.	(15) 41 (77)
5672			" " C.	(18) 73
5673			" " C.	(18) 66
5674			" " C.	(17) 74
5675			" " B.	(10) 25
5676			" " B.	(10) 40
5678			" " C.	(18) 73
5679			" " B.	(11) 57

* indicates European type.

Numbers in circles refer to Notes pages 45 to 48.

Type	Base	Replacement Types	JFD Type
5680			C. (18)(74)
5681			B. (12)(62)
5682			B. (12)(56)
5683			A. (12)(61)
5684			B. (11)(54)
5685			B. (11)(56)
5686			B. (11)(72)
5687			A. (11)(75)
5688			A. (15)(48)(77)
5689			A. (10)(40)
5690			B. (11)(46)
5691			B. (11)(31)
5692			B. (9)(39)
5693			A. (20)(49)
5694			B. (9)(39)
5695			B. (10)(40)
5696			JFD Type B. (10)(36)
5697			B. (10)(36)
5698			B. (10)(25)
5699			B. (11)(48)
5700			B. (10)(39)
5701			B. (11)(47)
5702			A. (20)(49)
5703			A. (10)(39)
5704			B. (11)(28)
5705			B. (11)(41)
5706			C. (17)(68)
5707			A. (10)(24)
5708			B. (10)(24)
5709			A. (10)(24)
5710			A. (10)(47)
5711			A. (20)(42)
5712			A. (10)(40)
5714			JFD Type B. (20)(45)
6003 *	1	1012 *(5)	
6310			
6412	3	9-A-5	
6420	3		
8589			JFD Type B. (10)(39)
8593	33	KL-45, 23-55-1, 23-55-A, URB-004, M49B	B. (10)(39)
8595	33	L55B, KL-45, 23-55-1, 23-55-A, URB-004	B. (10)(23)
8598	33	L55B, KL-45, 23-55-1, 23-55-A, URB-004	B. (10)(39)
8600		KL-25, 5582	
8601	33	KL-50E, M55E1, 5583	A. (15)(36)(77)
8663			
8664	33	L55E1, KL-50E	A. (15)(36)(77)
8850			
8853			
8917			
9941			
10077	33	BK42C, KL-45, 23-55-1, 23-55-A, URB-004	JFD Type A. (10)(40)
10079	36	BK42D, KL-45, 23-55-1, 23-55-A, URB-004	A. (11)(33)
10233	28		
16032	33	L55B, KL-45, 23-55-1, 23-55-A, URB-004	B. (10)(24)
16035	33	L42C, KL-45, 23-55-1, 23-55-A, URB-004	A. (10)(40)
16036	33	L55C, KL-45, 23-55-1, 23-55-A, URB-004	B. (10)(23)
16037	43	L17E, KL-25E, 10-23-2, 10-23-E, URB-002	A. (15)(36)(77)
16039			B. (10)(39)
16040	33	K49C, KL-45, 23-55-1, 23-55-A, URB-004	B. (10)(23)
16041			
16042			
16043			
16054			
26871		5505	
27287 (P-27287)33		L49E1, KL-50E, 5554	JFD Type A. (15)(41)(77)

Type	Base	Replacement Types	Numbers in circles refer to Notes pages 45 to 48.
38710			JFD Type B. (10)(23)
45788	28	K80A, KL-75	" " B. (11)(55)
69116	36	KL9D, KL-45, 23-55-1, 23-55-A, URB-004	" " A. (11)(41)
81963	46	L30J, KL-25J	
81966(-2)	33	KL9C, KL-45, 23-55-1, 23-55-A, URB-004	JFD Type B. (10)(23)

Miscellaneous Information

NOTES

1. Original base diagram is 6 --use adapter or change to octal socket and rewire to base 28.
2. Original base diagram is 11 --use adapter or change to octal socket and rewire to base 33.
3. Original base diagram is 12 --use adapter or change to octal socket and rewire to base 36.
4. Two pins of the original tube are shorted internally with a jumper (usually pins 3 and 4). Check original ballast to determine where short is connected and then arrange to short externally the same two pins of replacement ballast.
5. Tube has similar electrical characteristics but has a different base.
- 6.
- 7.

The following notes apply only to using JFD replacement ballasts Types A, B, or C.

8. Break off pin number 1.
9. Break off pins number 1, 2.
10. Break off pins number 1, 2, 4.
11. Break off pins number 1, 2, 4, 8.
12. Break off pins number 1, 2, 7.
13. Break off pins number 1, 2, 8.
14. Break off pins number 1, 4.
15. Break off pins number 1, 4, 8.
16. Break off pins number 1, 7.
17. Break off pin number 2.
18. Break off pins number 2, 3.
19. Break off pins number 2, 7.
20. Break off pin number 4.

NOTES

Cut shorting strips between pins at the following colors:

21. Cut strips: Black
22. " " Black Brown
23. " " Black Brown Yellow
24. " " Black Brown Yellow Blue
25. " " Black Brown Yellow Blue Red
26. Cut strips: Black Brown Yellow Blue Red Gray
27. " " Black Brown Yellow Blue Red Gray Green
28. " " Black Brown Yellow Blue Red Green
29. " " Black Brown Yellow Blue Gray
30. " " Black Brown Yellow Blue Gray Green
31. Cut strips: Black Brown Yellow Blue Green
32. " " Black Brown Yellow Red
33. " " Black Brown Yellow Red Gray
34. " " Black Brown Yellow Red Gray Green
35. " " Black Brown Yellow Red Green
36. Cut strips: Black Brown Yellow Gray
37. " " Black Brown Yellow Gray Green
38. " " Black Brown Yellow Green
39. " " Black Brown Blue
40. " " Black Brown Blue Red
41. Cut strips: Black Brown Blue Red Gray
42. " " Black Brown Blue Red Gray Green
43. " " Black Brown Blue Red Green
44. " " Black Brown Blue Gray
45. " " Black Brown Blue Gray Green
46. Cut strips: Black Brown Blue Green
47. " " Black Brown Red
48. " " Black Brown Red Gray

NOTES

49.	Cut strips:	Black	Brown		Red	Gray	Green
50.	" "	Black	Brown		Red		Green
51.	" "	Black	Brown			Gray	
52.	" "	Black	Brown			Gray	Green
53.	" "	Black	Brown				Green
54.	Cut strips:	Black		Yellow	Blue		
55.	" "	Black		Yellow	Blue	Red	
56.	" "	Black			Blue		
57.	" "	Black			Blue	Red	
58.	" "	Black			Blue	Red	Gray
59.	Cut strips:	Black			Blue		Gray
60.	" "	Black				Red	
61.	" "	Black				Red	Gray
62.	" "	Black					Gray
63.	" "		Brown				
64.	Cut strips:		Brown	Yellow	Blue		
65.	" "		Brown	Yellow	Blue	Red	
66.	" "		Brown	Yellow		Red	
67.	" "		Brown		Blue		
68.	" "		Brown		Blue	Red	
69.	Cut strips:		Brown			Red	
70.	" "			Yellow			
71.	" "			Yellow	Blue		
72.	" "			Yellow	Blue	Red	
73.	" "			Yellow		Red	
74.	Cut strips:				Blue		
75.	" "				Blue	Red	
76.	" "					Red	

NOTES

Note
77

Make changes on set socket as shown below.
Original Wiring New Wiring

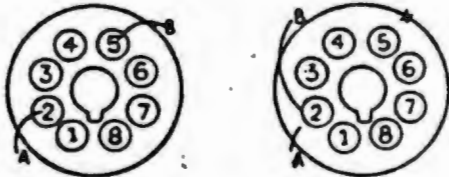


Fig. 1—Bottom View

Fig. 2—Bottom View

Remove all wires from Lug 2 and tape up to prevent shorting.
Remove all wires from Lug 5 and solder to Lug 2.

Note
80

Make changes on set socket as shown below.
Original Wiring New Wiring

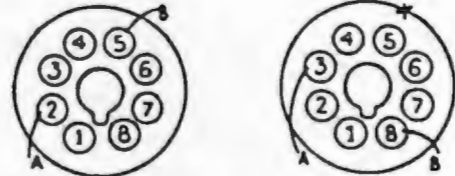


Fig. 1—Bottom View

Fig. 2—Bottom View

Remove all wires from Lug 2 and solder to Lug 3. If Lug 3 has any wires, remove and tape up to prevent shorting.
Remove all wires from Lug 5 and solder to Lug 8. If Lug 8 has any wires, remove and tape up to prevent shorting.

Note
78

Make changes on set socket as shown below.
Original Wiring New Wiring



Fig. 1—Bottom View

Fig. 2—Bottom View

Remove all wires from Lug 8 and solder to Lug 2.

Note
81

Make changes on set socket as shown below:
Original Wiring New Wiring

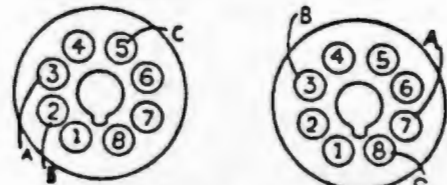


Fig. 1—Bottom View

Fig. 2—Bottom View

Remove all wires from Lug 3 and solder to Lug 7. Do not remove wires from Lug 7.
Remove all wires from Lug 2 and solder to Lug 3.
Remove all wires from Lug 5 and solder to Lug 8. If Lug 8 has any wires, remove and tape up to prevent shorting.

Note
79

Make changes on set socket as shown below.
Original Wiring New Wiring

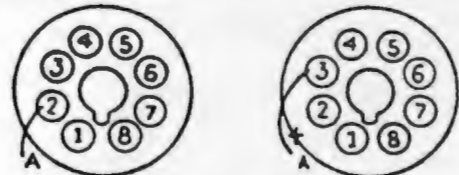


Fig. 1—Bottom View

Fig. 2—Bottom View

Remove all wires from Lug 2 and solder to Lug 3.

Note
82

Make changes on set socket as shown below.
Original Wiring New Wiring

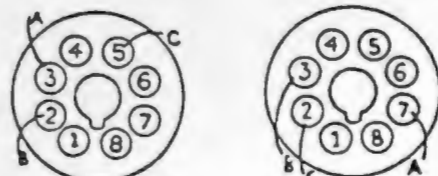


Fig. 1—Bottom View

Fig. 2—Bottom View

Remove all wires from Lug 3 and solder to Lug 7. Do not remove wires from Lug 7.
Remove all wires from Lug 2 and solder to Lug 3.
Remove all wires from Lug 5 and solder to Lug 2.

Chart No. 1

Standard RMA Designation Code

Ballast tubes in this category are designated by one or two letters, a number, followed by another letter or two.

Examples: K55B BL49CG M67A

The letter B (if used at the beginning) indicates a 'Ballast Action' or 'True Ballast' on the pilot light section.

The next letter indicates the current rating of the pilot lamp(s) used.

K = 6.3V-150 MA (Brown bead) #40, 47, or 1847

L = 6.3V-250 MA (Blue bead) #44 or 46

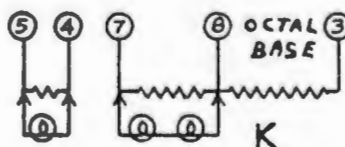
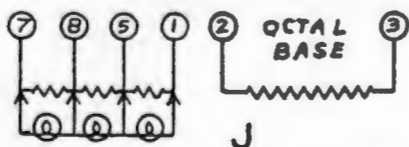
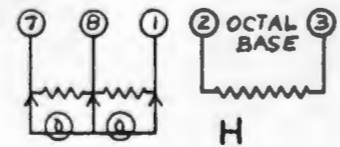
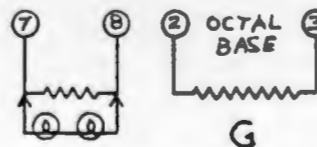
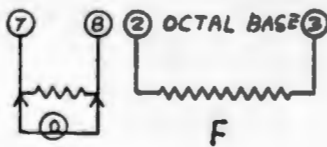
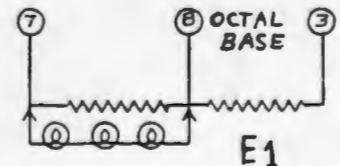
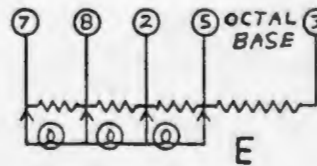
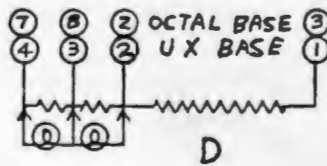
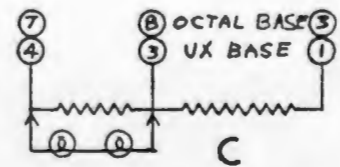
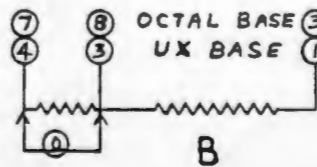
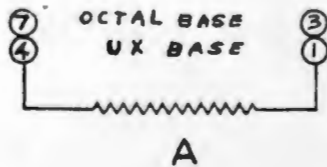
M = 6-8V-200 MA (White bead) #50 or 51

The number indicates the total voltage drop produced by the ballast including the pilot lamp(s), with 300 MA of current.

The next letter indicates the type of base wiring as shown in following diagrams.

The last letter G, if used, indicates it is a glass unit. If no letter is used here, it is usually a metal unit.

Wiring Diagrams. Note that both 4 prong UX and octal type bases are used.



See Chart 2 for Non-Standard basing information.

Chart No. 2

Non-Standard Codes

A & B Series: 42A1 50A2 92B2 etc.

This group used 4 and 5 prong bases, 8 pin octal, and 9 pin miniature. The first number indicates the voltage drop of unit; A1 means no pilot lamps used, A2 indicates one lamp used, and B2 is for two pilot lamps.

J Series: K67BJ L36DJ M55CJ etc.

This is an octal base group that uses the standard numbering and wiring system but have a letter J following the designation. These have a jumper internally connected, usually across pins 3 and 4. This arrangement was to provide a space for another resistance in case the set had to be operated on a higher line voltage. Of course another ballast with this extra resistor built in would have to be used.

P Series: K55BP K55CP K55CPR etc.

In the P series of ballasts, the standard octal base numbering and wiring system is used with an additional resistor of about 50 ohms generally connected between pins 5 and 7. This was to limit the rectifier plate current in case of shorts.

R, L, & M Series: 165R4 140L8 165L44 185M8 etc.

This is a group using 4 prong bases. The first number indicates the overall resistance of the unit. The letter indicates the pilot lamp(s) used as in the RMA standard system (except R is used instead of K). The final number 4 indicates one pilot lamp, 8 is two pilot lamps, and 44 is two lamps with separate taps. See diagrams next page.

S Series: K49S1 L55S2 L80S3 etc.

This is an octal base group that uses Z wiring (covered at end of this chart), but also has an additional resistor of approximately 50 ohms connected between pins 3 and 7 to limit plate current of the rectifier in case of a short. The number after the S indicates the use of one, two, or three pilot lamps in series in the Z wiring B or C circuit. The K or L is still the standard pilot lamp designation.

Hyphenated Designations: K42B-K4 K49D-10

Whenever pilot lamps are to be operated at a value other than their rated voltage, a hyphen is inserted with a second set of digits to indicate the pilot lamp's operating voltage.

Cont'd next page.

Chart No. 2 Cont'd.

X Series: KX23B LX42D MX67A

The letter X between pilot lamp designation letter and the voltage drop numeral indicates that unit has a 4 prong base.

Y & Z Series: KY42B KZ49C

The letter Y or Z after the pilot lamp designating letter indicates that no standard pin wiring arrangement is used, although it is an octal base. The following diagrams show the system generally accepted.

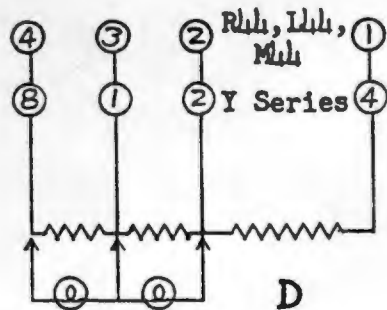
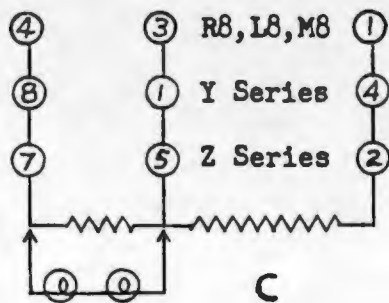
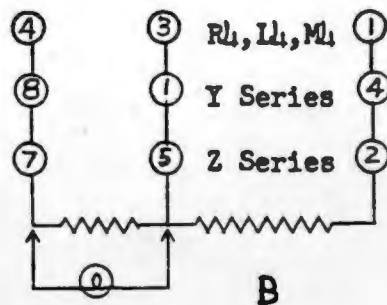
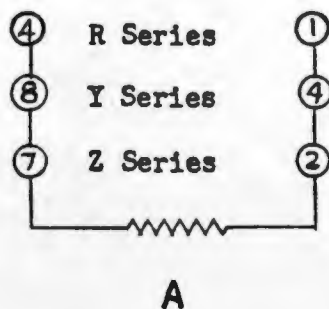
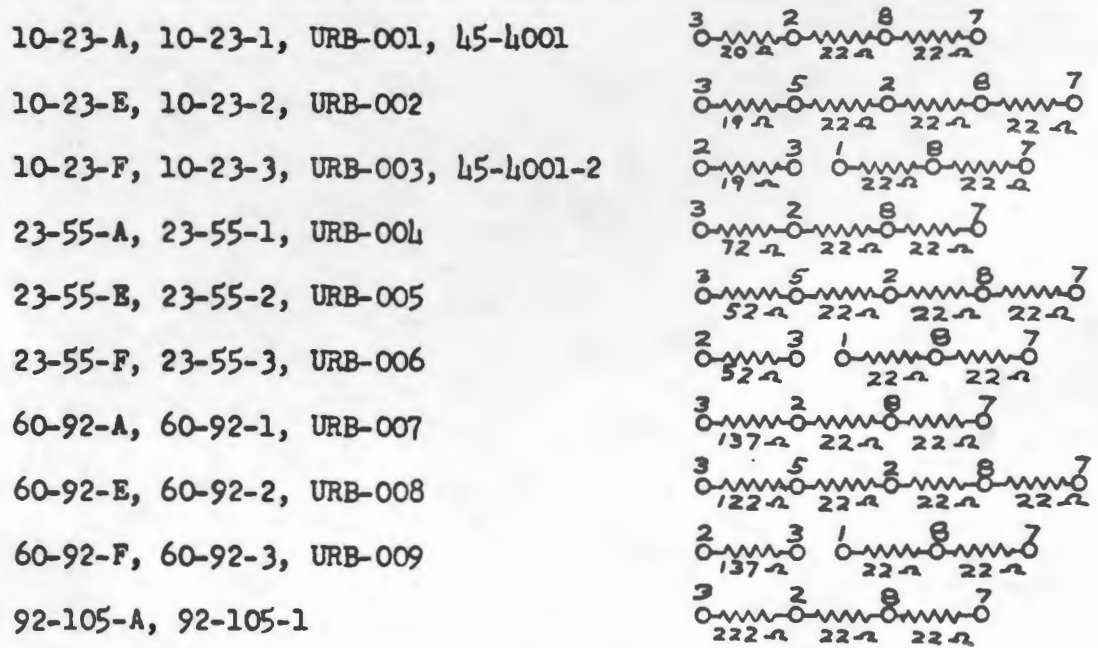


Chart No. 3

Universal Replacements for most Standard tube types.

Universal Tube No.	Replaces tubes beginning with	Numbers from	Ending in letter
10-23-A, 10-23-1, URB-001, 45-4001	BK, BL, K, L, M	10 to 23	A, B, C, D
10-23-E, 10-23-2, URB-002	BK, BL, K, L, M	10 to 23	E
10-23-F, 10-23-3, URB-003, 45-4001-2	BK, BL, K, L, M	10 to 23	F, G, H
23-55-A, 23-55-1, URB-004	BK, BL, K, L, M	23 to 55	A, B, C, D
23-55-E, 23-55-2, URB-005	BK, BL, K, L, M	23 to 55	E
23-55-F, 23-55-3, URB-006	BK, BL, K, L, M	23 to 55	F, G, H
60-92-A, 60-92-1, URB-007	BK, BL, K, L, M	60 to 92	A, B, C, D
60-92-E, 60-92-2, URB-008	BK, BL, K, L, M	60 to 92	E
60-92-F, 60-92-3, URB-009	BK, BL, K, L, M	60 to 92	F, G, H
92-105-A, 92-105-1	BK, BL, K, L, M	92 to 105	A, B, C, D



All tubes are octal base type.

Chart No. 4

Universal Replacements for most Standard tube types.

Amperite Tube No.	Replaces tubes beginning with	Numbers from	Ending in letter
KL-25	BK, BL, BM, K, L, M	10 to 36	A, B, C, D
KL-45	"	36 to 67	"
KL-75	"	67 to 105	"
KL-25E	BK, BM, K, L, M	10 to 36	E
KL-50E	"	36 to 67	E
KL-75E	"	67 to 105	E
KL-25H	BK, K, L, M	10 to 36	F, G, H
KL-50H	"	36 to 67	"
KL-75H	"	67 to 105	"
KL-25J	BK, K, L, M	10 to 36	J
KL-45J	"	36 to 67	J
KL-75J	"	67 to 105	J
KL-50S1	K, L, M	40 to 100	S1
KL-50S2	"	40 to 100	S2
KL-50S3	"	40 to 100	S3

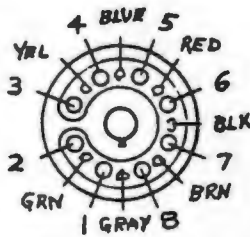
4P-45	4 prong base.	
50-AB	Octal base.	
KL-25	Octal base.	
KL-45	Octal base.	
KL-75	Octal base.	
KL-220	Octal base.	
KL-25E	Octal base.	
KL-50E	Octal base.	
KL-75E	Octal base.	
KL-25H	Octal base.	
KL-50H	Octal base.	
KL-75H	Octal base.	
KL-25J	Octal base.	
KL-50J	Octal base.	
KL-75J	Octal base.	
KL-50S1	Octal base.	
KL-50S2	Octal base.	
KL-50S3	Octal base.	

Chart No. 6

JFD Adjustable Ballasts

Three J.F.D. air-cooled adjustable ballasts, types A, B, and C, will serve as replacements for over two thousand type ballasts used in early radios. These ballasts (plug-in resistors) have a foil strip at the base shorting out all the pins. It is color coded between each pin, and by cutting these at the proper places, most ballast resistor combinations can be met.

The data and instructions provided by JFD for the most popular ballasts are printed here.

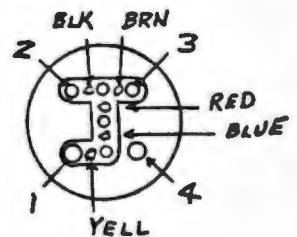


Type A & B

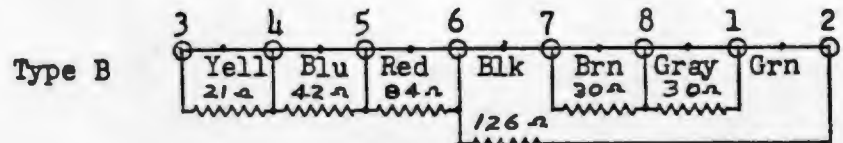
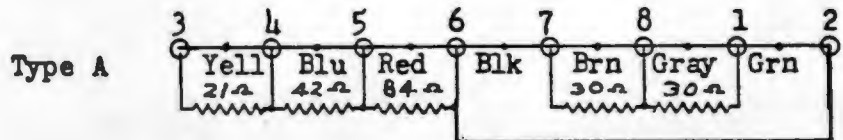
The actual cold resistance of either Brown or Gray section is 30 ohms but varies either higher or lower when in actual use.

In operation with a pilot light in shunt the resistance is 20 ohms. When either one of these sections (Brown or Gray) is used alone with no other shunt cut, resistance value can be figured at 50 ohms. When either Brown or Gray is used without pilot light in shunt and with about 50% of the shunts or colors cut, the values of these sections will be about 60 ohms and will increase to 70 ohms if more are cut. (These are values when ballast is in actual use.)

Green strip has no resistance but can be used to isolate the pilot light section so that types such as J, H, and F ballasts can be replaced.



Type C



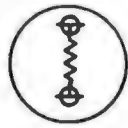
Tube Base Diagrams



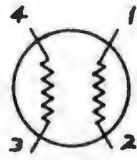
1



2



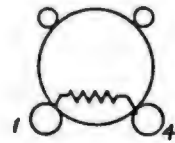
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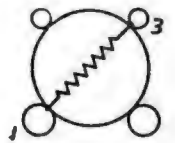
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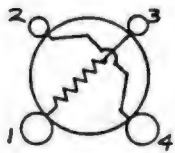
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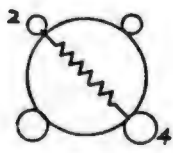
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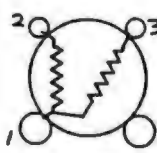
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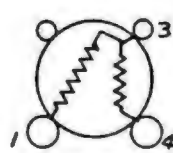
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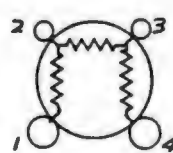
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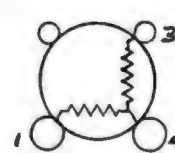
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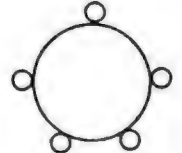
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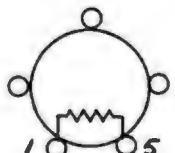
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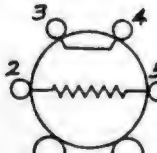
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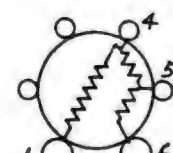
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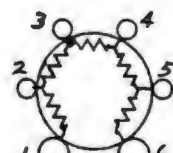
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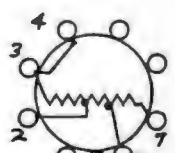
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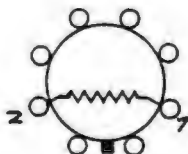
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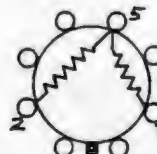
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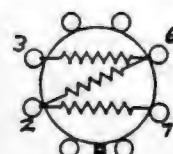
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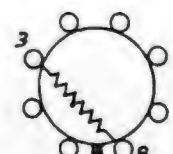
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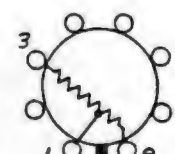
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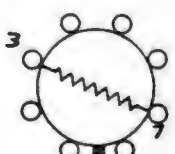
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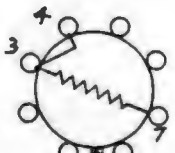
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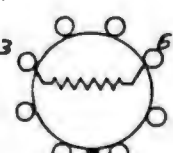
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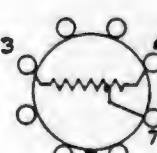
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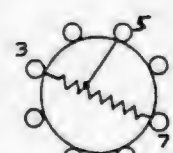
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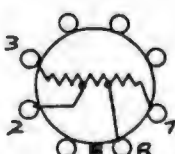
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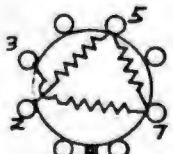
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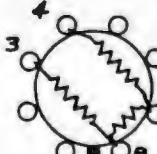
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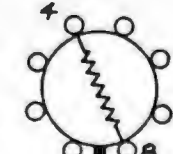
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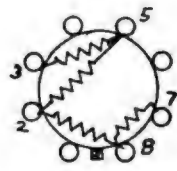
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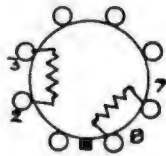
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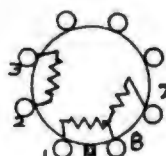
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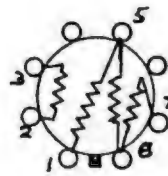
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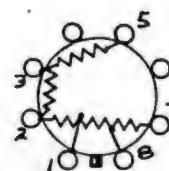
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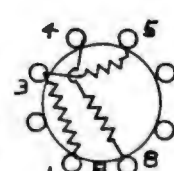
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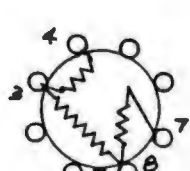
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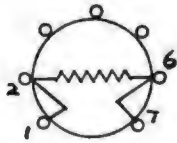
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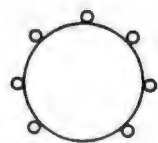
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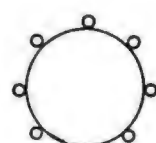
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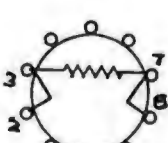
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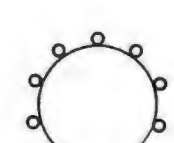
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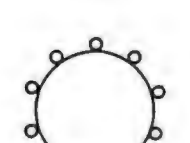
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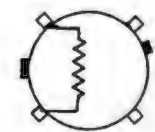
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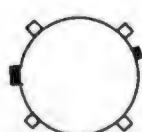
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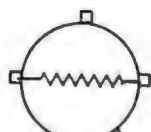
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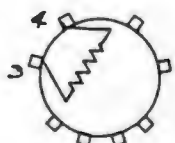
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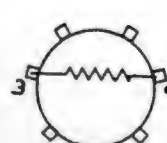
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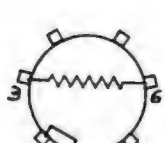
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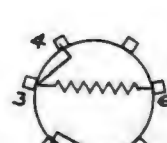
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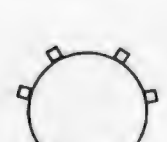
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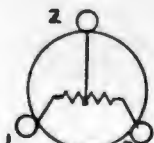
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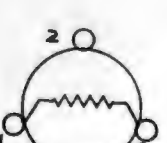
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