

HyChill Minus30 CHARGE WEIGHT GUIDE

The following is a wide-ranging refrigerant capacity listing of the suggested Minus30 charge weights for vehicles fitted with R12 and R134a type air conditioning systems up to 2007. This listing should only be used as a guide to give some indication, clue or idea of the possible refrigerant charge required for the system. The charge weights listed are only applicable to HyChill Minus30. When charging a system keep in mind that the charge weight may need approximately ± 25 -50 grams of refrigerant to have the system running at its optimum.

The use of charging weigh scales is highly recommended

CAUTION

Do not over charge the system.

Vehicles may have factory, dealer or aftermarket systems installed, which can result in charge weights that varying widely between several identical vehicles. It can sometimes be difficult to identify replacement parts from original. Each and every replacement part can significantly alter the refrigerant capacity of the system. System pressures and vent temperatures should always be used to verify a system charge weight and performance.

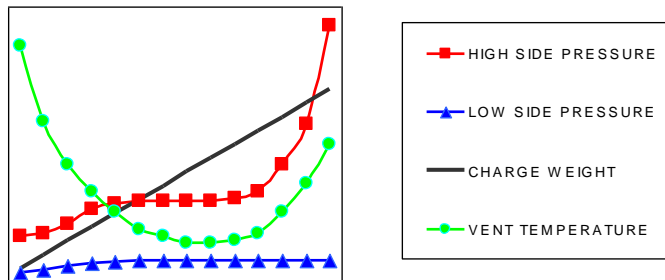
If the vehicle you're looking for isn't listed or you suspect the listing is incorrect, there are four ways of determining how much Minus30 to use:

- The first method is to find the original charge weight on the system label under the bonnet, in the owner's manual or via the manufacturer and calculate 30% of the original charge by weight. For example, a vehicle charged with 900 grams of R134a or R12 would use 270 grams of Minus30 and system with a 600 gram fluorocarbon capacity would require about 180 grams of Minus30.

Original charge weight (grams) x 30% = Minus30 charge weight (grams)

- The second method is by reading the gauge pressures and vent temperatures. This is the method commonly used when charging agricultural, mining, earthmoving and other heavy equipment. The gauge readings for Minus30 refrigerant should always be lower than R134a. Typically between 15-25 psi (100-200kPa) on the low side and 150-225 psi (1000-1600kPa) on the high side at 1500RPM. These figures will depend on the ambient temperature, air flow and a good decent sized condenser - these contribute significantly to variations in the high pressure gauge reading.

PRESSURE TEMPERATURE RELATIONSHIP



- The third method is to charge by volume using the scale on a dial charger and charging about 15% less 'by volume' (not weight) of the original fluorocarbon charge. In other words, charge the system with about 85% of the original charge by volume (this translates to 30% of the original charge by weight).
- The fourth method is to call the HyChill Help Line **1300 492 445**. We are more than happy to receive your call and assist you with any technical matters regarding the use of HyChill Minus30.

Please advise HyChill of any errors or omissions in this listing by calling the HyChill Help Line

1300 HYCHIL

(1300 492 445)

DISCLAIMER: The information in this document is an aid only and should be verified before being used. While every effort has been made to ensure the accuracy of the contents at the time of printing, no responsibility is taken for any inaccuracies or negligence in the preparation and publication of the document.

MAKE	MODEL	YEAR	Minus30 weight
Alfa Romeo	33, Alfetta	1985 - 1992	140
	75, 90, 105, 145, 146, 164	1985 - 1992	220
	147, 156	1997 - 2006	165
	155	1992 - 1993	285
	155	1994 - 1997	210
	156	2002 - 2006	150
	159	2005 - 2008	170
	166	1998 - 2006	200
	Guiletta,	1980 - 1985	
	GT Coupe & V6	2003 - 2006	180
	Spider/GTV	1998 - 2003	175
	Spider	2003 - 2004	175
Aston Martin	DB7, 9, V8	1995 - 2004	270
Audi	80	1979 - 1993	300
	80	1993 - 1995	200
	90, 100, 200	1979 - 1994	300
	A3, A4	1997 - 2002	225
	A3	2003 - 2007	160
	A4	1994 - 2001	200
	A4 B6	2001 - 2006	150
	A6, A6 C5, A6 C6	1996 - 2006	200
	A6 4F	2004 - 2006	160
	A8 S8	1995 - 1997	230
	A8, R8	1997 - 2003	200
	Q7	2000 >	220
	Q7 Dual	2000 >	320
	Quattro ND, Zexel, Allroad, TT	2001 - 2006	220
BMW	1 Series (E87)	2004 - 2006	150
	3 Series	1976 - 2000	300
	3 Series	2000 - 2006	200
	5 Series	1981 - 2003	400
	5 Series	2003 - 2006	200
	6 Series (Single)	1977 - 1989	300
	6 Series (Dual)		500
	7 Series	1980 - 2001	400
	7 Series	2002 - 2005	240
	8 Series	1990 - 1999	460
	M3	1993 - 2003	270
	M5	1986 - 1992	300
	X3	2003 - 2006	240
	X5	1999 - 2005	140
	Z3	1997 - 2003	270
	Z4	2003 - 2006	200
Chevrolet	Camaro	1992 - 2002	230
	Corvette	1991 - 2003	
Chrysler/Dodge	Centura KB-KC	1975 - 1979	250
	Neon	1996 - 2002	235
	PT Cruiser	2000 - 2005	220
	Ram (Dodge)	1991 - 2000	260
	Valiant VK-CM	1975 - 1981	380
	Voyager (Dual)	1994 - 2006	
	Voyager (Single)		280
Citroen	AX	1991 - 1993	250
	Berlingo	1999 - 2003	
	BX	1986 - 1994	300
	C2, C3, C4, C5 & C6	2001 - 2006	180
	CX	1982 - 1985	280
	Xantia	1994 - 2001	
	XM	1991 - 2000	
	Xsara	1998 - 2000	
Xsara	2000 - 2005	170	
Daewoo	1.5l	1994 - 1995	250
	Cielo, Espero	1995 - 1998	
	Kalos	2003 - 2004	160

Daewoo	Korando	1998 - 2003	230
	Lacetti	2003 - 2004	
	Lanos, Leganza	1997 - 2004	
	Matiz	1999 - 2004	160
	Musso	1999 - 2003	230
	Nubira	1997 - 2004	
	Tacuma	2000 - 2004	
Daihatsu	Applause	1991 - 1999	160
	Centro	1995 - 1998	
	Charade G10/11	1980 - 1987	200
	Charade G100/102	1987 - 1993	140
	Charade G200/203	1993 - 2000	200
	Charade L251RS	2003 - 2005	100
	Copen	2003 - 2006	100
	Cuore	2000 - 2003	
	Feroza	1988 - 1998	180
	Handi	1982 - 1990	
	Mira	1990 - 1997	
	Move	1997 - 2000	
	Musso	1999 - 2003	
	Pyzar	1997 - 2000	
	Rocky	1984 - 1999	
	Terios	1997 - 2001	
	Sirion	1998 - 2005	100
	YRV	2001 - 2004	
Eunos	30, 500, 800	1992 - 2000	220
Fiat	Ducato	2002 - 2006	250
	Punto	2005 - 2006	150
Ford	Bronco	1982 - 1987	300
	Capri SA	1989 - 1993	200
	Corsair UA-CA20-KA20	1990 - 1992	300
	Cortina TE-TF	1977 - 1982	200
	Cougar SW/SX	1999 - 2002	
	Courier	1983 - 2002	180
	Courier PG/PH	2002 - 2006	250
	Econovan	1984 - 1998	200
	Escape BA/ZA/ZB	2001 - 2006	250
	Escort	1977 - 1981	150
	Explorer UN-US	1996 - 2001	200
	Explorer UT/UX/UZ (Single)	2001 - 2006	270
	Explorer UT/UX/UZ (Dual)		480
	F100/150/250 Series	1981 - 2000	250
	F250 Single	2001 - 2006	330
	F250 Dual	2001 - 2006	580
	Fairlane AU (LTD)	1998 - 2002	300
	Fairlane NA-NC (LTD DA-DC)	1987 - 1995	400
	Fairlane NF-NL (LTD DF-DL)	1995 - 1998	300
	Fairlane ZF-ZH (LTD FA-FB)	1972 - 1979	
	Fairlane ZJ-ZK (LTD FC-FD)	1979 - 1984	400
	Fairlane ZL (LTD FE)	1984 - 1987	
	Falcon AU	1998 - 2002	260
	Falcon BA-BF	2002 - 2006	200
	Falcon EA-EB	1987 - 1993	400
	Falcon ED-EL	1993 - 1998	300
	Falcon XA-XC	1972 - 1979	
	Falcon XD-XG	1979 - 1993	400
	Falcon XH	1993 - 1999	300
	Festiva WA/WB/WD/WF	1991 - 2001	200
	Fiesta WP	2004 - 2006	
	Focus	2000 - 2006	
	Ka TA/TB	1999 - 2002	
	Landau	1973 - 1976	270
	Laser KA-KQ	1981 - 2002	200
	Marquis	1976 - 1979	260
	Maverick	1993 - 1994	
	Meteor GA-GC	1982 - 1987	220
	Mondeo HA-HE	1995 - 2000	

Ford	Mustang	1993 - 2003	260
	Probe	1994 - 1998	220
	Raider	1991 - 1993	
	Spectron (Single)	1984 - 1990	480
	Spectron (Dual)		
	Taurus	1996 - 1998	280
	Telstar AR-AY	1983 - 1997	220
	Territory SX/SY	2004 - 2006	
	Trader	1990 - 1998	150
	Transit VF-VG	1996 - 2000	300
	Transit VH-VJ (Single)	2000 - 2006	
	Transit VH-VJ (Dual)		500
Holden	Adventra VY/VZ	2003 - 2006	240
	Apollo JK-JL	1989 - 1993	200
	Apollo JM-JP	1993 - 1997	250
	Astra AH	2004 - 2006	150
	Astra LB-LD	1984 - 1989	280
	Astra TR	1996 - 1998	
	Astra TS	1998 - 2006	200
	Barina MB-ML	1985 - 1989	
	Barina MF-MH	1989 - 1993	140
	Barina SB	1993 - 1998	200
	Barina TK	2005 - 2006	
	Barina XC	2001 - 2005	
	Calibra YE	1991 - 1995	200
	Calibra YE	1995 - 1997	300
	Camira JB-JE	1982 - 1989	
	Combo XC	2001 - 2006	200
	Commodore VB-VN	1979 - 1990	300
	Commodore VG-VP Ute	1990 - 1993	
	Commodore VN-VZ (Statesman, Monaro)	1990 - 2006	240
	Cruze YG	2002 - 2006	100
	Frontera	1995 - 2003	200
	Gemini	1975 - 1987	250
	Jackaroo	1982 - 2003	
	Kingswood HQ-HZ (Premier, Monaro)	1971 - 1979	440
	Nova LE-LG	1989 - 1996	200
	Piazza YB	1986 - 1987	300
	Rodeo KB	1982 - 1988	250
	Rodeo R	1997 - 2006	200
	Rodeo TF	1988 - 1993	280
	Rodeo TF	1993 - 1997	220
	Shuttle WF (Single)	1983 - 1990	
	Shuttle WF (Dual)		400
	Statesman HQ-WB	1971 - 1985	
	Statesman VQ	1990 - 1993	330
	Tigra	2005 - 2006	200
	Torana LH-UC	1974 - 1979	340
Vectra	1997 - 2006	240	
Viva JF	2005 - 2006	200	
Zafira TT	2001 - 2006		
Honda	Accord	1978 - 1989	200
	Accord	1990 - 1993	270
	Accord	1994 - 2003	210
	Accord	2003 - 2007	180
	City	1984 - 1986	180
	Civic	1978 - 1983	210
	Civic	1984 - 1987	240
	Civic	1988 - 1991	270
	Civic	1992 - 1993	190
	Civic	1994 - 1995	160
	Civic	1996 - 2000	190
	Civic	2001 - 2006	160
	Concerto	1989 - 1991	270
	CR-V	1997 - 2006	170
	CRX	1987 - 1992	210
	CRX	1992 - 1998	150

Honda	Insight	2001 - 2004	150
	Integra	1986 - 1993	270
	Integra	1994 - 2001	200
	Integra	2001 - 2006	160
	Jazz	2002 - 2006	130
	Legend	1986 - 2004	240
	MDX	2003 - 2006	200
	NSX	1991 - 2003	230
	Odyssey 1st Gen (Single)	1995 - 2000	200
	Odyssey 1st Gen (Dual)		250
	Odyssey 2nd Gen	2000 - 2004	300
	Odyssey 3rd Gen	2004 - 2006	220
	Prelude	1979 - 2006	210
	S2000	1999 - 2006	170
Hyundai	Accent	2000 - 2006	180
	Coupe	1996 - 2002	200
	Elantra XD	2000 - 2006	
	Excel	1986 - 1993	270
	Excel	1994 - 2000	200
	Getz TB	2002 - 2006	160
	Grandeur XG	1999 - 2002	200
	Grandeur	2006 - 2007	160
	i30	2007 - 2009	
	Lantra	1991 - 1993	270
	Lantra	1993 - 2000	200
	Lantra	2002 - 2003	150
	S Coupe	1989 - 1993	260
	S Coupe	1994 - 1995	200
	Santa Fe	2000 - 2006	180
	Sonata	1989 - 1993	260
	Sonata	1994 - 1998	230
	Sonata EF-B	1998 - 2005	200
	Terracan HP	2001 - 2006	250
	Tiburon GK	2002 - 2006	180
Trajet FO (Single)	2000 - 2006	200	
Trajet FO (Dual)		255	
Jaguar	Daimler 3.6, 4.0	1987 - 1992	350
	Daimler Double Six	1986 - 1987	
	Daimler Double Six	1994 - 1997	
	Daimler Six	1996 - 1997	
	Daimler V8	1997 - 1998	200
	E Type 5.3 Series III	1972 - 1973	350
	S Type	1999 - 2006	240
	Sovereign	1983 - 2002	340
	X Type	2000 - 2006	240
	XJ Series	1969 - 1997	350
	XJ Series	1997 - 2003	300
	XJ Series (2 zone)	2003 - 2006	
	XJ Series (4 zone)		250
	XJR	1994 - 2001	350
	XJS	1976 - 1993	300
	XK8	1996 - 2002	200
Jeep	Cherokee	1979 - 1994	300
	Cherokee	1994 - 1996	250
	Cherokee	1996 - 2006	200
	CJ7/8	1981 - 1982	300
	Grand Cherokee	1994 - 1998	
	Grand Cherokee	1999 - 2005	220
	Hawk	1982 - 1983	300
	J10, J20	1981 - 1985	
	Laredo	1982 - 1985	
	Overlander	1984 - 1985	
	Renegade	1978 - 1985	
	Wrangler	1996 - 2006	
Kia	Carens	2000 - 2002	250
	Carnival	1999 - 2006	300
	Cerato LD	2004 - 2006	150

Kia	Credos	1998 - 2001	200	
	Mentor	1996 - 2000		
	Optima GD	2001 - 2006		
	Pregio CT	2002 - 2004	250	
	Rio	2000 - 2005	200	
	Rio	2006 - 2008	150	
	Shuma	2000 - 2001	200	
	Sorento BL	2003 - 2006		
	Spectra	2001 - 2003		
	Sportage	1997 - 2003		
		Sportage	2005 - 2008	160
	Lada	Cevaro	1990 - 1993	180
Niva/Bushman		1994 - 1998		
Samara		1988 - 1991		
Landrover	110/Country	1984 - 1991	300	
	Defender	1992 - 1993	180	
	Defender	1993 - 1998	300	
	Defender	1999 - 2006	230	
	Discovery (Single)	1991 - 1998	270	
	Discovery (Dual)		320	
	Discovery (Single)	1999 - 2004	200	
	Discovery (Dual)	1999 - 2004	250	
	Freelander	1997 - 2001	200	
	Freelander	2000 - 2006	160	
	Range Rover	1980 - 1985	270	
	Range Rover	1986 - 1995	360	
	Range Rover P38A	1995 - 2002		
	Range Rover L322	2002 - 2006	150	
Lexus	ES300	1992 - 2006	250	
	GS300	1997 - 2004	180	
	IS200, 300	1999 - 2005		
	LS400	1990 - 1992	300	
	LS400 (Single)	1993 - 1996	280	
	LS400 (Dual)		360	
	LS400 (Single)	1996 - 2000	200	
	LS400 (Dual)		280	
	LS430 (Single)	2000 - 2006	200	
	LS430 (Dual)		200	
	LX470	1998 - 2006	250	
	RX330	2003 - 2005	180	
	SC430	2001 - 2006	200	
Leyland	P76	1973 - 1974	230	
Maybach	57/63	2004 - 2006	300	
Mazda	121	1987 - 2002	200	
	323	1980 - 1998		
	626	1983 - 2002		
	929	1976 - 1997		
	Bravo B Series Ute	1986 - 1993	220	
	Bravo B Series Ute	1993 - 2002	180	
	Bravo B Series Ute	2002 - 2006	250	
	E Series Van (Single)	1984 - 1993	200	
	E Series Van (Dual)		320	
	E Series Van (Single)	1993 - 2000	150	
	E Series Van (Dual)		400	
	Mazda2, 3, 6	2002 - 2007	140	
	Millenia	2000 - 2002	220	
	MPV (Single)	1994 - 1999	300	
	MPV (Dual)		350	
	MPV (Single)	1999 - 2002	200	
	MPV (Dual)		260	
	MX3	1994 - 1995	170	
	MX5	1989 - 2001	200	
	MX5	2002 - 2005	100	
	MX6	1987 - 1997	230	
	Premacy	2001 - 2003	160	
	Protégé	1998 - 2003		
	RX4/5	1976 - 1979	220	

Mazda	RX7	1979 - 1992	220
	RX7	1992 - 1998	170
	RX8	2003 - 2006	130
	T Series	1984 - 2000	
	Tribute	2000 - 2001	200
	Tribute YU	2001 - 2006	250
Mercedes Benz	180E (W201)	1991 - 1996	300
	190D/E (W201)	1985 - 1992	330
	220, 220D (W115)	1968 - 1973	360
	230, 230E/TE (W114, W123)	1968 - 1986	
	230E/GE/TE (W124)	1986 - 1993	330
	240D (W115, W123)	1974 - 1982	360
	250, 250C/CE (W114, W123)	1968 - 1978	
	260E (W124)	1988 - 1991	330
	280, 280C/CE/E/TE (W114, W123)	1972 - 1986	360
	280S/SE/SEL/SL/SLC (R107, W108, W116)	1968 - 1981	300
	280SE (W126)	1981 - 1986	400
	280SE/SL (W111, W113)	1968 - 1972	230
	300CE/D/E/TE (W124)	1986 - 1993	330
	300D/TD (W123)	1976 - 1985	360
	300GD (W463)	1982 - 1989	300
	300SE/SEL (W126)	1983 - 1992	400
	300SEL (W109)	1968 - 1973	300
	350SE/SEL/SL/SLC (R107, W116)	1971 - 1976	
	380SE/SEC/SEL (W126)	1981 - 1986	400
	380SL (R107)	1980 - 1986	300
	420SE/SEL (W126)	1986 - 1992	400
	450SE/SEL/SL/SLC (R107, W116)	1973 - 1980	300
	450SEL 6.9 (W116)	1978 - 1980	360
	500SL (R129)	1990 - 1993	300
	560SEL (W126)	1986 - 1992	400
	560SL (R107)	1986 - 1989	300
	A Class (W168)	1998 - 2005	180
	A Class (W169)	2005 - 2006	230
	C Class (W202)	1994 - 2000	250
	C Class (W203)	2000 - 2004	220
	C Class (W203)	2004 - 2006	250
	CL Class (W140)	1994 - 1998	360
	CL Class (W215)	1998 - 2006	280
	CLK Class (W208, W209)	1997 - 2006	240
	E Class (W124)	1986 - 1993	330
	E Class (W124, W210, W211)	1994 - 2006	300
	M Class (W163)	1998 - 2005	230
	M Class (W164)	2005 - 2006	300
	S Class (W140) Single	1994 - 1999	360
	S Class (W140) Dual		400
	S Class (W220) Single	1999 - 2006	280
	S Class (W220) Dual		320
	SL Class (R129, R230)	1994 - 2006	280
	SLK Class (R170)	2000 - 2004	250
	SLK Class (R171)	2004 - 2006	200
	Sprinter	1996 - 2006	240
	Vito (W638)	1998 - 2004	260
Vito (W639)	2004 - 2006	160	
MG	F	1997 - 2002	200
	TF, TR, TS	2002 - 2005	
	TZ	2002 - 2005	140
Mini	Cooper	2002 - 2006	120
Mitsubishi	380	2005 - 2006	140
	3000GT	1993 - 1997	250
	Challenger PA	1998 - 2006	200
	Colt RA-RE	1980 - 1990	
	Colt RG	2004 - 2006	170
	Cordia AA-AC	1983 - 1989	270
	Express/Starwagon SF-SH (Single)	1986 - 1993	200
	Express/Starwagon SF-SH (Dual)		300
Express/Starwagon SJ & WA, L300	1993 - 2005	200	

Mitsubishi	Galant HG-HH	1989 - 1993	300
	Galant HJ	1993 - 1997	240
	Grandis BA (Single)	2004 - 2006	160
	Grandis BA (Dual)		200
	L200 MA-MD	1982 - 1986	250
	L300 SC-SE (Single)	1983 - 1986	200
	L300 SC-SE (Dual)		300
	Lancer CA-CB	1988 - 1992	180
	Lancer CC	1992 - 1996	
	Lancer CE-GH	1996 - 2006	
	Magna TM-TS, TE-TL-TW	1985 - 2005	200
	Mirage CE	1995 - 2002	180
	Nimbus UA-UF	1984 - 1998	240
	Outlander ZE/ZF	2003 - 2006	170
	Pajero NA-NH (Single)	1983 - 1993	240
	Pajero NA-NH (Dual)		300
	Pajero NJ-NL	1993 - 2000	220
	Pajero NM-NP	2000 - 2006	160
	Scorpion GJ-GL	1981 - 1985	250
	Sigma GE-GN	1977 - 1987	
	Starion JA-JD	1982 - 1987	200
	Triton ME-ML	1986 - 2004	
	Verada KR-KS, KE-KL-KW	1991 - 2005	
	Nissan	120Y	1977 - 1978
180B		1974 - 1977	220
200B		1978 - 1981	300
200SX		1994 - 2000	200
240K		1974 - 1978	220
260C		1974 - 1978	300
260Z		1974 - 1978	220
280C		1978 - 1984	250
280ZX		1980 - 1984	300
300C		1980 - 1986	
300ZX		1984 - 1993	180
300ZX		1993 - 1996	
350Z		2002 - 2006	
720 Ute		1980 - 1985	240
Bluebird		1993 - 1997	220
Bluebird 910		1981 - 1986	270
Gazelle S12		1984 - 1989	300
GTR R32		1991 - 1993	200
Infinity Q45		1993 - 1997	240
Maxima A32, A33		1995 - 2003	200
Maxima J30		1990 - 1995	230
Maxima J31		2003 - 2006	150
Micra		1995 - 1997	
Murano		2005 - 2006	
Navara D21		1986 - 1997	240
Navara D22		1997 - 2006	160
NX Coupe B13		1991 - 1997	200
Pathfinder		1998 - 2001	
Pathfinder D21		1986 - 1993	250
Pathfinder R50		1994 - 2005	200
Pathfinder R51 Climate Control		2005 - 2006	
Pathfinder R51 Climate Control (Dual)			250
Pathfinder R51 Manual			320
Patrol 160		1980 - 1987	330
Patrol GQ Y60		1994 - 1997	200
Patrol Y60 (Single)		1988 - 1993	300
Patrol Y60 (Dual)			400
Patrol Y60		1993 - 1997	350
Patrol Y61 (Single)		1997 - 2006	240
Patrol Y61 (Dual)			300
Pintara R31		1986 - 1989	
Pintara U12	1989 - 1993	350	
Prairie M10 (Single)	1982 - 1985	300	
Prairie M10 (Dual)		400	

Nissan	Pulsar N10, 12, 13	1981 - 1983	300
	Pulsar N14	1991 - 1993	200
	Pulsar N15 1.6L	1993 - 2000	
	Pulsar N15 2.0L	1993 - 2000	160
	Pulsar N16	2000 - 2006	
	Serena	1994 - 1997	340
	Serena C23 (Single)	1992 - 1995	160
	Serena C23 (Dual)		250
	Skyline	1978 - 1990	300
	Stanza	1980 - 1983	
	Sunny B310	1979 - 1981	
	Terrano 11 R20	1997 - 1999	220
	Tiida	2005 - 2007	140
	Urvan E23 (Single)	1981 - 1986	360
	Urvan E23 (Dual floor)		480
	Urvan E23 (Dual overhead)		540
	Urvan E24 (Single)	1987 - 1992	250
	Urvan E24 (Dual)		400
	V30E Brougham Y30	1986 - 1988	300
	Vanette C120 (Single)	1981 - 1986	
	Vanette C120 (Dual)		1986 - 1993
	Vanette/Nomad C22 (Single)	430	
	Vanette/Nomad C22 (Dual)	1993 - 1997	
Vanette C22	390		
XFN Ute	1988 - 1990	390	
X-Trail	2001 - 2006	150	
Peugeot	205	1987 - 1993	270
	306	1994 - 1998	
	405	1989 - 1993	
	405	1994 - 1997	200
	406	1997 - 1998	
	407	2004 - 2006	
	505	1980 - 1993	300
	604	1980 - 1982	260
	605	1994 - 1997	
	607	2001 - 2006	200
	206	1999 - 2006	
	306 N5	1997 - 2002	
	307 T5	2001 - 2006	
	406 D8, D9	1996 - 2003	
Pontiac	Firebird	1993 - 1999	200
Porsche	911 (930)	1975 - 1992	350
	911 (993, 996)	1994 - 2005	260
	924	1979 - 1982	250
	928 (Single)	1978 - 1995	300
	928 (Dual)	1986 - 1995	360
	928 GTS	1993 - 1995	240
	944	1982 - 1989	260
	968	1993 - 1995	
Boxster 986	1997 - 2005	260	
Proton	M21	1997 - 1998	180
	Satria	1997 - 2005	
	Wira/Persona	1995 - 2005	
Renault	18, 20	1980 - 1983	250
	19	1991 - 1996	
	21	1987 - 1991	280
	25	1985 - 1991	230
	Clio	2001 - 2006	200
	Fuego	1982 - 1987	280
	Kangoo	2004 - 2006	200
	Laguna	1995 - 1996	240
	Laguna	2002 - 2006	200
	Master	2004 - 2006	260
	Megane	2001 - 2004	230
	Megane II X84	2003 - 2006	160
	Scenic	2001 - 2004	200
	Scenic II	2005 - 2006	160

Renault	Trafic	2004 - 2006	200
Rolls Royce	Corniche	1971 - 1976	470
	Silver Dawn	1992 - 1998	220
	Silver Shadow (Single)	1966 - 1976	470
	Silver Shadow (Dual)	1970 - 1976	550
	Silver Shadow 11	1977 - 1980	440
	Silver Spirit to chassis no.2000	1981 - 1985	370
	Silver Spirit chassis no. 2001 to no. 20001	1986 - 1989	500
	Silver Spirit 11 from chassis no.30001	1989 - 1992	
	Silver Spirit	1992 - 1998	220
	Silver Spur (except touring limo)		
Rover	75	2001 - 2005	140
	827	1988 - 1991	300
	3500	1972 - 1979	
	416i	1986 - 1990	
	825i	1987 - 1988	300
	Quintet	1983 - 1985	200
	SD1	1979 - 1987	400
Saab	900	1979 - 1980	360
	900	1981 - 1983	300
	900	1993 - 1998	240
	9000	1985 - 1997	300
	9-3	1999 - 2003	240
	9-3 440	2002 - 2006	200
	9-5	1997 - 2006	260
Seat	Cordoba	1994 - 1999	260
	Ibiza	1994 - 1999	
	Toledo	1995 - 1999	
SMART	Fourtwo	2003 - 2006	140
	Roadster	2003 - 2006	200
Ssangyong	Chairman W100	2005 - 2006	200
	Korando	1998 - 1999	
	Musso	1996 - 1998	
Subaru	Brumby ute	1981 - 1993	200
	Fiori	1989 - 1992	160
	Forester	1997 - 2005	180
	Impreza/Sportswagon, Turbo	1994 - 1998	200
	Impreza/Sportswagon	1998 - 2000	180
	Impreza (including WRX turbo)	2000 - 2006	150
	L series	1980 - 1993	220
	Leone	1981 - 1990	
	Liberty	1989 - 1993	
	Liberty/Outback 2nd Gen	1994 - 1999	200
	Liberty/Outback 3rd Gen	1998 - 2003	140
	Liberty/Outback 4th Gen	2003 - 2006	
	SVX	1993 - 1997	200
	Vortex	1985 - 1989	
Suzuki	Alto 550cc	1985 - 1988	140
	Alto 800cc	1985 - 1989	200
	Alto	1993 - 1998	160
	Baleno 1.6 & 1.8	1996 - 2001	180
	Carry	1978 - 1985	
	Hatch	1981 - 1989	200
	Ignis	2000 - 2005	100
	Jimny Sierra	1998 - 2006	160
	Liana	2001 - 2006	
	Mighty Boy	1985 - 1989	200
	Sierra	1981 - 1998	
	Swift	1984 - 1989	
	Swift/Cino	1989 - 1999	150
	Vitara 1.6 & 2.0 V6	1988 - 1998	170
	Vitara/Grand Vitara	1998 - 2005	130
	Wagon R	1997 - 1998	170
	X90	1996 - 1998	
	XL-7	2001 - 2006	
Tata	Safari	2000 - 2004	340
Toyota	4 Runner	1989 - 1997	200

Toyota	Aurion/2GR-FE	2006 - 2007	150
	Avalon	2000 - 2005	250
	Avensis	2001 - 2006	150
	Blizzard	1983 - 1984	200
	Camry SV20, 21, 22, VZV21	1983 - 1993	
	Camry SXV10, VCV10	1993 - 1997	250
	Camry Vienta	1993 - 1997	200
	Camry 20 Series, Vienta	1997 - 2002	240
	Camry 36 Series	2002 - 2006	180
	Celica	1974 - 1999	200
	Celica ZTZ31	1999 - 2005	130
	Coaster	1983 - 2003	500
	Corolla AE/KE series	1974 - 2001	200
	Corolla ZZE122R	2001 - 2006	160
	Corona	1974 - 1987	220
	Cressida	1977 - 1993	
	Crown MS 83, 85 (Single)	1974 - 1981	200
	Crown MS 83, 85 (Dual)		360
	Crown MS112,123 (Single)	1982 - 1988	230
	Crown MS 123 (Dual)		360
	Dyna	1985 - 1993	180
	Echo	1999 - 2005	130
	Hiace (Single)	1982 - 1993	220
	Hiace (Dual)	1982 - 1993	300
	Hiace	1994 - 2006	220
	Hilux	1983 - 1997	200
	Hilux	1997 - 2006	160
	Kluger MCU20R	2003 - 2006	200
	Landcruiser (Single)	1981 - 1989	200
	Landcruiser (Dual)		400
	Landcruiser (Single)	1990 - 1993	270
	Landcruiser (Dual)		400
	Landcruiser 80 Series (Single)	1993 - 1998	250
	Landcruiser 80 Series (Dual)		400
	Landcruiser 80 Series (Dual & ice box)		450
	Landcruiser 100 Series (Single)	1998 - 2006	200
	Landcruiser 100 Series (Dual)		300
	Landcruiser 100 Series (Dual & ice box)		350
	Lexcen	1989 - 1993	330
	Lexcen	1993 - 1997	240
	Liteace/Townace (Single)	1985 - 1998	200
	Liteace/Townace (Dual)		400
	MR2 AW11	1987 - 1993	220
	MR2 SW20	1993 - 1999	200
	MR2 30 Series	2000 - 2006	150
	Paseo EL44	1991 - 1999	200
	Prado (Single)	1996 - 2002	200
	Prado (Dual)		280
	Prado 120 Series (Single)	2003 - 2006	200
	Prado 120 Series (Dual)		240
	Prado 120 Series (Dual & ice box)		270
	Prius	2001 - 2006	140
	RAV4 10 Series	1994 - 2000	200
	RAV4 20 Series	2001 - 2006	150
	Spacia (Single)	1992 - 1998	200
	Spacia (Dual)		300
	Spacia SR40	1998 - 2001	230
	Sprinter AE86	1983 - 1985	200
	Starlet	1996 - 1999	180
	Supra	1986 - 1993	230
	T18	1982 - 1983	200
Tarago (Single)	1982 - 1989	200	
Tarago (Dual)		400	
Tarago (Single)	1990 - 1993	280	
Tarago (Dual)		360	
Tarago AC22R (Single)	1993 - 2000	270	
Tarago AC22R (Dual)		340	

Toyota	Tarago ACR30R (Single)	2000 - 2006	200
	Tarago ACR30R (Dual)		260
	Tercel AL25	1983 - 1988	200
	Yaris	2005 - 2007	100
Triumph	Stag	1972 - 1975	230
	TR7	1979 - 1982	
Volkswagen	Beetle	1998 - 2002	200
	Bora	1999 - 2006	230
	Cabrio	1995 - 2002	200
	Caravelle	1997 - 1998	230
	Caravelle (Single)	1990 - 1993	200
	Caravelle (Dual)		270
	Golf	1980 - 1982	280
	Golf	1990 - 1993	150
	Golf	1994 - 1998	230
	Golf 4th Gen	1998 - 2004	
	Golf 5th Gen	2004 - 2006	160
	Jetta	1998 - 2004	225
	Passat	1980 - 1990	180
	Passat	1991 - 1995	250
	Passat	1995 - 1997	340
	Passat	1997 - 2000	200
	Passat	2001 - 2005	180
	Passat W8	2003 - 2005	160
	Polo	1996 - 2001	250
	Polo	2002 - 2006	160
	Touareg	2003 - 2006	220
	Touareg (Dual)		320
	Transporter	1993 - 2004	280
	Transporter (Denso)	2004 - 2006	240
	Transporter (Sanden)		280
	Vento	1995 - 1997	240
Volvo	240	1975 - 1992	360
	260	1975 - 1978	330
	260	1979 - 1986	450
	360	1984 - 1987	270
	440	1993 - 1997	200
	740	1982 - 1991	360
	760	1989 - 1990	
	850	1993 - 1997	240
	940	1991 - 1992	360
	940	1993 - 1997	260
	960	1991 - 1992	360
	960	1993 - 1998	260
	70/80 series	1999 - 2001	300
	C70	1997 - 1998	220
	S40	1997 - 2004	260
	S40	2004 - 2006	170
	S60	2000 - 2006	300
	S70	1997 - 2000	240
	S80	1998 - 2005	300
	S90	1997 - 1998	250
	V40	1997 - 2004	260
	V50	2004 - 2006	170
	V70	1997 - 2000	240
	V70	2000 - 2006	300
	V90	1994 - 1998	270
	XC70, 90	2003 - 2006	300

110510