

APPLICATION LIST

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
AIXAM					
Aixam	00-	LP002L			
ALFA ROMEO					
Petrol					
33 Petrol	83-95	LP063		LC063	
75 1.8, 2.0, 2.5 Petrol	86-93	LP078			
75 3.0 Petrol	87-93	LP027			
145 Petrol	94-	LP063		LC063	
146 Petrol	94-	LP027			
147 Petrol	00-	LP068			
147 GTA VG Petrol	03-	LP065			
155 Petrol	93-	LP063		LC063	
156 2.5 V6 Petrol	98-	LP065			
156 GTA V6 Petrol	02-	LP096	LS100	LC096	LF096
159 1.8, 1.9, 2.2 Petrol	05-	LP027			
164 Petrol	88-	LP027			
166 2.0 Petrol	00-	LP065			
166 2.5 & 3.0 Petrol	00-	LP096	LS100	LC096	LF096
BRERA 2.2 Petrol	06-	LP027			
BRERA 3.2 Petrol	06-	LP110			
GT, GTV, 1.7, 2.0 Petrol	94-	LP027			
GT, GTV 3.0, 3.2 Petrol V6	94-	LP096	LS100	LC096	LF096
MITO Petrol	09-	LP012			
SPIDER Petrol	68-95	LP027			
SPIDER Petrol	96-	LP096	LS100	LC096	LF096
SPORTSWAGON Petrol	00-	LP065			
SPORTSWAGON 2.5 Petrol V6	00-	LP096	LS100	LC096	LF096
Diesel					
145, 147 Diesel	95-	LP096	LS100	LC096	LF096
146, 1.9 Diesel	94-	LP027		LF027	
156 1.9, 2.4 Diesel Turbo	00-	LP096	LS100	LC096	LF096
159 1.9, 2.4 Diesel	06-	LP096	LS100	LC096	LF096
164 Diesel Turbo	88-	LP017	LS019	LC017	LF017
BRERA Diesel	06-	LP110		LC096	LF096
GT 1.9 JTD Diesel	04-08	LP027		LF027	
GT 1.9 Diesel	09-	LP096	LS100	LC096	LF096
MITO Diesel	09-	LP027		LF027	
SPIDER 2.4D Diesel	06-	LP096	LS100	LC096	LF096
ASIA-MOTORS					
ROCSTA Petrol	89-	LP005L			
HI-TOPIC, ROCSTA Diesel	89-	LP250H			
ASTON MARTIN					
Not DB7, VIRAGE, ZAGATO		LP069			
DB7	94-98	LP096	LS100	LC096	LF096
DB7	99-	LP017	LS019	LC017	LF017
VANQUISH, VANTAGE, DB9, DBS	00-	LP019			LF017
V8 COUPE	00-	LP019			LF017
AUDI					
Petrol					
80 Petrol, Not Quattro	79-95	LP065			
80 Quattro Petrol S2	79-95	LP100*	LS100	LC096	
90 Petrol, Not Quattro	84-91	LP065			
90 Quattro Petrol	84-91	LP100*	LS100	LC096	
100 Petrol 4cyl	-94	LP065			
100 Petrol 5cyl & 6cyl	-94	LP100*	LS100	LC096	
100 Petrol, Not Quattro, Avant, S4	-94	LP065			
100 Quattro, Avant, S4 Petrol	-94	LP100*	LS100	LC096	
200 Petrol	83-94	LP100*	LS100	LC096	
A1 1.4 Petrol	09-	LP027			
A2 Petrol	00-	LP100	LS100	LC096	
A2 FSI 1.6 Petrol	02-	LP100	LS100	LC096	
A3 Petrol	97-	LP075		LC075	
A3 1.6, 2.0 Petrol	03-	LP027			
A3 1.8T Quattro Petrol	97-	LP096	LS100	LC096	LF096
A3, S3, 3.2 V6 Petrol	03-	LP096	LS100	LC096	LF096
A3 Cabrio Petrol	07	LP027			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
AUDI CONTINUED					
A4 1.6, 1.8 Petrol	94-	LP063	LS063	LC063	
A4 2.0, 2.4, 2.8 Petrol	94-	LP096	LS100	LC096	LF096
A4, S4, RS4, 4.2 Quattro Petrol	03-	LP110			
A4 CABRIOLETS Petrol	01-	LP110			
A5, S5, 2.0, 2.4, 2.8, 3.2, 4.2 Petrol	06-	LP110			
A5 SPORTBACK Petrol	09-	LP096	LS100	LC096	LF096
A6 2.0 Petrol	94-97	LP065			
A6 2.6, 2.8 Petrol	94-97	LP100*	LS100	LC096	
A6 1.8T Petrol	97-	LP027			
A6 2.4, 2.8 Petrol	97-	LP096	LS100	LC096	LF096
A6 4.2 S6 Petrol	94-	LP110			
A6 Mk 2 Petrol	04-	LP017	LS019	LC017	LF017
A7 SPORTBACK Petrol	09-	LP110			
A8 Petrol	94-02	LP017	LS019	LC017	LF017
A8 Petrol	03-	LP020			
RS6 Petrol, R8 4.2 FSI Petrol	03-	LP020			
S8 Petrol	94-	LP017	LS019	LC017	LF017
All Road Petrol, 2.7, 3.0,	01	LP096	LS100	LC096	LF096
All Road Petrol, 4.2	03-	LP017	LS019	LC017	LF017
CABRIO Petrol	91-	LP110			
COUPE Petrol	81-	LP100	LS100	LC096	
Q3, Q5 Petrol	09-	LP027			
Q7 3.6, 4.2, Petrol	06-	LP017	LS019	LC017	LF017
TT Cabriolet, Roadster Petrol	01-	LP110			LF096
TT Coupe, Petrol	99-	LP096	LS100	LC096	LF096
Diesel					
80 Diesel, Diesel Turbo	79-95	LP100*	LS100	LC096	
100 Diesel	-91	LP017	LS019	LC017	LF017
A1 1.6 Diesel	09-	LP096	LS100	LC096	LF096
A2 Diesel	00-	LP096	LS100	LC096	LF096
A3 A3 COUPE Diesel Turbo	97-	LP096	LS100	LC096	LF096
A4 1.9, 2.5 Diesel Turbo	94-	LP110			
A4 2.7TDi, 3.0TDi Diesel	08-	LP096	LS100	LC096	LF096
A5 2.0, 2.7, 3.0 Diesel	06-	LP017	LS019	LC017	
A5 SPORTBACK 2.0TDi Diesel	09-	LP017	LS019	LC017	LF017
A6 1.9 Diesel Turbo	94-97	LP110			
A6 2.5 Diesel Turbo	94-97	LP110			
A6 1.9 Diesel Turbo	97-	LP110			
A6 2.5 Diesel Turbo	97-	LP017	LS019	LC017	LF017
A7 Diesel	09-	LP017	LS019	LC017	LF017
A8 Diesel	99-	LP017	LS019	LC017	LF017
All Road Diesel	01	LP017	LS019	LC017	LF017
Q3, Q5 Diesel	09-	LP096	LS100	LC096	LF096
Q7 3.0 TDI, 4.2TDi Diesel	06-	LP017	LS019	LC017	LF017
TT 2.0 Diesel	08-	LP110			LF096
* USE VW/AUDI Holddown adaptor No. SAP 537267					
BENTLEY SEE ROLLS-ROYCE					
BMW					
Petrol					
1 SERIES Petrol	04-	LP027			
1 SERIES Petrol	07-	LP096	LS100	LC096	LF096
1 CONVERTIBLE Petrol	08-	LP110			
3 SERIES Compact Petrol					
316 ii, 318 ii Petrol	94-	LP075	LS075	LC075	
323 ii, 325 ii Petrol	94-	LP100	LS100	LC096	LF096
3 SERIES (E30)					
316 Petrol	82-92	LP063	LS063	LC063	
316i, 320i, 323i Petrol	82-92	LP065			
325i M3 Petrol	82-92	LP100	LS100	LC096	LF096
3 SERIES (E36)					
316i, 318is, 220i Petrol	90-99	LP065			
323i, 328i, 318-328 Petrol	90-99	LP100	LS100	LC096	LF096
M3, M3 Cabrio Petrol	90-99	LP110			
3 SERIES (E46)					
318i Petrol	99-	LP075	LS075	LC075	
325i, 328i, 330i M3 Cabriolet Petrol	99-	LP096	LS100	LC096	LF096

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
BMW CONTINUED					
3 SERIES (E90, E91)					
318i, 320 Petrol	05-	LP075	LS075	LC075	
325, 330, 335 Petrol	05-	LP096	LS100	LC096	LF096
Coupe (E92, E93) Petrol	06-	LP110			
Touring Petrol	08-	LP110			
5 SERIES (E28)					
518 Petrol	80-90	LP065			
518i, 520 Petrol	80-90	LP065			
520i, 525i, 525i, 535i	80-90	LP065			
M535i Petrol	80-90	LP100	LS100	LC096	LF096
5 SERIES (E34)					
518i Petrol	88-95	LP065			
520i, 525i Petrol	88-95	LP100	LS100	LC096	LF096
5 SERIES (E39)					
520i, 523i, 528i Petrol	95-	LP096	LS100	LC096	LF096
520, 525, 530, 545 Petrol	03-	LP110			
5 SERIES (E60-E61) Petrol					
5 SERIES (F07-F11)					
M5, 545i Petrol	04-	LP019			LF017
6 SERIES (E24-E64)					
628 Csi, 630 Csi, 633 Csi	76-90	LP096	LS100	LC096	LF096
635 Csi Petrol	76-90	LP096	LS100	LC096	LF096
630, 645, 650, (E63) Petrol	04-	LP017	LS019	LC017	LF017
M635 Csi Petrol	76-90	LP017	LS019	LC017	LF017
7 SERIES (E23)					
728, 728i, 730, 732i, 735 Petrol	77-86	LP096	LS100	LC096	LF096
745i Petrol	77-86	LP100	LS100	LC096	
7 SERIES (E32)					
730i, 735i, 740i, 750i Petrol	86-94	LP017	LS019	LC017	LF017
7 SERIES (E38)					
728i, 730i, 735i, 740i, 750i, Petrol	94-01	LP017	LS019	LC017	LF017
7 SERIES (E65-E66) (F01-F04)					
730, 735, 740, 745, 750, 760, Petrol	01-	LP017	LS019	LC017	LF017
8 SERIES (E31)					
840, 840i, 850i Petrol	93-	LP075	LS075	LC075	
X SERIES					
X1 Petrol	09-	LP110			
X3 Petrol	04-	LP096	LS100	LC096	LF096
X5 3.0 Petrol	01-	LP096	LS100	LC096	LF096
X5 4.4, 4.6 Petrol	00-	LP019			LF017
X6 Petrol	09-	LP019			LF017
Z SERIES					
Z1 Petrol	88-91	LP075	LS075	LC075	
Z3 1.9 Petrol	97-	LP075	LS075	LC075	
Z3 2.8 3.2M Petrol	97-	LP096	LS100	LC096	LF096
Z4 2.2, 2.5, 3.0 Petrol	03-	LP096	LS100	LC096	LF096
Z8 Petrol	99-	LP017	LS019	LC017	LF017
For 017 Fitment under rear passenger seat max height of battery 175mm					
Diesel					
1 SERIES Diesel	04-	LP110			
1 SERIES Diesel	08-	LP110			
318 Diesel	94-	LP075	LS075	LC075	
320 Diesel	94-	LP100	LS100	LC096	
324 Diesel	82-92	LP017	LS019	LC017	LF017
325i, 325 Diesel	90-99	LP017	LS019	LC017	LF017
318 Diesel	90-99	LP075	LS075	LC075	
320, 323i, 320, 330 Diesel	99-	LP110			
3 Series Diesel	08-	LP110			
M5, 524 Diesel	80-90	LP017	LS019	LC017	LF017
530i, 540i, M5, 525 Diesel	88-95	LP017	LS019	LC017	LF017
535i, 540, M5, 525, 530 Diesel	95-	LP017	LS019	LC017	LF017
525D, 530D Diesel	03-	LP110			
6 SERIES Diesel	04-	LP020			
7 SERIES Diesel	03-	LP019			LF017
M5 (E60-E61) Diesel	03-	LP019			LF017
X1 Diesel	09-	LP110			
X3, X5, X6 Diesel	01-	LP019			LF017

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BRISTOL					
BRISTOL		LP069			
BUICK					
LE SABRE, PARK AVE, SKYLARK	99-	LP069			
CADILLAC					
BLS, CTS, XLR Petrol	06-	LP027	LS075	LC075	
ESCALADE, SRX Petrol	06-	LP096	LS100	LC096	LF096
CATERHAM					
Caterham	84-	Y60N30A			
CHEVROLET (PREVIOUSLY DAEWOO)					
Petrol					
AVEO 1.2, 1.4	08-	LP009R			
CAPTIVA Petrol	06-	LP078			
CORVETTE Petrol	78-	LP78-630			
EPICA Petrol	95-	LP057			
ESPERO Petrol	95-	LP065			
EVANDA Petrol	05-	LP027			
KALOS 1.1 Petrol	98-	LP077			
KALOS Petrol	03-	LP009R			
LANOS Petrol	95-	LP009R			
LACETTI Petrol	04-	LP005R			
LEGANZA Petrol	95-	LP009R			
MATIZ Petrol	99-	LP055			
MUSSO Petrol	95-	LP250H			
NEXIA Petrol	95-	LP009L			
NUBIRA Petrol	95-	LP009R			
ORLANDO Petrol	10-	LP096	LS100	LC096	LF096
REZZO Petrol	00-	LP078			
TACUMA Petrol	95-	LP096	LS100	LC096	LF096
TICO Petrol	95-	LP004L			
Diesel					
CRUZE Diesel	09-	LP096	LS100	LC096	LF096
EPICA Diesel	95-	LP089			
MUSSO Diesel	99-	LP249H			
ORLANDO Diesel	10-	LP017	LS019	LC017	LF017
CHRYSLER					
Petrol					
CROSSFIRE Petrol	03-	LP096	LS100	LC096	LF096
NEON Petrol	-95	LAM058L			
NEON Petrol	96-	LP012			
PT CRUISER, YPSILON Petrol	00-	LP027			
SEBRING 2.0, 2.2 Petrol	07-	LP027			
STRATUS, VIPER, VOYAGER Gr Petrol	97-	LP096R			
VOYAGER i, ii, iii Petrol	97-	LP096	LS100	LC096	LF096
300C Petrol	04-	LP110			
Diesel					
300C CRD Diesel	04-	LP017	LS019	LC017	LF017
PT CRUISER, VOYAGER Diesel	05-	LP096	LS100	LC096	LF096
YPSILON 1.6 Diesel	10-	LP096	LS100	LC096	LF096
Some Chryslers have Optima fitted as O.E. RTS4.2 or RTU4.2					
CITROEN					
Petrol					
2 CV 6 Petrol	74-90	LP063			
AX Petrol	86-	LP063			
BERLINGO MULTISPACE Petrol	01-	LP027			
BX Petrol	82-94	LP065			
C-CROSSER 2.4 Petrol	07-	LP096	LS100	LC096	LF096
C1 Petrol, C2 1.1, C3 1.1	02-	LP002L			
C1, C2 1.4, 1.6 Petrol	02-	LP012			
C3, 1.4, 1.6 Petrol	02-	LP012			
C3 PICASSO Petrol	09-	LP027			
C4 1.4 Petrol	04-	LP012			
C4 1.7, 1.8, 2.0, PICASSO Petrol	04-	LP027			
GRAND PIC. Petrol	04-	LP027			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
CITROEN CONTINUED					
C5 Petrol	01-	LP027			
C5 2.9, 3.0 Petrol	01-	LP096	LS100	LC096	LF096
C6 3.0 Petrol	05-	LP100	LS100	LC096	
C8 2.0, 2.2 Petrol	03-	LP096	LS100	LC096	LF096
CX 2.0 Petrol	74-92	LP065			
CX 2.2 Petrol	75-91	LP065			
CX 2.4 Petrol	76-83	LP065			
CX 2.5 Petrol	82-91	LP027			
CX 2.5 GTi Petrol	84-92	LP100	LS100	LC096	LF096
DS3, DS4, 1.4, 1.6 Petrol	09-	LP027			
DYANE Petrol	74-81	LP063	LS063	LC063	
LNA Petrol	79-85	LP048H			
PICASSO Petrol	00-	LP065			
SAXO 1.1 Petrol	95-	LP063	LS063	LC063	
SAXO 1.4, 1.6 Petrol	95-	LP063	LS063	LC063	
SYNERGIE Petrol	95-	LP027			
VISA Petrol	79-88	LP063			
XANTIA Petrol	93-95	LP063			
XANTIA Petrol	96-	LP063			
XANTIA 3.0 Petrol	97-	LP100	LS100	LC096	LF096
XM Petrol	89-	LP027			
XSARA 1.4, 1.6 Coupe Petrol	98-	LP063	LS063	LC063	
XSARA 1.8, 2.0 Petrol	97-	LP065			
ZX 1.4 Petrol	91-	LP063	LS063	LC063	
ZX 1.6, 1.8, 1.9, 2.0 Petrol	91-	LP063	LS063	LC063	
Diesel					
AX Diesel	88-	LP027			
BERLINGO Multispace Diesel	01-	LP096	LS100	LC096	LF096
BX Diesel, Diesel Turbo	83-94	LP027			
C1, C2, C3 Diesel	01-	LP027			
C4 1.6, 2.0 Diesel	04-	LP027			
C5 Diesel	01-	LP096	LS100	LC096	LF096
C6 Diesel	05-	LP100	LS100	LC096	LF096
C8 Diesel	03-	LP096	LS100	LC096	LF096
CX Diesel	75-89	LP017	LS019	LC017	LF017
C CROSSER 2.2Hdi Diesel	07-	LP249H			
DS3 Diesel	09-	LP027			
DS4, DS5, 1.6, 2.0, PICASSO Diesel	00-	LP096	LS100	LC096	LF096
SAXO 1.5 Diesel	95-	LP075			
SYNERGIE Diesel	95-	LP096	LS100	LC096	LF096
VISA Diesel	85-88	LP027			
XANTIA Diesel	93-	LP027			
XM Diesel Turbo	89-	LP096	LS100	LC096	LF096
XSARA Diesel Turbo	98-	LP027			
ZX 1.9 Diesel, Diesel Turbo	91-	LP027			
CITROEN LCV					
Petrol					
BERLINGO Petrol	96-	LP027			
C15 E Petrol	85-	LP063	LS063	LC063	
C25 E, Relay Petrol	87-	LP065			
C32/C35 C35 Petrol	-	LP069			
JUMPY Petrol	06-	LP027			
NEMO Petrol	05-	LP027			
Diesel					
BERLINGO Diesel	96-	LP100	LS100	LC096	LF096
C8 Diesel	03-	LP096	LS100	LC096	LF096
C15 Diesel	85-	LP065			
C25 RELAY Diesel	87-	LP017	LS019	LC017	LF017
C32/C35 C35 Diesel	-	LP017	LS019	LC017	LF017
DISPATCH Diesel	96-	LP100	LS100	LC096	
JUMPY 1.6, 2.0 Diesel	06-	LP096	LS100	LC096	LF096
NEMO Diesel	05-	LP096	LS100	LC096	LF096
RELAY 1000, 1400, 1800 Diesel	94-	LP017	LS019	LC017	LF017
DACIA					
DUSTER 1.4 Petrol	84-	LP048H			
LOGAN 1.4 Petrol	04-	LP012			
LOGAN 1.6, 1.5cdi Diesel	04-	LP027			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
DACIA CONTINUED					
SOLENZA 1.4 Petrol	03-	LP012			
SOLENZA 1.9 Diesel	03-	LP027			
DAEWOO SEE CHEVROLET					
DAIHATSU					
Petrol					
APPLAUSE Petrol	90-	LP054			
CHARADE Petrol	79-	LP054			
CHARMANT Petrol	82-86	LP053			
COPEN Petrol	03-	LP054			
CUORE, MOVE Petrol	95-	LP054			
DOMINO Petrol	81-86	LP154			
DOMINO Petrol	86-89	LP054			
EXTOL Petrol	08-	LP054			
FOURTRAK Petrol	84-93	LP055			
GRAND MOVE Petrol	98-	LP054			
HI-JET Petrol	96-	LP054			
MATERIA Petrol	07-	LP154			
MIRA Petrol	93-	LP055			
SIRION 1.0, 1.3 Petrol	-	LP054			
SPORTRAK Petrol	89-	LP055			
TERIOS (J1) Petrol	97-05	LP155			
TERIOS (J2) Petrol	05-	LP054			
TREVIS Petrol	06-	LP054			
YRV 1.0, 1.3 Petrol	00-	LP054			
Diesel					
CHARADE Diesel	85-	LP068			
FOURTRAK Diesel, Diesel Turbo	84-	LP644			
HI-JET Diesel	96-	LP027			
DAIHATSU LCV					
Petrol					
CX, EXTOL, S70, S84, S85, S86 Petrol	-	LP054			
FOURTRAK Petrol	-	LP055			
FOURTRAK F20, F25, F50, F55 Petrol	-	LP055			
HI-JET Petrol	-	LP054			
SPORTRAK Petrol	-	LP055			
Diesel					
FOURTRAK Diesel, Diesel Turbo	-	LP616R			
FOURTRAK F20, F25, F50, F55 Diesel	-	LP616R			
DAIMLER SEE JAGUAR					
DODGE					
AVENGER Petrol	06-			OPTIMA RTU4.2	
CALIBER 1.8, 2.0, JOURNEY 2.4 Petrol	06-	LP096		OPTIMA RTC4.2	
CALIBER 2.0, JOURNEY 2.0 Diesel	06-	LP096		OPTIMA RTC4.2	
NITRO Petrol	06-			OPTIMA RTU4.2	
FERRARI					
MOST MODELS	-	LP096	LS100	LC096	LF096
550 BARCETTA, 512TR	-	LP096R			
FIAT					
Petrol					
500 1.2, 1.3, 1.4 Petrol	06-	LP002L			
500 (Start-Stop) Petrol	08-	LP027			
BARCETTA Petrol	95-	LP063	LS063	LC063	
BRAVA 1.4 Petrol	95-	LP063	LS063	LC063	
BRAVA 1.6, 1.8 Petrol 2.0	95-	LP065			
BRAVO 1.2, 1.4 Petrol	95-	LP063	LS063	LC063	
BRAVO 1.6, 1.8 Petrol	95-	LP065			
CINQUECENTO Sport Petrol	93-98	LP063	LS063	LC063	
CINQUECENTO Sport Petrol	99-	LP002L			

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FIAT CONTINUED					
COUPE Petrol	95-	LP027			
CROMA Petrol	86-94	LP065			
CROMA Petrol	00-	LP027			
DOBLO Petrol	01-	LP063	LS063	LC063	
GRANDE PUNTO 1.2, 1.4 Petrol	05-	LP002L			
IDEA Petrol	04-	LP012			
LINEA Petrol	07-	LP027			
MAREA Petrol	97-	LP063	LS063	LC063	
MULTIPLA Petrol	00-	LP027			
PANDA Petrol	81-87	LP077			
PANDA Petrol	87-95	LP063	LS063	LC063	
PANDA 0.9, 1.1, 1.2 Petrol	04-	LP002L			
PUNTO 1.1, 1.2 Petrol	94-	LP002L			
PUNTO EVO 1.4 Petrol	09-	LP063	LS063	LC063	
QUBO 1.3, 1.4 Petrol	08-	LP027			
REGATA Petrol	84-90	LP063	LS063	LC063	
RITMO Petrol	-87	LP077			
RITMO Petrol	87-	LP063	LS063	LC063	
SCUDO 1.6, 2.0 Petrol	07-	LP027			
SEICENTO Petrol	98-	LP002L			
SEDICI Petrol	06-	LP012			
STILO Petrol	02-	LP012			
STILO 2.4 Petrol	02-	LP027			
STRADA Petrol	79-85	LP077			
STRADA Petrol	85-88	LP063	LS063	LC063	
TEMPRA Petrol	90-	LP063	LS063	LC063	
TIPO 1.4, 1.6 Petrol	88-95	LP063	LS063	LC063	
TIPO 1.8, 2.0 Petrol	88-95	LP065			
ULYSSE Petrol	95-	LP027			
UNO Petrol	83-93	LP063	LS063	LC063	
X19 Petrol	77-89	LP077			
Diesel					
500 New Model Diesel	-	LP027			
BRAVA Diesel	96-	LP027			
BRAVO Diesel	96-	LP027			
DOBLO Diesel	01-	LP027			
GRANDE PUNTO 1.3D, 1.9D Diesel	05-	LP027			
IDEA Diesel	04-	LP012			
LINEA Diesel	07-	LP027			
MAREA Diesel Turbo	97-	LP027			
MULTIPLA Diesel	00-	LP096	LS100	LC096	LF096
PANDA 1.3 Diesel	04-	LP012			
PUNTO Diesel	93-	LP027			
PUNTO Diesel	01-	LP012			
QUBO 1.3 Diesel	08-	LP096	LS100	LC096	LF096
REGATA Diesel, Diesel Turbo	83-88	LP100	LS100	LC096	
RITMO Diesel	-84	LP027			
RITMO Diesel	84-	LP100	LS100	LC096	
SCUDO 1.6, 1.9, 2.0 Diesel	07-	LP100	LS100	LC096	
SEDICI 1.9JTD Diesel	06-	LP027			
STILO Diesel	02-	LP027			
TALENTO Diesel	89-94	LP027			
TEMPRA Diesel, Diesel Turbo	90-	LP100	LS100	LC096	
TIPO 1.7 Diesel, 1.9 Diesel Turbo	88-95	LP100	LS100	LC096	
ULYSSE Diesel Turbo	95-	LP096	LS100	LC096	LF096
UNO Diesel	84-93	LP027			
FIAT LCV					
Petrol					
850/900 Citivan Petrol	-	LP077			
850/900 850 T Petrol	-	LP077			
850/900 900 T Petrol	-	LP077			
DOBLO Petrol	01-	LP063	LS063	LC063	
DUCATO Petrol	-	LP065			
FIORINO Petrol	-90	LP077			
FIORINO Petrol	90-	LP012			
UNO Petrol	-	LP063	LS063	LC063	
Diesel					
DOBLO Diesel	01-	LP027			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
FIAT LCV CONTINUED					
DUCATO Diesel	-	LP017	LS019	LC017	LF017
FIORINO Diesel	94-	LP096	LS100	LC096	LF096
SCUDO Diesel	96-	LP096	LS100	LC096	LF096
TALENTO Diesel	88-95	LP096	LS100	LC096	LF096
UNO Citivan Diesel	-	LP075	LS075	LC075	
FORD					
Petrol					
CAPRI 1.6, 2.0 Petrol	74-88	LP085			
CAPRI 2.8, 3.0 Petrol	74-88	LP097			
C-MAX 1.6, 1.8, 2.0 Petrol	03-	LP075	LS075	LC075	
CORTINA 2.0, 2.3 Petrol Auto	74-82	LP085			
CORTINA 1.3, 1.6, 2.0, 2.3 Petrol	74-82	LP085			
COUGAR Petrol	98-	LP075	LS075	LC075	
ESCORT Petrol	68-95	LP085			
ESCORT 1.3, 1.4, 1.6, 1.8 Petrol	96-	LP063	LS063	LC063	
ESCORT 2.0 Petrol	96-	LP065			
EXPLORER 4.0 Petrol	96-	LP096R			
FOCUS 1.4 Petrol	98-	LP063	LS063	LC063	
FOCUS 1.6, 1.8, 2.0 16V Petrol	98-	LP065			
FOCUS ST 170 Petrol	99-	LP075	LS075	LC075	
FOCUS C-MAX Petrol	03-	LP075	LS075	LC075	
FIESTA Petrol	-95	LP085			
FIESTA Petrol	96-	LP065			
FUSION, Petrol	02-	LP063	LS063	LC063	
GALAXY Petrol	95-06	LP075	LS075	LC075	
GALAXY 1.8, 2.0 Petrol	06-	LP110			
GRANADA Petrol	72-95	LP097			
GRANADA Scorpio Petrol	86-	LP097			
KA, STREETKA, SPORTKA Petrol	96-	LP063	LS063	LC063	
MAVERICK Petrol	93-	LP005R			
MONDEO 1.6 Petrol	93-	LP063	LS063	LC063	
MONDEO 1.8, 2.0 Petrol	93-	LP065			
MONDEO 2.5 Petrol	94-	LP075	LS075	LC075	
MONDEO ST 200 Petrol	93-	LP100	LS100	LC096	
ORION Petrol	83-	LP085			
PROBE Petrol	94-	AM058L			
PUMA Petrol	98-	LP065			
SCORPIO Petrol	86-	LP099			
SIERRA 1.6, 1.8, 2.0 Petrol	82-	LP085			
SIERRA i XR4i Petrol, 2.8 Petrol,	82-	LP085			
SIERRA 2.9i Petrol	82-	LP097			
S-MAX Petrol	06-	LP100	LS100	LC096	
Diesel					
C-MAX Diesel	03-	LP100	LS100	LC096	
ESCORT 1.6 Diesel	-95	LP097			
ESCORT 1.8 Diesel	-95	LP097			
ESCORT 1.8 Diesel, Diesel Turbo	96-	LP075	LS075	LC075	
EXPLORER Diesel	00-	LP250H			
FIESTA 1.6 Diesel	-95	LP085			
FIESTA 1.8 Diesel	-95	LP097			
FIESTA Diesel	96-	LP075	LS075	LC075	
FOCUS C-MAX Diesel	03-	LP075	LS075	LC075	
FUSION, STREETKA Diesel	02-07	LP110			
FUSION Diesel	08-	LP100	LS100	LC096	
FOCUS Diesel 1.6, 1.8TD	-	LP075	LS075	LC075	
GALAXY Diesel	95-96	LP017	LS019	LC017	LF017
GRANADA Diesel	77-95	LP097			
GRANADA Scorpio Diesel Turbo	86-	LP097			
KA Diesel	08-	LP075	LS075	LC075	
MAVERICK Diesel Turbo	93-	LP250H			
MONDEO Diesel Turbo	93-	LP100	LS100	LC096	
ORION 1.6 Diesel	83-	LP097			
ORION 1.8 Diesel	83-	LP097			
RANGER 2.5 Diesel	00-	LP249H			
SIERRA Diesel, Diesel Turbo	82-	LP097			
S-MAX Diesel	06-	LP110			
THUNDER	00-	LP250H			
TORNEO 1.8 Diesel	02-	LP100	LS100	LC096	

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
FORD LCV					
Petrol					
COURIER Petrol	91-96	LP085			
COURIER Petrol	96-	LP063	LS063	LC063	
ESCORT Petrol	-95	LP085			
ESCORT Petrol	96-	LP063	LS063	LC063	
FIESTA Petrol	-95	LP085			
FIESTA Petrol	96-	LP063	LS063	LC063	
P100 Petrol	-	LP085			
TRANSIT Petrol	-95	LP097			
TRANSIT Petrol	96-	LP075	LS075	LC075	
TRANSIT CONNECT 1.8 Petrol	02-	LP100	LS100	LC096	
Diesel					
COURIER Diesel	91-97	LP097			
COURIER Diesel	96-	LP075	LS075	LC075	
ESCORT 1.6 Diesel	-95	LP097			
ESCORT 1.6 Diesel	96-	LP075	LS075	LC075	
ESCORT 1.8 Diesel	-95	LP097			
ESCORT 1.8 Diesel	96-	LP075	LS075	LC075	
FIESTA Diesel	-95	LP097			
FIESTA Diesel	96-	LP075	LS075	LC075	
P100 Diesel	-	LP097			
TRANSIT Diesel	-95	LP099			
TRANSIT Diesel	96-	LP100	LS100	LC096	
TRANSIT CONNECT Diesel	02-	LP110			
TOURNEO 2.2 Diesel	03-	LP110			
FREIGHT ROVER SEE LDV					
FSO					
125P, POLONEZ Petrol		LP077			
HONDA					
Petrol					
ACCORD Petrol	84-93	LP004R			
ACCORD, Coupe Petrol	93-	LP078			
ACCORD 2.0 Aerodeck Petrol	85-89	LP004R			
ACCORD 2.2 Aerodeck Petrol	89-94	LP005R			
ACCORD 2.0 Aerodeck Petrol	94-	LP078			
ACCORD 2.0, 2.2, 2.4 Petrol	03-	LP053			
ACCORD 1.8, 2.2, 2.4	03-	LP075	LS075	LC075	
ACCORD 3.0 Petrol UK Built	03-	LP075	LS075	LC075	
BALLADE Petrol	86-89	LP057			
CIVIC IMA (Starting Battery) Petrol	03-	LP054			
CIVIC Shuttle Petrol	84-	LP057			
CIVIC 2.2i Shuttle Petrol	95-	LP057			
CIVIC Petrol	05-	LP053			
CONCERTO Petrol	89-92	LP057			
CRV Petrol	99-	LP057			
CRX Petrol	90-	LP057			
FRV Petrol	04-	LP053			
HRV Petrol	98-	LP053			
INSIGHT Petrol	01-	LP055			
INTEGRA Petrol	86-89	LP057			
INTEGRA R Petrol	98-	LP057			
JAZZ Petrol	83-	LP057			
JAZZ Petrol	06-	LP054			
LOGO Petrol	00-	LP057			
LEGEND Petrol	87-	LP069			
NSX Petrol	91-	LP005L			
PRELUDE Petrol 2.0	85-	LP004R			
PRELUDE 2.2, 2.3 Petrol	92-	LP004L			
S 2000 Petrol	00-	LP053			
SHUTTLE 2.2 Petrol	96-	LP096	LS100	LC096	LF096
STREAM 1.7 Petrol	01-	LP057			
STREAM 2.0 Petrol	01-	LP057			
Diesel					
ACCORD Diesel	98-	LP100	LS100	LC096	
CIVIC Diesel	97-	LP096	LS100	LC096	LF096
CRV 2.2 Diesel	05-	LP096	LS100	LC096	LF096

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
HONDA CONTINUED					
FRV Diesel	04-	LP096	LS100	LC096	LF096
HONDA LCV					
HONDA ACTIVAN Petrol					
		LP038			
HUMMER					
Hummer	07-		OPTIMA RTU4.2		
HYUNDAI					
Petrol					
ACCENT Petrol	94-00	LP048H			
ACCENT Petrol	00-	LP012			
AMICA 1.1 Petrol	07-	LP054H			
ATOZ Petrol	98-	LP054H			
COUPE Petrol	96-	LP027			
ELANTRA Petrol	01-	LP005R			
GALLOPER Petrol	98-	LP068			
GETZ 1.1, 1.3, 1.6 Petrol	02-	LP004L			
GETZ 1.0, 1.4 Petrol	05-	LP012			
GRANDEUR 2.7, 3.3, 3.8 Petrol	05-	LP096	LS100	LC096	LF096
LANTRA 1.6 Petrol	91-	LP048H			
i10 Petrol	07-	LP054H			
i20 Petrol	09-	LP063	LS063	LC063	
i30 1.4, 1.6, Petrol	07-	LP012			
i40 Petrol	09-	LP075	LS075	LC075	
i800 Petrol	09-	LP075	LS075	LC075	
iX20 Petrol	10-	LP054H			
iX35 Petrol	09-	LP100	LS100	LC096	
LANTRA 1.8, 2.0 Petrol	91-	LP005R			
MATRIX 1.6, 1.8 Petrol	01-	LP063	LS063	LC063	
PONY Petrol	82-94	LP049H			
PONY X2 Petrol	92-	LP049H			
SANTA Fe1 Petrol	01-	LP249H			
SONATA Petrol	84-	LP005R			
SONATA 2.5, 2.7 Petrol	84-	LP069			
SONATA III IV 2.0, 2.4, 2.7 Petrol	01-	LP075	LS075	LC075	
SONATA V Petrol	05-	LP068			
STELLAR Petrol	84-87	LP049H			
STELLAR Petrol	87-91	LP055			
S COUPE Petrol	90-	LP049H			
TERRACAN Petrol	02-	LP249H			
TUCSON Petrol	04-	LP249H			
TRAJET, VELOSTER Petrol	00-	LP075	LS075	LC075	
XG, 25, 35/300, 350 Petrol	98-	LP096	LS100	LC096	LF096
Diesel					
ACCENT 1.5, 1.9 CRDi, TDi Diesel	02-	LP068			
GETZ 1.5 CRTD Diesel	02-	LP005R			
i10 Diesel	07-	LP005L			
i20 Diesel	09-	LP075	LS075	LC075	
i30, 1.6, 2.0 CRDi Diesel	07-	LP027			
i40 Diesel	09-	LP075	LS075	LC075	
i800 Diesel	09-	LP096	LS100	LC096	LF096
iX20 Diesel	10-	LP075	LS-75	LC075	
iX35 1.7 Diesel	10-	LP250H			
MATRIX 1.5 CRTD Diesel	01-	LP068			
SANTA FE 2.0CRDi Diesel	01-	LP249H			
SONATA IV Diesel	01-	LP068			
SONTANA V Diesel	05-	LP068			
TERRACAN 2.5, 2.9CRDi Diesel	01-	LP249H			
TRAJET 2.0CRDi Diesel	01-	LP068			
HYUNDAI LCV					
H100 Diesel 2.5 Turbo	-	LP250H			
H1 CARGO, FLATBED Diesel & Petrol	08-	LP096R			
XG Petrol	98-	LP096			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
ISUZU					
Petrol					
D-MAX Petrol	02-	LP250H			
PIAZZA Petrol	86-	LP054			
TROOPER MK 1 Petrol	87-91	LP005R			
TROOPER MK 2 Petrol	92-	LP069			
TROOPER MK 2 Petrol	98-	LP250H			
Diesel					
D-MAX	02	LP250H			
RODEO	05-	LP250H			
TROOPER MK 1 Diesel Turbo	87-91	LP250H			
TROOPER MK 2 Diesel Turbo	92-	LP069			
TROOPER MK 2 Diesel	98-	LP250H			
TROOPER 3.1 Diesel	-	LP072T x2			
IVECO					
MASSIF Range Diesel	08-	LP019			
DAILY Range Diesel	85-	LP019			
JAGUAR (DAIMLER)					
Petrol					
S Type Petrol	99-	LP017	LS019	LC017	LF017
XF Petrol	08-	LP019			
XJ6/8/12 Double Six Petrol	-89	LP089			
XJ6/8/12 2.8 Sovereign, 4.2 Sovereign	81-84	LP027			
XJ6/8/12 2.8 Sovereign, 4.2 Sovereign	84-90	LP088			
XJ6/8/12 2.8 Sovereign, 4.2 Sovereign	90-	LP075	LS075	LC075	
XJ6/8/12 2.9 Sovereign, 3.6 Sovereign	86-	LP075	LS075	LC075	
XJ6/8/12 4.0 Sovereign Petrol	-94	LP075	LS075	LC075	
XJ6/8/12 4.0 Sovereign Petrol	94-	LP017	LS019	LC017	LF017
XJ6/8/12 4.0 XJR Petrol	-94	LP075	LS075	LC075	
XJ6/8/12 XJR V8 Petrol	97-	LP017	LS019	LC017	LF017
XJ6/8/12 3.2 Sport, 3.4 Sport Petrol	94-	LP096	LS100	LC096	LF096
XJ6/8/12 2.8, 4.2 6cyl, 5.3 12cyl	81-84	LP027			
XJ6/8/12 2.8, 3.4, 4.2 6cyl, 5.3 12cyl	84-87	LP088			
XJ6/8/12 2.8, 3.4, 4.2 6cyl, 5.3 12cyl	87-	LP075	LS075	LC075	
XJ6/8/12 2.9, 3.6 6cyl Petrol	86-92	LP075	LS075	LC075	
XJ6/8/12 Base 6cyl Petrol	93-	LP096	LS100	LC096	LF096
XJ6/8/12 6cyl Petrol	93-	LP017	LS019	LC017	LF017
XJ6/8/12 3.2 8cyl Petrol	97-	LP017	LS019	LC017	LF017
XJ6/8/12 6.0 V12 Petrol	93-	LP017	LS019	LC017	LF017
XJ6/8/12 (DAIMLER) Six Petrol	-94	LP075	LS075	LC075	
XJ6/8/12 (DAIMLER) Six Petrol	94-	LP017	LS019	LC017	LF017
XJ6/8/12 2.5, 3.0 Petrol	03-	LP017	LS019	LC017	LF017
XJ Petrol	03-	LP096	LS100	LC096	LF096
XK Petrol	96-	LP017	LS019	LC017	LF017
XJS Petrol	88-92	LP075	LS075	LC075	
XJS Petrol	92-	LP096	LS100	LC096	LF096
X-TYPE Estate Petrol	04-	LP096	LS100	LC096	LF096
XX8 Petrol	96-	LP019			
XK, XKR Petrol	98-	LP019			
X Type Petrol	00-	LP110			
Diesel					
S Type 2.7 Diesel	04-	LP019			
X TYPE Diesel	03-	LP110			
XF 2.7, 3.0 Diesel	08-	LP019			
XJ 2.7, 3.0 Diesel	05-	LP096	LS100	LC096	LF096
JEEP					
Petrol					
CJ/YJ Petrol	-	LP053			
CHEROKEE 2.5, 4.0 Petrol	84-	LP096R			
COMMANDER 3.7, 4.7, 5.7 Petrol	05-	LP096	LS100	LC096	LF096
COMPASS Petrol	05-	AM058L			
GRAND CHEROKEE 4.0, 4.7, 5.2 Petrol	92-	LP096R			
PATRIOT Petrol	08-	LP096R			
V8 Petrol	-	LP069			
WRANGLER 2.5 Petrol	93	AM058R			
WRANGLER 4.0 Petrol	87-	LP096R			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
JEEP CONTINUED					
Diesel					
CJ/YJ Diesel	-	LP644			
CHEROKEE 2.5D Diesel	89-	LP069			
COMPASS 2.0 Diesel	06-	LP096R			
GRAND CHEROKEE 2.5D, 3.1TD Diesel	95-	LP069			
PATRIOT Diesel	08-	LP096R			
Some later Jeep models fit Optima RTC4.2					
JENSEN					
CABRIO, COUPE					
CABRIO, COUPE	-	LP069			
HEALEY					
HEALEY	-	LP057			
INTERCEPTOR, S-V8					
INTERCEPTOR, S-V8	-	LP069			
KIA					
Petrol					
CARENS 2.0 Petrol	00-	LP065			
CARENS III Petrol	06-	LP027			
CARNIVAL Petrol	01-	LP005L			
CEE'D Petrol	07-	LP005L			
CERATO Petrol	04-	LP027			
CLARUS Petrol	-	LP027			
JOICE Petrol	00-	LP069			
MAGENTIS	01-	LP027			
MENTOR Petrol	-	LP057			
OPIRUS Petrol	03-	LP068			
PICANTO Petrol	04-	LP054			
PRIDE Petrol	91-	LP004L			
PRO CEE'D	08-	LP005L			
RIO Petrol	-	LP005L			
ROADSTER Petrol	99-	LP027			
RETONA	99-	LP005L			
SEDONA Petrol	-	LP068			
SHUMA Petrol	-	LP027			
SORRENTO 2.0, 2.5, 3.5 Petrol	02-	LP250H			
SOUL Petrol	09-	LP004L			
SPORTAGE Petrol	-	LP009R			
Diesel					
CARENS, Diesel	03-	LP068			
CARNIVAL, Diesel	01-	LP249H			
PRO CEE'D	08-	LP068			
MAGENTIS 2.0CDRi Diesel	05-	LP249H			
SEDONA, SPORTAGE	03-	LP249H			
SORRENTO Diesel	03-	LP249H			
SOUL Diesel	09-	LP068			
LADA					
Petrol					
KALINA Petrol	04-	LP078			
LADA 1.2, 1.3, 1.5, 1.6 Petrol	76-	LP069			
NIVA Petrol	79-	LP069			
RIVA Petrol	83-	LP069			
SAMARA Petrol	87-	LP069			
LAMBORGHINI					
LAMBORGHINI All Models					
LAMBORGHINI All Models		LP096	LS100	LC096	LF096
LANCIA					
Petrol					
BETA Coupe Spider, HPE Petrol	75-	LP063	LS063	LC063	
BETA Saloon Petrol	75-	LP077			
DEDRA Petrol	94-	LP027			
DELTA Petrol	80-	LP077			
DELTA Turbo Petrol	84-86	LP077			
DELTA III Petrol	08-	LP027			
FULVIA Petrol	75-	LP077			
GAMMA Saloon, Coupe Petrol	76-84	LP069			
MONTECARLO Petrol	77-85	LP077			
KAPPA Petrol	94-01	LP027			
LYBRA Petrol	99-	LP027			
MUSA Petrol	04-	LP027			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
LANCIA CONTINUED					
PRISMA Petrol	83-91	LP063	LS063	LC063	
THEMA Petrol	85-88	LP096	LS100	LC096	LF096
THESIS Petrol	02-	LP017	LS019	LC017	LF017
TREVI Petrol	81-84	LP077			
Y and Y10 Petrol	85-91	LP063	LS063	LC063	
Y10 Turbo Petrol	85-88	LP077			
YPSILON Petrol	03-	LP027			
ZETA 2.0 Petrol	95-	LP027			
Diesel					
DEDRA 1.9 Diesel	89-	LP096	LS100	LC096	LF096
DELTA 1.9, 2.0 Diesel	93-	LP096	LS100	LC096	LF096
KAPPA 2.4 Diesel	96-	LP096	LS100	LC096	LF096
LYBRA 1.9, 2.4 Diesel	99-	LP096	LS100	LC096	LF096
MUSA 1.3, 1.9 Diesel	04-	LP027			
PHEDRA 2.0, 2.2 Diesel	02-	LP096	LS100	LC096	LF096
THESIS 2.4 Diesel	02-	LP019			
YPSILON 1.3 Diesel	03-	LP027			
LAND ROVER					
Petrol					
DEFENDER Petrol	90-	LP069			
DISCOVERY Petrol	89-	LP069			
DISCOVERY III Petrol	04-	LP017	LS019	LC017	LF017
FREELANDER Petrol	97-	LP027			
FREELANDER 2 Petrol	06-	LP096	LS100	LC096	LF096
LAND ROVER Petrol	58-83	LP069			
RANGE ROVER Petrol	70-94	LP069			
RANGE ROVER Petrol	94-00	LP069			
RANGE ROVER Petrol	01-	LP020			
RANGE ROVER SPORT Petrol	05-	LP019			
Diesel					
DEFENDER Diesel	90-	LP069			
DISCOVERY Diesel	89-	LP072T			
DISCOVERY II Diesel	99-	C31-1000			
DISCOVERY III, IV, Diesel	04-	LP017	LS019	LC017	LF017
DISCOVERY TD5 Diesel	99-	C31-1000			
FREELANDER Diesel	97-	LP096	LS100	LC096	LF096
FREELANDER 2 Diesel	06-	LP096	LS100	LC096	LF096
LAND ROVER Diesel	71-86	LP643			
RANGE ROVER Diesel	86-94	LP069			
RANGE ROVER Diesel	94-00	LP644			
RANGE ROVER SPORT Diesel	00-	C31-1000			
RANGE ROVER SPORT 3.6 Diesel	05-	LP020			
90/110 90 Diesel	86-	LP069			
90/110 110 Diesel	83-	LP069			
LDV LCV					
200 Petrol	-	LP015			
200 Diesel	-	LP069			
400 Diesel	-	LP027			
400 Diesel	-	LP027			
CONVOY Diesel	-	LP075	LS075	LC075	
CUB Diesel	-	LP250H			
PILOT Diesel	-	LP069			
SHERPA 300 Diesel	-	LP027			
SHERPA 300 Diesel	-	LP027			
LEXUS					
Petrol					
GS300, GS400, GS430, GS450 Petrol	93-	LP068			
IS200, IS250 Petrol	00-	LP068			
LS400, LS430, LS460 Petrol	90-	LP005L			
RX300, RX350 RX400 Petrol	01-	LP068			
SC430 Petrol	01-	LP068			
Diesel					
IS220 Diesel	01-	LP250H			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
LOTUS					
ECLAT	75-82	LP085			
ECLAT	82-	LP027			
ELAN	90-	LP027			
ELISE	96-	LP075	LS075	LC075	
ELITE	-91	LP015			
ESPRIT S3, S3 Turbo	81-	LP065			
ESPRIT, Not S3, S3 Turbo	81-	LP015			
ESPRIT3.5 V8, 2 ELEVEN	96-	LP075	LS075	LC075	
EVORA	08-	LP096	LS100	LC096	LF096
EXCEL	82-	LP065			
EXIGE	01-	LP065			
LTI LCV					
FX4 Taxi, TX1 Diesel	-	LP643			
TX2 Taxi Diesel	01-	LP096	LS100	LC096	LF096
TX4 2.5 Diesel	06-	LP019			
MAHINDRA					
Mahindra	90-	LP249H			
MASERATI					
BORA	-	LP027			
GHIBLI	-	LP017	LS019	LC017	LF017
KHAMSIN	-	LP027			
KYALAMI	-	LP088			
MERAK	-	LP065			
QUATTROPORTE	94-	LP069			
3200 GT, SPYDER COUPE	99-	LP096	LS100	LC096	LF096
MAYBACH					
Maybach	03-	LP019			
MAZDA					
Petrol					
2. 1.2, 1.4, 1.6 Petrol	03-06	LP063	LS063	LC063	
2. 1.2, 1.3, 1.4, 1.5, 1.6 Petrol	07-	LP027			
3. Petrol	03-	LP075	LS075	LC075	
5. Petrol	04-	LP005L			
6. 1.8, 2.0, 2.3 Petrol	02-06	LP005L			
6 1.8, 2.0, 2.5,	07-	LP027			
121 Petrol	88-	LP054			
323 Petrol	81-88	LP004L			
323 Petrol	88-	LP053			
626 Petrol	79-	LP005L			
BONGO Petrol	95-	LP005L			
CX-7 Petrol	07-	LP096	LS100	LC096	LF096
DEMIO, Petrol	01-	LP063	LS063	LC063	
MX3 Petrol	92-	LP068			
MX5 Petrol	89-98	LPMX5			
MX5 II Petrol	99-05	LP063	LS063	LC063	
MX5 III (under bonnet) Petrol	05-	LP053			
MX6 Petrol	92-	LP068			
PREMACY Petrol	99-	LP004L			
RX7 Petrol	-86	LP005R			
RX7 Petrol	86-	LP005L			
RX8 Petrol	02-	LP088			
TRIBUTE Petrol	01-	LP096	LS100	LC096	LF096
XEDOS 6 Petrol	92-	LP065			
XEDOS 9 Petrol	92-	LP005L			
Diesel					
2, 1.4 Diesel	03-	LP027			
3, 5 Diesel	03-	LP068			
6, 2.0 Diesel	02-	LP249H			
323 Diesel	88-	LP005L			
626 Diesel	85-	LP069			
BONGO Diesel	95-	LP249H			
CX-7	07-	LP096	LS100	LC096	LF096

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
MAZDA LCV					
Petrol					
B SERIES B1600 Petrol		LP004R			
B SERIES B1800 Petrol	-	LP004R			
B SERIES B2000 Petrol	-	LP004R			
E SERIES E1600 Petrol	-	LP069			
E SERIES E2000 Petrol	-	LP005L			
Diesel					
B SERIES B2200 Diesel	-	LP068			
E SERIES E2200 Diesel	-	LP068			
MERCEDES					
Petrol					
190, 190E Petrol	83-93	LP027			
A CLASS					
A140, A160, A190, A200, A210 Petrol	98-	LP027			
B CLASS, B150, B170, B200 Petrol	05-	LP027			
C CLASS					
C160, C180, C200, C220 Petrol	93-01	LP027			
C230, C240 Petrol	93-01	LP027			
C280, C320, C350, C36, C43, Petrol	93-01	LP096	LS100	LC096	LF096
C CLASS	07-	LP096	LS100	LC096	LF096
CABRIOLET, COUPE 300, 320 Petrol	87-93	LP096	LS100	LC096	LF096
COUPE 220, 230 Petrol	87-93	LP027			
230CE Petrol	87-93	LP027			
300CE Petrol	87-93	LP100	LS100	LC096	
300CE 24 v Petrol	89-93	LP096	LS100	LC096	LF096
CLC CLASS Petrol	08-	LP096	LS100	LC096	LF096
CLK 200, 230, 240, Petrol	97-	LP027			
CLK 280, 320, 350, 430, 500 Petrol	97-	LP096	LS100	LC096	LF096
55AMG Petrol	97-	LP096	LS100	LC097	LF096
CLK 63AMG Petrol	03-	LP017	LS019	LC017	LF017
CLS 320, 350, 500, 55 Petrol	04-	LP017	LS019	LC017	LF017
63AMG Petrol	04-	LP017	LS019	LC017	LF017
200E Petrol	74-84	LP027			
200E, T, TE Petrol	84-93	LP100	LS100	LC096	
220E, TE Petrol	76-85	LP027			
230E, TE Petrol	76-85	LP027			
230E, TE Petrol	85-93	LP100	LS100	LC096	
260E Petrol	85-93	LP100	LS100	LC096	
280E, TE Petrol	76-88	LP027			
300E Petrol	85-91	LP027			
E CLASS					
E200, E220, E230, E240 Petrol	93-02	LP027			
E280, E300, E320, E420 Petrol	93-02	LP096	LS100	LC096	LF096
E430, E500 Petrol	93-02	LP096	LS100	LC096	LF096
E36, E50, E55, E60 AMG Petrol	93-02	LP096	LS100	LC096	LF096
E CLASS Petrol	03-	LP019			
G CLASS					
230G Petrol	79-93	LP027			
230GE, 280GE, 300GE Petrol	79-93	LP096	LS100	LC096	LF096
G320, G500, GL450, GL500 Petrol	89-	LP017	LS019	LC017	LF017
G36AMG, G55AMG Petrol	89-	LP017	LS019	LC017	LF017
GL, GLK CLASS Petrol	06-	LP019			
M CLASS					
ML 230, 320, 350, 430, 500 Petrol	05-	LP017	LS019	LC017	LF017
55AMG, 63AMG Petrol	05-	LP017	LS019	LC017	LF017
R CLASS Petrol	06-	LP017	LS019	LC017	LF017
S CLASS					
260, 280, 300, 380, SE, SEC Petrol	79-91	LP096	LS100	LC096	LF096
260, 280, 300, 380 SEL Petrol	79-91	LP096	LS100	LC096	LF096
420, 500, 560, SE, SEC Petrol	79-91	LP096	LS100	LC096	LF096
420, 500, 560 SEL Petrol	79-91	LP096	LS100	LC096	LF096
300, 400, 500, 600, SE Petrol	92-	LP017	LS019	LC017	LF017
300, 400, 500, 600 SEL Petrol	92-	LP017	LS019	LC017	LF017
S280, S320, S430, S420 Petrol	92-	LP017	LS019	LC017	LF017
S500, S600 Petrol	92-	LP017	LS019	LC017	LF017
S55AMG, S63AMG, S65AMG Petrol	98-	LP017	LS019	LC017	LF017
SEC/CL 420, SEC/CL 500 Petrol	92-99	LP017	LS019	LC017	LF017
SEC/CL 600, Petrol	92-99	LP017	LS019	LC017	LF017

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
MERCEDES CONTINUED					
CL63AMG, CL63AMG Petrol	99-	LP017	LS019	LC017	LF017
CL65AMG Petrol	99-	LP017	LS019	LC017	LF017
230S Petrol	76-85	LP027			
230S Petrol	85-93	LP096	LS100	LC096	LF096
250S, SE Petrol	76-85	LP096	LS100	LC096	LF096
280S Petrol	76-88	LP027			
300SE Petrol	-88	LP027			
300SE Petrol	89-	LP096	LS100	LC096	LF096
380S Petrol	-89	LP096	LS100	LC096	LF096
380S Petrol	89-	LP017	LS019	LC017	LF017
400S Petrol	91-93	LP017	LS019	LC017	LF017
420S Petrol	86-89	LP017	LS019	LC017	LF017
450S and SL Petrol	73-80	LP096	LS100	LC096	LF096
500S Petrol	80-89	LP096	LS100	LC096	LF096
500S, 560S, 600S Petrol	89-93	LP017	LS019	LC017	LF017
500SL Petrol	80-89	LP096	LS100	LC096	LF096
500SL Petrol	89-93	LP017	LS019	LC017	LF017
SL CLASS					
SL280 Petrol	89-02	LP096	LS100	LC096	LF096
SL300, SL320, SL500, SL600 Petrol	89-02	LP017	LS019	LC017	LF017
SLK CLASS					
SLK200, SLK230, SLK320 Petrol	97-04	LP027			
SLK200, 280, 350, 55AMG Petrol	04-	LP096	LS100	LC096	LF096
SLK32 AMG Petrol	97-	LP096	LS100	LC096	LF096
SLR 5.4 Petrol	04-	LP017	LS019	LC017	LF017
V CLASS					
MPV Petrol	97-	LP017	LS019	LC017	LF017
VANEO 1.6, 1.9 Petrol	02-	LP096	LS100	LC096	LF096
Diesel					
190. 2.0, 2.5 Diesel	82-93	LP096	LS100	LC096	LF096
A CLASS, 160, 170, 180, 200 Diesel	01-	LP096	LS100	LC096	LF096
B CLASS, B180, B200 Diesel	05-	LP096	LS100	LC096	LF096
C CLASS Diesel					
C200D, C220D, C250D Diesel	96-	LP017	LS019	LC017	LF017
C270D, C300D, C320D Diesel	96-	LP017	LS019	LC017	LF017
CLK, 220CDi, 270CDi, 320CDi Diesel	02-	LP017	LS019	LC017	LF017
C CLASS Diesel	07-	LP019			
CLC CLASS Diesel	08-	LP096	LS100	LC096	LF096
200 Diesel, Diesel Turbo	85-93	LP096	LS100	LC096	LF096
220 Diesel	-85	LP096	LS100	LC096	LF096
240 Diesel, Diesel Turbo	76-85	LP096	LS100	LC096	LF096
250 Diesel	85-93	LP096	LS100	LC096	LF096
300 Diesel, Diesel Turbo	76-85	LP017	LS019	LC017	LF017
E CLASS Diesel					
E200D, E250D, E300D, E270D	93-01	LP017	LS019	LC017	LF017
E200D, E250D, E300D, E270D Turbo	93-01	LP017	LS019	LC017	LF017
E290D, E300D, E320 Diesel	93-01	LP017	LS019	LC017	LF017
E290D, E300D, E320 Turbo Diesel	93-01	LP017	LS019	LC017	LF017
E CLASS Diesel	02-	LP019			
G, GL CLASS					
240GD, 250GD, 290GD Diesel	79-	LP017	LS019	LC017	LF017
300GD Diesel	79-	LP017	LS019	LC017	LF017
320GD, 350GTD, 400CDi Diesel	89-	LP017	LS019	LC017	LF017
420CDi Diesel	89-	LP017	LS019	LC017	LF017
M CLASS Diesel					
ML270, ML280, ML300 Diesel	98-	LP019			
ML320, ML350, ML400, Diesel	98-	LP019			
ML420, ML450 Diesel	98-	LP019			
S CLASS Diesel					
300TD, 350TD, Diesel	91-98	LP017	LS019	LC017	LF017
S350, S400, S420 Diesel,	93-	LP017	LS019	LC017	LF017
S350, S400, S420 Turbo Diesel	93-	LP017	LS019	LC017	LF017
V CLASS Diesel MPV	97-	LP017	LS019	LC017	LF017
MERCEDES LCV					
Petrol					
210 Petrol	-	LP027			
410 Petrol	-	LP027			
SPRINTER Petrol	95-	LP096	LS100	LC096	LF096

APPLICATION LIST

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
MERCEDES LCV CONTINUED					
VIANO Petrol	03-	LP096	LS100	LC096	LF096
VANEO Petrol	02-	LP096	LS100	LC096	LF096
VITO 113, 114, 119, 122, 123 Petrol	02-	LP096	LS100	LC096	LF096
Diesel					
100 Diesel	-	LP017	LS019	LC017	LF017
206 Diesel*	-	LP096	LS100	LC096	LF096
206 Diesel*	-	LP017	LS019	LC017	LF017
207 Diesel*	-	LP096	LS100	LC096	LF096
207 Diesel*	-	LP017	LS019	LC017	LF017
208 Diesel*	-	LP096	LS100	LC096	LF096
208 Diesel*	-	LP017	LS019	LC017	LF017
209 Diesel*	-	LP096	LS100	LC096	LF096
209 Diesel*	-	LP017	LS019	LC017	LF017
210 Diesel	-	LP017	LS019	LC017	LF017
310 Diesel	-	LP027			
306 Diesel*	-	LP096	LS100	LC096	LF096
306 Diesel*	-	LP017	LS019	LC017	LF017
307 Diesel*	-	LP096	LS100	LC096	LF096
307 Diesel*	-	LP017	LS019	LC017	LF017
308 Diesel*	-	LP096	LS100	LC096	LF096
308 Diesel*	-	LP017	LS019	LC017	LF017
309 Diesel*	-	LP096	LS100	LC096	LF096
309 Diesel*	-	LP017	LS019	LC017	LF017
SPRINTER 208, 210, 211 Diesel	95-06	LP096	LS100	LC096	LF096
212, 213, 214, 216 Diesel	95-06	LP096	LS100	LC096	LF096
SPRINTER 408, 410, 411 Diesel	96-	LP017	LS019	LC017	LF017
412, 413, 414 Diesel	96-	LP017	LS019	LC017	LF017
SPRINTER 309, 311, 315 Diesel	06-	LP017	LS019	LC017	LF017
318, 324 Diesel	06-	LP017	LS019	LC017	LF017
SPRINTER 509, 511, 515, 518 Diesel	06-	LP017	LS019	LC017	LF017
T1 Bus, Box and Flatbed Diesel	-	LP017	LS019	LC017	LF017
VIANO Diesel	03-	LP017	LS019	LC017	LF017
V CLASS 200,230, 280 Diesel	-	LP017	LS019	LC017	LF017
VITO 108, 109, 110, 111 Diesel	-	LP017	LS019	LC017	LF017
VITO 112, 115 Diesel	-	LP017	LS019	LC017	LF017
* OE fitment differs depending on the application - please check					
METROCAB					
Metrocab Diesel	91-	LP663			
MICROCAR					
Microcar Petrol	04-	LP002R			
MINI (BMW)					
ONE, COOPER, S Petrol	01-	LP065			
CONVERTIBLE Petrol	01-	LP065			
ONE D, COOPER D Diesel	01-	LP100	LS100	LC096	
ONE, COOPER (Start Stop), CLUBMAN	06-	LP096	LS100	LC096	LF096
COUNTRYMAN	10-	LP096	LS100	LC096	LF096
MG SEE ROVER					
MITSUBISHI					
Petrol					
3000 GT Petrol	92-	LP069			
ASX 1.6 Petrol	10-	LP054			
CARISMA Petrol	95-	LP027			
COLT Petrol	79-92	LP069			
COLT Mirage Petrol	95	LP005L			
COLT VI Petrol	04-	LP027			
CORDIA Petrol	82-86	LP069			
DELICIA Petrol	-	LP250H			
ECLIPSE 1.8, 2.0, 2.4 Petrol	89-	LP069			
EVO 300,320, 340, 360.Petrol	05-	LP005R			
GALANT, GALLOPER Petrol	78-	LP069			
GRANDIS 2.0, 2.4 Petrol	00-	LP250H			
I, 600cc Petrol	07-	LP054			
LANCER Petrol	78-	LP069			
LANCER Petrol	03-	LP027			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
MITSUBISHI CONTINUED					
OUTLANDER Petrol	03-05	LP068			
OUTLANDER Petrol	06-	LP249H			
PAJERO III V60 3.5 Petrol	00-	LP250H			
PAJERO IV, Petrol	07-	LP005R			
PAJERO JUNIOR	07-	LP055			
SAPORO Petrol	87-89	LP069			
SHOGUN Petrol	83-	LP069			
SHOGUN PININ Petrol	00-	LP250H			
SIGMA Petrol	77-85	LP069			
SIGMA Petrol	90-	LP069			
SPACE RUNNER Petrol	91-	LP069			
SPACE STAR Petrol	01-	LP027			
SPACE WAGON Petrol	84-	LP069			
STARION Petrol	84-	LP069			
TREDIA Petrol	82-85	LP069			
Diesel					
ASX 1.8 Diesel	10-	LP005L			
CARISMA Diesel	95-	LP096	LS100	LC096	LF096
COLT Diesel	84-88	LP250H			
GALLOPER Diesel	99-	LP069			
GALANT, GALLOPER Diesel Turbo	84-89	LP250H			
GRANDIS Diesel	00-	LP249H			
LANCER Diesel	84-89	LP250H			
LANCER Diesel	03-	LP027			
OUTLANDER Diesel	06-	LP249H			
PAJERO II, III Diesel	90-	LP250H			
PAJERO IV, Diesel	07-	LP068			
SHOGUN Diesel Turbo	84-	LP250H			
SHOGUN PININ Diesel	00-	LP249H			
SPACE STAR Diesel	01-	LP096	LS100	LC096	LF096
SPACE WAGON Diesel, Diesel Turbo	85-89	LP250H			
MITSUBISHI LCV					
L200 Petrol	86-04	LP069			
L200 Petrol	05-	LP249H			
L300 Petrol	-	LP005L			
L200 Diesel	-	LP250H			
L300 Diesel	-	LP250H			
L400 Diesel	-	LP250H			
CANTOR Diesel	-	LP616R			
MORGAN					
MORGAN All Models		LP015			
NISSAN					
Petrol					
100NX Petrol	92-	LP005L			
200SX Petrol	89-	LP005R			
280ZX Petrol	79-84	LP069			
300ZX Petrol	84-95	LP069			
350Z and ROADSTER Petrol	03-	LP005L			
370Z 3.7 Petrol	09-	LP005L			
ALMERA Petrol	95-00	LP005L			
ALMERA 1.5 Almoratino Petrol	00-	LP063	LS063	LC063	
ALMERA 1.8 Almoratino Petrol	00-	LP065			
BLUEBIRD Petrol, Not 180B	80-90	LP065			
BLUEBIRD 180B Petrol	80-90	LP069			
CHERRY Petrol	82-87	LP054			
CHERRY Petrol	87-	LP054			
CUBE 1.6 Petrol	09-	LP005L			
FIGARO	91-	LP054			
KUBISTAR 1.2, 1.6 Petrol	03-	LP063	LS063	LC063	
LAUREL Petrol	-86	LP069			
LAUREL Petrol	86-	LP005R			
MAXIMA Petrol	89-00	LP005L			
MAXIMA QX Petrol	00-	LP096	LS100	LC096	LF096
MICRA Petrol	-92	LP054			
MICRA Petrol UK	92-00	LP053			
MICRA 1.0, 1.2, 1.4, 160SR Petrol	00-	LP063	LS063	LC063	

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
NISSAN CONTINUED					
MICRA K12 Petrol	00-	LP063	LS063	LC063	
MICRA C + C, 1.4, 1.6	05-	LP075	LS075	LC075	
MURANO V6 3.0, 3.5 Petrol	05-	LP088			
NAVARA 2.4 Petrol	92-97	LP068			
NAVARA 3.0 Petrol	98-	LP096	LS100	LC096	LF096
NOTE 1.4, 1.6 Petrol	06-	LP063	LS063	LC063	
PATHFINDER 2.4, 3.3, 3.5 Petrol	97-	LP069			
PATROL Petrol	82-	LP069			
PATROL GR Petrol	92-	LP068			
PRAIRIE Petrol	83-91	LP005L			
PRIMERA Petrol	90-	LP065			
PRIMERA 1.8, 2.0 Petrol	02-	LP096	LS100	LC096	LF096
PULSAR Petrol	-	LP054			
QASHQAI 1.6, 2.0 Petrol	07-	LP027			
QX 2.0 Petrol	95-	LP005L			
QX 3.0 Petrol	95-	LP068			
SERENA Petrol	93-	LP005L			
SILVIA Petrol	84-89	LP069			
SKYLINE 240K GT Petrol	-	LP069			
STANZA Petrol	81-86	LP069			
SUNNY Petrol	82-	LP005L			
TERRANO Petrol	87-93	LP005L			
TERRANO II Petrol	93-	LP069			
TIIDA 1.6, 1.8,	07-	LP027			
X TRAIL Petrol	00-	LP068			
Diesel					
ALMERA Diesel	95-00	LP249H			
ALMERA Diesel Almoratino	00-	LP096	LS100	LC096	LF096
BLUEBIRD Diesel	86-90	LP249H			
CHERRY Diesel	82-87	LP249H			
CUBE 1.5 Diesel	09-	LP068			
KUBISTAR 1.5 Diesel	03-	LP096	LS100	LC096	LF096
LAUREL Diesel	86-	LP250H			
MICRA 1.5 Diesel	03-	LP075	LS075	LC075	
MURANO Diesel	05-	LP068			
NAVARA 2.5, NV200, NV400 Diesel	05-	LP249H			
NOTE 1.5 Diesel	06-	LP075	LS075	LC075	
PATHFINDER Diesel	05-	LP096	LS100	LC096	LF096
PATROL Diesel, Diesel Turbo	82-	LP249H & LP250H			
PRIMERA Diesel	90-	LP068			
PRIMERA 2.2 TD Diesel	02-	LP096	LS100	LC096	LF096
QASHQAI 1.5, 2.0 Diesel	07-	LP096	LS100	LC096	LF096
SERENA Diesel	93-	LP250H			
SUNNY Diesel	86-	LP249H			
TERRANO II Diesel	93-96	LP250H			
TERRANO II Diesel Turbo	97-	LP250H			
TIIDA 1.5CDi Diesel	07-	LP027			
X TRAIL Diesel	00-	LP096	LS100	LC096	LF096
X-TRAIL Diesel	07-	LP068			
NISSAN LCV					
Petrol					
CABSTAR Petrol	-	LP249H			
D21 PICK UP Petrol 1 Ton	-	LP069			
SUNNY Petrol	-	LP069			
URVAN Petrol	-	LP005L			
VANETTE Petrol	-	LP069			
Diesel					
CABSTAR Diesel	-	LP616R			
D21 PICK UP Diesel 1 Ton	-	LP644			
EBRO TRADE L75 Diesel Van	-	LP249H			
INTERSTAR Diesel	02-	LP017	LS019	LC017	LF017
PRIMASTAR Diesel	02-	LP096	LS100	LC096	LF096
SUNNY Diesel	-	LP249H			
URVAN Diesel	-	LP250H			
VANETTE Diesel	-	LP069			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
NOBLE					
Noble	01-	LP075	LS075	LC075	
OPEL SEE VAUXHALL					
PERODUA					
KELISA Petrol	02-	LP054			
KENARI Petrol	02-	LP054			
MYVI, NIPPA Petrol	97-	LP054			
PEUGEOT*					
Petrol					
104 Petrol	73-83	LP048H			
106 Petrol	91-	LP063	LS063	LC063	
107 Petrol	05-	LP002L			
204 Petrol	72-80	LP049H			
205 Petrol	83-	LP063	LS063	LC063	
206 2.0 Petrol	99-	LP063	LS063	LC063	
206 Cabrio Petrol	00-	LP027			
207 1.4 Petrol	06-	LP012			
207 1.4Hdi, 1.6	06-	LP027			
207 1.6 Convertible Petrol	06-	LP027			
304 Petrol	72-80	LP049H			
305 Petrol	78-88	LP063	LS063	LC063	
306 Petrol	93-	LP063	LS063	LC063	
307 Petrol	01-	LP065			
307 CC Petrol	03-	LP027			
308 Petrol	07-	LP027			
309 Petrol	86-88	LP063	LS063	LC063	
404 Petrol	72-80	LP049H			
405 Petrol	87-	LP063	LS063	LC063	
406 Petrol	96-	LP063	LS063	LC063	
406 Petrol Coupe	97-	LP065			
407 1.8, 2.0, 2.2 Petrol	04-	LP027			
407 3.0 Petrol	04-	LP100	LS100	LC096	
504 Petrol	76-	LP063	LS063	LC063	
505 Petrol	79-92	LP027			
604 Petrol	75-85	LP027			
605 Petrol	90-	LP027			
607 Petrol	01-	LP100	LS100	LC096	
806 Petrol	95-	LP027			
807 2.0, 2.2 Petrol	03-	LP100	LS100	LC096	
1007 1.4, 1.6 Petrol	05-	LP012			
1007 1.4Hdi Petrol	05-	LP027			
3008, 5008 Petrol	09-	LP027			
PARTNER COMBI (MPV) Petrol	01-	LP027			
Diesel					
106, 107 Diesel	93-	LP065			
205 Diesel, Diesel Turbo	83-	LP027			
206 Diesel	99-	LP027			
304 Diesel	72-80	LP096	LS100	LC096	LF096
305 Diesel	79-89	LP027			
306 Diesel, Diesel Turbo	93-	LP027			
307 Diesel	01-	LP027			
308 Diesel	07-	LP096	LS100	LC096	LF096
309 Diesel, Diesel Turbo	86-93	LP027			
404 Diesel	72-80	LP096	LS100	LC096	LF096
405 Diesel, Diesel Turbo	88-	LP027			
406 Diesel, Diesel Turbo	96-	LP027			
407 1.6 Diesel	04-	LP027			
407 2.0 Diesel	04-	LP100	LS100	LC096	
504 Diesel	76-	LP096	LS100	LC096	LF096
505 Diesel, Diesel Turbo	85-90	LP027			
604 Diesel Turbo	79-87	LP096	LS100	LC096	LF096
605 Diesel Turbo	90-	LP027			
607 Diesel	01-	LP096	LS100	LC096	LF096
806 Diesel	94-	LP096	LS100	LC096	LF096
807 2.2 Diesel	03-	LP096	LS100	LC096	LF096
1007, Diesel	05-	LP027			
3008, 5008 Diesel	10-	LP096	LS100	LC096	LF096
4007 Diesel	07-	LP249H			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
PEUGEOT* CONTINUED					
PATNER COMBI (MPV) Diesel	01-	LP096	LS100	LC096	LF096
* Some Peugeots have a tall version 063 fitted as O.E. - equivalent to type 012.					
PEUGEOT LCV					
Petrol					
205 Petrol	-	LP063	LS063	LC063	
305 Petrol	-	LP063	LS063	LC063	
306 Petrol	-	LP063	LS063	LC063	
504 Petrol	-	LP063	LS063	LC063	
BIPPER Petrol	-	LP012			
BOXER 270 S Petrol	-	LP096	LS100	LC096	LF096
BOXER 320 M Petrol	-	LP096	LS100	LC096	LF096
BOXER Bus Petrol	-	LP096	LS100	LC096	LF096
EXPERT, J5, J9, 1.6, 1.8, 2.0 Petrol	-	LP075	LS075	LC075	
EXPRESS 1000, 250 Petrol	-	LP027			
EXPRESS 1400, 290 Petrol	-	LP027			
EXPRESS 1500, 310 Petrol	-	LP027			
EXPRESS 1800, 350 Petrol	-	LP027			
EXPRESS Sportsman Petrol	-	LP027			
PARTNER Petrol	-	LP012			
Diesel					
106 Diesel	-	LP075	LS075	LC075	
205 Diesel	-	LP075	LS075	LC075	
305 Diesel	-	LP075	LS075	LC075	
306 Diesel, Diesel Turbo	-	LP075	LS075	LC075	
BIPPER Diesel	-	LP075	LS075	LC075	
BOXER 270 S, 320L, 350L, BUS Diesel	-	LP096	LS100	LC096	LF096
BOXER 270 S, 320L, 350L, BUS Diesel	02-	LP017	LS019	LC017	LF017
EXPERT J5, J9, 1.9D, 2.0D, 2.3 Diesel	-	LP096	LS100	LC096	LF096
EXPERT 2.5 Diesel	-	LP096	LS100	LC096	LF096
EXPRESS Diesel	-	LP096	LS100	LC096	LF096
PARTNER Diesel	-	LP027			
PIAGGIO					
PORTER Petrol	95-	LP048H			
PORTER Diesel	95-	LP027			
PORSCHE					
911	-73	LP063	LS063	LC063	
911 Carrera	73-92	LP100	LS100	LC096	
911 Carrera 4	93-	LP017	LS019	LC017	LF017
911 TARGA, 912	08-	LP096	LS100	LC096	LF096
924	-85	LP065			
924 S, 959	85-	LP065			
925	-85	LP065			
928	77-85	LP100	LS100	LC096	
928 S	85-	LP100	LS100	LC096	
944 S	86-91	LP100	LS100	LC096	
944 S	91-	LP100	LS100	LC096	
968, 993	91-	LP100	LS100	LC096	
977	06-	LP110			
BOXSTER	97-	LP110			
CARRERA GT	03-	LP110			
CAYMAN	05-	LP110			
CAYENNE, PANAMERA	09-	LP019			
PROTON					
Petrol					
COUPE 1.8 Petrol	01-	LP069			
GEN - 2 Petrol	04-	LP078			
IMPIAN Petrol	00-	LP005R			
JUMBUCK Petrol	04-	LP009R			
SAVVY Petrol	06-	LP054			
PERSONA Petrol	91-	LP069			
PERSONA Compact Petrol	96-	LP009R			
PROTON Petrol	91-	LP069			
SATRIA 1.3, 1.5, 1.6, 1.8 Petrol	00-	LP078			
WIRA 1.3, 1.5, 1.6, 1.8 Petrol	00-	LP069			
Diesel					
PERSONA Diesel	91-	LP250H			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
RELIANT					
Petrol					
KITTEN, RIALTO	62-78	LP104			
REBEL	62-78	LP895			
ROBIN	62-78	LP895			
SCIMITAR	66-86	LP015			
SS1/SS1 SS1	85-	LP063	LS063	LC063	
RENAULT					
Petrol					
4 Petrol	70-88	LP048H			
5 Petrol, Not GT Turbo	85-	LP063	LS063	LC063	
5 GT Petrol Turbo	85-	LP065			
9 Petrol	81-88	LP063	LS063	LC063	
10 Petrol	69-72	LP048H			
11 Petrol	83-89	LP063	LS063	LC063	
12 Petrol	69-80	LP048H			
14 Petrol	77-82	LP048H			
15 Petrol	72-80	LP048H			
16 Petrol	65-79	LP048H			
17 Petrol	71-79	LP048H			
18 Petrol	78-86	LP048H			
19 Chamade Petrol	88-	LP063	LS063	LC063	
19 Petrol	88-	LP063	LS063	LC063	
20 Petrol	76-83	LP065			
21 Petrol	86-	LP063	LS063	LC063	
25 Petrol	84-92	LP063	LS063	LC063	
30 Petrol	76-84	LP027			
ALPINE, A310, GT V6 Petrol	86-90	LP065			
ALPINE GTA V6 Petrol	86-90	LP027			
CLIO 1.2, 1.4 Petrol	91-	LP063	LS063	LC063	
CLIO 1.6, 1.8, 2.0 Petrol	91-	LP027			
ESPACE Petrol	85-	LP027			
FLUENCE 1.6, 2.0 Petrol	10-	LP075	LS075	LC075	
GRAND SCENIC Petrol	09-	LP075	LS075	LC075	
KANGOO (MPV) Petrol	01-	LP075	LS075	LC075	
LAGUNA 1.6, 1.8, 2.0 Petrol	01-	LP027			
LAGUNA 1.8, 2.0 Petrol	94-00	LP063	LS063	LC063	
LAGUNA 3.0 Petrol	94-	LP027			
LAGUNA V6 Petrol	01-	LP096	LS100	LC096	LF096
MEGANE Petrol	96-	LP063	LS063	LC063	
MEGANE Classic Petrol	97-	LP027			
MEGANE Scenic Petrol	97-	LP027			
MEGANE Cabrio Petrol	03-	LP100	LS100	LC096	
MODUS 1.2, 1.6 Petrol	04-	LP012			
SAFRANE Petrol	93-	LP027			
SANDERO 1.0, 1.4 Petrol	07-	LP063	LS063	LC063	
SANDERO 1.6 Petrol	07-	LP075	LS075	LC075	
SCENIC EVOL 1.4, 1.6, 1.8 Petrol	01-	LP075	LS075	LC075	
SCENIC EVOL 2.0 Petrol	01-	LP096	LS100	LC096	LF096
SCENIC GRAND Petrol	04-	LP075	LS075	LC075	
SPIDER Petrol	96-	LP065			
TWINGO Petrol	93-	LP063	LS063	LC063	
VEL SATIS Petrol	02-	LP096	LS100	LC096	LF096
Diesel					
5 TD Diesel	86-	LP075	LS075	LC075	
9 TD Diesel	83-	LP075	LS075	LC075	
11 TD Diesel	83-	LP075	LS075	LC075	
18 Diesel	80-86	LP075	LS075	LC075	
19 Diesel, Diesel Turbo	88-	LP075	LS075	LC075	
21 Diesel Turbo	86-	LP075	LS075	LC075	
CLIO 1.5 Diesel	91-	LP075	LS075	LC075	
CLIO 1.9 Diesel	91-	LP096	LS100	LC096	LF096
ESPACE Diesel Turbo	93-	LP096	LS100	LC096	LF096
FLUENCE 1.5 Diesel	10-	LP096	LS100	LC096	LF096
GRAND SCENIC Diesel	09-	LP100	LS100	LC096	
KANGOO, KALEOS Diesel	02-	LP096	LS100	LC096	LF096
LAGUNA 2.2 Diesel	93-	LP096	LS100	LC096	LF096
LAGUNA Diesel	07-	LP110			
MEGANE Diesel, Diesel Turbo	96-	LP096	LS100	LC096	LF096

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
RENAULT CONTINUED					
MEGANE Scenic Diesel Turbo	97-	LP096	LS100	LC096	LF096
MODUS 1.5 Diesel	04-	LP027			
SAFRANE Diesel	93-	LP096	LS100	LC096	LF096
SCENIC Diesel	09-	LP100	LS100	LC096	
VEL SATIS Diesel	02-	LP096	LS100	LC096	LF096
RENAULT LCV					
Petrol					
5 Petrol	-89	LP063	LS063	LC063	
5 TD Petrol	-89	LP063	LS063	LC063	
CLIO Petrol	-95	LP063	LS063	LC063	
EXTRA Petrol	-	LP063	LS063	LC063	
KANGOO Petrol	98-	LP075	LS075	LC075	
MASTER Petrol	-	LP065			
TRAFFIC 1.4 Petrol	-	LP053			
TRAFFIC 1.7 Petrol	-	LP065			
Diesel					
CLIO Diesel	-	LP027			
EXTRA Diesel	-	LP027			
KANGOO Diesel	98-	LP027			
MASTER Diesel	-	LP017	LS019	LC017	LF017
TRAFFIC 2.1 Diesel	-	LP027			
TRAFFIC 2.5 Diesel	-	LP017	LS019	LC017	LF017
REVA					
G-WIZZ (Electric)	05-	LP2200 x 8			
ROLLS-ROYCE – BENTLEY					
Petrol					
BENTLEY	-93	LP069			
ARNAGE AZURE	-	LP069			
CONTINENTAL	-03	LP069			
CONTINENTAL	04-	LP020			
CORNICHE	94-	LP069 x2			
GHOST, MULSANNE	09-	LP019			
PHANTOM	-	LP088			
PARK WARD, SILVER SERAPH	-	LP069 x2			
SILVER CLOUD	-	LP088			
SILVER SPIRIT, SILVER SPUR	-	LP069			
PHANTOM	03-	LP020			
ROVER (MG)					
Petrol					
25 1.1, 1.4, 1.6 Petrol	99-	LP063	LS063	LC063	
25 1.8 Petrol	99-	LP065			
45 1.6, 1.8 Petrol	99-	LP065			
45 2.0, V6 Petrol	99-	LP075	LS075	LC075	
75 1.8 Petrol	99-	LP075	LS075	LC075	
75 1.8 Petrol auto 2.0, 2.6, V6	99-	LP096	LS100	LC096	LF096
100 Petrol	91-	LP063	LS063	LC063	
213, 214, 216 Petrol	87-	LP063	LS063	LC063	
218 Petrol	87-	LP065			
220 Petrol	87-	LP065			
400 1.6 Tourer, 1.8 Tourer Petrol	95-	LP063	LS063	LC063	
400 2.0 Tourer Petrol	95-	LP065			
400 2.3 Tourer Petrol	95-	LP027			
400 1.4, 1.6 Petrol	90-	LP063	LS063	LC063	
400 1.6 Petrol (Automatic)	95-	LP057			
400 2.0 Petrol	91-	LP065			
600 Petrol	93-	LP063	LS063	LC063	
800 2.0 Petrol	87-	LP065			
800 2.5, 2.7 Petrol	87-	LP027			
ALLEGRO Petrol	73-84	LP038			
CITY Petrol	03-05	LP077			
ITAL Petrol	72-80	LP038			
MAESTRO Petrol	83-	LP063	LS063	LC063	
MARINA Petrol	71-80	LP038			
MAXI Petrol	69-81	LP038			
METRO Petrol	-84	LP038			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
ROVER (MG) CONTINUED					
METRO Petrol, Not MG, Turbo	85-	LP063	LS063	LC063	
METRO MG Petrol, Petrol Turbo	85-	LP063	LS063	LC063	
MGB Petrol	-74	LH421 x2			
MGB Petrol	74-81	LP069			
MGC Petrol	74-81	LP069			
MGF Petrol	95-	LP063	LS063	LC063	
MG RV8 Petrol	92-95	LP065			
MGTF Petrol	02-	LP065			
MINI , MIDGET Petrol	60-70	LP038			
MINI 1.0, MIDGET Petrol	70-92	LP038			
MINI 1.3 Petrol	65-	LP038			
MINI COOPER Petrol	92-	LP057			
MONTEGO Petrol	84-95	LP063	LS063	LC063	
SD1 3.5 Petrol	-	LP069			
STREETWISE 1.4 Petrol	03-	LP063	LS063	LC063	
ZR 1.4 Petrol	01-	LP063	LS063	LC063	
ZR ZS 1.8 Petrol	01-	LP065			
ZS V6 Petrol	01-	LP075	LS075	LC075	
ZT Petrol	01-	LP096	LS100	LC096	LF096
Diesel					
25, 45, 75, Diesel Turbo	99-	LP100	LS100	LC096	
100 Diesel	91-	LP027			
200 Diesel, Diesel Turbo	91-	LP027			
400 Tourer Diesel Turbo	95-	LP027			
400 Diesel, Diesel Turbo	91-	LP027			
600 Diesel	93-	LP096	LS100	LC096	LF096
800 Diesel	87-	LP096	LS100	LC096	LF096
MAESTRO Diesel	83-	LP096	LS100	LC096	LF096
METRO Diesel	85-	LP063	LS063	LC063	
MONTEGO Diesel, Diesel Turbo	84-95	LP096	LS100	LC096	LF096
STREETWISE 2.0 Diesel	03-	LP075	LS075	LC075	
ZR, ZT Diesel	01-	LP096	LS100	LC096	LF096
SAAB					
Petrol					
900 i Petrol	-94	LP069			
900 Petrol	-94	LP069			
900 Petrol Turbo	-94	LP027			
900 Petrol	94-	LP027			
9000 Petrol, Not 3.0 V6	85-	LP027			
9000 3.0 Petrol V6	94-	LP096	LS100	LC096	LF096
9-3, 9-3X Petrol	98-	LP027			
9-3 Convertible Petrol	03-	LP096	LS100	LC096	LF096
9-5 Petrol	97-01	LP096	LS100	LC096	LF096
90/99 99 Petrol	-84	LP069			
95/96 95, 96 Petrol	70-81	LP069			
9-5 Petrol	01-	LP019			
Diesel					
9-3, 9-5, 1.9TiD, 2.2TiD, 3.0TiD Diesel	02-	LP096	LS100	LC096	LF096
SEAT					
Petrol					
ALHAMBRA Petrol	97-	LP065			
ALHAMBRA 2.0, 2.3 Petrol	00-	LP075	LS075	LC075	
ALHAMBRA 2.8, V6	00-	LP096	LS100	LC096	LF096
AROSA Petrol	97-	LP063	LS063	LC063	
ALTEA Petrol	04-	LP065			
CORDOBA Petrol	93-96	LP065			
CORDOBA Petrol	96-	LP063	LS063	LC063	
CORDOBA 2.0 Petrol	96-	LP065			
EXEO 1.6, 1.8, 2.0 Petrol	09-	LP027			
IBIZA I, II Petrol	84-99	LP077			
IBIZA III, IV, 1.0, 1.2 Petrol	99-	LP063	LS063	LC063	
IBIZA III, IV, 1.4, 1.6, 1.8, 2.0 Petrol	99-	LP027			
IBIZA V, 1.2, 1.4 Petrol	08-	LP027			
LEON 1.4 Petrol	99-	LP063	LS063	LC063	
LEON 1.6, 1.8, 2.0, 2.8	99-	LP027			
MALAGA Petrol	85-	LP077			
MARBELLA Petrol	88-	LP077			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
SEAT CONTINUED					
Mii 1.0 Petrol	10-	LP002L			
TOLEDO Petrol	91-99	LP063	LS063	LC063	
TOLEDO 1.6, 1.8, 2.3, V6 Petrol	99-	LP075	LS075	LC075	
TOLEDO III Petrol	04-	LP096	LS100	LC096	LF096
Diesel					
ALHAMBRA Diesel Turbo	97-99	LP017	LS019	LC017	LF017
ALHAMBRA 1.9, 2.0 Diesel	00-	LP096	LS100	LC096	LF096
AROSA Diesel	99-	LP100			
ALTEA Diesel	04-	LP096	LS100	LC096	LF096
CORDOBA Diesel, Diesel Turbo	93-	LP100*	LS100	LC096	
CORDOBA Diesel, Diesel Turbo	96-	LP096	LS100	LC096	LF096
EXEO 2.0 Diesel	09-	LP096	LS100	LC096	LF096
IBIZA Diesel	84-	LP027			
IBIZA III, IV, V Diesel	99-	LP096	LS100	LC096	LF096
LEON Diesel	95-	LP096	LS100	LC096	LF096
MALAGA Diesel	85-	LP100*	LS100	LC096	
TOLEDO Diesel, Diesel Turbo	91-	LP100*	LS100	LC096	
* USE VW/AUDI Holddown adaptor Part No. SAP537267					
SEAT LCV					
Petrol					
INCA Petrol Van	96-	LP065			
TERRA Petrol Van	88-95	LP077			
Diesel					
INCA Diesel Van	96-	LP100	LS100	LC096	
TERRA Diesel Van	88-95	LP075	LS075	LC075	
SKODA					
Petrol					
CITYGO Petrol	12-	LP002L			
ESTELLE Petrol	84-89	LP063	LS063	LC063	
FABIA 1.4, 2.0 Petrol	-	LP075	LS075	LC075	
FAVORIT, FELICIA Petrol	89-	LP063	LS063	LC063	
OCTAVIA 1.6, 1.8, 2.0 Petrol	96-	LP075	LS075	LC075	
PRAKTIK 1.2, 1.4 Petrol	07-	LP027			
ROOMSTER 1.2, 1.4, 1.6 Petrol	06-	LP012			
SUPERB 1.8, 2.0 Petrol	01-	LP075	LS075	LC075	
SUPERB 2.8 Petrol	01-	LP096	LS100	LC096	LF096
YETI 1.2 Petrol	09-	LP012			
YETI 1.8 Petrol	09-	LP027			
Diesel					
FABIA, FELICIA 1.9D, TD Diesel	-	LP096	LS100	LC096	LF096
OCTAVIA 1.9 Diesel Turbo	96-	LP096	LS100	LC096	LF096
PRAKTIK 1.4 Diesel	07-	LP096	LS100	LC096	LF096
ROOMSTER 1.4TDi, 1.9TDi Diesel	06-	LP027			
SUPERB 1.8, 1.9, 2.0, 2.5, 2.8 Diesel	01-	LP096	LS100	LC096	LF096
YETI 1.6, 2.0 Diesel	09-	LP096	LS100	LC096	LF096
SKODA LCV					
FAVORIT PICKUP Petrol	89-	LP027			
CUBE Diesel	97-	LP027			
SMART (MCC)					
CITYTEMP, CROSSBLADE Petrol	98-	LP012			
FORTWO Petrol	98-	LP012			
FORFOUR, ROADSTER, CABRIO Petrol		LP012			
DIESEL MODELS 0.8	04-	LP027			
FORFOUR Diesel 1.5	04-	LP096	LS100	LC096	LF096
SSANGYONG					
Petrol					
ACTYON Petrol	05-	LP069			
KORANDO 2.3 Petrol	97-	LP069			
KYRON Petrol	05-	LP250H			
MUSSO G x 220 Petrol	97-	LP250H			
REXTON Petrol	03-	LP250H			
RODIUS Petrol	05-	LP250H			
Diesel					
ACTYON Diesel	05-	LP250H			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
SSANGYONG CONTINUED					
MUSSO Diesel	94-	LP250H			
RODIUS Diesel	05-	LP250H			
REXTON 2.9 Diesel	03-	LP250H			
KORANDO LS 2.9 Diesel	99-	LP250H			
STAVIC 2.7 Diesel	05-	LP250H			
SUBARU					
Petrol					
FORESTER Petrol	00-	LP005L			
FORESTER SG, SH 2.0, 2.5 Petrol	02-	LP005L			
IMPREZA Petrol	93-	LP005L			
JUSTY Petrol	84-	LP154			
LIBERO Petrol	83-00	LP054			
LEGACY 2.0, 2.5 Petrol	89-	LP005L			
OUTBACK 2.5, 3.6 Petrol	09-	LP005L			
SUBARU XT Petrol	84-	LP004R			
SUBARU 1.6 Petrol	84-	LP005R			
SUBARU 1.8 Petrol	84-	LP005R			
SVX Petrol	92-	LP069			
TRIBECA 3.0 Petrol	05-	LP005L			
VIVIO Petrol	92-	LP054			
WRX STI, XT1.8 Petrol	08-	LP005L			
Diesel					
FORESTER 2.0 Diesel	08-	LP088			
IMPREZA 2.0 Diesel	08-	LP088			
LEGACY Diesel	03-	LP005L			
OUTBACK 2.0 Diesel	09-	LP249H			
SUBARU LCV					
700 Petrol	85-88	LP053			
MV PICK UP 1.8 Petrol	81-94	LP005R			
SUMO Petrol	88-93	LP054			
SUZUKI					
Petrol					
ALTO I, II, III, Petrol	81-02	LP055			
ALTO IV, V, 1.0, 1.1 Petrol	03-	LP054			
BALENO Petrol	95-	LP054			
CAPPUCCINO Petrol	93-	LP054			
IGNIS 1.3, 1.5 Petrol	01-	LP063	LS063	LC063	
JIMNY 1.3 Petrol	98-	LP054			
JIMNY Petrol	05-	LP155			
LIANA Petrol	01-07	LP055			
LIANA 1.3 Petrol	08-	LP154			
SJ 410, SAMURAI Petrol	82-90	LP055			
SJ 413 Petrol	85-	LP054			
SPLASH 1.0 Petrol	08-	LP063	LS063	LC063	
SUPER CARRY 1.0 Petrol	85-99	LP054			
SWIFT SA310 Petrol	88-	LP054			
SWIFT Petrol	84-	LP055			
SWIFT Petrol	05-	LP063	LS063	LC063	
SX4 Petrol	07-	LP075	LS075	LC075	
VITARA Petrol Not Spanish Built	89-	LP055			
VITARA Petrol Spanish Built	89-	LP002R			
GRAND VITARA Petrol V6 Estate	95-	LP005L			
WAGON R+ Petrol	97-	LP054			
WAGON R Petrol	00-	LP063	LS063	LC063	
X-90 Petrol	96-	LP054			
Diesel					
BALENO 1.9 Diesel	95-	LP068			
GRAND VITARA Diesel	96-04	LP249H			
SPLASH 1.3 Diesel	08-	LP100	LS100	LC096	
SWIFT Diesel	05-	LP075	LS075	LC075	
SX4 1.6, 2.0 Diesel	06-	LP096	LS100	LC096	LF096
TATA					
INDIGO Petrol	03-	LP005L			
SAFARI Petrol	06-	LP250H			
SAFARI 2.0TDi Diesel	06-	LP249H			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
TATA LCV					
GURKHA, LOADBETTA Diesel	06-	LP249H			
TALBOT – SIMCA					
Petrol					
160/180/2 LITRE 180, 2 Litre Petrol	71-80	LP049H			
ALPINE Petrol	75-85	LP049H			
AVENGER Petrol	73-81	LP038			
HORIZON Petrol	78-85	LP049H			
HUNTER Petrol	73-78	LP038			
MINX Petrol	69-73	LP038			
RANCHO Petrol	78-84	LP049H			
RAPIER Petrol	67-76	LP038			
SAMBA Petrol	82-86	LP048H			
SCEPTRE Petrol	67-72	LP038			
SOLARA Petrol	80-85	LP049H			
SUNBEAM Petrol	77-	LP038			
TAGORA Petrol	81-84	LP065			
Diesel					
HORIZON Diesel	82-85	LP096	LS100	LC096	LF096
TOYOTA					
Petrol					
AURIS 1.4, 1.6 Petrol	07-	LP027			
AVENSIS, VERSO Petrol	99-	LP075	LS075	LC075	
AVENSIS 2.0 Petrol	03-	LP100	LS100	LC096	
AYGO Petrol	05-	LP002L			
4-RUNNER Petrol	93-	LP069			
CAMRY Petrol	84-	LP005L			
CARINA E Petrol UK	92-	LP065			
CARINA E Petrol Japan	92-	LP005L			
CELICA Petrol	-83	LP068			
CELICA Petrol	84-	LP005L			
COROLLA Petrol	-83	LP068			
COROLLA Petrol	84-01	LP005L			
COROLLA E12 1.4, 1.6 Petrol	02-07	LP063	LS063	LC063	
COROLLA E12 1.8 Petrol	02-07	LP012			
COROLLA SALOON, 1.3, 1.6 Petrol	07-	LP012			
CORONA Petrol	73-81	LP068			
CRESSIDA Petrol	78-	LP068			
IQ 1.0 Petrol	09-	LP057			
IQ 1.33 Petrol	09-	LP027			
LANDCRUISER Petrol	75-	LP069			
LANDCRUISER Colorado Petrol	97-	LP249H			
LANDCRUISER Petrol	97-	LP250H			
MR2 Petrol	84-	LP004L			
MR2 Petrol	00-	LP048H			
PASEO Petrol	96-	LP005R			
PICNIC Petrol	96-	LP005L			
PREVIA Petrol	90-	LP068			
PRIUS 1.5 (starter battery)	00-	LP054			
RAV 4 Petrol	94-	LP057			
RAV 4 Petrol Auto	94-	LP055			
SPACE CRUISER Petrol	83-90	LP004R			
STARLET Petrol	78-82	LP005R			
STARLET Petrol	82-89	LP057			
STARLET Petrol	89-	LP004L			
SUPRA Petrol	86-	LP005L			
TERCEL Petrol	84-	LP005R			
URBAN CRUISER 1.3 Petrol	09-	LP027			
VERSO 1.3, 1.6, 1.8 Petrol	05-	LP027			
YARIS 1.0 Petrol	-00	LP057			
YARIS 1.3 (Japan manu) Petrol	-00	LP057			
YARIS 1.0, 1.3, 1.5 Petrol	00-	LP012			
Diesel					
AURIS 1.4,2.0, 2.4 Diesel	07-	LP096	LS100	LC096	LF096
4-RUNNER Diesel Turbo	93-	LP068			
AYGO 1.4Hdi Diesel	05-	LP012			
AVENSIS Diesel	98-	LP096			
CAMRY Diesel Turbo	84-88	LP249H			

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
TOYOTA CONTINUED					
CARINA Diesel, Diesel Turbo	84-	LP249H			
COROLLA Diesel	84-	LP249H			
COROLLA E12 2.0 Diesel	02-	LP249H			
CRESSIDA Diesel	81-82	LP249H			
IQ 1.4 Diesel	09-	LP069			
LANDCRUISER Diesel	79-86	LP250H			
LANDCRUISER Diesel Turbo	86-	LP250H			
LANDCRUISER Diesel Turbo	87-	LP249H			
PICNIC, PREVIA Diesel	96-	LP068			
RAV 4 Diesel	00-	LP249H			
URBAN CRUISER 1.4 Petrol	09-	LP096	LS100	LC096	LF096
YARIS, VERSO 1.4TDI Diesel	99-	LP005R			
YARIS, VERSO D-4D Diesel	05-	LP027			
TOYOTA LCV					
Petrol					
HI-ACE HI-LUX Petrol	81-	LP068			
LITE-ACE Petrol	-	LP054			
POWERVAN Petrol	-	LP068			
Diesel					
HI-ACE Diesel	82-	LP250H			
HI-LUX Diesel (single battery)	-	LP250H			
HI-LUX Diesel (dual battery)	-	LP068/069			
LITE-ACE Diesel	-	LP643			
POWERVAN Diesel	-	LP663			
TRIUMPH SEE ROVER					
TVR					
TUSCAN, TAMORA, TYPHEN	00-	LP096	LS100	LC096	LF096
CERBERA, CHIMAERA, GRIFFITH	96-	LP089			
SAGARIS	04-	LP075	LS075	LC075	
TAIMER	79-	LP015			
TASMIN	-80	LP015			
TASMIN, T350, T400, T440	80-92	LP069			
3.0 M	74-	LP015			
VAUXHALL					
Petrol					
AGILA Petrol	00-	LP063	LS063	LC063	
ANTARA 2.4, 3.2 Petrol	06-	LP096R			
ASTRA 1.3 Petrol	80-	LP063	LS063	LC063	
ASTRA 1.4, 1.6, 1.8, 2.0 Petrol	80-	LP063	LS063	LC063	
ASTRA 2.2 Petrol	03-	LP075	LS075	LC075	
BELMONT Petrol	86-91	LP063	LS063	LC063	
CALIBRA Petrol	90-	LP063	LS063	LC063	
CALIBRA 2.5 V6 Petrol	93-	LP075	LS075	LC075	
CARLTON Petrol	78-94	LP063	LS063	LC063	
CAVALIER 1.3 Petrol	77-88	LP063	LS063	LC063	
CAVALIER 1.4, 1.6, 1.8, 2.0, Petrol	75-94	LP063	LS063	LC063	
CAVALIER 2.5 Petrol	75-94	LP065			
CORSA Petrol	93-	LP063	LS063	LC063	
FRONTERA Petrol	91-	LP065			
INSIGNIA 1.4, 1.6 Petrol	08-	LP075	LS075	LC075	
INSIGNIA 1.8, 2.0 Petrol	08-	LP100	LS100	LC096	
MERIVA 1.6, 1.8 Petrol	03-	LP075	LS075	LC075	
MONARO 5.7, 6.0 Petrol	04-	LP017	LS019	LC017	LF017
MONTEREY Petrol	92-	LP005R			
NOVA 1.0, 1.2, 1.3 Petrol	83-93	LP063	LS063	LC063	
OMEGA 2.0 Petrol	94-	LP075	LS075	LC075	
OMEGA 2.2, 2.5, 3.0 Petrol	94-	LP096	LS100	LC096	LF096
SENATOR Petrol	84-93	LP065			
SIGNUM 2.0, 2.2 Petrol	03-	LP075	LS075	LC075	
SIGNUM 3.2 Petrol	03-	LP096	LS100	LC096	LF096
SINTRIA Petrol	-	LP75-550			
TIGRA Petrol	94-	LP063	LS063	LC063	
VECTRA Petrol	95-	LP063	LS063	LC063	
VECTRA 2.5 V6 Petrol	95-	LP065			
VECTRA 2.2 Petrol	01-	LP075	LS075	LC075	

APPLICATION LIST

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
VAUXHALL CONTINUED					
VX 220 Petrol	00-	LP065			
VXR8 Petrol	07-	LP100	LS100	LC096	
ZAFIRA Petrol	013-	LP075	LS075	LC075	
Diesel					
AGILA Diesel	06-	LP075	LS075	LC075	
ANTARA 2.0 CDTi, 2.2 Diesel	06-	LP068			
ARENA 1.9, 2.5 Diesel	97-	LP096	LS100	LC096	LF096
ASTRA Diesel, Diesel Turbo	82-	LP100	LS100	LC096	
BELMONT Diesel	86-91	LP096	LS100	LC096	LF096
CARLTON Diesel, Diesel Turbo	82-85	LP100	LS100	LC096	
CARLTON Diesel, Diesel Turbo	85-94	LP096	LS100	LC096	LF096
CAVALIER Diesel, Diesel Turbo	82-94	LP096	LS100	LC096	LF096
CORSA 1.2 Diesel, Diesel Turbo	93-	LP075	LS075	LC075	
CORSA 1.7 Diesel, Diesel Turbo	06-10	LP100	LS100	LC096	
FRONTERA Diesel Turbo	91-	LP096	LS100	LC096	LF096
INSIGNIA 2.0 Diesel	08-	LP096	LS100	LC096	LF096
MERIVA 1.7 Diesel	03-	LP100	LS100	LC096	
MONTEREY Diesel Turbo	92-	LP250H			
NOVA Diesel, Diesel Turbo	83-93	LP096	LS100	LC096	LF096
OMEGA Diesel Turbo	94-98	LP096	LS100	LC096	LF096
OMEGA Diesel Turbo	99-	LP017	LS019	LC017	LF017
SIGNUM 2.0, 2.2, 3.0 Diesel	03-	LP096	LS100	LC096	LF096
SIGNUM V6 Diesel	03-	LP017	LS019	LC017	LF017
TIGRA 1.3 Diesel	04-	LP100	LS100	LC096	
VECTRA Diesel Turbo	95-	LP096	LS100	LC096	LF096
VECTRA 3.0DTI Diesel	04	LP110			
ZAFIRA Diesel	99-	LP100	LS100	LC096	
VAUXHALL LCV					
Petrol					
ASTRA Petrol	-	LP063	LS063	LC063	
ASTRAMAX Petrol	-	LP063	LS063	LC063	
BRAVA Petrol	-	LP063	LS063	LC063	
CA Van Petrol	-	LP069			
CF 14, 18 Van Petrol	-	LP038			
CF 230, 250 Van Petrol	-	LP063	LS063	LC063	
CF 280, 350 Van Petrol	-	LP063	LS063	LC063	
COMBO - COMBOTOUR Petrol	-	LP063	LS063	LC063	
CORSA Petrol	-	LP063	LS063	LC063	
KB 26 Petrol	-	LP069			
KB 41 D Petrol	-	LP069			
MIDI Petrol Van	-	LP063	LS063	LC063	
MIDI Petrol	-	LP063	LS063	LC063	
NOVA Petrol	-	LP063	LS063	LC063	
RASCAL Petrol	-	LP038			
TL 214, 300 Petrol Tilt Cab	-	LP065			
VIVARO Petrol	-	LP096	LS100	LC096	LF096
Diesel					
ARENA 1.9, 2.5 Diesel	-	LP096	LS100	LC096	LF096
ASTRA Diesel	-	LP096	LS100	LC096	LF096
ASTRAMAX Diesel	-	LP096	LS100	LC096	LF096
BRAVA Diesel	-	LP250H			
CA Diesel Van	-	LP644			
CF Diesel Van	-	LP644			
COMBO - COMBOTOUR Diesel	-	LP096	LS100	LC096	LF096
CORSA Diesel	-	LP096	LS100	LC096	LF096
MOVANO Diesel	-	LP096	LS100	LC096	LF096
MIDI Diesel Van	-	LP069			
MIDI Diesel	-	LP069			
NOVA Diesel	-	LP096	LS100	LC096	LF096
VIVARO Diesel	-	LP017	LS019	LC017	LF017
VOLKSWAGEN					
Petrol					
BEETLE Petrol 6v	60-	LP404			
BEETLE Petrol 12v	60-	LP063	LS063	LC063	
BEETLE (NEW) Petrol	99-	LP065			
BEETLE CABRIOLET, MK2 Petrol	03-	LP096	LS100	LC096	LF096
BORA 1.4 Petrol	99-	LP063	LS063	LC063	

MODEL	YEAR	PREMIUM	SUPREME	CLASSIC	FUSION
VOLKSWAGEN CONTINUED					
BORA 1.6, 1.8, 2.0	99-	LP065			
BORA 2.3, V5, 2.8, V6 Petrol	99-	LP096	LS100	LC096	LF096
CORRADO V5, VR6 Petrol	89-	LP027			
DERBY Petrol	78-81	LP063	LS063	LC063	
EOS 1.6 Petrol	06-	LP012			
EOS 2.0 Petrol	06-	LP027			
EOS 3.2 Petrol	06-	LP096	LS100	LC096	LF096
FOX 1.2, 1.4 Petrol	05-	LP063	LS063	LC063	
GOLF 1.3, 1.4, Petrol	74-97	LP063	LS063	LC063	
GOLF 1.6, 1.8 GTi, 2.0 GTi Petrol	74-97	LP065			
GOLF VR6 Petrol	92-97	LP027			
GOLF 1.4, 1.6 Petrol	98-	LP063	LS063	LC063	
GOLF 1.8 Gti, 1.8T Gti Petrol	98-	LP065			
GOLF R32 3.2 Petrol	01-	LP110			
GOLF MK5 Petrol	04-	LP100	LS100	LC096	
GOLF MK 6 1.2, 1.4, 1.6 Petrol	08-	LP027			
JETTA Petrol	79-92	LP063	LS063	LC063	
JETTA III Petrol	05-	LP027			
KARMANN GHIA Petrol 6v	60-	LP404			
KARMANN GHIA Petrol 12v	60-	LP063	LS063	LC063	
PASSAT Petrol	85-97	LP065			
PASSAT VR6 Petrol	92-97	LP075	LS075	LC075	
PASSAT 1.6, Petrol	97-	LP063	LS063	LC063	
PASSAT 1.8T Petrol, VR6	97-	LP027			
PASSAT 2.0, 2.3, 2.8, 4.0 Petrol	97-	LP096	LS100	LC096	LF096
PASSAT CC 1.8, Petrol	08-	LP027			
PASSAT CC 2.0, 3.6 Petrol	08-	LP096	LS100	LC096	LF096
PHAETON 3.2, 6.0 Petrol	02-	LP017	LS019	LC017	LF096
LUPO Petrol	99-	LP063	LS063	LC063	
POLO Petrol	75-94	LP063	LS063	LC063	
POLO Petrol	94-	LP065			
POLO Petrol	02-	LP065			
POLO 1.2 Petrol	09-	LP012			
SANTANA Petrol	82-85	LP065			
SCIROCCO Petrol, Not GTi	74-	LP063	LS063	LC063	
SCIROCCO GTi Petrol	76-	LP065			
SCIROCCO 1.4 Petrol	08-	LP027			
SCIROCCO 2.0 Petrol	08-	LP096	LS100	LC096	LF096
SHARAN Petrol	95-00	LP065			
SHARAN 1.8 Petrol	00-	LP065			
SHARAN 2.0, 2.3 Petrol	00-	LP075	LS075	LC075	
SHARAN 2.8 V6 Petrol	00-	LP096	LS100	LC096	LF096
TIGUAN 1.4, 2.0, Petrol	07-	LP027			
TOURAN 1.4, 1.6, 2.0 Petrol	03-	LP027			
TOUAREG Petrol	02-	LP017	LS019	LC017	LF017
UP 1.0 Petrol	12-	LP002L			
VENTO Petrol	92-	LP065			
Diesel					
BEETLE 1.6, 1.9, 2.0 Diesel	03-	LP100	LS100	LC096	
BORA 1.9 Diesel	99-	LP110			
EOS 2.0TDi Diesel	06-	LP100	LS100	LC096	
FOX 1.4TDi Diesel	05-	LP027			
FOX 1.9 Diesel	03-	LP096	LS100	LC096	LF096
GOLF Diesel	78-97	LP100*	LS100	LC096	
GOLF Diesel Turbo	89-97	LP096	LS100	LC096	LF096
GOLF Diesel Turbo	98-	LP096	LS100	LC096	LF096
GOLF MK 6 Diesel	08-	LP110			
JETTA Diesel, Diesel Turbo	81-92	LP100*	LS100	LC096	
JETTA III Diesel	05-	LP096	LS100	LC096	LF096
LOOPE Diesel	-	LP075	LS075	LC075	
PASSAT Diesel Turbo	85-97	LP100*	LS100	LC096	
PASSAT 1.6, 1.9, 2.5, Diesel Turbo	97-	LP096	LS100	LC096	LF096
PASSAT CC 2.0 Diesel	08-	LP096	LS100	LC096	LF096
POLO Diesel	91-	LP075	LS075	LC075	
POLO 1.2, Diesel	09-	LP027			
POLO 1.6 Diesel	09-	LP096	LS100	LC096	LF096
SANTANA Diesel	82-85	LP100*	LS100	LC096	
SCIROCCO 2.0 Diesel	08-	LP096	LS100	LC096	LF096
SHARAN Diesel Turbo	95-	LP017	LS019	LC017	LF017

MODEL	LUCAS TYPE	ALTERNATIVE LUCAS TYPE
BEDFORD ALSO SEE BEDFORD LCV		
TJ220, TJ330, TJ381, TJ446, TJ500	LP644	LP664
TJ5706, TJ1000	LP643 x 2	LP663 x 2
TK220, TK381, TK466, TK381,	LP644 x 2	LP664 x 2
TK466, TK500	LP644 x 2	LP664 x 2
TK750, TK860	LP644 x 2	LP664 x 2
TK1000	LP655	
TK1020	LP644 x 2	LP664 x 2
TK1260 (5.4L)	LP655	
TK1260 (8.2L), TK 1470, TK1500,	LP644 x 2	LP664 x 2
TK1600, TK1630	LP644 x 2	LP664 x 2
TL500, TL570, TL718, TL750	LP644 x 2	LP664 x 2
TL814, TL860, TL1000,	LP655	
TL1020, TL1260, TL1470, TL1500,	LP644 x 2	LP664 x 2
TL1600	LP644 x 2	LP664 x 2
TL1630 (5.4L)	LP655	
TL1630 (8.2L)	LP644 x 2	LP664 x 2
TL1930, TL2400	LP655	
TL2440, TL2800, TL3200,	LP655 x 2	
TM6V71, TM6V81, TM8V71	LP655	
TM500	LP644 x 2	LP664 x 2
TM500 HD	LP655 x 2	
TM1700, TM2600, TM2800,	LP655 x 2	
TM3200, TM3250	LP655 x 2	
TM 3650, TM3800, TM4200,	LP655 x 2	
TM4400	LP655 x 2	
YNV	LP643 x 2	LP663 x 2
DAEWOO		
D75 Avia 3.9	LP017 x 2	LP019 x 2
DAF ALSO SEE LEYLAND DAF OR LDV		
400	LP069	LP072T
500	LP625	LP632
600	LP663 x 2	LP665 x 2
700	LP625	LP632
800	LP663 x 2	LP665 x 2
900	LP637 x 2	LP612 x 2
1000	LP663 x 2	LP643 x 2
1100	LP637 x 2	LP612 x 2
1200, 1300, 1305, 1400*, 1500*	LP629 x 2	LP629UR x 2
1600	LP637 x 2	LP612 x 2
1605*	LP629 x 2	LP629UR x 2
1700,1800, 1900, 1902*	LP629 x 2	LP629UR x 2
2000, 2005, 2100, 2103, 2105*	LP629 x 2	LP629UR x 2
2200, 2205, 2300, 2305, 2307,	LP629 x 2	LP629UR x 2
2400*	LP629 x 2	LP629UR x 2
2500, 2503, 2505, 2507, 2525,	LP629 x 2	LP629UR x 2
2535	LP629 x 2	LP629UR x 2
2600, 2605*, 2700, 2800, 2900,	LP629 x 2	LP629UR x 2
3200	LP629 x 2	LP629UR x 2
2805, 2826, 3000, 3300, 3303,	LP625 x 2	LP632 x 2
3305	LP625 x 2	LP632 x 2
3325, 3326	LP625 x 2	LP632 x 2
DH2100	LP612 x 2	LP637 x 2
FT2100, FT2500	LP629 x 2	LP629UR x 2
2800Aii	LP612 x 2	LP637 x 2
2800Aii	LP637 x 2	LP612 x 2
3200, 3600	LP629 x 2	LP629UR x 2
3600Aii	LP625 x 2	LP632 x 2
45, 50, 55, 60, Series	LP663 x 2	LP665 x 2
65, 75, 80, 85, 95 Series	LP629 x 2	LP629UR x 2
DK, DL	LP629 x 2	LP629UR x 2
DF, DH, DT, DTD, DU, DSD	LP643 x 2	LP663 x 2
DKA, DKD, DO, DP	LP629 x 2	LP629UR x 2
F/FA, 1000, 1100-1800	LP629 x 2	LP629UR x 2
F/FD/FT 1900-2800	LP629 x 2	LP629UR x 2
F/FA/FD 2900-3600	LP625 x 2	LP632 x 2
LF Range, CF Range	LP629 x 2	LP629UR x 2
MB Series, N2800, N3000	LP625 x 2	LP632 x 2

MODEL	LUCAS TYPE	ALTERNATIVE LUCAS TYPE
DAF ALSO SEE LEYLAND DAF OR LDV CONTINUED		
SB and SP Series, XF Series	LP625 x 2	LP632 x 2
Series 45, 50, 60	LP663 x 2	LP643 x 2
VH400BN	LP096 x 2	LP100 x 2
DAIHATSU		
Delta Bus	LP096	LP100
DENNIS INC ALEXANDER DENNIS		
T6-18, Dagger	LP655 x 2	
Dart, Delta Range	LP663 x 2	
Dominant	LP655 x 2	
Elite range	LP663	
Enviro 200, 300	LP629 x 2	LP629UR x 2
Enviro 400, 500	LP624 x 2	
Javelin	LP629 x 2	LP629UR x 2
Maxim	LP655 x 2	
Mercury, Pax V	LP655	
Pax, Paxit	LP655 x 2	
R Series	LP624 x 2	
EBRO		
T00/8D, L Series	LP017	LP019
F Series, F260, F275, Trade 2.0, 2.8	LP096	LP100
E.R.F		
C Series	LP656 x 2	LP656 x 2
CP Series	LP656	
E Series,	LP629 x 2	LP629UR x 2
EC Series ECL, ECM, ECT, ECX	LP629 x 2	LP629UR x 2
M16 Range	LP069 x 2	LP072T x 2
NGC 380, 420	LP624	
Trailblazer 32G46, 36RZ	LP656	
FIAT		
Daily 28F8, 30F8, 32F8, 35F8	LP620 x 2	
40F8	LP620 x 2	
NC, NR, NT, PAC Models, 159.17	LP637 x 2	LP612 x 2
N, P, TP, T Models, 170.35	LP620 x 2	
FODEN		
A2, A3 Range	LP629 x 2	LP629UR x 2
Fleetmaster	LP656 x 2	LP656 x 2
Haulmaster, S38, S104, 106, 108	LP644 x 2	LP664 x 2
Tiltcab (Gardner Engine)	LP664 x 2	
Tiltcab (Rolls-Royce Engine)	LP656 x 2	LP656 x 2
2000, 3000, 4000 Series	LP656 x 2	LP656 x 2
HINO		
FD, FE, FF	LP623 x 2	
FH, FS, FY	LP629 x 2	LP629UR x 2
FYIK	LP623 x 2	
GD	LP069 x 2	LP072T x 2
HE	LP622 x 2	LP629 x 2
HB KY	LP637 x 2	LP612 x 2
KB, LA	LP623 x 2	
Fleetmaster	LP656 x 2	LP656 x 2
KL, KLR, KM, KR	LP664 x 2	
KY, ZM	LP629 x 2	LP629UR x 2
LA, LB	LP069 x 2	LP072T x 2
SH	LP623 x 2	
IKARUS		
IKARUS	LP629 x 2	LP629UR x 2
IRISBUS		
IRISBUS	LP625 x 2	LP632 x 2
ISUZU		
NKR, NPR, NPT, NQR	LP069 x 2	LP089 x 2

MODEL	LUCAS TYPE	ALTERNATIVE LUCAS TYPE
IVECO		
Cargo		
65E15, 75E, 80E, 100E, 120E, 130E, 150E	LP637 x 2	LP612 x 2
180E, 260E	LP637 x 2 or LP629 x 2	LP612 x 2 or LP629 x 2
Tector		
65E, 75E, 80E, 100E, 120E, 130E, 150E, 180E, 260E	LP663FL x 2	
New Cargo Tractor Units		
320E27T	LP637 x 2 or LP629 x 2	LP612 x 2 or LP629 x 2
Euro Cargo 7.5 tonne	LP663FL x 2	
Super Cargo		
170E*, 260E*	LP663FL x 2 or LP629 x 2	LP663FL x 2 or LP629UR x 2
New Turbo Daily		
35.10, 35.12, 45.10, 45.12, 49.10, 49.12, 59.12	LP017	LP019
29L9 up to Oct 2004	LP663	LP643
2919 after Nov 2004	LP663H	
35S12 up to Oct 2004	LP663	LP643
35S12 after Nov 2004	LP663H	
45C14 up to Oct 2004	LP663	LP643
45C14 after Nov 2004	LP663H	
65C17 up to Oct 2004	LP663	LP643
65C17 after Nov 2004	LP663H	
Eurotech MH, MP, MT	LP629 x 2	LP625 x 2
190E24 - 440E35, 180E24 - 400E30	LP629 x 2	LP625 x 2
Eurotracker		
MP320E34, MP320E34H, MP320E37	LP629 x 2	LP629UR x 2
Eurostar		
LD 190E38 to 440E35	LP629 x 2	625 x 2
400E52, 440E30, 440E38, 440E42, 440E52	LP629 x 2 or LP625 x 2	LP629UR x 2 or LP632 x 2
Stralis		
Complete Range	LP629 x 2 or LP625 x 2	LP629UR x 2 or LP632 x 2
Trakker and Euro Trakker	LP625 x 2	LP632 x 2
LEYLAND DAF ALSO SEE DAF, LDV & CAR LCV		
Bear	LP644	LP664
Bison BN	LP644 x 2	LP664 x 2
Bison 2	LP656 x 2	LP656 x 2
Convoy	LP075 x 2	LP027 x 2
Cruiser (T45)	LP655 x 2	
BX, Constructor, EV Van	LP655	
Eland	LP644 x 2	LP664 x 2
FG, FM (2.2 & 2.5L)	LP643	LP663
FG, FM (3.8, 4.8, & 5.1L)	LP655	
Landmaster T68	LP655	
Landtrain (T43)	LP655	
Lynx	LP644 x 2	LP664 x 2
Marthon, 2	LP656 x 2	LP656 x 2
Maxus to 2007	LP096	LP100
Maxus after 2007	LP110	LP096
Medium Line Range		
FA (S)2300 HT	LP629 x 2	LP629UR x 2
FT 2300 HT, FA (S)2700HS, FT 2700HS	LP629 x 2	LP629UR x 2
FT 3200 KS	LP629 x 2	LP629UR x 2
Roadrunner	LP663 x 2	LP665 x 2
Series 45 Range	LP643 x 2	LP663 x 2
Series 50, 55 Ranges	LP643 x 2	LP663 x 2
Series 60 Range	LP663 x 2	LP665 x 2
Series 65 Range	LP637 x 2	LP612 x 2

MODEL	LUCAS TYPE	ALTERNATIVE LUCAS TYPE
LEYLAND DAF ALSO SEE DAF, LDV & CAR LCV CONTINUED		
FA 65.210	LP637 x 2	LP612 x 2
Series 75 and 80 Range	LP655 x 2	
Series 85 Range	LP637 x 2	LP612 x 2
Series 95 Range	LP629 x 2	LP629UR x 2
T 45 Roadtrain Range	LP655 x 2	
MAGIRUS DEUTZ		
PLEASE NOTE: ORIGINAL EQUIPMENT MAY BE 1 OR 2 BATTERIES*		
E113	LP637 x 2	LP612 x 2
L 117, L120, 260	LP630 x 2	
R 80	LP017 x 2	LP019 x 2
R 100, R120	LP630 x 2	
SH 105, SH110	LP625 x 2	LP632 x 2
T 117, TL120, TR100	LP630 x 2	
75D, 80D	LP629 x 2	LP629UR x 2
90D*	LP017 x 2	LP019 x 2
90M 5.3*	LP630 x 2	
90M 5.7 - 9.0*	LP017 x 2	LP019 x 2
100D, 120D*	LP644 x 2	LP664 x 2
130D, 130M 8, 130M 9-14*	LP644 x 2	LP664 x 2
135D	LP637 x 2	LP612 x 2
160D, 168M	LP644 x 2	LP664 x 2
170D, 192M	LP637 x 2	LP612 x 2
232D, 256D, 270D, 290M, 310D, 320M, 340D*	LP629 x 2	LP629UR x 2
MAN		
OE FITMENT DIFFERS DEPENDING ON APPLICATION*		
EL262	LP632 x 2	LP625 x 2
EM222, 223	LP629 x 2	LP629UR x 2
F2000 - 18.373FLT 18-403FLT, FVLT	LP629 x 2	LP629UR x 2
L2000 - 8.153F, FK, 10.153FFK	LP629 x 2	LP629UR x 2
Lion Coach, Comfort Star	LP632 x 2	LP625 x 2
M2000, M90, NG, NL, NM, NU, SU	LP629 x 2	LP629UR x 2
SD, SG, SL, SM, SR, SU	LP629 x 2	LP629UR x 2
TGA, TGM, TGS, TGX	LP629 x 2	LP629UR x 2
TG-A, UL, LE280B	LP629 x 2	LP629UR x 2
6.100F, 6.115H	LP644 x 2	LP664 x 2
6.126H, 26H 7.1	LP629 x 2	LP629UR x 2
8.150F	LP637 x 2	LP612 x 2
8.136, 8163	LP017 x 2	LP019 x 2
10.150F	LP629 x 2	LP629UR x 2
16.168FL	LP629 x 2	LP629UR x 2
16.170	LP637 x 2	LP612 x 2
16.232FT, FTN, FTS	LP630 x 2	
16.240FT, FTN, FTS	LP629 x 2	LP629UR x 2
16.280FTN, FTS	LP629 x 2	LP629UR x 2
16.281, 16.321, 16.321SR	LP629 x 2	LP629UR x 2
16.331FTS	LP629 x 2	LP629UR x 2
17.170F	LP637 x 2	LP612 x 2
17.192 F, FD, FK	LP629 x 2	LP629UR x 2
17.232FD, FT	LP630 x 2	
17.272FD, FT	LP637 x 2	LP612 x 2
17.292FTS	LP629 x 2	LP629UR x 2
17.322FT, FTS	LP637 x 2	LP612 x 2
17.332, 18.224, 18.422	LP629 x 2	LP629UR x 2
19.321, 19.422	LP629 x 2	LP629UR x 2
20.331, 22.292, 22.321, 22.322, 22.332, 22.361 FVLTS	LP629 x 2	LP629UR x 2
22.362, 22.372, 25.422, 26.422 FVLTS	LP629 x 2	LP629UR x 2
30.232DHK, VFK	LP630 x 2	
30.240	LP629 x 2	LP629UR x 2
30.262, 30.291, 30.292, 30.332	LP629 x 2	LP629UR x 2
32.232	LP637 x 2	LP612 x 2
32.322	LP637 x 2	LP612 x 2

MODEL	LUCAS TYPE	ALTERNATIVE LUCAS TYPE
A J POWER		
13-110KVA	LP017	LP019
130-550 KVA	LP630	
715-3000KVA	LP624	
AVELING/BARFORD		
Dumpers		
HDX750, HDX1000	LP250H	LP250H
SKR9, SK10, SK10R	LP31-1000	
SL2, SL3 (Cummins) & up to Model	LP623	
SW3/557	LP623	
SL2, SL3 after Model SW3/557	LP655	
SRT (Standard Leyland Engine)	LP644	LP664
SXR3, SX2000, SX3000, SX(R)3000H, 3500H	LP250H	LP250H
SX(R)5000, 6000, 7000, 8000, 9000	LP31-1000	
BELARUS		
50S	LP655	
BX Range, DT20, 500, 800, 1000,	LP017	LP019
DZ133, 820, 525	LP663	LP663H
LT2-T40, LT2-T40K	LP620	LP629
MTZ80, 82	LP017	LP019
T150, T250	LP069	LP072T
BENFORD		
MA 2000 Forklift	LP664	
TT50, TT2000 Dumpers	LP069	LP072T
BOMAG (KOEHRING)		
BW101A, BW100AD, BW120AD	LP017	LP019
BW160	LP637	LP612
K351, K451, K3008	LP629	LP629UR
BRISTOL		
Tractors		
"22" (Perkins P3), (D) 25-D52, 25-D30	LP069	LP072T
"20" (2 Litre Engine), "22"	LP069	LP072T
(Austin 2 Litre Engine), "25" (P)	LP069	LP072T
"25" (Perkins P3) (D) and D Series,	LP069	LP072T
Agricultural	LP069	LP072T
Angledozer, Duplex, Europa,	LP069	LP072T
Agricultural & PD Series	LP069	LP072T
PD Series	LP069	LP072T
Taurus BS404/5, Taurus MKII	LP663	LP665
BROOM & WADE		
Compressors		
SV78, SV128 (Ford Engine)	LP069	LP072T
WR85, WR100	LP664	
WR85, WR120 (Ford Engine) (P)	LP069	LP072T
(or Petters Engine) (D)	LP069	LP072T
WR125, WR160 (Perkins or Ford Engines)	LP664	
WR120, WR250 (Leyland Engine) (D)	LP069	LP072T
WR315, WR380 (Leyland Engine) (D)	LP664	
CASE (INTERNATIONAL HARVESTER)		
1246	LP629	LP629UR
1394, 1494, 1594, 1600, 1694, 1700, 1800	LP656	
1830, 1845	LP664	LP644
275, 276	LP656	
2670	LP656	
354, 444, 454, 500, 574,	LP664	LP644
450	LP629	LP629UR
414, 4494, 4894, 580, 590, 634, 674, 684, 685	LP656	
485XL, 585XL, 685XL, 785XL, 855XL, 885XL	LP664	LP644
745, 844, 844XL, 856	LP637	LP612
770-780, 784	LP656	
880, 885, 895, Selectamatic	LP663	LP643
955, 956, 1055, 1056	LP630	
970, 985, 990, 995, 996, 1150, 1200, 1210, 1212	LP663	LP665

MODEL	LUCAS TYPE	ALTERNATIVE LUCAS TYPE
CASE (INTERNATIONAL HARVESTER) CONTINUED		
B22758TD8, 125B, 6334, 3400, 3500	LP656	
B276, B5, B85, BH25, BH85, H25B, BUD154	LP664	LP644
Hydra 84	LP655	
Excavators		
JD34, 44, 45, 54	LP629	LP629UR
JD35	LP629	LP629UR
JD440B, JD540A, 544, 544A, 644A	LP664	LP644
JD544B, 644B, 670, 770, 772A	LP622	LP629
JD750, 850	LP629	LP629UR
PC40, PC610, PC180, PC200, PC230, PC290	LP664	LP644
PC160NLC-7, PC180NLC-6	LP656	
PC95, PC110, PC340, PC380, PC450-7	LP623	
PW130, PW150, PW170-6, PW220/220-7K	LP664	LP644
PW95, PW110, T325, T326, T340, M325	LP623	
Forage Harvesters		
6900, 7400, 7800	LP630	
1000 Series		
1100, 1190, 1194, 1290, 1294, 1390, 1394	LP656	
1180, 1255XL, 1455XL	LP629	LP629UR
1270, 1370,	LP664	LP644
1280, 1380, 1580, 1880,	LP629	LP629UR
1490, 1494, 1594, 1690, 1694	LP656	
200 Series		
205, 255	LP656	
230	LP663	LP665
2000 Series		
2090, 2094, 2290, 2294, 2390, 2670	LP664	LP644
300 Series		
305, 355, 455, 555	LP656	
3000 Series		
3210, 3220, 3230	LP656	
400 Series		
415, 415M, 495XL	LP656	
440-8, 480-8	LP620	
466, 480/8	LP637	LP612
485XL	LP664	LP644
4000 Series		
4210, 4220, 4230, 4240, 4494, 4694, 4894	LP656	
4566	LP629	LP629UR
4890	LP664	LP644
500 Series		
502, 504, 512, 585XL	LP656	
505	LP620	
566	LP637	LP612
590	LP629	LP629UR
595 Super	LP655	
595xl	LP656	
5000 Series		
5120, 5130, 5140, 5150	LP664	LP644
5566, 6090	LP629	LP629UR
600 Series		
600, 602, 604, 695XL	LP656	
605, 650, 655, 755, 855	LP620	
640, 680	LP629	LP629UR
685XL	LP664	LP644
6000 Series		
6000, 6100, 6200, 6300, 6400, 6600, 6800, 6900	LP620	
6250, 6350, 6550, 6650, 6850	LP629	LP629UR
620Hi-6850Hi, 8050i-8950i, 6400A, 6600A	LP620	
700 Series		
700, 702, 703, 710, 712, 742, 755	LP656	
705, 715M	LP620	
780	LP629	LP629UR
800 Series		
800, 865, 895XL	LP656	
850	LP632	LP625
855	LP620	
8000 Series		
8000, 8050, 8100, 8150, 8200, 8350, 8400,	LP629	LP629UR

MODEL	LUCAS TYPE	ALTERNATIVE LUCAS TYPE
CASE (INTERNATIONAL HARVESTER) CONTINUED		
8450-8950	LP629	LP629UR
900 Series		
900, 945	LP656	
916, 918	LP664	LP644
Magnum		
MX180, 200, 220, 240, 270	LP664	LP644
Maxxum		
5120, 5130, 5140, 5150	LP664	LP644
MX100, 110, 120, 135, 150, 170	LP664	LP644
MXM120, 130, 140, 155, 175, 190	LP629	LP629UR
MXU100, 110, 115, 125, 135	LP663	LP663H
Mega		
8300, 8600	LP663	LP665
8400	LP620	
Mezzo		
6100, 6200, 6300, 6400, 6600, 6800, 8000, 8100	LP620	
Puma		
140, 155, 165, 180, 190, 195, 210,	LP629	LP629UR
Quantum		
65C, 75C, 95C, C	LP017	LP019
STX		
Quadtrac 385, 430, 485, 535	LP637	LP612
Tractor		
180-90, 60-94, 65-94, 72-94	LP629	LP629UR
95, 105, 115, X100, X110, X120, C10-4	LP620	
CS48, 52, 58, 63, 68, 75, 78, 85, 86, 94	LP017	LP019
CS100, 110, 130, 150	LP629	LP629UR
CVX120, 130, 140, 150, 160, 170,	LP629	LP629UR
MXM120-190, CS110	LP629	LP629UR
CX50-100	LP656	
G170, G190, G210, G240	LP663	LP663H
H800, H810, G15M4, 815M	LP620	
JX55, 60, 65, 70, 75, 80, 85, 90, 95	LP017	LP019
JX80U, JX90U	LP017	LP019
S230, S260, T120, T130, T140, T160, T170, T180	LP620	
Terra Trak 800	LP623	
TS 90, 100, 110	LP663	LP665
Uni Loader 1816, 1830, 1845	LP664	LP644
X100, 110, 120	LP620	
Skid Steer		
Range	LP017	LP019
Tractor/Excavator		
471, 474, LP580F,	LP655	
6000	LP629	LP629UR
8000, 9000, 800T, 900T	LP664	LP644
Wheel Loaders		
1240,	LP655	
1529, 580L	LP663	LP665
1816, 1830, 1845, 345B, 545B, 605B	LP664	LP644
345, 545, 605	LP623	
400, 4200B, 4300B, 50, 70, 90	LP663	LP665
413, 415, 417, 418, 420	LP655	
4500B	LP637	LP612
621, 622, 641, 642, 654	LP663	LP665
645, 645B, 745, 745C, 945B	LP623	
807B	LP655	
821B, 841, 845, 846	LP663	LP665
FL11	LP629	LP629UR
FR7, 10, 12, 20	LP663	LP665
FR9, 15	LP623	
L120, 150, 160, 180	LP637	LP612
L180E, 220D, 220E	LP629	LP629UR
L30, 50, 70, 90	LP663	LP665
L330C	LP664	LP644
L50B/C/D, 70B/C/D, 90B/C/D	LP663	LP665
W24, W24B, W24E, W26B	LP629	LP629UR
W7E, W9B, W9E, W14, W20B	LP664	LP644

MODEL	LUCAS TYPE	ALTERNATIVE LUCAS TYPE
CATERPILLAR		
Construction Series		
3408T/TA	LP629	LP629UR
4610, 4620,	LP664	
AH40, 50, 60, AM25, 30, 36, 60, B15-18, B20-25	LP629	LP629UR
Graders		
18, 24YD, 619, 621, 623, 627, 637, 641	LP623	
Tractors		
245, 311, 312, 320, 325, 330	LP629	LP629UR
501D, 501PD, 502D, 502S, 590	LP664	
540D, 600D, 670D, 680-PD	LP623	
601PD	LP664	LP644
613c, 615c	LP629	LP629UR
641, 651, 660, 75A, 210, 175A, 280, CKL340	LP623	
769, 773, 777	LP629	LP629UR
951, 954	LP637	LP612
BHF16-BHF20	LP629	LP629UR
D4D, D6C	LP637	LP612
769, DW10, EST, L200,	LP629	LP629UR
T30B, T35B, T40B, T45B, T50, T55B, T60B,	LP664	LP644
V30-V80	LP664	LP644
V100-V180	LP629	LP629UR
Wheel Scraper 630, 631, 261, 619, 633, 662	LP629	LP629UR
CHALLENGER		
Combines		
640, 642, 643, 644, 645, 646, 648	LP623	
650	LP630	
652	LP623	
654, 658	LP629	LP629UR
CLARK EQUIPMENT		
Industrial Forklift Trucks		
Bobcat 310, 313, 530, 533, 540, 543	LP069	LP072T
Bobcat 610, 630, 632, 730, 732	LP069	LP072T
Bobcat 825	LP664	LP644
Bobcat 843 until 1984	LP069	LP072T
C500, 30/55, C500 Yardlift, 40/50/55,	LP069	LP072T
C500 Yardlift 60/70/80	LP069	LP072T
Tractors, Earthmovers etc		
T65 Dump Truck (GM or Cummins Engines)	LP663	LP665
55, 55AWS (Leyland Engine)	LP663	LP665
55, 65A, 65AWS, 65R (Perkins Engine)	LP624	
65A, 65AWS, 65R (Leyland Engine)	LP663	LP665
65R (Cummins Engine)	LP663	LP665
75 (GM or Perkins Engines) 85 (GM Engine)	LP624	
75 (Leyland or DAF Engines)	LP663	LP665
75 Art (Perkins, Leyland, Volvo Engines)	LP655	
85 (Leyland or DAF Engines)	LP663	LP665
85 Art (GM or Leyland Engines) 110HT Scraper	LP623	
125, 125ART (GM or Leyland Engines)	LP623	
125-S, 175 (GM or Cummins Engines)	LP623	
175 (Rolls-Royce Engine)	LP655	
175 Art (GM or Cummins Engines)	LP629	LP629UR
180 TD (GM or Cummins Engines)	LP623	
275, 275ART,	LP629	LP629UR
280TD (GM or Cummins Engines)	LP629	LP629UR
512, 520, 521 Van Carrier	LP629	LP629UR
CLAAS		
Ares 546, 547, 556, 557, 566, 567, 577	LP663	LP663H
Ares 616, 617, 656, 657, 696, 697	LP629	LP629UR
Arion, Atlas, Axion Ranges	LP629	LP629UR
Comet (Mercedes), Commandor	LP629	LP629UR
Dominator 56	LP017	LP019
Dominator 76, 85, 85H & 96	LP630	
Dominator 105, 106	LP629	LP629UR
Europa D, Gigant, Matador, Mercur	LP637	LP612
Jaguar 840	LP633	
Jaguar 690, 695, 840, 860, 880	LP637	LP612

MODEL	LUCAS TYPE	ALTERNATIVE LUCAS TYPE
CLAAS CONTINUED		
Jaguar 870, 890, 900, 950, 960, 980	LP625	LP632
Lexion 480	LP629	LP629UR
Nectis Range	LP249H	LP249H
Senator 60, Compact 25 & 30	LP017	LP019
Senator 70 & 85	LP630	
SP Combine	LP663	LP663H
SFB, SFM	LP637	LP612
Xerion Range	LP017	LP019
COVENTRY CLIMAX		
Forklift Trucks		
BL Bulk Loader, CD, FPC, FP Fire Pump,	LP069	LP072T
FT, Skygrove, FTD, FTF	LP069	LP072T
DA, DC, DQ, GC, GA, PA	LP655	
Engines CD2 & CD4	LP069	LP072T
FTX, 1GD, 1GP	LP069	LP072T
TF, TW Fire Pumps (Electric Start)	LP038	LP015
TMD, TSM, TSM D	LP069	LP072T
UTF & UTF Skyzone with 3 Cyl Engine	LP069	LP072T
Z S Climax, 1GD (P), 1GD (D)	LP069	LP072T
1GP, 1GPA, 1GPF, 1GPFA, 1GPV, 1GPVA	LP069	LP072T
40DA, 50DA, 40PA, 50LPG, 100DA,	LP663	LP665
100LPG, 120DA, 150DA	LP663	LP665
DEUTZ FAHR		
Agrocompact Range	LP017	LP019
Agrofarm Range	LP630	
Agrolux Range	LP017	LP019
Agroplus	LP017	LP019
Agroprima	LP637	LP612
Agrostar	LP630	
Agrosun	LP630	
Agrotrac	LP637	LP612
Agrotron Mk 2, Mk 3	LP637	LP612
Agrotron Mk 4, Mk 5	LP629	LP629UR
Agroxta	LP637	LP612
D Series		
D7206, 7207, 7806C, 7807C, 8006A, D25,	LP637	LP612
30, 270	LP637	LP612
D7506, 7807, 8005, 8006, 9005, 9006	LP629	LP629UR
DX Series		
DX100, 140, 145, 160,	LP629	LP629UR
DX110, 120, 130, 230, 230A, 250	LP612	LP637
DX3.60, 3.65, 3.70, 3.90, 4.07, 4.10, 4.17	LP612	LP637
DX4.20, 4.30, 4.31, 4.50, 4.51, 4.56, 4.57,	LP612	LP637
4.70, 4.90	LP612	LP637
DX4.71	LP629	LP629UR
DX50, DX6.05, 6.07, 6.10, 6.16, 6.17, 6.30, 6.70	LP612	LP637
DX6.11, 6.21, 6.31, 6.50, 6.61, 6.81, 7.10	LP629	LP629UR
DX75, DX8.30	LP630	
DX80, 85, 85V, 86, 90, 92	LP612	LP637
M Series	LP612	LP637
Tractors		
10006, 13006, 4006, 4007, 4506, 5006, 6006	LP629	LP629UR
3.30, 3.50, 3.65, 3.90, 4.70	LP612	LP637
6.50, 7.10, 5207	LP612	LP637
600s, 900s, 6206, 7006, 7206, 9006	LP629	LP629UR
7207C, 7807C	LP612	LP637
DX360, 390, 470, 417, 471, 451	LP612	LP637
1300, 1320, 1322, 1600, 1620, 1630	LP612	LP637
16006, 5005, 7506, 8005, 9005,	LP629	LP629UR
2580, 2680, 22685, 2780,	LP612	LP637
3.30, 3.50, 3.70, 3.90	LP612	LP637
3330, 3360, 3480, 3570, 3578, 3580, 3610,	LP612	LP637
3630, 3640	LP612	LP637
4005, 4056, 4060, 4065, 4070, 4075, 4080, 4090	LP612	LP637
5506, 6005, 6206, 6207, 6507, 6806, 6807	LP612	LP637
7007, 7206, 7207, 7807	LP612	LP637

MODEL	LUCAS TYPE	ALTERNATIVE LUCAS TYPE
DOOSAN		
DL160 to DL250	LP31-1000	
DL300 to DL500	LP623	
DX15, DX18	LP005L	LP068
DX27 to DX35	LP249H	LP249H
DX55 to DX255	LP31-1000	
DX300 to DX520	LP623	
SOLAR15 to SOLAR75	LP249H	LP249H
SOLAR130 to SOLAR 255	LP31-1000	
SOLAR290 to SOLAR500	LP623	
FENDT		
162, 168, 178, 186, 192,	LP637	LP612
25GT, 275, 390, 395,	LP637	LP612
231GT, 250, 255, 255KGT	LP620	
303-309	LP630	
600LS, 610LS, 611LS, 612LS, 614LS, 615LS	LP629	LP629UR
TS60, TS80, Xylon 320	LP637	LP612
Xylon 520, 522, 524	LP096	LP100
Farmer 104, 105, 106, 108, 201, 203, 231, 250	LP637	LP612
Farmer 162, 168, 178, 186, 192, 198	LP630	
Farmer 200	LP620	
Farmer 204, 205	LP630	
Farmer 275, 305, 308, 309, 310, 311, 312,	LP637	LP612
360, 380, 395	LP637	LP612
Favorit 310, 600, 610, 611, 612, 614, 615,	LP629	LP629UR
622, 626	LP629	LP629UR
Vario 300, 900 Series	LP017	LP019
Vario 700, 800, 900 Series	LP629	LP629UR
FIAT		
100 Series	LP637	LP612
400 Series	LP637	LP612
500 Series	LP630	
60 Series, 70 Series, 80 Series, 90 Series	LP637	LP612
FORD		
1710, 1910 Compacts	LP089	LP069
2610, 3610, 3910, 4110, 5610,	LP622	
6610, 6710	LP622	
7610, 7710, 7910, 8210	LP622	
Dexta 6x3 2000	LP250H	LP250H
Dexta 6x4 3000	LP250H	LP250H
Dexta 3000, 3600,	LP622	
Force 5000, 7000, 8000, 8600, 9600	LP622	
FW60 to 1986	LP663	LP665
Major	LP069	LP072T
Major 4000 (D)	LP622	
Major 4000 (P)	LP017	LP019
New Major (Rowcrop Commercial)	LP069	LP072T
Power Major (P)	LP069	LP072T
Super Major 5000, 7000, 8000	LP622	
2000, 3000, 2600, 3600	LP017	LP019
3055	LP622	
4100, 4600, 5600, 6500, 6600, 6700,	LP622	
7600, 7700, 8100, 8600, 8700, 9000	LP622	
9600, 9700	LP622	
TW10, TW20, TW30, TW5, TW15,	LP622	
TW25, TW35	LP622	
550, 555	LP622	
GENIE LIFTS		
AWP36	LP643	LP663
Diesel 45ft Boom	LP663	LP665
Diesel 80 ft Boom	LPUS31TMX	
1930, 1932, 2632,	LPUS2200	
2668RT	LPYTR4.2	
GR15, 3246, GS2646, MB	LPUS2200	

MODEL	LUCAS TYPE	ALTERNATIVE LUCAS TYPE
HANOMAG		
320, Brilliant 600, 700, R430	LP637	LP612
400C	LP663	LP665
44C	LP630	
6400	LP629	LP629UR
K7, K7B, K8, K10, K11, K60, K90E, K320, K565	LP629	LP629UR
Robust 800, 900	LP629	LP629UR
HITACHI		
EX300	LP629	LP629UR
EX603	LP616L	
EX081, 083, 103, 143, 200, 220, 300, 400	LP637	LP612
EX100WD, 160WD	LP664	LP644
EX121, 171	LP623	
UH02, 10, 14-2, 20, 30, 50, 031	LP629	LP629UR
UH063	LP664	LP644
UH121	LP623	
HYSTER		
H150, H30, 40, 50, 60, 60F, 70, 80C 110E	LP637	LP612
H165, 180, 200	LP623	
H20, 25, 30, HC (LPG or Petrol)	LP664	LP644
P125, 150, 165, 180A	LP623	
P40A, P50A	LP664	LP644
S150A	LP656	
S60, S70, S100	LP629	LP629UR
INGERSOLL RAND		
Portable Air Compressors		
TP	LP096	LP100
TP60	LP069	LP072T
TP105, TP120, TPF120, TPG120, TPM120	LP664	
TP210	LP664	
Rotary Compressors		
85, 125, 175	LP655	
250, 365, 600, 750	LP656	
DR365, DR600, DRAF365, DRC600,	LP624	
DRGM365, DRGM600, DRR365, DRR600	LP624	
DRA125, GYRO-F20	LP069	LP072T
DRAF125, DR140, DR150	LP664	
P600/900	LP664	
JCB		
Backhoe Loaders		
1CX, 2CX, 2D, 3C, 3D (MKII & III)	LP655	
2DS, 3CS, 3DS, 3C, 3CX, 3CX4D,	LP655	
4C Turbo, 4CN Machines & 700	LP655	
Crawler Loaders		
110, 110B, 112, 114, 811, 812, 814,	LP655	
814S, 817, 818, 818S, 820 & 820S	LP655	
812S, 814S, 816S, 820S (24v)	LP663	LP665
Dump Trucks		
4C, 4CX Ranges	LP655	
Midi AND Mini CX	LP075	LP027
Excavators		
JVCB2B/3C/3D/4C/4D	LP655	
JCB2D11, JCB3111, JCB3C111, JCB3D111	LP655	
180 Loaders & 360 Hydraulic	LP655	
805B, 806C, 807B, 807C, 811, 812, 814,	LP655	
814S, 816	LP655	
817, 818, 818S, 820, 822,	LP655	
JS110, JS130, JS150, JS160, JS200, JS210,	LP636	
JS220, JS240	LP636	
JS115, JS145, JS180, JS190,	LP663	LP665
JS220HD, JS220L, JS220XD, JS235	LP637	LP612
JS260 Auto, JS260XD,	LP637	LP612
JS330, JS330XD	LP629	LP629UR
JS70	LP663H	
JS460, JS460-T2	LP629	LP629UR
Fastrac Tractor Range	LP663	LP665

MODEL	LUCAS TYPE	ALTERNATIVE LUCAS TYPE
JCB CONTINUED		
Fork Lifts (Rough Terrain)	LP663	LP665
Loadalls		
520 (to 270590)	LP655	
520, 525, 530 (2 & 4 WD)	LP655	
520 (2 & 4 WD)	LP663	LP665
525B (2 & 4 WD)	LP663	LP665
520 (2 & 4 WD) HL, 525B (2 & 4 WD) HL	LP663	LP665
530 (2 & 4) HL, 530B, 530BHL,	LP655	
540B & 540BM	LP655	
Skid Steer Loaders	LP663	LP665
Telescopic Handlers		
Mini Diggers		
8014	LP012	LP063
Half Tonne	LP075	
Wheeled Loading Shovels		
406, 407, 410, 412, 415	LP663	LP665
413, 416, 418, 420, 430	LP655	
423, 425, 426, 428, 428 Compactor, 434, 435	LP655	
436	LP663	LP665
446, 456,	LP655	
SL702, 704	LP655	
900, 1000	LP655	
902, 1250	LP655	
SL907, 908, 1500, 1750, 2000	LP655	
TM 270, TM300, TM310, TM310S	LP663	LP665
Crawler Excavators		
5C	LP655	
805, 805B, 806, 806B, 807, 807B, 808	LP655	
806C, 807C, 850B Turbo	LP655	
802 Mini	LP644	LP664
Trailers 5050, 5051, 5052, 5053, 5054 & 5055	LP643	LP663
Trailers 5056	LP655	
JCB-SCM		
JS130, JS130 Wheeled	LP636	
JS150, JS150 Wheeled	LP636	
JS200	LP636	
JOHN DEERE		
Tractors		
5460, 6110, 6210, 6310, 6410, 6510, 6810	LP637	LP612
6120, 6220, 6320, 6420, 6420S	LP637	LP612
6506, 6520, 6620, 6820, 6920, 6920S	LP637	LP612
8100, 8200, 8300, 8400	LP616L	
8110, 8210, 8310, 8410	LP616L	
8120, 8220, 8320, 8420, 8520	LP616L	
Z Series, 1155, 1158, 1169, 1174, 1177, 1188	LP637	LP612
2054, 2056, 2058, 2064, 2066	LP637	LP612
6610, 6710, 6810, 6910	LP637	LP612
Compact Tractors, Mowers, Utility		
1600, 1620 WAM	LP630	
GX70-95, R70, R72, R92, RX63, RX73	LP895	
RX75, RX95, SRX75, SRX95, CR125	LP895	
1200, 1200A, L100, LT and LTR Series	LP895	
LR and LX100 Series, SST16, STX30-38	LP895	
AMT600, AMT622, AMT626	LP895	
4 X 2, 6 X 4 Turf Gator	LP895	
4500, 4600, 4700	LP250H	LP250H
GX355, X495, X595, 355D, 2500, 2653A	LP057	LP049H
3235B, 4010, 4100, 4110, 2030	LP057	LP049H
GT235, LX277, LX279, 1435, 1445, 1565	LP057	LP049H
800 Aerator, 2653A, 1800, 455, 670, 955	LP057	LP049H
4200-4400, 4210-4410, 4515	LP057	LP049H
655, 755, 855, F700, F900, 2243, 2243D	LP027	LP075
Combines, Forage Harvesters		
925-975, 930-970, 952, 1032-1085	LP017	LP019
1133-1158, 2054, 2056, 2058, 2064, 2066	LP017	LP019
2254, 2256, 2258, 2264, 2266	LP017	LP019
Later 2254, 2256, 2258, 2264, 2266,	LP629	LP629UR

MODEL	LUCAS TYPE	ALTERNATIVE LUCAS TYPE
JOHN DEERE CONTINUED		
542, 544, 954-985, 1065-1177	LP630	
985H4, 1065, 1068H, 1072, 1075H4	LP630	
1166, 1169H4, 1174, 1174H4	LP630	
1188, 1188H4,	LP017	LP019
6610-6910, 6650-6950, 7200-7500	LP017	LP019
MD1065, MD1702, MD1075	LP637	LP612
MD330, 430, 530, 630, 730	LP663	LP665
MD925, MD930, MD940	LP663	LP665
MD932, 954	LP637	LP612
KOMATSU		
D20, D21	LP069	LP072T
D31, D305	LP017	LP019
D3, D31S/15, D45S/15, D50S/15	LP623	
D355A, D65A/6, D65S/6, D85A, D150A/15	LP624	
D40, D45A, D50, D50A/16, D53, D55, D65E,	LP623	
D755, D84A, D155A	LP623	
D60, D60A, D65, D65A, D75, D80, D85,	LP624	
D85E, D95, D12A, D150, D155, D355, D455	LP624	
Forklifts		
FD15T-1, FD20T-7, FD25T-7, FD30-T7	LP068	LP088
FG Models	LP057	LP049H
Dumpers		
HD320, HD785	LP624	
Excavators		
PC150, PC200, PC220	LP623	
PC120, PC150HD, PC150NHD	LP664	
PC180LC, PC180LLC, PC180NLC	LP664	
PC210, PC210LC, PC240, PC240LC	LP664	
PC240NLC, PC280LC, PC280NLC	LP664	
PC300, PC400	LP624	
PC300LC, PC300NLC	LP623	
Wheel Loaders		
D3, D40, D45	LP623	
D50A/15, D050S/15, D85A/12	LP624	
W70, W90, W120	LP623	
WA350, 450, 470, 500, 600, 700	LP623	
WA600-6, 800-3, 900-3	LP625	LP632
WB91, WB93, WB97, WB98	LP623	
Kubota		
B5100, B6100, B7100, B7000,	LP015	
B6000, B8200, B8200HST, B2150, B8200	LP068	LP088
B7100HST, RC20	LP015	
G Series Ride On Mower	LP015	
KH1D, KH8-3, KH5	LP068	LP088
KH14-3, KH15-3, KH16W, KH18, KH20,	LP644	LP664
KH28, KH90, RW25, RW30, RW35	LP664	
KX-3V	LP005L	LP068
KX Excavators, U35	LP096R	
L175, L185, L225, L235, L245, L275	LP068	LP088
L345, L345 MKII, L245DT	LP644	LP664
Mini Digger	LP072T	LP069
M4000, M4050, M4500	LP250H	LP250H
M4700, 5400, 6800, 8030, 8200, 9000	LP249H	LP249H
M5950, 7950DT, M7580, M8580	LP620	
RC20, RC23, RW25, RW30, RW30S, RW35	LP664	
3750, 4150	LP637	LP612
LAMBORGHINI		
1056, 1106, 1156, 1256, 1506,	LP629	LP629UR
190, 360	LP637	LP612
470, 480,	LP629	LP629UR
600, 700, 775, 880, 990	LP249H	LP249H
754, 774, 854, 956	LP637	LP612
904, 955	LP629	LP629UR
Agile Range	LP017	LP019
Crono Range	LP249H	LP249H
Cross 574-60N, 674-70N,	LP249H	LP249H
Cross 674-75N, 774-85N, 874-95N	LP017	LP019

MODEL	LUCAS TYPE	ALTERNATIVE LUCAS TYPE
LAMBORGHINI CONTINUED		
Herlan 480	LP637	LP612
Premium 850, 950, 1050, 1060, 1100, 1300,	LP629	LP629UR
1600, 1800	LP629	LP629UR
Runner Range	LP096	LP100
R 1056, R1106, R1306, R1506	LP629	LP629UR
R754, R804, R850, R854, R955	LP629	LP629UR
LANDINI		
5 Series, 7 Series	LP663	LP665
Alpine Range	LP249H	LP249H
Landpower Range	LP638	
Powerfarm Range	LP249H	LP249H
Powermaster and Powermax Ranges	LP663	LP665
Powermondial and Powerlift	LP249H	LP249H
Technofarm Range	LP663	LP665
LAVERDA		
ACF116	LP069	LP072T
M90, M100	LP096	LP100
M112, M132, M152	LP638	
M120, MX120, MX240, MX300	LP629	LP629UR
3300-3750	LP629	LP629UR
LEYLAND (NUFFIELD)		
Engines		
350, 375 (D)	LP069	LP072T
Tractors		
M3/4 & PM (P) Universal Tractor (P)	LP069	LP072T
051, M3V, PM3V, PM4 (P)	LP069	LP072T
3DL, 10/42, 245, 253	LP644	LP664
3/45, 4/65	LP656	LP656
4/25 (P)	LP015	
4/25 (D)	LP017	LP019
154 (P)	LP015	
154 (D)	LP664	
255, 270, 704	LP655	
262, 270, 272, 285, 344, 384, 475	LP656	
352	LP644	LP664
486, 586, 602, 604, 702, 802, 2100, 4100	LP656	
LIEBHERR		
Cranes		
A901, R901, A911, R911	LP630	
Excavators		
A900, A901, R901, A911, A912, A900, A902	LP630	
R902, R912	LP630	
A921, A922,	LP629	LP629UR
PR731, PR732, PR741, PR742, PR752	LP637	LP612
R922, R932, R942	LP630	
MANITOU TRACTOR		
MB25M, MB25D, 25TC, 30TC, 40, 50, 60	LP629	LP629UR
MB20, MB25, MB25C, MB26C, MB30	LP644	LP664
MC10, 15, 20, 25, 30, MC20H Fork Lift, MCL30H	LP644	LP664
MC40TC, 50, 80	LP629	LP629UR
Rough Terrain Vehicles	LP664	LP644
4RM40K Site Lift	LP629	LP629UR
BL22 Site Lift, MB25P Farm Lift	LP656	
MASSEY FERGUSON		
Combines & Tractors		
D600C	LP643	LP663
D700C	LP637	LP612
FE35, 135 (Petrol)	LP069	LP072T
FE21L, FE35, FE135, FE165, FE175 (Diesel)	LP655	
FE65	LP643	LP663
TA, TEF (Perkins)	LP069	LP072T
TE Series	LP069	LP072T
MF11, MF16, MF20, MF24, MF27,	LP663	LP665

MODEL	LUCAS TYPE	ALTERNATIVE TYPE LUCAS TYPE
MASSEY FERGUSON CONTINUED		
MF29, MF30, MF31, MF32, MF35, MF40, MF50	LP643	LP663
MF34, MF36, MF38, MF40	LP630	
MF50B, MF50D	LP655	
MF55, MF55C, MF66C	LP637	LP612
MF94C, MF133, MF134C	LP655	
MF65, MF70, MF130, MF135, MF140	LP643	LP663
MF148, MF152	LP643	LP663
MF154C	LP655	
MF155, MF158, MF164, MF165, MF168	LP643	LP663
MF174C, MF177, MF254C, MF274C	LP655	
MF175, MF178, MF185, MF186, MF184	LP643	LP663
MF187, MF203	LP630	
MF188, MF200, MF205, MF230, MF234C	LP643	LP663
	LP655	
MF240, MF250, MF252, MF263, MF265, MF290, MF307	LP643	LP663
MF300, MF410, MF410/8, MF420	LP643	LP663
MF330, MF430	LP017	LP019
MF350, MF355, MF360	LP069	LP072T
MF362, MF365, MF375, MF390	LP655	
MF375E, MF390E, MF398, MF399	LP069	LP072T
MF383, MF384, MF393, MF394, MF396	LP017	LP019
MF415, MF425, MF435, MF440, MF445	LP31-1000	
MF460, MF481, MF492	LP31-1000	
MF418, MF487, MF500, MF500-7, MF506	LP663	LP665
MF503, MF530	LP655	
MF507, MF510/7, MF515/7, MF516, MF520, MF525	LP663	LP665
MF550, MF565, MF575, MF590, MF595	LP663	LP665
MF600, MF620, MF625, MF630, MF670	LP663	LP665
MF647, MF655, MF665	LP655	
MF650, MF660, MF680	LP623	
MF675, MF690, MF698 Until 1984	LP655	
MF675, MF690 (1985 On), MF698T, MF699	LP069	LP072T
MF700	LP637	LP612
MF735	LP069	LP072T
MF740, MF750, MF760	LP663	LP665
MF780, MF788	LP531	
MF800, MF805, MF825, MF830, MF835, MF845	LP655	
MF850/5, MF860/5	LP069	LP072T
MF1010	LP015	
MF1020, MF1030, MF1035, MF1040, MF1080	LP663	LP665
MF1100, MF1105, MF1135, MF1155, MF1200	LP655	
MF1205, MF1210, MF1215, MF1220, MF1230	LP057	LP049H
MF1235, MF1240, MF1250, MF1260	LP057	LP049H
MF1250, MF1550	LP655	
MF1519, MF1523, MF1528, MF1531, MF1533, MF1540	LP069	LP072T
MF1505, MF2135, MF2203, MF2205, MF2620	LP663	LP665
MF2650, MF2680, MF2720	LP663	LP665
MF2645, MF2685, MF2725 (From Oct 84)	LP069	LP072T
MF2645, MF2685, MF2725 (From Aug 85)	LP637	LP612
MF3303, MF3305, MF3050, MF3060, MF3065, MF3070, MF3080, MF3085, MF3090, MF3095	LP069	LP072T
MF3115, MF3120, MF3125	LP069	LP072T
MF3610, MF3630, MF3650	LP069	LP072T
MF3680, MF3690	LP663	LP665
MF4260, MF4270	LP069	LP072T
MF4245, MF4225, MF4230, MF4255	LP069	LP072T
MF4200, MF4215, MF4233, MF4235, MF4240, MF4315, MF4345, MF4355	LP663	LP665
MF4435, MF4445, MF4455, MF5180, MF6308	LP663	LP665
MF5335, MF5340, MF5355, MF5360	LP31-1000	
MF5425, MF5435, MF5445, MF5460	LP017	LP019

MODEL	LUCAS TYPE	ALTERNATIVE TYPE LUCAS TYPE
MASSEY FERGUSON CONTINUED		
MF5475, MF5480	LP017	LP019
MF5464, MF5470	LP096R	
MG6110, MF6120, MF6130, MF6140, MF6150	LP096R	
MF6160, MF6170, MF6180, MF6190	LP096R	
MF6235, MF6245, MF6255, MF6260, MF6265	LP096R	
MF6270, MF6280, MF6290	LP096R	
MF6445, MF6455, MF6460, MF6465, MF6470	LP096R	
MF6475, MF6480, MF6485, MF6490	LP096R	
MF6495, MF6497, MF6499	LP096R	
MF7242, MF7250, MF7252, MF7254, MF7256	LP630	
MF7272, MF7274, MF7276, MF7278	LP630	
MF7244, MF7245, MF7246, MF7260, MF7270	LP623	
MF7465, MF7475, MF7480, MF7485, MF7490, MF7495	LP096R	
MF8110, MF8120, MF8130	LP096R	
MF8140, MF8150, MF8160, MF8170	LP643	LP663
MF8240, MF8250, MF8260, MF8270, MF8280	LP643	LP663
MF8450, MF8460, MF8470, MF8480	LP643	LP663
MF8650, MF8660, MF8670, MF8680, MF8690	LP017	LP019
MF8590, MF8780	LP017	LP019
MF8590, MF8780	LP069	LP072T
MF Centora, Delta and Fortria Combines	LP629	LP629UR
MATBRO		
Most Models	LP655	
mitsubishi		
Fork Lift Trucks		
FD10T, FD14T, FD15T, FD20T, FD25T, FD30T, FD35T, FD40T	LP038	LP015
FG10T, FG14T, FG15T, FG20T, FG25T, FG30T, FGC10T, FGC15T	LP038	LP015
FGC20T, FGC25T, FGC30T	LP038	LP015
Construction Machinery		
MS03, MS04, MS07	LP069	LP072T
MS110, MS120, MS140, MS180, MS230	LP637	LP612
NEW HOLLAND (SPERRY NEW HOLLAND)		
CR, CS, CX Series	LP019	LP017
E Series Construction	LP249H	LP249H
LM Series Construction	LP019	LP017
MH Series Construction	LP249H	LP249H
T Series T4020 to T6060	LP019	LP017
T Series T6080 to T7060	LP620	
TD Series	LP663	LP665
TK and TL Series	LP019	LP017
TN Series	LP019	LP017
TM Series	LP629	LP629UR
TR70, TS Series	LP663	LP665
W Series Construction	LP019	LP017
8055	LP637	LP612
818, 903, 907, 1880, 1890, 1895	LP027	LP075
1540, 1550, 8030, 8040, 8070, 8080	LP096	LP100
NIFTY LIFT		
120T, HR10, HR12, H12	LPUS2200	LPUS125
NISSAN		
Fork Lift Trucks		
Diesel Fork Lift QFF02	LP664	
CF01	LP089	LP069
CHF03, CPF02, PF02, UF03	LP089	LP069
EF02, QF01	LP664	
YF03	LP089	LP069
DF05A50U, DF05A60U, DF05A70U	LP664	
POCLAIN		
75C, 75P, 90C, 90P, 115C, 160C, MC, SC	LP629	LP629UR
GC, GY, LC, LY	LP630	

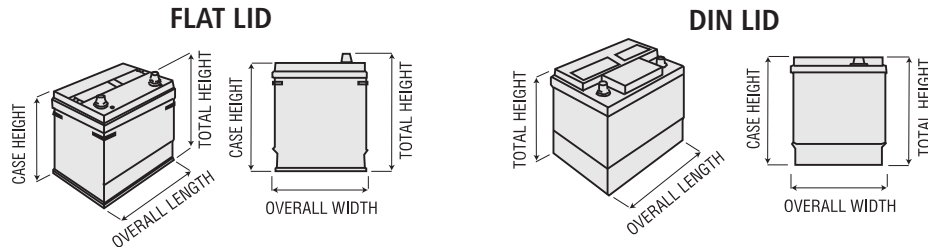
MODEL	LUCAS TYPE	ALTERNATIVE TYPE LUCAS TYPE
POCLAIN CONTINUED		
GCK, MY, P10, P20	LP637	LP612
Excavators		
125CKIB, 170, MC100, P75	LP623	
60, 90, 115, 160, P60	LP629	LP629UR
	LP637	LP612
POP-UP		
Pop-Up	LPUS2200	LPUS125
POWER TOWER		
Power Tower	LTUS27TMX	-
RENAULT TRACTORS		
Ares	LP629	LP629UR
Ceres and Cergos	LP017	LP019
TS, TX, TZ Range	LP629	LP629UR
60 Series	LP664	LP644
90 Series	LP663	LP665
100 Series	LP629	LP629UR
551-4, 651-4, 681-4, 751-5, 751-45	LP663	LP665
68RS, 75RS, 95TX, 103TX	LP664	LP644
77.12, 77.14	LP017	LP019
SAME		
Tractors		
1056P, 1056PT	LP655	
Antares 100, 110, 130	LP017	LP019
Aster 60, 70, Aurora 45	LP096	LP100
Atlanta Vigneto	LP017	LP019
Centaurus 70, Centurian	LP623	
Dinosaurio	LP623	
Drago, Frutteto	LP623	
Explorer 55, 60, 65, 70, 80, 90	LP017	LP019
Falcon	LP629	LP629UR
Iron Range	LP629	LP629UR
Jaguar 95	LP623	
Krypton	LP636	
Leopard 88, 85E, 85DL, 90	LP623	
Mercury, Minitauro	LP637	LP612
Panther 88, 90	LP623	
Sametto Vigneto	LP017	LP019
Sirenetta	LP663	LP665
Taurus 60, Tiger 100, Tiger 105	LP623	
Silver, Superlitan, Titan	LP623	
Trident	LP629	LP629UR
SAMSUNG		
SE210-LC3	LP623	
SE235LC3, 240LC3, 280LC3, 290LC3,	LP625	LP632
SE350, SE350LC, SE450	LP625	LP632
SL120-2	LP637	LP612
SKYJACK		
9250	LP069	LP072T
TAKEUCHI		
TB Range	LP250H	LP50
TB1140, TL130, TL140	LP616R	
TEREX		
28 & 40 Tonne Dumpers	LP624	
Crawler Dozer, TS14 Scraper, L20, L30	LP623	
R5019LD, R70 Dump Truck	LP663	LP665
UNIVERSAL		
Most Models	LP629	LP629UR
S530, 530V	LP637	LP612

MODEL	LUCAS TYPE	ALTERNATIVE TYPE LUCAS TYPE
VALMET		
1103, 1203, 2005, 2105	LP637	LP612
305, 355, 405, 455	LP656	
4100, 4300, 4400	LP637	LP612
502, 504, 505, 665, 702, 703	LP656	
8000, 8100, 8150, 8300, 8400, 8600	LP656	
802, 803, 903	LP656	
805	LP629	LP629UR
VALTRA		
95, 105, 115	LP629	LP629UR
6000, 6100, 6200, 6300, 6400, 6600, 6800, 6900	LP629	LP629UR
8000, 8050, 8100, 8150, 8200, 8400, 8450, 8550	LP620	
A65, A72, A75, A82, A85, A92, A95	LP656	
N82, N91, N92, N101, N111, N121, N141	LP629	LP629UR
S230, S260	LP629	LP629UR
T120, T121, T130, T131, T140, T150, T151, T152	LP629	LP629UR
T160, T161, T162, T170, T171, T172, T180,	LP629	LP629UR
T190, T191	LP629	LP629UR
X and XM Range	LP629	LP629UR
VOLVO, VOLVO-BM		
305, 405, 415M	LP656	
505, 605, 615, 705, 805, 815, 862, 892, 905	LP620	
4200, 4400, 4500, 4600	LP655	
4300	LP663	LP665
Dumpers		
A20, 25, 861	LP637	LP612
L120, L4950, L4951	LP637	LP612
LM1640, LM1641	LP637	LP612
VKH116, 118, 310, 312	LP637	LP612
Excavators		
EC13, EC14, EC15, EC27C, EC30, EC55,	LP623	
EC135, EC140, EC150,	LP623	
EC160C, EC180C, EC280	LP637	LP612
EC210, EC210B, EC210C	LP629	LP629UR
EC240, EC290, EC330, EC360	LP625	LP632
EC340, EC390, EC450, EC650	LP629	LP629UR
EC700B	LP625	LP632
ECR28, ECR58, ECR88,	LP629	LP629UR
EW140 to EW200	LP629	LP629UR
Wheeled Loaders		
L110E, L1120E, L150E, L180E, L220E	LP629	LP629UR
L320E	LP625	LP632
ZETOR		
50 Super	LP629	LP629UR
1000 Series		
10520, 10540, 10641, 11641	LP629	LP629UR
11245, 12245, 14245, 16245	LP637	LP612
14011, 16045, 16145	LP629	LP629UR
3000 Series		
3320, 3340	LP629	LP629UR
3321, 3341	LP637	LP612
4000 Series		
4311	LP630	
4321, 4341, 4511	LP637	LP612
4712, 4718	LP656	
5000 Series		
5011, 5045, 5211, 5245, 5320, 5340	LP629	LP629UR
5341	LP637	LP612
550	LP629	LP629UR
6000 Series		
6011, 6045, 6211, 6245, 6320, 6340	LP629	LP629UR
6421, 6441,	LP630	
7000 Series		
7011, 7045, 7211, 7245, 7711, 7745,	LP629	LP629UR
7421, 7441, 7821, 7841	LP630	
7520, 7540	LP620	

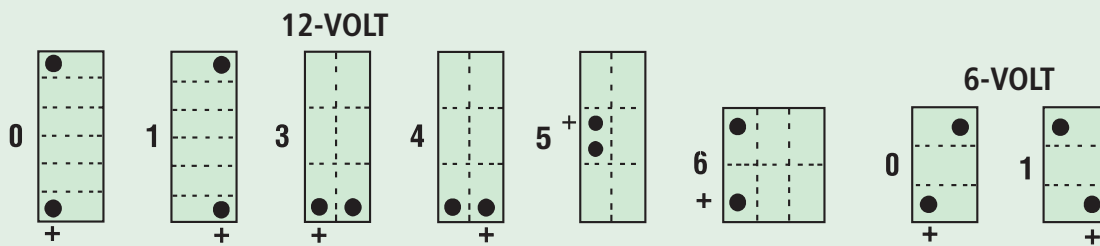
Battery Layouts

The dimensions given in the battery specifications are illustrated in the following diagrams.

The overall dimensions include any projections such as base hold-downs, the edges of the lid and handles, or the lifting edges where appropriate.



LAYOUTS



TERMINALS



NOTES

- 1 Battery with handles
- 2 Battery with 2 base holddowns 29mm high on short sides (B9)
- 3 Battery with 2 base holddowns 19mm high on long sides (B4)
- 4 Battery with 2 base holddowns 10.5mm high on long sides (B1)
- 5 Battery with 4 base holddowns 10.5mm high on long and short sides (B3)
- 6 Battery with 2 base holddowns 10.5mm high on long sides and 2 base holddowns 29mm high on short sides (B5)
- 7 Battery with base holddown 10.5mm high on long and short sides with 5 indentations on long sides for clamping (B13)
- 10 Semi-traction (for standard and heavy cyclic applications)
- 11 Heavy duty (incorporates semi-traction and additional vibration proof features)
- 17 Battery fitted with 'magic eye' hydrometer
- 21 Leisure/Marine (for light cyclic applications)

BASE HOLDDOWNS

- B1 Battery with 2 base holddowns 10.5mm high on long sides
- B3 Battery with 4 base holddowns 10.5mm high on long and short sides
- B4 Battery with 2 base holddowns 19mm high on long sides
- B5 Battery with 2 base holddowns 10.5mm high on long sides and 2 base holddowns 29mm high on short sides
- B9 Battery with 2 base holddowns 29mm high on short sides
- B13 Battery with base holddown 10.5mm high on long and short sides with 5 indentations on long sides for clamping

LUCAS PART NO	UK BBMS PART NO	LUCAS ALTERNATIVE	HIGHER CAP. ALTERNATIVE
CAR BATTERY SPECIFICATIONS			
CLASSIC RANGE			
LC017	017	LP017	LP019
LC063	063	LP063	LP012
LC075	075	LP075	
LC096	096	LP096	
PREMIUM RANGE			
LP002L	202		
LP002R	002		
LP005L	005	LP068	LP068
LP005R	014	LP069	LP069
LP009L	009L		
LP009R	009R		
LP012	012		
LP015	015	LP038	
LP017	017	LP019	LP019
LP018	018		
LP019	019	LS019	LS019
LP020	020		
LP027	027	LP075	LS075
LP037	037		
LP038	038		LP015
LP048H	048	LP053	
LP049H	049	LP057	
LP053	053	LP048H	
LP054	054	LP154	
LP054H			
LP055	055	LP155	
LP057	057	LP049H	
LP063	063	LP012	LS063
LP065	065	LP075	LS075
LP068	068	LP030	
LP069	069	LP031	
LP072T	072	LP069	
LP075	075	LP027	LS075
LP077	077		
LP078	078		
LP096	096	LP100	LS096
LP096R	086		
LP100	100	LP096	LS096
LP110	110/115		
LP154	156		
LP155	157		
LP249H	335		
LP250H	334		
LH279	279		
LH291	291		
LH404	404		
LH421	421		
LP059L	111		
LP058R	113		
LP31-900	C31-900		
LP75DT-550			
LP78DT-630			
LP895	895		
LP896	896		
SUPREME RANGE			
LS019	019	LP017	
LS063	063	LP063	
LS075	075	LP075	
LS100	100	LP100	
FUSION RANGE			
LF017	017	LS019	
LF020	020	LS020	
LF027	027	LS027	
LF096	096	LS096	
LF110	110	LS110	

LUCAS PART NO	UK BBMS PART NO	LUCAS ALTERNATIVE	HIGHER CAP. ALTERNATIVE
COMMERCIAL BATTERY SPECIFICATIONS			
CLASSIC CV RANGE			
LC629	629	LP629	LP629
PREMIUM CV RANGE			
LH451	451		
LH501	501		
LH511	511		
LH521	521		
LH531	531		
LH541	541		
LP612	612	LP637	
LP620	620		
LP621	621	LP629	LP629
LP622	622	LP621	LP629
LP623	623		
LP624	624		
LP625	625	LP632	LP632
LP629	629	LP629UR	LP629UR
LP629UR	629	LP629	
LP630	615		
LP632	632	LP625	
LP633	333		
LP636	636		
LP637	627	LP612	LP612
LP638	638		
LP643	643	LP663	LP663
LP644	644	LP664	LP664
LP655	655		
LP656	656		
LP663	663		
LP663FL			
LP663H			
LP664	664		
LH712	712		
LH713	713		
LH722	722		
LH733	733		

Same Footprint Car Battery Guide

PART NO.	OPPOSITE LAYOUT	HIGHER CAPACITY	LOWER CAPACITY	TALLER CASE	LOWER CASE	NEAREST LUCAS ALTERNATIVE
LP058L	LP058R			LP009L		LP065
LP058R	LP058L			LP009R		LP078
LP002L	LP002R					LP007
LP002R	LP002L					LP077
LP005L	LP005R					LP068
LP005R	LP005L					LP069
LP009L	LP009R					LP058L
LP009R	LP009L					LP058R
LP012	LP077		LP063		LP063	LP063
LP017	LP018	LP019		LP019		LP019
LP018	LP017					
LP019	LP018		LP017		LP017	LP017
LP020			LP017			LP019
LP027	LP078		LP065		LP075	LP075
LP037						
LP038		LP015				LP015
LP048H	LP049H	LP053				LP053
LP049H	LP048H	LP049				LP049
LP053	LP057		LP048H			LP048H
LP054	LP055					LP054H
LP054H						LP054
LP055	LP054					
LP057	LP048H		LP049H			LP049H
LP063	LP077	LP012		LP012		LP012
LP065	LP078	LP075		LP027		LP075
LP068	LP069					LP088
LP069	LP068	LP072T				LP089
LP072T	LP068		LP069			LP069
LP075	LP078		LP065	LP027		LP027
LP077	LP063					
LP078	LP065		LP077			LP077
LP088	LP089					LP068
LP089	LP088					LP069
LP096	LP096R		LP100		LP100	LP100
LP096R	LP096					
LP100	LP096R	LP096		LP096		LP096
LP110			LP096			LP096
LP154	LP155					LP054
LP155	LP154					LP055
LP249H	LP250H					
LP250H	LP249H					

TYPE	OPPOSITE LAYOUT	HIGHER CAPACITY	LOWER CAPACITY	NARROWER CASE	WIDER CASE	NEAREST LUCAS ALTERNATIVE
LP612	LP636		LP637		LP621	LP621
LP620						LP621
LP621	LP623	LP629	LP622	LP637	LP625	LP629
LP622	LP623	LP621		LP637	LP625	LP621
LP623	LP621			LP636	LP624	LP636
LP624	LP625			LP623		LP623
LP625	LP624	LP632		LP629UR		LP629UR
LP629	LP623	LP629UR	LP621	LP637	LP625	LP629UR
LP629UR			LP629	LP612	LP625	LP629
LP630					LP620	LP637
LP632			LP625			LP625
LP636	LP637				LP623	LP623
LP637	LP636	LP612			LP621	LP621
LP643	LP644	LP663				LP663
LP644	LP643	LP664				LP664
LP655	LP656					
LP656	LP655					
LP663	LP664		LP643			LP643
LP664	LP663		LP644			LP644

Battery Testing

5-Point Testing Plan

1. Initial Examination

Proof of purchase? Sound appearance? Within warranty period? Approved application?



Before an accurate decision can be made, you need to complete points 2, 3 and 4 with the nearest combination of three findings resulting in the correct diagnosis (if you are testing the battery on the vehicle - see Note A).

2.	VOLTMETER TEST - OPEN CIRCUIT VOLTAGE					
	10 TO 11.5	10 TO 11.5	0 TO 12.6	6 TO 12.3	Below 10	Above 11.5
3.	HIGH RATE DISCHARGE TEST					
	Below 9 Voltage often rises	Below 9 Voltage often rises	0 Voltage drops immediately to 0	Below 9 Voltage steadily falls	0 - 3 Voltage remains stable	3 - 9 Voltage remains stable
4.	HYDROMETER TEST - SPECIFIC READING					
5.	DECISION					
	Accept Manufacturing Defect Internal short	Accept Manufacturing Defect Internal short/ Internal leakage	Accept Manufacturing Defect Internal Connection failure	Reject Service deterioration (See Note B)	Reject Over discharged/ Sulphated. Recovery may be possible (See Note C)	Reject Vehicle charging error. Recovery may be possible (See Note D)

Notes

- A If testing the battery on the vehicle you must first remove the surface charge. With the engine off, turn the headlights on and leave for a minimum of one minute, then switch off the headlights and leave to stand for a minimum of two minutes.
- B Where discoloured electrolyte is observed, it is always due to excessive service wear. Recharge and retest using the 3-Point Testing Plan.
- C If the battery is identified as over-discharged then attempt to recharge, and retest using the 3-Point Testing Plan.
- D Batteries may be undercharged or overcharged as a result of a malfunction of the vehicle's electrical system. This is not the fault of the battery and the vehicle's electrics should be checked. If the voltage reading is below 12.3V recharge and reset using the 3-Point Testing Plan.

4

COSHH Information

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Lead Acid Batteries

THIS IS IMPORTANT HEALTH AND SAFETY INFORMATION REQUIRED BY LAW, PLEASE DIRECT TO THE PERSON RESPONSIBLE FOR HEALTH AND SAFETY

To the person responsible for Health and Safety in accordance with the requirement of the consumer Production Act 1987 and the Health and Safety At Work Act 1974, we enclose data sheets containing health and safety information relating to Manbat Ltd.

We have drawn up the data sheets with a view to making available information on the storage, handling and the use of our products and would welcome your co-operation in the distributing this information within your organisation to those of your staff who are concerned with it.

The batteries supplied have been subject so far as is reasonably practical, to the test, examinations and necessary research as required by Section 6 of the Health and Safety at Work Act 1974 and are satisfied that they are safe and without risk to health and safety when used properly.

However it is imperative that all persons who test, charge, fit or handle lead acid batteries are aware of the dangers which can exist if the tasks are carried out incorrectly. The stored electrical energy is significant, the units are heavy and the constituent parts are both corrosive and hazardous.

It is imperative that the manufacturer's instructions are read carefully and complied with.

If there is any doubt about any aspects relating to the proper use of our products, we will be only too pleased to advise you on any precautions that may be necessary.

PRODUCT SAFETY DATA

PRODUCT	Lead acid electric storage batteries filled with dilute sulphuric acid
TECHNICAL NAME	Lead Acid Accumulator
COMPONENTS	Lead Lead Dioxide Lead Sulphate Sulphuric Acid (Max Strength of 40%)
HAZARDOUS CLASSIFICATION	(Batteries filled with liquid electrolyte) Corrosive Group 8
U.N NUMBER	2794
PACKING GROUP	3
TYPE OF CONTAINER	Polypropylene
INTERNATIONAL AIR TRANSPORT ASSOCIATION CLASSIFICATION	Not classified for transport by air.

NATURE OF SUBSTANCES WITHIN THE BATTERY

Corrosive
Stored electrical energy
Toxic compounds
Explosive gas mixture involved during charging

WARNING	Hydrogen and oxygen gases are emitted from a battery when it is being charged and at other times, particularly if it is moved or shaken. These gases contain droplets of corrosive Electrolyte.
PROTECTIVE MEASURES	Keep away from children Keep away from sources of ignition No naked flames, No Smoking Keep and charge in a well ventilated area. Wear protective clothing Do not allow electrolyte to come into contact with skin or eyes. Do not ingest

ELECTROLYTE (BATTERY ACID)

The electrolyte in the battery is a mixture of sulphuric acid and water to concentrations of 40% sulphuric acid.

CORROSION	Attacks many metals with liberation of hydrogen gas which is highly flammable and forms explosive mixtures with air. Attacks clothing. Reacts with many chemicals with varying degrees of violence. Avoid contact with sulphide waste or arsenic.
FLASH POINT	Non-flammable, however hydrogen gas may be evolved
BOILING POINT	110 Degrees Centigrade

HEALTH RISKS ASSOCIATED WITH ELECTROLYTE

GENERAL	Corrosive and irritant. Inhalation and skin absorption are primary
INHALATION	The vapour can irritate all parts of the respiratory system.
EYE CONTACT	Burns the eyes severely. Permanent damage may occur if urgent medical aid is not sought
SKIN CONTACT	Prolonged contact will result in tissue damage
INGESTION	Will cause severe irritation and damage (See Emergency First Aid advice below)

SPILLAGE OF ELECTROLYTE

Wear protective clothing. A rubber or PVC apron with bib, rubber or PVC gloves and face visor.

Neutralise with alkali (soda ash, sodium carbonate, sodium bicarbonate) washed down with water and scrubbed with a hard broom

ALL SPILLAGES MUST BE CONTAINED – DO NOT ALLOW TO ENTER MAIN DRAINAGE

If electrolyte has entered a water course or sewer or contaminated soil or vegetation, your local Environmental Agency Office should be advised.

EMERGENCY FIRST AID

INHALATION	Remove from exposure, rest and keep warm. Obtain medical attention immediately.
EYE CONTACT	Wash out with plenty of water for at least 15 minutes. Obtain URGENT medical attention.
SKIN CONTACT	Remove contaminated clothing immediately and wash affected skin with plenty of water. Obtain medical attention.
INGESTION	If the electrolyte has been confined to the mouth give large quantities of water as mouth wash ensuring that it is NOT swallowed. If electrolyte has been swallowed, give water to drink immediately. DO NOT INDUCE VOMITING. OBTAIN URGENT MEDICAL ATTENTION
BURNS	Apply sterile bandage. Obtain medical attention.

LEAD & LEAD COMPOUNDS

Lead and lead compounds are classified as being potentially toxic.

The lead and lead compounds are well contained within the battery and the possibility of lead exposure is negligible. However the battery cells should not be dismantled under any circumstances.

Small amounts of arsenic and antimony are present in certain types of battery, and during the charging process there is a chance that stibine and arsenic may be given off as gases.

The concentration of these gases are negligible and do not present any risk to health.

Guidance notes are available from Health and Safety Executive on Stibine and Arsenic (E.H.11 and E.H.12)

HANDLING AND STORAGE

Batteries are generally heavy and awkward to handle. Care should be taken and correct lifting techniques employed.

Keep the battery upright at all times

Always wear protective clothing when handling batteries, rubber or PVC apron, rubber or PVC gloves and eye protection. This is particularly important during fitting and charging operations.

Use only distilled water for topping up cells, other substances may cause a dangerous reaction in the cells. Top up the recommended level – do not over fill. Follow manufacturer's instructions.

Ensure batteries are maintained in dry, clean conditions, to avoid the possibility of corrosion and short circuits developing.

No attempts should be made to repair a battery. This work involves a number of hazards and should be carried out by suitably trained persons in accordance with manufacturer's instructions.

All labelling and manufacturer's instruction must be read carefully and complied with.

The electrolyte is dilute sulphuric acid which is both poisonous and corrosive. It must not be allowed to come into contact with eyes, skin or clothing.

Members of the public must never remove electrolyte from a battery. This should only be carried out in a controlled environment by persons trained to perform that operation.

DISTRIBUTORS

If acid of recommended specific gravity is not available for the internal filling, the maximum concentration dilution with water should not exceed a specific gravity of 1.400 when measured at 16 degrees centigrade / 60 degrees fahrenheit. The use of a higher concentration of acid is highly dangerous and should only take place under the supervision of a qualified chemist.

FIRE PRECAUTIONS

The internal ohmic resistance of a lead acid battery is very low and a high current will flow if the terminals are short circuited. Sparks and molten metal may be ejected. It is therefore essential to avoid metal objects touching across the terminals.

Before working on or near a battery, remove any metallic items from hands, wrist and neck, together with any such items that may fall from pockets.

Always use insulated tools. Spanners should be of the single ended type. Do not place tools or other conductive objects on the top of batteries.

Switch off all chargers before connection/disconnections are made to batteries. Charge off the vehicle in a well ventilated area.

Hydrogen and oxygen gases are emitted from a battery when it is being charged and also at other times, particularly if it is moved or shaken. These gases contain droplets of corrosive electrolyte.

A Hydrogen/air mixture can produce a violent explosion if ignited, and it must be assumed that this mixture is present in the immediate vicinity at the top of the battery at all times.

The boxes and lid are made from several types of plastic components, which in normal conditions present no hazard. However, in the case of fire the plastic could decompose and may give off toxic vapours. Suitable respiratory protection should be worn during fire fighting.

The following precautions therefore must always be taken:-

Charging and storage must be carried out in well ventilated areas.

No smoking or naked flames should be permitted in the charging area or elsewhere during installations, inspections on or near the battery.

TO EXTINGUISH FIRE USE CO2 OR SMOTHER WITH DRY POWDER

AGM & GEL

PRODUCT SAFETY DATA

PRODUCT	A.G.M Batteries (Absorbed Glass Mat) Lead acid electric storage batteries with immobilized dilute sulphuric acid absorbed into the plates. Batteries are totally sealed with no danger of leakage.
PRODUCT	GEL Batteries (Gel filled batteries) Lead acid electric storage batteries with the electrolyte immobilized in a silica gel. Batteries are totally sealed with no danger of leakage.
TYPE OF CONTAINER	ABS
TECHNICAL NAME	Lead Acid Accumulator
COMPONENTS	Lead Lead Dioxide Immobilized Sulphuric Acid (Max Strength of 40%)
HAZARDOUS CLASSIFICATION	(Batteries: immobilized electrolyte)
UN NUMBER	2800,
CLASS	8
	Unregulated by DOT for transportation by road, rail, sea and air, because they meet the requirements of : 49 CFR 173.159 (d) The only transportation requirements are: 1) The batteries must be securely packed in such a way as to prevent the possibility of short circuiting. 2) The battery and outer packaging must be labelled "NONSPILLABLE BATTERY"
INTERNATIONAL AIR TRANSPORT ASSOCIATION CLASSIFICATION	These batteries are unregulated for air transport because they meet the requirements of: Special Provision "A 67" as promulgated by the International Civil Aviation Association (IATA) and (ICAO). They also meet the Vibration and Pressure Differential Tests of the International Maritime Dangerous Goods (IMDG) regulations.

Transport details for AGM & GEL Batteries

We hereby certify that all AGM (sealed lead acid) batteries and GEL type batteries supplied by Manbat Ltd. conform to UN2800, Class 8 "wet non-spillable electrical storage". Also under the IATA Dangerous Goods Regulations they meet the requirements to conform to special provision "A67" classifying them as non-dangerous goods. They are therefore EXEMPT from the subject regulations for dangerous goods and are acceptable for transport by Air Sea Rail Road. SEE BELOW FOR DETAILS.

PRODUCT SAFETY DATA	
PRODUCT	A.G.M Batteries (Absorbed Glass Mat) Lead acid electric storage batteries with immobilized dilute sulphuric acid absorbed into the plates. Batteries are totally sealed with no danger of leakage.
PRODUCT	GEL Batteries (Gel filled batteries) Lead acid electric storage batteries with the electrolyte immobilized in a silica gel. Batteries are totally sealed with no danger of leakage.
TYPE OF CONTAINER	Polypropylene "Non Spillable"
TECHNICAL NAME	Lead Acid Accumulator
COMPONENTS	Lead Lead Dioxide Immobilized Sulphuric Acid (Max Strength of 40%)
HAZARDOUS CLASSIFICATION	(Batteries: immobilized electrolyte) UN Number 2800, Class 8. Unregulated by DOT for transportation by Road Rail, Sea and Air, because they meet the requirements of : 49 CFR 173.159 (d) The only transportation requirements are: 1) The batteries must be securely packed in such a way as to prevent the possibility of short circuiting. 2) The battery and outer packaging must be labelled "NONSPILLABLE BATTERY"
INTERNATIONAL AIR TRANSPORT ASSOCIATION CLASSIFICATION	These batteries are unregulated for air transport because they meet the requirements of: Special Provision "A 67" as promulgated by the International Civil Aviation Association (IATA) and (ICAO). They also meet the Vibration and Pressure Differential Tests of the International Maritime Dangerous Goods (IMDG) regulations.

Transport Details for Wet Flooded Batteries

PRODUCT SAFETY DATA	
PRODUCT	Lead acid electric storage batteries filled with dilute sulphuric acid.
TECHNICAL NAME	Lead Acid Accumulator.
COMPONENTS	Lead Lead Dioxide Lead Sulphate Sulphuric Acid (Max Strength of 40%)
HAZARDOUS CLASSIFICATION	(Batteries filled with liquid electrolyte) Corrosive Group 8
U.N NUMBER	2794
PACKING GROUP	3
TYPE OF CONTAINER	Polypropylene
INTERNATIONAL AIR TRANSPORT ASSOCIATION CLASSIFICATION	Not classified for transport by air.

In response to the 'Hazardous Waste Regulations' appertaining to the disposal of lead acid batteries.

We as a battery wholesaler are now obliged to provide a collection service for scrap lead acid batteries.

To facilitate this we are able to supply our larger customers with scrap collection bins to aid with storage and collection of recyclable batteries, which we will then organise the collection of as and when required. We are also able to offer a collection via our normal van route.

In order for us to be able to collect scrap from you, you need to register with the Environment Agency in order to obtain a 'Premises Code' unique to your business. This is a mandatory requirement of the environment agency. Without this premises code we are not allowed to collect from your premises.

The registration is simple and costs just £18 on line at www.environment-agency.gov.uk/subjects/waste and then click on register as a hazwaste producer, the whole process takes just a few minutes. This gives you your premises number.

The only exceptions to the registrations are businesses and shops that have less than 200kgs of waste per year, all other premises have to register or a penalty will be legally enforced by the Environment Agency.

Please contact your nearest manbat branch to arrange supply of bins or collection of scrap batteries.

Guarantee

BATTERY RANGE	APPLICATION	GUARANTEE PERIOD
Classic	Car	2 year
Premium	Car	3 year
Supreme	Car	4 year
Fusion	Car	4 year
XV Leisure	LX	3 year
Leisure	LL	2 year
Marine	LM	2 year
Premium	Commercial	2 year
Golf		1 year
Industrial		1 year
Motorcycle		1 year
Mobility		1 year
VRLA/GEL		1 year
Standby		Warranty on application
Optima		Warranty on application
Odyssey		Warranty on application
Chargers		1 year

Your Guarantee

Lucas batteries are guaranteed for the periods as stated, protecting you against electrical and mechanical breakdown as a result of manufacturing defect.