



# Selection Guide



[www.centurybatteries.com.au](http://www.centurybatteries.com.au)



Batteries that last and last



## Over 1 million *Australians* choose Century Batteries

Century has been manufacturing batteries in Australia since 1928. In this time, we have developed the engineering expertise and state of the art manufacturing processes to design and produce a range of superior quality batteries better suited to Australia's hotter climate and harsh conditions.

### A PROVEN LEADER FOR STORED ENERGY SOLUTIONS

Century has been at the forefront of battery manufacturing and design for more than 80 years. In this time, we have developed the engineering expertise and state-of-the-art manufacturing processes to produce a range of superior quality, market-leading products and services.

From manufacturing and technical facilities located in Queensland, Century is committed to continue offering a range of products and services that exceed market expectations.

As one of Australia's largest automotive aftermarket suppliers, Century's extensive range suits diverse applications including:

- ✓ Cars
- ✓ 4WD's
- ✓ Deep Cycle
- ✓ Marine
- ✓ Truck and Light Commercial
- ✓ Heavy Equipment
- ✓ Lawn and Garden Equipment
- ✓ Powersports
- ✓ Stationery Power Systems

### THE WORLD RENOWNED GS YUASA

The GS Yuasa Corporation is one of the world's largest battery manufacturers and a leader in quality and innovation. As an affiliate of GS Yuasa, you can be assured that every battery in the Century range has been developed from one of the most advanced technical resources and product ranges in the world.



### AUSTRALIAN MADE

Century batteries are designed and manufactured in Australia to better suit our unique environment. Substantial design enhancements and specialist hard-wearing components deliver what motorists and vehicle owners really want from their battery – longer life and reliability.



### USING THIS GUIDE

This selection guide helps you quickly determine the most suitable battery for your needs and how to get the most from your battery.

Determine your vehicle's manufacturer, type, model and year of make.



Turn to the correct page and select the battery performance type that suits your needs.



Simply find your battery on the battery bay and you're away!



Passenger	Year	Model	Engine	Capacity
1996-00	Yuba 1.8L	NS402LX	NS402LX	NS402LX
1996-00	X00 1.8L	NS402LX	NS402LX	NS402LX
1996-00	Yuba 2.0L V6	NS402LX	NS402LX	NS402LX
1996-00	Yuba Cabrio 2 Door	NS402LX	NS402LX	NS402LX
1996-00	Yuba Grand V6	NS402LX	NS402LX	NS402LX
2005	Yuba Grand	NS402LX	NS402LX	NS402LX
2005-06	Yuba Proton II	NS402LX	NS402LX	NS402LX
2004-06	Yuba HL-7, Yuba HL-7	NS402LX	NS402LX	NS402LX
<b>TOYOTA</b>				
1994-03	4 Runner Diesel	NS70X	NS70X	NS70X
1974-96	4 Runner V6	NS70X	NS70X	NS70X
1987-92	4 Runner Diesel YN80S	NS402S	NS402S	NS402S

### COMPLETE PEACE OF MIND

Century batteries are backed by a fully comprehensive nationwide warranty and supported by one of Australia's most extensive sales and distribution networks. This gives you the reassurance that your Century battery is protected against faulty materials and workmanship for up to 36 months<sup>^</sup>, with over 8,000 re-sellers and distributors on hand to service your battery needs.

<sup>^</sup> Conditions apply. Refer to individual warranty statements attached to each product.

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# We build them tougher. Now we've made them *smarter!*

**Australian conditions create havoc for batteries, attacking critical internal components which can lead to early battery failure.**

Unlike some imported batteries designed for softer overseas climates, Century batteries are designed and built here in Australia for local conditions. Incorporating substantial technical enhancements and advanced design features, Century batteries deliver what Australian motorists really want – longer life and superior performance.

## THE CENTURY ADVANTAGE

- 1 Hybrid Plate Group**  
Improves strength, reduces plate growth and enhances battery life.
- 2 Radial Grid Design**  
Lower electrical resistance for higher starting power and faster recharge.
- 3 Longer Life Plates**  
Thicker cast construction and paste coating of the positive grid to increase battery life.
- 4 Centre Lug**  
Central position for improved current flow and vibration resistance.
- 5 Superior Plate Separation**  
Advanced envelope separator material providing increased puncture resistance and protection from short circuit.



- 6 Built-in Water Indicator**  
On-the-spot diagnosis of the batteries state of charge.
- 7 Hinged Vent Cover**  
Easy access for maintenance to maximise battery life.
- 8 Mud Rack Design**  
Specialist support racks for plates, minimises short circuit and vibration.

## Century's SmartDrive™ technology. Clever enough to *save* you fuel and cut emissions\*

Century batteries that feature the revolutionary SmartDrive™ technology can help reduce fuel consumption and emissions in the latest generation of vehicles.



Suitable for use in petrol, diesel and gas powered vehicles, these environmentally friendly batteries work in conjunction with a vehicles Regulated Charge Control (RCC) system to reduce fuel consumption and cut vehicle emissions by up to 2%.

\*In vehicles fitted with Regulated Charge Control Systems.

## HOW DOES IT WORK?

### Conventional Charging Systems

In conventional charging systems, the battery is in a constant state of charge when the engine is running. This places load on both the alternator and the engine, using more fuel.

### Regulated Charging Systems

In Regulated Charge Control systems, the level of power from the alternator is controlled according to the running conditions and the battery's state of charge.

In normal driving conditions, the charge control system will supply energy from the battery to minimise engine load and reduce fuel consumption.

When the vehicle is decelerating, such as when going down hill or braking, there is less load placed on the engine, allowing the alternator to quickly recharge the battery using a high current flow. The battery's ability to recharge quickly minimises the load on the engine and reduces fuel consumption.

For more information on Century's revolutionary SmartDrive™ technology, visit [www.smartdrivebatteries.com.au](http://www.smartdrivebatteries.com.au).



## BATTERY RECYCLING

As the only Australian battery manufacturer with a dedicated lead acid battery recycling program, Century Yuasa Batteries is committed to protecting and caring for the environment.

If you have a used lead acid battery at work or home, take it to a Century Yuasa Batteries Recycling Centre near you.



To find your nearest Battery Recycling Centre call **1300 650 702** or visit [recyclemybattery.com.au](http://recyclemybattery.com.au)



## WHY RECYCLE?

- 1 Sulphuric Acid**  
Sulphuric acid is converted to sodium sulfate to be used in the manufacture of glass, textiles, laundry detergents and fertilisers.
- 2 Lead**  
Battery plates, inter cell connectors and posts made from lead are melted down in a smelter furnace. The molten lead is then formed into ingots for re-use.
- 3 Polypropylene**  
Battery containers and lids are chipped and sent for recycling into rubbish bins, plant pots etc.



# Product Range

Century's commitment to new product innovation and development ensures we have one of the widest selections of batteries available. This includes maintainable batteries, which can easily be topped up to maximise battery life, and a range of flat top, maintenance free designs suitable for imported vehicles and specialised fitments.



## Ultra Hi Performance

The longer life battery, designed and built tough right here in Australia to better suit our conditions. The Century Ultra Hi Performance range of passenger vehicle batteries leads the industry in terms of design, performance and battery life. Hybrid plate group, advanced grid designs, optimised paste formulations and the latest battery engineering advancements combine to provide longer life, superior performance and ultra reliability.



## Hi Performance

Built tough right here in Australia to deliver dependable performance and reliability in the harshest of environments. Featuring expanded plate designs, advanced paste material, Calcium / Calcium technology and hard wearing internal components, the Century Hi Performance range provides dependable power and performance when it is needed the most.



## SiS Active

A range of advanced starting batteries designed to complement the performance and fuel saving benefits of vehicles fitted with Idle Stop Start systems. Incorporating innovative design features and advanced raw materials to provide the cycling performance needed to cope with frequent discharge and recharge cycles, high charge acceptance for rapid recharge in-between engine off modes and the extra power to run electrics whilst the engine is switched off.



## European & Popular Imports

A range of Heavy Duty batteries designed to meet the performance and specialised fitment needs of European and imported vehicles. Calcium / Calcium technology delivers reliable starting power and dependable performance.



## 4WD Vehicles

A range of 4WD batteries built tough from incredibly strong internal components, thicker battery plates, puncture resistant separators and exclusive Platelock™ adhesives to provide superior vibration and impact resistance. This ensures dependable starting power and extra reserve capacity when it is needed most.



## Truck & Light Commercial

Century Truck and Light Commercial batteries provide the starting power you need and can sustain constant current loads for on-board accessories. Thicker, more durable components provide improved corrosion resistance and longer battery life to deliver what drivers and fleet managers really want – ultra reliability with less down time.



## Heavy Equipment

Manufactured using some of the toughest internal components and materials available in the battery industry, Century Heavy Equipment batteries have the strength and durability to provide superior starting power, enhanced vibration resistance and dependable performance in extreme operating conditions and harsh working environments.



## Marine

The ultimate in marine battery performance, made for boats... just boats. Featuring advanced designs and specialist hardwearing internal components, they deliver superior starting power with reserve capacity in the harshest of marine operating conditions. Thicker battery plates and Century's exclusive Platelock™ technology combine to combat the effects of wave pounding, engine vibration and damage from transportation by trailers.



## Deep Cycle

A comprehensive selection of Flooded, AGM and Gel batteries manufactured from the toughest internal lead components available. Century Deep Cycle batteries incorporate advanced design features to deliver long lasting, dependable power.



## Lawn and Garden

The latest in small engine starting technology, incorporating advanced design features and robust internal components to deliver reliable starting power in constant stop-start applications. Specialist durable battery plates help reduce gassing, water loss and self discharge to enhance battery life.



ITEM NO	BATTERY TYPE	WARRANTY (MONTHS)*	VOLTS	CCA -18°C	RC @ 25°C	NOMINAL OVERALL DIMENSIONS (MM)				POLARITY	TERMINAL TYPE	SPECIAL FEATURES
						L	W	H	TH			
<b>HEAVY DUTY HYBRID AUXILLARY BATTERY</b>				AH								
118100	S46B24R	18	12	45		238	128	200	227	D	SP	AGM
118101	S34B20R	18	12	27		192	123	200	227	D	SP	AGM
<b>SIS ACTIVE - ADVANCED TECHNOLOGY FOR ISS SYSTEMS</b>												
106100	Q85	18	12	650	112	232	173	200	225	C	STD	
106103	S85	18	12	760	127	260	173	200	225	C	STD	
106101	T110	18	12	810	155	303	173	200	225	C	STD	
<b>ULTRA HI PERFORMANCE RANGE</b>												
<b>AUTOMOTIVE</b>												
102102	51	36	12	355	50	238	134	173	200	D	STD	CH, EL, WI, MIA
102103	53	36	12	355	50	238	134	173	200	C	STD	CH, EL, WI, MIA
102100	67	36	12	620	120	231	171	184	208	D	STD	CH, SL, EL, WI, MIA
102105	68	36	12	620	120	231	171	184	208	C	STD	CH, SL, EL, WI, MIA
102106	67EF	36	12	620	120	231	171	184	208	D	STD	CH, WI, MIA
102112	75D23R	36	12	620	120	231	171	201	224	D	STD	CH, WI, MIA
102113	75D23L	36	12	620	120	231	171	201	224	C	STD	CH, WI, MIA
102101	NS40ZSX	36	12	390	60	197	129	201	220	D	STD	CH, WI, MIA
102110	NS40ZLSX	36	12	390	60	197	129	201	220	C	STD	CH, WI, MIA
102108	NS40ZX	36	12	390	60	197	129	201	220	D	SP	CH, WI, MIA
102109	NS40ZLX	36	12	390	60	197	129	201	220	C	SP	CH, WI, MIA
<b>4WD, TRUCK &amp; LIGHT COMMERCIAL</b>												
122103	N70ZZ4WD	24	12	760	185	306	171	201	222	D	STD	CH, WI, VR, PL, MIA
122101	N70ZZL4WD	24	12	760	185	306	171	201	222	C	STD	CH, WI, VR, PL, MIA
122100	N70ZZH	18	12	720	170	306	171	201	222	D	STD	CH, WI, VR, PL, MIA
122106	N70ZZLH	18	12	720	170	306	171	201	222	C	STD	CH, WI, VR, PL, MIA
122102	NS70X	24	12	670	160	260	171	201	222	D	STD	CH, WI, SL, MIA
122108	NS70LX	24	12	670	160	260	171	201	222	C	STD	CH, WI, SL, MIA

ITEM NO	BATTERY TYPE	WARRANTY (MONTHS)*	VOLTS	CCA -18°C	RC @ 25°C	NOMINAL OVERALL DIMENSIONS (MM)				POLARITY	TERMINAL TYPE	SPECIAL FEATURES
						L	W	H	TH			
<b>HI PERFORMANCE RANGE</b>												
<b>AUTOMOTIVE</b>												
101104	41	24	12	325	45	238	134	173	200	D	STD	CH, EL, WI, MIA
101105	43	24	12	325	45	238	134	173	200	C	STD	CH, EL, WI, MIA
101103	57	24	12	540	100	231	171	184	208	D	STD	CH, EL, SL, WI, MIA
101107	58	24	12	540	100	231	171	184	208	C	STD	CH, EL, SL, WI, MIA
101110	57EF	24	12	540	100	231	171	184	208	D	STD	CH, WI, MIA
101111	58EB	24	12	540	100	231	171	184	208	C	STD	CH, WI, MIA
101109	55D23R	24	12	540	100	231	171	201	225	D	STD	CH, WI, MIA
101100	55D23L	24	12	540	100	231	171	201	225	C	STD	CH, WI, MIA
101131	NS40ZS	24	12	330	55	197	129	201	220	D	STD	CH, WI, MIA
101130	NS40ZLS	24	12	330	55	197	129	201	220	C	STD	CH, WI, MIA
101129	NS40Z	24	12	330	55	197	129	201	220	D	SP	CH, WI, MIA
101101	NS40ZL	24	12	330	55	197	129	201	220	C	SP	CH, WI, MIA
101117	NS60	24	12	430	75	234	129	201	220	D	SP	CH, WI, MIA
101118	NS60L	24	12	430	75	234	129	201	220	C	SP	CH, WI, MIA
101102	NS60S	24	12	430	75	234	129	201	220	D	STD	CH, WI, MIA
101119	NS60LS	24	12	430	75	234	129	201	220	C	STD	CH, WI, MIA
<b>4WD, TRUCK &amp; LIGHT COMMERCIAL</b>												
121100	N70ZZ	12	12	720	160	306	171	201	222	D	STD	CH, WI, MIA
121103	N70ZZL	12	12	720	160	306	171	201	222	C	STD	CH, WI, MIA
121101	NS70	24	12	610	140	260	171	201	222	D	STD	CH, WI, SL, MIA
121105	NS70L	24	12	610	140	260	171	201	222	C	STD	CH, WI, SL, MIA
<b>HEAVY DUTY AUTOMOTIVE</b>												
100102	46	24	12	420	75	238	172	185	210	D	STD	CH, EL, SL, MIA
100101	47	24	12	420	75	238	172	185	210	C	STD	CH, EL, SL, MIA
<b>HEAVY DUTY AUTOMOTIVE POPULAR IMPORTS</b>												
101128	48R	12	12	495	85	238	181	150	184	D	STD	EL, SL

ITEM NO	BATTERY TYPE	WARRANTY (MONTHS)*	VOLTS	CCA -18°C	RC @ 25°C	NOMINAL OVERALL DIMENSIONS (MM)				POLARITY	TERMINAL TYPE	SPECIAL FEATURES
						L	W	H	TH			
101127	48L	12	12	495	85	238	181	150	184	C	STD	EL, SL
101121	N65D	12	12	750	110	285	185	170	190	D	STD	CH, SL
101126	O3	12	6	270	80	184	167	163	186	A	STD	SL
101125	50D20R	12	12	430	70	200	175	200	220	D	STD	CH
105116	50D20RMF	24	12	450	85	202	173	200	225	D	STD	SL, WI, CH
101124	50D20L	12	12	430	70	200	175	200	220	C	STD	
105115	50D20LMF	24	12	450	85	202	173	200	225	C	STD	SL, WI, CH
115110	M96-12MF	24	12	340	52	211	175	175	175	C	STD	RP, EL, SL, WI
115100	DIN44LMF	24	12	370	70	208	175	175	175	C	STD	CH, RP, EL, SL, CV, WI
115101	DIN53LMF	24	12	500	90	242	175	175	175	C	STD	CH, RP, EL, SL, CV, WI
115102	DIN53LHMF	24	12	500	90	242	175	190	190	C	STD	CH, RP, EL, SL, CV, WI
115103	DIN53RMF	24	12	500	90	242	175	175	175	D	STD	CH, RP, EL, SL, CV, WI
115104	DIN65LMF	24	12	580	110	277	175	175	175	C	STD	CH, RP, EL, SL, CV, WI
115105	DIN65LHMF	24	12	580	120	277	175	190	190	C	STD	CH, RP, EL, SL, CV, WI
111102	DIN65LH	24	12	660	130	277	175	190	190	C	STD	CH, RP, EL, SL, WI, MIA
115106	DIN65RMF	24	12	580	120	277	175	175	178	D	STD	CH, RP, EL, SL, CV, WI
111103	DIN65RH	24	12	660	130	275	175	190	190	D	STD	CH, RP, EL, SL, WI, MIA
115107	DIN75LMF	24	12	730	135	315	175	175	175	C	STD	CH, RP, EL, SL, CV, WI
115111	DIN75RHMF	24	12	910	180	315	175	190	190	D	STD	CH, RP, EL, SL, CV, WI
115113	DIN75LHMF	24	12	910	180	315	175	190	190	C	STD	CH, RP, EL, SL, CV, WI
115108	DIN85LMF	24	12	780	158	353	175	175	175	C	STD	CH, RP, EL, SL, CV, WI
115109	DIN92LMF	24	12	735	165	353	175	190	190	C	STD	CH, RP, EL, SL, CV, WI
<b>HEAVY EQUIPMENT</b>												
121106	26	12	6	770	260	305	175	200	220	A	STD	CH, VR
120100	86	12	12	670	160	348	170	210	238	C	STD	CH, PL, MIA
125100	86MF	12	12	830	180	330	170	217	238	C	STD	CH, WI
120102	86Z	12	12	720	180	348	170	210	238	C	STD	CH, PL, MIA
125101	86ZMF	12	12	870	180	330	170	217	238	H	STD	CH, WI
125102	86ZTMF	12	12	870	180	330	170	217	238	H	TH	CH, HN, WI
120101	87	12	12	670	160	348	170	210	238	D	STD	CH, PL, MIA

\* Conditions apply. Refer to individual warranty statements attached to each battery.

ITEM NO	BATTERY TYPE	WARRANTY (MONTHS)*	VOLTS	CCA -18°C	RC @ 25°C	NOMINAL OVERALL DIMENSIONS (MM)				POLARITY	TERMINAL TYPE	SPECIAL FEATURES
						L	W	H	TH			
121121	89	12	12	680	210	345	175	262	285	C	STD	CH, VR
121111	94 Squat	12	12	890	255	506	206	180	203	E	STD	CH, GM
125103	N100MF	12	12	740	182	405	175	210	235	D	STD	CH, GM, WI
125115	N100LMF	12	12	740	182	405	175	210	235	C	STD	CH, GM, WI
125104	N120MF	12	12	900	230	505	180	210	240	F	STD	CH, GM, WI
125105	N150MF	12	12	1000	300	500	220	210	235	F	STD	CH, GM, WI
125116	N150LMF	12	12	1000	300	500	220	210	235	E	STD	CH, GM, WI
125106	N200MF	12	12	1200	430	520	275	220	240	F	STD	CH, GM, WI
121107	N120	12	12	700	230	500	175	210	235	F	STD	
121108	N150	12	12	800	270	500	220	210	235	F	STD	
121109	N200	12	12	1000	380	515	275	215	240	F	STD	
121112	4D-N150Z	12	12	950	300	528	214	224	246	F	STD	CH, GM, PL
121113	8D-N200Z	12	12	1200	430	528	277	224	246	F	STD	CH, GM, PL
125111	8DMF 1200	12	12	1200	430	500	270	215	245	F	STD	CH, GM, PL
<b>MARINE PRO</b>												
131110	D23RM (MP580)	24	12	580	105	231	171	202	225	D	STD, WN	CH, PL, WI, MIA
131109	NS70M (MP620)	24	12	620	155	260	171	202	225	D	STD, WN	CH, SL, PL, WI, MIA
135101	NS70MMF	24	12	500	86	260	174	205	225	D	STD, WN	CH, SL, WI
135100	N70ZMMF	24	12	640	110	302	171	200	225	D	STD, WN	CH, SL, EL, WI
131108	N70ZM (MP730)^	24	12	730	180	306	171	202	225	D	STD, WN	CH, PL, WI, MIA
131107	N150M	12	12	950	300	528	214	224	246	F	STD	CH, GM, PL
131106	N200M	12	12	1200	430	528	277	224	246	F	STD	CH, GM, PL
<b>MARINE PRO HD</b>												
141110	C30HH	12	12	680	200	330	173	216	240	D	STD / WN	
<b>DEEP CYCLE FLOODED</b>												
141114	12A	6	6	105		227	173	184	205	A	STD	GM
141115	43T	6	12	40		230	133	199	215	C	DF	CH, GM
141119	D23RT	6	12	65		231	171	202	225	D	STD, WN	CH, PL, WI, MIA

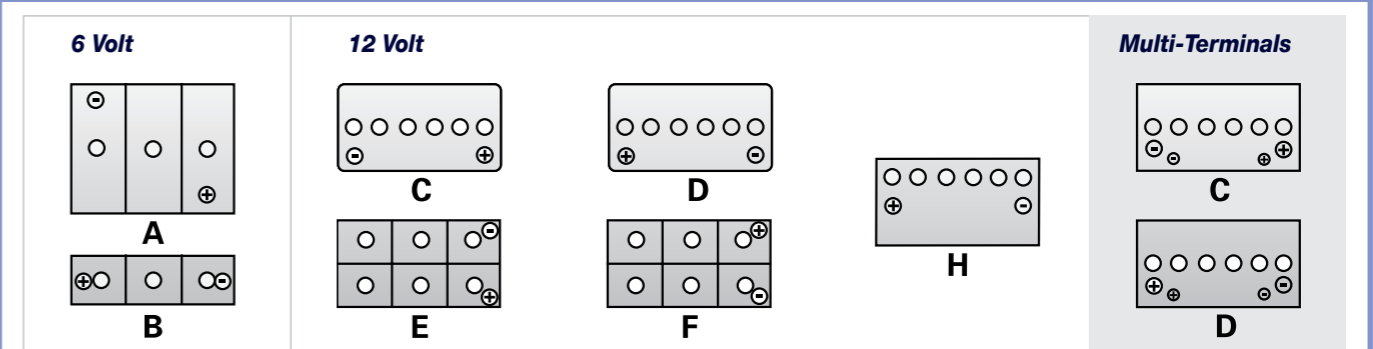
^100Ah @ 20hr rate. \* Conditions apply. Refer to individual warranty statements attached to each battery.

ITEM NO	BATTERY TYPE	WARRANTY (MONTHS)*	VOLTS	AH @20hr	NOMINAL OVERALL DIMENSIONS (MM)				POLARITY	TERMINAL TYPE	SPECIAL FEATURES	
					L	W	H	TH				
141120	D23LT	6	12	65	231	171	202	225	C	STD, WN	CH, PL, WI, MIA	
141118	NS70T	6	12	75	260	171	202	222	D	STD, WN	CH, PL, WI, MIA	
141121	N70T	6	12	100	306	171	202	222	D	STD, WN	CH, PL, WI, MIA	
145105	N70TMF	6	12	85	302	172	232	225	D	STD, WN	CH, GM	
141105	86T	6	12	85	347	172	212	232	C	STD	CH, GM, VR	
141116	89T	6	12	125	345	175	260	285	C	STD	CH, GM	
<b>DEEP CYCLE INDUSTRIAL</b>												
141113	8VGC	12	8	170	264	181	245	276	D	HN		
141111	C105	12	6	225	264	181	245	276	A	HN		
141112	C145	12	6	260	264	181	264	295	A	HN		
141117	C1275	12	12	150	329	181	245	276	C	HN		
<b>DEEP CYCLE AGM</b>												
148108	C12-32DA	12	12	26	166	175	125	125	C	M5 BOLT INSERT	GM	
148102	C12-55DA	12	12	57	229	138	210	235	D	M6 BOLT INSERT	CH, GM	
148103	C12-75DA	12	12	75	260	169	210	235	D	M6 BOLT INSERT	CH, GM	
148100	C12-105DA	12	12	105	307	169	210	235	D	M8 BOLT INSERT	CH, GM	
148101	C12-120DA	12	12	120	328	172	222	222	D	M8 BOLT INSERT	CH, GM	
148104	C12-125DA	12	12	125	407	177	225	225	D	M8 BOLT INSERT	CH, GM	
148105	C12-140DA	12	12	140	340	173	280	285	D	M8 BOLT INSERT	CH, GM	
148106	C12-165DA	12	12	165	530	209	214	219	F	M8 BOLT INSERT	CH, GM	
148107	C12-270DA	12	12	270	520	268	220	225	F	M8 BOLT INSERT	CH, GM	
<b>DEEP CYCLE GEL</b>												
142102	C12-40DG	12	12	37	198	166	171	171	C	M6 BOLT INSERT	CH	
142101	C12-75DG	12	12	70	260	169	210	235	D	M6 BOLT INSERT	CH	
<b>LAWN &amp; GARDEN</b>												
				CCA -18°C	RC @ 25°C							
160102	U1MF	12	12	300	45	195	125	155	182	D	LUG	CH
160103	U1RMF	12	12	300	45	195	125	155	182	C	LUG	CH
160101	12N24-4	12	12	240	35	185	125	160	180	D	STD	
160100	12N24-3	12	12	240	35	185	125	160	180	C	STD	

\* Conditions apply. Refer to individual warranty statements attached to each battery.

ITEM NO	BATTERY TYPE	WARRANTY (MONTHS)*	VOLTS	CCA -18°C	RC @ 25°C	NOMINAL OVERALL DIMENSIONS (MM)				POLARITY	TERMINAL TYPE	SPECIAL FEATURES
						L	W	H	TH			
<b>AUTOMOTIVE MAINTENANCE FREE</b>												
105101	57MF	24	12	530	95	231	169	183	203	D	STD	CH, EL, SL, WI
105105	57EFMF	24	12	530	95	235	165	185	205	D	STD	CH, WI
105102	58MF	24	12	530	95	231	169	183	203	C	DF	CH, EL, SL, WI
105106	58VTMF	24	12	530	95	240	174	183	205	C	STD	CH, EL, SL, WI
105114	55D23LBMF	21	12	530	100	230	173	200	225	C	STD	CH, EL, SL, WI
105104	55D23RMF	24	12	500	100	228	173	200	225	D	STD	CH, WI
105107	NS40ZLMF	24	12	330	50	185	122	202	225	C	SP	CH, WI
105108	NS40ZLSMF	24	12	330	50	185	122	202	225	C	STD	CH, WI
105111	NS60LMF	24	12	430	80	235	125	201	225	C	SP	CH, WI
105112	NS60LSMF	24	12	430	80	235	125	201	225	C	STD	CH, WI
105109	NS60MF	24	12	430	80	235	125	201	225	D	SP	CH, WI
105113	NS60SMF	24	12	430	80	235	125	201	225	D	STD	CH, WI
<b>TRUCK &amp; LIGHT COMMERCIAL MAINTENANCE FREE</b>												
125109	NS70MF	24	12	600	130	260	175	205	225	D	STD	CH, SL, WI
125114	NS70LBMF	24	12	630	135	260	175	200	225	C	STD	CH, SL, EL, WI
125113	N70ZZBMF	12	12	700	150	300	170	200	225	D	STD	CH, SL, WI
125112	N70ZZLBMF	12	12	700	150	300	170	200	225	C	STD	CH, SL, WI

Battery Polarity and Special Features Australian Standard Specifications as shown AS 2149



AGM	Absorbed Glass Mat	GM	Glass Mat Separator	PL	Platelock Construction	STD	Standard Terminal Post
CH	Carry Handles	HN	Hex Nut	RP	Recessed Terminal Post	TH	Threaded
CV	Central Vent	LUG	Lug Terminal	SL	Side Ledge	VR	Vibration Resistance
DF	Dual Fit Terminal Post	MIA	Made in Australia	SP	Small Terminal Post	WI	Water Indicator
EL	End Ledge	MT	Multi Terminal	SR	Side Recess	WN	Wing Nut Terminal

\* Conditions apply. Refer to individual warranty statements attached to each battery.

CENTURY			JIS	BCI	BESCO	SUPER CHARGE	EXIDE	AC DELCO
ULTRA HI PERFORMANCE	HI PERFORMANCE	HEAVY DUTY						
<b>AUTOMOTIVE</b>								
51	41			51R	41	MF43 / SMF43	X60D / 43D	
53	43			51	43	MF43 / SMF43	X60C / 43C	
67	57"	46		22F	57"	MF50 / SMF57 / NS50P	X56D / 52D / LM51D	S85B60R / 22FR530SMF / 22FR66WC
68	58"	47		25	58	MF51 / SMF58 / NS50PLX	X56C / 53C / LM51C	22F530SMFDF / 22F66WC
67EF	57EF"			22F	57EF	MF51 / SMF58 / NS50PLX	54D	AU22R530SMF / AU22R66WC
	58EB*			25	58EB	NS50PL	52C	AU22530SMFDF / AU2266WC
		58VTMF		25	58VTMF	MF53 / SMF58VT	54C	22F530SMF / S85B60L / 22F66WC
75D23R	55D23R"		55D23R		55D23R"	MF75D23R / SMF75D23R / NS5D23R	X55D23D / 55D23D	S70D23R / S55D23R / 55D23RWC
75D23L	55D23L"		55D23L		55D23L"	MF75D23L / SMF75D23L / NS5D23L	X55D23C / 55D23C	S70D23L / S55D23L / 55D23LWC
NS40ZSX	NS40ZS		44B20RS / 38B20RS		NS40ZS"	MF40B20L / SMFNS40ZLX / NS40ZAL	X40D / 40D	S40B20RS / NS40ZSWC
NS40ZLSX	NS40ZLS"		44B20LS / 38B20LS		NS40ZLS"	MF40B20L / SMFNS40ZLX / NS40ZAL	X40C / 40C	S40B20LS / NS40ZLWC
NS40ZX	NS40Z		44B20R / 38B20R		NS40Z	MF40B20L / SMFNS40ZLX / NS40ZAL	X40DP / 40DP	S40B20R / NS40ZWC
NS40ZLX	NS40ZL		44B20L / 38B20L		NS40ZL"	MF40B20L / SMFNS40ZLX / NS40ZAL	X40CP / 40CP	S40B20L / NS40ZLWC
	NS60"		55B24R		NS60"	MF55B24R		S55B24R
	NS60L"		55B24L		NS60L"	MF55B24L		S55B24L
	NS60S"		55B24RS		NS60S"	MF55B24RS / SMFNS60RS		S55B24RS
	NS60LS"		55B24LS		NS60LS"	MF55B24LS / SMFNS60LS		S55B24LS
<b>4WD, TRUCK &amp; LIGHT COMMERCIAL</b>								
N70ZZ4WD	N70ZZ"		115D31R / 95D31R		N70ZZ"	MF96D31R / N70ZZ	N70EX / N70ZZ	S75D31R / S95D31RHD / NX1207WC
N70ZZL4WD	N70ZZL"		115D31L / 95D31L		N70ZZL"	MF95D31L / N70ZZL	N70EXL / N70ZZL	S75D31L / S95D31LHD / NX1207LWC
N70ZZH	N70ZZ"		115D31R / 95D31R		N70ZZ"	MF96D31R / N70ZZ	N70EX / N70ZZ	S75D31R / S95D31RHD / NX1207WC
N70ZZLH	N70ZZL"		115D31L / 95D31L		N70ZZL"	MF95D31L / N70ZZL	N70EXL / N70ZZL	S75D31L / S95D31LHD / NX1207LWC
NS70X	NS70"		90D26R / 80D26R		NS70"	MF80D26R / SMFNS70X / NS70	N50EX / N50ZZ	S55D26R / S80D26R / NX1105WC
NS70LX	NS70L"		90D26L / 80D26L		NS70L	MF80D26L / SMFNS70LX / NS70L	N50ZZL / N50ZZLMF	S55D26L / S80D26L / NX1105LWC
<b>AUTOMOTIVE POPULAR IMPORTS</b>								
		48R			48R	MF58R	58D	

CENTURY			JIS	BCI	BESCO	SUPER CHARGE	EXIDE	AC DELCO
ULTRA HI PERFORMANCE	HI PERFORMANCE	HEAVY DUTY						
		48L			48L	MF58	58C	
		N65D		65	N65D	MF65	65D	
		03			03	N03		
		50D20R	50D20R		50D20R	MF50D20L		
		50D20L	50D20L		50D20L	MF50D20L	50D20L	
		M96-12MF			M96-12MF	MF44		S54316
		DIN44LMF			DIN44LMF	MF44	DIN44	
		DIN53LMF			DIN53LMF	MF55R	DIN55	S55457 / 55457WC
		DIN53LHMF			DIN53LHMF	MF55H	55H	S55565
		DIN53RMF			DIN53RMF	MF55R	DIN55D	S55548
		DIN65LMF			DIN65LMF	MF66 / SMF65L	DIN66	S56318 / 56820 / 56330WC
		DIN65LH			DIN65LH	MF66H	66H	S56639
		DIN65RMF			DIN65RMF	MF66R	DIN66D	S56638
		DIN65RH			DIN65RH	MF66H	66H	S56639
		DIN75LMF			DIN75LMF	MF77	DIN77	S56640
		DIN85LMF			DIN85LMF	MF88	DIN88	S58515 / 58827WC
		DIN92LMF			DIN92LMF	MF88H		S58828
<b>CENTURY</b>			<b>JIS</b>	<b>BCI</b>	<b>BESCO</b>	<b>SUPER CHARGE</b>	<b>EXIDE</b>	<b>AC DELCO</b>
<b>HEAVY EQUIPMENT</b>								
		26			26	N25	26B	
		86"		31	86"	N86LZ	86BX	S111 / S1151 / S3190MF
		86Z		31	86Z	N86LZ	86AX	S111 / S1151 / S3190MF
		86ZMF			86ZMF	MF31-931	86AX	S31901MF
		86ZTMF			86ZTMF	SMF86Z	31-950C	S31900MF
		87		31	87	N87LZ	86AX	S111 / S1151 / S3190MF
		89			89	N89T		
		94 Squat			94 Squat	MFN94 / SMFN94 / N94P	94B	
		N100MF			N100MF	N100	N100 / N100DMF	SN100
		N120"			N120"	MFN120 / SMFN120 / N120P	N120 / N120MF	SN120 / N120WC
		N150"			N150"	MFN150 / SMFN150 / N150P	N150 / N150MF	SN150 / N150WC
		N200"			N200"	MFN200 / SMFN200 / N200P	N200 / N200MF	SN200 / N200WC



CENTURY	JIS	BCI	BESCO	SUPER CHARGE	EXIDE	AC DELCO
4D-N150Z			4D-N150Z	MFN150 / SMFN150 / N150P		
8D-N200Z			8D-N200Z	MFN200 / SMFN200 / N200P		
8DMF1200			8DMF1200	MFN200 / SMFN200 / N200P		
CENTURY	JIS	BCI	BESCO	SUPER CHARGE	EXIDE	AC DELCO
MARINE PRO						
D23RM		25	57M	MFM48	MSST22 / MS450	
NS70M <sup>11</sup>		24	NS70M <sup>11</sup>	MFM50	MSST24 / MSDP24 / NG-24	M27SMF730
N70ZM <sup>11</sup>		27	N70ZM <sup>11</sup>	M70 / MFM70	MSST31 / MSDP27 / NG-27	M31SMF830
N150M			N150M		N150 / N150MF	
N200M			N200M		N200 / N200MF	
MARINE PRO HD						
C30HH		31		MFM87	MSDP31	
DEEP CYCLE FLOODED						
12A			12A		ED1	
43T		22NF	43T			
D23RT		25	46T	D48 / MRV48	ED4R	
D23LT		35	47T	MRV48	ED4	
NS70T	72D26R	24	NS70T	D50Z / MRV50	ED5 / DC12V80	
N70T <sup>11</sup>	65D31R	27	N70T <sup>11</sup>	D70Z / MRV70	DC12V105 / ST27DC95	DCM27SMF / DCM27LSMF
86T		31	86T	D87L / MRV87	ED6	
89T			89T		ED7	
DEEP CYCLE INDUSTRIAL						
8VGC				GC2-8V	DC8V150	
C105				GC2-6V	DC6V225	
C145					DC6V245	
DEEP CYCLE AGM						
C12-75DA					FP-AGM24DP	
C12-105DA					MSDC27 / ST27DC105	
C12-120DA					MSDC31	
DEEP CYCLE GEL						
C12-40DG					G40	
C12-75DG					G85	
LAWN & GARDEN						
U1MF		U1		U1 / MFU1		
U1RMF		U1R		U1R / MFU1R		
12N24-4				U1 / MFU1		
12N24-3				U1R / MFU1R		



## Advanced Technology for Idle Stop Start Systems

Century 'SiS ACTIVE' batteries have been specially designed to satisfy the requirements of vehicles fitted with ISS systems. They incorporate innovative design features and advanced raw materials to provide cycling performance to cope with frequent discharge and recharge cycles, high charge acceptance for rapid recharge requirements in-between engine off modes and the extra power to run on board electrics whilst the engine is switched off.



Century 'SiS ACTIVE' batteries are specially designed for use in ISS systems and feature industry leading design features to ensure superior performance and maximum fuel saving.

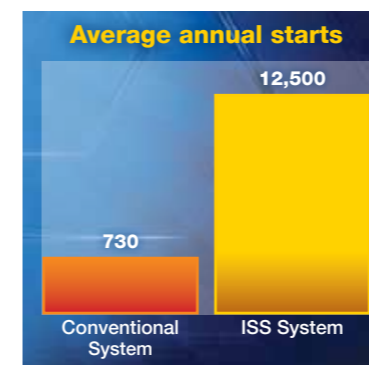


- ✓ Thicker Battery Plates
- ✓ High Density Active Materials
- ✓ Superior Negative Plate Additives
- ✓ Highly Durable Grids
- ✓ Enhanced Cycling Capability
- ✓ Improved Charge Acceptance

### What are Idle Stop Start Systems?

Vehicles fitted with Idle Stop Start (ISS) systems are often referred to as mild or micro hybrids and have been developed by vehicle manufacturers to improve vehicle fuel efficiency and reduce emissions in line with environmental regulations.

An ISS System works in some situations by shutting off the engine when the vehicle stops, is idling or when the brake is applied. Once the accelerator is depressed the engine restarts enabling the vehicle to be driven. By shutting off the vehicle's engine, the ISS system eliminates the amount of fuel that would otherwise have been used, thus reducing emissions and fuel consumption.



Conventional System	ISS System
Starts vehicle approx 2 times a day	Starts vehicle every 1 to 2 kilometres
Maintains battery in a close to full state of charge	Battery operates in partial state of charge
Accessories draw from a fully charged battery	Accessories draw from battery when engine is off
Recharges battery using alternator over duration of journey	Rapidly recharges battery in-between engine on/off cycles



MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>ALFA ROMEO</b>				
1994-on	145, 146	DIN65LMF		
2004-on	147 1.9 Ltr. JT	DIN53LHMF		
2004-on	147 2.0 Ltr. TS, 147 3.2 Ltr. GTA	DIN53LMF		
2001-04	147 2.0 Ltr. Twin Spark	DIN53LMF		
2001-06	147 GTA	DIN53LMF		
2007-08	147 1.9 Ltr. GTA Diesel	DIN53LMF		
1992-on	155 1.7 Ltr., 1.8 Ltr, 2.0 Ltr., V6	DIN53LMF		
2007-on	156 1.9 Ltr. JTD	DIN75LMF		
2004-on	156 2.0 Ltr. JTS / Salsespeed	DIN53LMF		
2007-on	156 2.0 Ltr., 2.2 Ltr. Manual, 2.4 Ltr. JTD, 3.2 Ltr. V6	DIN75LMF		
2000-03	156 Twin Spark	DIN53LMF		
2006-on	159 3.2 Ltr. JTD, 159 Diesel	DIN75LMF		
1988-on	164 Diesel	DIN85LMF		
1989-99	164 GTV	DIN53LMF		
1989-95	164 GTV6	DIN65LH		
1988-on	164 Petrol 1.8 Ltr., 2.0 Ltr., 164 V6 Turbo	DIN65LMF		
2000-on	166	DIN65LMF		
2001-on	166 3.0 Ltr. V6 24V Turbo	DIN85LMF		
1990-on	33, IE, 1.3 Ltr., 1.5 Ltr., 1.7 Ltr., Giulietta 1.8 Ltr.	DIN53LMF		
1987-89	33 TI, QV, QV Sportswagon	DIN53LMF		
1985-on	Alfa 75, 75TS, 75 V6, 90	DIN65LMF		
1974-92	Alfasud (All Models), Alfetta, Giulietta, Sprint	DIN44LMF		
2006-2007	Brera Spyder, 2.2 Ltr. Manual, Brera V6, Brera Automatic	DIN75LMF		
2004-09	GT 2.0 Ltr.	DIN65LMF		
2008	GT Blackline	DIN65LMF		
1998-on	GTV 2.0 Ltr., 3.0 Ltr. V6, 3.2 Ltr. V6	DIN65LMF		
1990-99	GTV	DIN53LMF		
2004	GTV V6	DIN65LMF		
2011-on	Giulietta 1.8 Ltr. GDI MultiAir	DIN53LHMF		
2009-on	Mito	DIN65LMF		
2011-on	Mito QV, Mito CTC	DIN53LHMF		
1988-97	Twin Spark 2.0 Ltr., 2.5 Ltr. V6, 3.0 Ltr. V6	DIN44LMF		
1992-00	Spyder	DIN65LMF		
2000-on	Spyder Twin Spark 2.0 Ltr., 3.0 Ltr., 3.2 Ltr. V6 24V	DIN53LMF		
2006-on	Spyder	DIN75LMF		
1977-87	Sprint Coupe, Sprint Veloce	DIN53LMF		
1982-on	Sportiva	DIN65LMF		
1990-92	Zagatto Coupe SZ	DIN53LMF		
1993-on	Zagatto Spyder RZ	DIN65LMF		
<b>ASIA</b>				
1994-on	Ceres Diesel	N70ZZ4WD	N70ZZ"	
1992-93	Ceres Rocsta	68	58"	47
1994-on	Rocsta	75D23L	55D23L"	
<b>ASTON MARTIN</b>				
1995-05	DB7	DIN85LMF		

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2001-05	Vanquish	DIN85LMF		
1957-87	All Models	N70ZZ4WD	N70ZZ"	
<b>AUDI</b>				
1979-on	5+5	DIN65LMF		
1994-on	80 4 Cyl., 6 Cyl.	DIN65LMF	DIN53LMF	
1990-on	80 2.0 Ltr. E, 2.3 Ltr. E	DIN65LMF		
1967-73	Super 90, 100LS	68	58"	47
1990-on	80 2.8 Ltr. E	DIN65LMF		
1994-on	100 6 Cyl.	DIN65LMF		
1974-89	100CD	DIN53LMF		
1982-91	Estate 100, Estate 200 Turbo	DIN53LMF		
1974-89	Fox 80, 80S, 80 Quattro, 80GL, 80GLS	DIN53LMF		
1974-89	Fox 90 Series, Fox 100GL, Fox LS, Fox 200T, Fox SE	DIN53LMF		
1984-on	701	DIN65LMF		
2011-on	A1, A1 Sportback (Non ISS)	DIN53LMF		
1997-98	A3	DIN53LMF		
2004-2009	A3 1.4 Ltr.	DIN53LMF		
2001 - on	A3 1.6 Ltr.	DIN53LMF	DIN44LMF	
2004-09	A3 1.6 Ltr. Cabriolet, Hatchback, Sportback	DIN53LMF		
2001 - on	A3 1.8 Ltr.	DIN53LMF	DIN44LMF	
2006-07	A3 1.8 Ltr. TFSI Cabriolet	DIN65LMF		
2004-2009	A3 1.8 Ltr. TFSI Sportback	DIN53LMF		
2004-09	A3 1.9 Ltr. TDI Sportback	DIN65LMF		
2006-07	A3 2.0 Ltr. TFSI Cabriolet	DIN65LMF		
2004-09	A3 2.0 Ltr. TDI Sportback	DIN65LMF		
2004-09	A3 2.0 Ltr. TFSI Quattro Sportback	DIN53LMF		
2006-07	A3 Cabriolet S Line Sports	DIN75LMF		
2009-on	S3 2.0 Ltr. TFSI Sportback	DIN65LMF		
2006-09	A4 1.8 Ltr. TFSI Cabriolet	DIN75LMF		
2005-09	A4 1.8 Ltr. TFSI	DIN75LMF		
1995-05	A4 1.8 Ltr. T, 1.8 Ltr. Turbo, 1.8 Ltr. Avant	DIN53LMF		
2002-04	A4 1.8 Ltr. T Quattro	DIN75LMF		
1997-02	A4 1.8 Ltr. T Avant Quattro	DIN75LMF		
2005-09	A4 2.0 Ltr. TFSI, 2.0 Ltr. TDI Quattro, 2.0 Ltr. TFSI Quattro, 2.0 Ltr. TFSI Cabriolet	DIN75LMF		
1996	A4 2.6 Ltr. V6 Sedan	DIN65LMF		
2008-09	A4 2.7 Ltr. TDI V6	DIN92LMF		
2005-07	A4 2.7 Ltr. TDI V6	DIN75LMF		
2005-07	A4 3.0 Ltr. TDI Quattro V6	DIN75LMF		
2008-09	A4 3.0 Ltr. TDI Quattro V6	DIN92LMF		
2008-09	A4 3.2 Ltr. FSI Quattro V6	DIN92LMF		
2005-07	A4 3.2 Ltr. FSI Quattro V6	DIN75LMF		
1993-on	S4	DIN53LMF		
2008-09	S4 Sedan 3.0 Ltr. TFSI Quattro V6	DIN92LMF		





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2005-07	S4 Sedan 3.0 Ltr. TFSI Quattro V6	DIN75LMF		
2007-09	S5 4.2 Ltr. FSI Quattro V8 Coupe	DIN92LMF		
2003-09	A6	DIN85LMF		
2005-09	A6 2.0 Ltr. TD, 2.7 TDI V6, 2.0 Ltr. TFSI, 2.8FSI Quattro V6, 3.0 Ltr. TFSI Quattro V6, A6 All Road 3L TDI Quattro	DIN92LMF		
2006-09	S6 5.2 Ltr. FSI V10 Quattro	DIN92LMF		
2006	S6, S6 Avant	DIN65LMF		
2006-09	RS6 5.0 Ltr. TFSI V10 Quatro	DIN92LMF		
1996-on	A8	DIN85LMF		
2003-09	A8 3.2 Ltr. FSI Quattro V6, 4.2 Ltr. FSI Quattro V8, 4.2 Ltr. TDI Quattro V8	DIN92LMF		
2003-09	A8L 3.0 Ltr. TDI Quattro V6, 4.2 Ltr. FSI Quattro V8, 6.0 Ltr. W12 Quattro	DIN92LMF		
2003-09	S8 5.2 Ltr. FSI QuattroV10	DIN92LMF		
2000-on	S8 4.2 Ltr.	DIN85LMF		
2007-09	R8 4.2 Ltr. FSI V8 Quattro	DIN92LMF		
1990-on	Quattro V8 Sedan	DIN65LMF		
2011-on	Q3 Diesel	DIN85LMF		
2008-09	Q5 2.0 Ltr. TDI, 2.0 Ltr. TFSI	DIN65LH		
2008-09	Q5 3.2 Ltr. FSI V6, 3.0 Ltr. TDI V6	DIN92LMF		
2006-09	Q7 3.6 Ltr. FSI SE V6, 3.6 Ltr. FSI V6, 4.2 Ltr. FSI V8, 3.0 Ltr. TDI V6, 4.2 Ltr. TDI V8	DIN92LMF		
2003-on	Allroad AWD	DIN85LMF		
2000-06	TT Coupe, Roadster	DIN65LMF		
1999-06	TT Coupe Quattro	DIN53LMF		
2006-09	TT Coupe 1.8 Ltr. TFSI, 2.0 Ltr. TFSI, 2.0 Ltr. TFSI Quattro ^	DIN65LMF		
1999-06	TT Coupe 1.8 Ltr. TFSI	DIN53LMF		
2006-09	TT Coupe 2.0 Ltr. TDI	DIN65LMF		
1999-06	TT Coupe 2.0 Ltr. TFSI Quattro	DIN53LMF		
2006-09	TT Coupe 3.2 Ltr. Quattro V6	DIN75LMF		
2006-09	TT Roadster 2.0 Ltr. TFSI, 3.2 Ltr. FSI Quattro V6^*	DIN75LMF		
2006-09	TTS Coupe 2.0 Ltr. TFSI^*	DIN75LMF		
1999-06	TTS Roadster 2.0 Ltr. TFSI^*	DIN53LMF		
2006-09	TTS Roadster 2.0 Ltr. TFSI^*	DIN75LMF		
<b>BEDFORD</b>				
1969-on	CAL Van Series, CF250, CFS, CFL Series, HRE, HAV, Handivan	68	58"	
1969-on	CF250	68	58"	
1969-on	CFS, CFL Series, HRE, HAV, Handivan	67	57"	
<b>BMW</b>				
2005-on	118i, 120i	DIN65LMF		
1967-75	2000, 2002	DIN53LMF		
1968-78	2500, 2800 3.0 Ltr., 2800 3.3 Ltr.	DIN65LMF	DIN53LMF	
1991-on	3 series	DIN65LMF		
2001-on	316i	M96-12MF		
1976-94	318 4 Cyl., 320 4 Cyl. (under bonnet)	DIN53LMF		
2001-on	318i, 325	DIN53LMF		
2000-05	318 (E46)	DIN53LHMF		
1970-on	320	DIN53LMF		

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1994-95	325i	DIN53LMF		
2006-on	325i	DIN65LH		
1997-01	328 series E36	DIN65LH		
2000-on	330 series E46	DIN65LMF		
2006-on	335i	DIN65LH		
2004	525, 525i	DIN92LMF		
2001-on	530i, 530i Executive & Sport	DIN65LMF		
2001-on	535i V8	DIN85LMF		
2005-on	540i	DIN85LMF		
2001-on	540i V8 Executive, V8 Sport	DIN85LMF		
2005	530D	DIN92LMF		
1974-on	518	DIN85LMF		
1976-on	5 series 6 Cyl., 7 series 6 Cyl. (under bonnet)	DIN65LMF		
1978-88	633CSI, 635CSI	DIN85LMF		
2004-on	645 Ci, 650i	DIN85LMF		
2001-on	740	DIN92LMF		
1987-96	7 series (under seat)	DIN65LMF		
2001-on	735i, 740i, 745i, 745Li, 760Li	DIN85LMF		
1990-on	8 series	DIN65LMF		
1989-94	850	DIN53LMF		
1987-on	5 series (under seat)	DIN85LMF		
1976-on	Alpine	DIN65LMF	DIN53LMF	
2000-on	M3 Coupe	DIN65LMF		
1991-on	M3 series (in boot)	DIN65LMF		
1991-on	M3 series (under bonnet)	DIN53LMF		
1985-on	M635 csi	DIN85LMF		
2008-on	X3, X5, X6	DIN85LMF		
2007-on	S5	DIN85LMF		
2001-on	X5 3.0i, X5 4.4i, X5 4.6 LS, X5 V8, M5 V8, X5 4WD	DIN85LMF		
1992-on	Z3 3.0i, 2.2i Convertible	DIN65LMF		
1997-on	Z3 Roadster E36, E37	DIN65LMF		
2003-on	Z4	DIN65LMF		
<b>BUICK</b>				
1990-on	All Models	N70ZZ4WD	N70ZZ"	
<b>CADILLAC</b>				
1956-82	All Models	NS70X	NS70"	
1982-90	All Models	N70ZZ4WD	N70ZZ"	
<b>CHERY</b>				
2009-10	J1	DIN53LHMF		
2011-on	J11	75D23R	55D23R"	
2010-on	J3	DIN53LHMF		
2011-on	J11 SUV Automatic Tiggo	NS70X	NS70"	
<b>CHEVROLET</b>				
1952-on	Bel Air	NS70X	NS70"	
1975-81	C20, 30	NS70X	NS70"	
1967-85	Camaro	NS70X	NS70"	
1991-on	Camaro (GM Side Post Battery)	NS70X	NS70"	
1952-on	Corvette, Impala	NS70X	NS70"	





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1978-81	K30	NS70X	NS70"	
1956-91	All Models	67	57"	46
1968-on	C50	N70ZZH	N70ZZ"	
1963-on	C60	N70ZZH	N70ZZ"	
1972-on	KB20	53	43	
1972-on	LUV	53	43	
<b>CHRYSLER</b>				
2003-on	Crossfire	DIN65LMF		
2007-on	Dodge Avenger	68	58"	
2007-on	Dodge Nitro	NS70X	NS70"	
2009-on	Dodge Journey 6 Cyl. Petrol	67EF	57EF"	
1999-04	Grand Voyager	DIN65LMF		
2001-on	Grand Voyager MPV	DIN65LMF		
2011-on	Grand Voyager	DIN65LMF		
1995-98	Neon	DIN53RMF		
1999-on	Neon	DIN44LMF		
2000-on	Neon LE, LX, SE	DIN53RMF		
1999-on	Neon Viper	DIN53RMF	48R	
2002-on	Prowler	68	58"	
2001-on	PT Cruiser	68	58"	
2004	PT Cruiser Classic, Grand Tourer, Limited	DIN53LMF	DIN44LMF	
2007-on	Sebring	DIN65RMF		
1997-00	Voyager SE SWB	68	58"	
2001-04	Voyager	68	58"	
2004-on	Voyager	DIN65RMF		
2007-on	300C Petrol	DIN65LMF		
2007-on	300C Diesel	DIN85LMF		
<b>CITROEN</b>				
1990-94	AX GT5	DIN65LH		
1990-10	Berlingo Van 1.4 Ltr. Petrol	DIN53LHMF		
2008-on	Berlingo Van 1.6 Ltr. Petrol, 1.6 Ltr. Diesel	DIN65LH		
1986-90	BX1	68	58"	47
1986-94	BX16, BX19	DIN53LHMF		
2002-08	C2	DIN53LMF		
2002-on	C3 (small battery case)	DIN44LMF		
2002-on	C3 1.1i L, 1.4i LX, 1.6i 16V	DIN53LMF	DIN44LMF	
2005-on	C4 1.6 Ltr., 2.0 Ltr. Petrol	DIN53LMF	DIN44LMF	
2006-on	C4 HDI 1.6 Ltr. Diesel	DIN65LMF		
2008-on	C4 2.0 Ltr., 2.2 Ltr. Diesel	DIN53LHMF		
2007-on	C4 Picasso Diesel	DIN65LH		
2007-on	C4 Picasso Petrol	DIN53LHMF		
2001-on	C5	DIN65LMF		
2011-on	C5 1.6 Ltr. Petrol	DIN53LHMF		
2001-11	C5 2.0 Ltr. Petrol	DIN53LHMF		
2001-08	C5 3.0 Ltr. Petrol	DIN65LH		
2003-on	C5 2.0 Ltr., 2.2 Ltr. Diesel	DIN65LH		
2008-on	C5 2.7 Ltr., 3.0 Ltr. Diesel	DIN65LH		

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2006-10	C6 2.7 Ltr. Diesel	DIN92LMF		
2011-on	C6 3.0 Ltr. Diesel	DIN65LH		
2006-08	C6 3.0 Ltr. Petrol	DIN65LMF		
1976-83	CX2200, CX2400	68	58"	47
1984-85	CX2500IE, CX Pallais	DIN53LMF		
2008-on	Dispatch	DIN65LH		
1959-78	DS Series	67	57"	46
1967-72	DS 21	NS70X	NS70"	
1973-75	DS 23	NS70X	NS70"	
2011-on	DS3	DIN53LHMF		
1972-78	GS Club, GS Pallais	DIN53LMF		
1972-78	GS 1200, GGS1200	DIN53LMF		
2005	Pluriel	DIN44LMF		
2005-08	Picasso	DIN65LMF		
1994-01	Xantia	DIN53LMF		
1990-94	XM V6 Auto (HB)	DIN53LMF		
1998-01	Xsara	DIN53LMF		
2002-05	Xsara	DIN65LMF		
2001 - on	Xsara Coupe VTR 1.6 Ltr.	DIN53LMF		
2001 - on	Xsara Coupe VTS 2.0 Ltr.	DIN53LMF		
<b>COMMER-KARRIER</b>				
1968-on	2500 Van	67	57	
1952-on	8CWT Utility	67	57	
1952-on	Diesel Models	26		
1952-on	Petrol Models	N70ZZH	N70ZZ"	
<b>DAEWOO</b>				
1994-97	1.5i	DIN53LMF		
1998-on	Ceros	DIN53RMF		
1996-97	Cielo, GL	68	58"	
1994-97	Espero	DIN53LMF		
1997-on	Espero 2.0 Ltr.	M96-12MF		
2003-on	Kalos	75D23R	55D23R"	
1998-on	Korando 3.2 Ltr.	67 / NS70X	57" / NS70"	
2000-on	Korando 4WD	NS70X	NS70"	
2003-on	Lacetti	75D23R	55D23R"	
1999-on	Lanos	DIN53RMF		
2002-on	Lanos sports 2002	67	57"	46
1998-on	Leganza	75D23R	55D23R"	
1999-on	Matiz	NS40ZX	NS40Z"	
1998-on	Musso, Musso 2.9 Ltr., Musso 3.2 Ltr.	N70ZZ4WD	N70ZZ"	
2000-on	Nubira	67EF	57EF"	
2000-on	Tachuma	NS70X	NS70"	
1966-87	All Models	NS40ZX	NS40Z	
<b>DAIHATSU</b>				
1990-93	Applause	NS60L"		
1994-on	Applause	NS40ZX	NS40Z	
1996-on	Centra	NS40ZLSX	NS40ZLS"	
1983-91	Charade	NS40ZLSX	NS40ZLS"	





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1991-96	Charade	NS40ZX	NS40Z	
1999-03	Charade	NS40ZLSX	NS40ZLS"	
1996-on	Charade, Charade Centro	NS40ZLX	NS40ZL"	
2003-on	Copen	NS40ZLX	NS40ZL"	
2000-on	Cuore	NS40ZLX	NS40ZL"	
1999-on	DX 4WD	NS40ZSX	NS40ZS	
1988-on	Feroza 4WD Diesel	86ZMF		
1988-on	Feroza 4WD Petrol	NS40ZX	NS40Z	
1999-on	Handi	NS40ZX	NS40Z	
1983-90	Handivan	NS40ZLX	NS40ZL" / NS60LS"	
1983-85	HiJet Van Super DeLuxe	NS40ZX	NS40Z	
1981-90	HiJET Vans, 1000 Van	NS40ZLX	NS40ZL" / NS60LS"	
1971-75	Max S38, S40, S80	12N24-4	U1MF	
1990-94	Mira	NS40ZX	NS40Z	
1994-on	Mira	NS40ZLSX	NS40ZLS"	
1998-on	Move, Pysar	NS40ZLSX	NS40ZLS"	
1984-on	Rocky Diesel	N100MF		
1983-on	Rocky Petrol	NS40ZSX	NS40ZS	
1982-83	Scat	NS40ZSX	NS40ZS	
1982-83	Scat Diesel	86ZMF		
1998-03	Sirion	NS40ZLX	NS40ZL"	
2005-08	Sirion	NS60L"		
1998-on	Terios, Terios 4WD	NS40ZLX	NS40ZL"	
2006-on	Terios	NS60L"		
2001-on	TRV/YRV	NS40ZLSX	NS40ZLS"	
1979-84	JKBN, F25PN, F60JV, JKB, F65P	86Z	86	
1977-on	F50, F55L, F55P	87		
1977-on	SV40 Cab Van, SV60C, S60T, F20, 1600cc 4WD	NS40ZX	NS40Z / NS60"	
<b>DAIMLER</b>				
1953-79	All models (Incl.Vanden Plas)	NS70X	NS70"	
1987-on	Daimler 3.6 Ltr., Double 6	N70ZZ4WD	N70ZZ"	
1990-on	Daimler 4.0 Ltr.	N70ZZ4WD	N70ZZ"	
1967-70	Sovereign	N70ZZ4WD	N70ZZ"	
1971-92	Sovereign	NS70X	NS70"	
<b>DATSUN (REFER NISSAN)</b>				
<b>DODGE</b>				
1977-on	215, 245 Utility	NS70LX	NS70L"	
1977-on	Canter Diesel	N120MF		
1977-on	Canter Petrol	NS70X	NS70"	
<b>EUNOS</b>				
1992-on	300, 500	DIN53LMF		
1993-on	30X V6,	75D23L	55D23L"	
1999-on	800 2.3 Ltr., 2.5 Ltr.	NS70LX	NS70L"	
<b>FERRARI</b>				
2001-on	355, Testarossa, GT/512, GT	DIN65LMF		
2002-on	360 GT Modena	DIN65LMF		
2002-on	456M - GT, GTA	DIN65LMF		

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MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1993-on	512	DIN65LMF		
1993-on	512i	DIN65LMF		
1997-on	550 Maranello 5.5 Ltr.	DIN85LMF		
2003-on	Maranello	DIN65LMF		
1985-on	F40	DIN65LMF		
1965-93	All models	NS70X	NS70"	
<b>FIAT</b>				
1984 - 86	100 1.6 Ltr.	DIN44LMF	M96-12MF	
1958-82	100, 124, 125, 127, 128, 130, 131, 132, 1100, 1500, 1800, 2100, 2300	67	57"	46
2006	500 1.2 Ltr., 1.4 Ltr.	DIN44LMF		
2008	500	DIN75LMF		
1961-70	500, 500D, 600D, 70, 1100D, 1100E	51	41	
1958-82	850, 850S, 855	67	57"	46
1983-85	Argenta	67	57"	46
1988-89	Croma	DIN53LMF		
2006-on	Punto Petrol	DIN44LMF		
2006-on	Punto Diesel 1.3 Ltr., 1.9 Ltr.	DIN53LMF		
1987-89	Regata 100S Strada, Stracki	DIN53LMF		
1985-89	Regata 85S, 100S, Ritmo	DIN53LMF		
2008-on	Ritmo	DIN53LHMF		
1981-85	Super Brava MkII	67	57"	46
2007	Bravo, Uno	DIN53LMF		
1980-83	X19 1.3 Ltr., 1.5 Ltr.	67	57"	46
	Ducato	DIN85LMF		
<b>FORD</b>				
1981-89	Bronco	68	58"	
05/1992-94	Capri	75D23L	55D23L"	
1960-72	Capri	53	43	
1989-04/92	Capri	NS40ZLSX	NS40ZLS"	
1970-74	Capri GT3000 V6, RS3100V6	68	58"	47
1989-91	Corsair	68	58"	47
1962-74	Cortina 4 Cyl.	53	43	
1975-82	Cortina 4 Cyl., 6 Cyl.	68	58"	47
1999-on	Cougar	DIN65LMF		
1998-on	Courier	NS70X	NS70"	
1986-on	Courier Crew Cab Diesel	N70ZZ4WD	N70ZZ"	
1986-95	Courier Crew Cab Petrol	68	58"	
1996-on	Courier Crew Cab Petrol	75D23L / NS70LX	55D23L" / NS70L"	
1999-on	Courier Twin Cab	N70ZZL4WD	N70ZZL"	
2003-on	Courier XL	75D23R	55D23R"	
2005	Courier V6, Courier Petrol	DIN53LMF		
2005	Courier V6 4.0 Ltr.	DIN53LHMF		
2012-on	Eco Sport B515	DIN44LMF		
1985-87	Econovan Maxi Diesel	N70ZZ4WD	N70ZZ"	
1985-87	Econovan Maxi Petrol	NS40ZLX	NS40ZL"	
2000-on	Econovan Maxi Petrol	NS40ZLX	NS40ZL"	

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MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2003-06	Econovan Maxi Petrol	75D23L	55D23L"	
2003-on	Escape	75D23R	55D23R"	
2006-on	Escape XLT	75D23R	55D23R"	
1970-75	Escort	53	43	
1975-79	Escort	68	58"	47
1998-on	Expedition	DIN65LMF		
1996-on	Explorer 4WD Petrol	N65D		
1974-94	F100, F150, F250	68	58"	
1974-94	F350	68	58"	
2001-07	F350	68	58"	
1996-on	F250 Ambulance	N65D		
2003	F250 Dual Cab	N65D		
1994-on	Fairlane NF, Falcon (EF, EL models)	67EF	57EF"	
1961-06/91	Fairlane, Fairmont, Falcon, Futura	68	58"	47
1991-94	Fairlane, Falcon EB, Falcon ED	58EB		
2008-on	Fairmont FG	67	57"	
2008-on	Falcon FG	67EF	57EF"	
2008-on	Falcon Ute (Except EB, EF)	67EF	57EF"	
1991-on	Falcon Ute EB	58EB		
1994-on	Falcon Ute EF to BG	67EF	57EF"	
2005-on	Falcon BF, Fairlane BF	67EF	57EF"	
1998-on	Falcon AU, BA, Fairmont AU, BA, Fairlane AU, BA	67EF	57EF"	
2002-05	Fairlane BA model	67EF	57EF"	
1991-93	Festiva	NS40ZLSX	NS40ZLS"	
1998-on	Festiva Trio, LXi, GLXi, WF	75D23L	55D23L"	
1994-on	Festiva XR4, Trio XR4, GLi	75D23L	55D23L"	
2004-on	Festiva	DIN53LMF		
2012-on	Fiesta ST 3 Door	DIN65LMF		
2012-on	Fiesta B299 5 Door	DIN65LMF		
2008-on	Fiesta CL, LX, Zetec,	DIN44LMF		
2004-on	Fiesta LX, GHIA, Zetec WP, V 1.6i	DIN44LMF		
2007-on	Fiesta XR4	DIN53LMF		
2011-on	Focus	DIN53LMF		
2002-on	Focus	DIN53LMF		
2007-on	Focus Diesel	DIN65LMF		
2002-on	Focus SR Ltd Edition, XT, XR	DIN65LMF		
2006-on	Focus XR5	DIN65LMF		
2007-08	Focus TDCI	DIN65LMF		
2002-on	Focus STI 170	DIN65LMF		
2003-on	FPV GT P, FPV-GT-P, FPV GTP, FPV Pursuit	67EF	57EF"	
2005-08	FPV GTE	67EF	57EF"	
2005-on	F6, F6 Typhoon, F6 Tornado	67EF	57EF"	
	GT40 MK3	DIN53RMF		
1999-on	Ka	DIN44LMF		
2012-on	Kuga	DIN75LMF		
1999-on	Laser	75D23L	55D23L"	50D20L
1981-92	Laser KA-KF	NS40ZLSX	NS40ZLS"	

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MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1992-94	Laser KH	75D23L	55D23L"	
1993-on	Laser KJ, Lxi, Liata	75D23L	55D23L"	
2001-on	Laser KQ	75D23L	55D23L"	50D20L
1994-on	Laser, Lynx	DIN44LMF		
1991-94	LTD	58EB		
1994-on	LTD DF	67EF	57EF"	
1972-91	LTD Landau	68	58"	47
1989-93	Maverick Diesel	N70ZZL4WD	N70ZZL"	
1989-93	Maverick Petrol	68 / NS70LX	58" / NS70L"	
1982-87	Meteor	NS40ZLSX	NS40ZLS"	
1995-on	Mondeo 1.2 Ltr., 2.0 Ltr.	DIN53LMF		
2008	Mondeo 2.0 Ltr. Diesel	DIN75LMF		
2007-on	Mondeo	DIN53LMF		
2011-on	Mondeo Duratech 2.5 Ltr. Petrol	DIN53LMF		
2011-on	Mondeo 2.3 Ltr. Petrol	DIN65LMF		
2011-on	Mondeo Diesel	DIN75LMF		
1963-77	Mustang	68	58"	
1995-on	Probe	48L		
1997-01	Puma (All Models)	DIN44LMF		
1991-96	Raider 4x4	N70ZZ4WD	N70ZZ"	
2006-on	Ranger Diesel	N70ZZ4WD	N70ZZ"	
2009	Ranger 2.5 Ltr., 3.0 Ltr.	N70ZZ4WD	N70ZZ"	
1972-74	RS3 100 V6	68	58"	
1991-on	Sierra	DIN53LMF		
1983-94	Spectron Diesel	N70ZZ4WD	N70ZZ"	
1983-94	Spectron Petrol	NS40ZLSX	NS40ZLS"	
1996-on	Taurus	DIN53LMF		
1996-on	Taurus Thunderbird	N65D		
1996-on	Taurus (Exc Sho)	48R		
1983-90	Telstar 4 Cyl.	NS40ZLSX	NS40ZLS"	
1991-on	Telstar, TX5 6 Cyl.	75D23L	55D23L"	
2004-on	Territory	67EF	57EF"	
2011	Territory 4.0 Ltr. DOHC DI-VCT Petrol	DIN65LH		
2011	Territory 2.7 Ltr. V6 Common Rail Turbo Diesel	DIN65LH		
1997-on`	Trader D409	NS70X	NS70"	
1999-on	Transit Van	DIN65LMF		
1994-on	Transit Van 2.5 Ltr.	DIN65LMF		
1996-on	Transit Van	DIN53LMF		
1965-74	Transit Vans 4 Cyl.	53	43	
1973-81	Transit Vans 6 Cyl.	68	58"	
2005-on	Transit Vans 6 Cyl.	DIN65LMF		
2001-04	Transit Vans Diesel	DIN85LMF		
<b>GREAT WALL</b>				
2011-on	C10	DIN44LMF		
2011-on	VX10	DIN44LMF		
2009-on	SA220	75D23L	55D23L"	
2009-on	V240	75D23L	55D23L"	

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MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2009-on	VX240	NS70LX	NS70L"	
2010	X200 2.0 Ltr. Diesel	NS70X	NS70"	
2010	X240	NS70X	NS70"	
<b>HOLDEN</b>				
1999-on	Acclaim	68	58"	
2003-on	Adventurer Petrol 4WD	68	58"	
1989-92	Apollo	NS40ZLSX	NS40ZLS"	
1992-on	Apollo	75D23L	55D23L"	
2007-on	Astra	DIN65LMF		
1984-89	Astra	NS40ZLSX	NS40ZLS"	
2003-on	Astra	DIN65LMF	DIN53LMF	
1996-on	Astra 1.6 Ltr.	DIN65LMF	DIN53LMF	
1996-on	Astra 1.8 Ltr.	DIN65LMF	DIN53LMF	
2001-03	Astra Convertible	DIN65LMF		
1998-on	Astra SRI 2.2 Ltr.	DIN65LMF		
2006-on	Astra CDTI Diesel	DIN65LMF		
2004-on	Astra CDX	DIN65LMF		
2000-on	Astra TS 1.8 Ltr.	DIN53LMF	DIN44LMF	
2011-on	Barina	67	57"	46
2011-on	Barina	67	57"	46
2012-on	Barina	DIN53LHMF		
2012-on	Barina Spark	DIN44LMF		
1985-94	Barina	NS40ZLSX	NS40ZLS"	
1994-on	Barina	DIN53LMF		
2006-on	Barina	67	57"	46
2003-on	Barina CD, SXI	DIN65LMF	DIN65LMF	
1996-05	Barina City, Cabrio	DIN53LMF		
1996-05	Barina Cabrio	DIN53LMF		
1999-05	Barina Swing	M96-12MF		
2002-on	Barina XC	DIN65LMF		
1997-on	Berlina V6, V8	67	57"	
1984-98	Calais 6 Cyl.	67	57"	
1984-98	Calais 8 Cyl.	67	57"	
1999-on	Calais 6 Cyl.	68	58"	
1999-on	Calais 8 Cyl.	68	58"	
1997-06	Calais VT, VU, VX, VY, VZ	68	58"	
1991-95	Calibra	DIN65LMF	DIN53LMF	
1983-86	Camira SL, SLE	67	57"	46
1987-89	Camira SL, SLE, SLX	67	57"	46
2006-10	Captiva Petrol	DIN75RHMF		
2006-10	Captiva Diesel	DIN75RHMF		
2011-on	Captiva Petrol Series II 4 Cyl.	DIN53LHMF		
2011-on	Captiva Petrol Series II 6 Cyl.	DIN65LH		
2011-on	Captiva Diesel Series II	DIN92LMF		
1971-85	Caprice	67	57"	46
1990-on	Caprice	67	57"	46

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MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1997-on	Caprice	68	58"	
1997-06	Caprice VT, VU, VX, VY, VZ	68	58"	
1996-on	Combo Van	DIN53LMF		
1999-on	Combo Van	M96-12MF		
2003-on	Combo Van	DIN65LMF	DIN53LMF	
2004-on	Combo Van	DIN44LMF	M96-12MF	
2008-on	Colorado RC 3.0 Ltr. DT	N70ZZ4WD	N70ZZL"	
2008-on	Colorado RC Petrol V6	NS70X	NS70	
1980-98	Commodore 6 Cyl.	67	57"	
1980-98	Commodore 4 Cyl.	67	57"	
1980-98	Commodore 8 Cyl.	67	57"	
1999-on	Commodore Acclaim	68	58"	
2000-on	Commodore Equip	68	58"	
2003-on	Commodore V8 SS	68	58"	
2006-on	Commodore VE	DIN53LHMF		
2006-on	Commodore VE V8	DIN65LH		
1998-on	Commodore VT	68	58"	
All	Commodore Ute VT	68	58"	
1998-on	Commodore VX	68	58"	
2002-on	Commodore VY	68	58"	
2002-on	Commodore VY Crewman	68	58"	
All	Commodore Ute VY	68	58"	
2004-2006	Commodore VZ	68	58"	
2004-2006	Commodore VZ Crewman	68	58"	
All	Commodore Ute VZ	68	58"	
2011-on	Commodore Ventura	DIN65LMF		
2003-on	Cruze	NS40ZLX	NS40ZL"	
2008-10	Cruze Petrol	DIN53LMF		
2008-10	Cruze Diesel	DIN75RHMF		
2011-on	Cruze Petrol Series II	DIN75LHMF		
2011-on	Cruze Diesel Series II	DIN75LHMF		
2002-on	Cruze AWD	NS40ZSX	NS40ZS	
1985-87	Drover	NS40ZSX	NS40ZS	
2007-on	Epica	67	57"	
2007-on	Epica Diesel	DIN75RHMF		
1996-98	Frontera Sport	DIN53LMF		
1999-05	Frontera V6	NS70LX	NS70L"	
2001-on	Frontera	N70ZZ4WD	N70ZZ"	
1985-87	Gemini	NS40ZSX	NS40ZS	
1975-84	Gemini Diesel	68	58"	47
1975-84	Gemini Petrol	51	41	
1956-80	Holden All Models (6 Cyl. & 8 Cyl.)	67	57"	46
2002-on	Jackaroo 3.0 Ltr. Turbo Diesel	N70ZZ4WD	N70ZZ"	
2002-on	Jackaroo 3.5 Ltr. V6 Petrol	N70ZZ4WD	N70ZZ"	
1982-on	Jackaroo Diesel	N70ZZ4WD	N70ZZ"	
1982-92	Jackaroo Petrol	67	57"	46
1993-on	Jackaroo Petrol	NS70X	NS70"	

"Also available in maintenance free version.





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1999-on	Jackaroo SE 3000 Turbo Diesel	NS70X	NS70"	
2000-on	Jackaroo Turbo Diesel	NS70X	NS70"	
All	Kingswood up to VS	67	57"	46
1983-85	Kingswood Ute	67	57"	46
2001-on	Monaro	68	58"	
All	Monterey Diesel	68	58"	47
1989-91	Nova	53	43	
1992-on	Nova	53	43	
2011-on	Omega	DIN53LMF		
1986-87	Piazza Turbo	68	58"	47
2001-on	Rodeo Diesel	N70ZZL4WD	N70ZZL"	
2003-on	Rodeo 3.0 Ltr. TD Diesel	N70ZZL4WD	N70ZZL"	
1999-on	Rodeo 3.2 Ltr. V6 Twin Cab Petrol	75D23L	55D23L"	
1981-93	Rodeo Diesel	N70ZZ4WD	N70ZZ"	
2003-on	Rodeo LT 4WD 3.5 Ltr. V6	N70ZZL4WD	N70ZZL"	
2003-on	Rodeo LT 4WD 3.5 Ltr. LX	N70ZZL4WD	N70ZZL"	
1981-87	Rodeo Petrol	51	41	
1988-95	Rodeo Petrol	67	57"	
1996-on	Rodeo Petrol	NS70LX	NS70L"	
1999-on	Rodeo Space Cab Diesel	N70ZZ4WD	N70ZZ"	
1996-on	Rodeo Twin Cab Diesel	N70ZZ4WD	N70ZZ"	
1974-79	Sandman	67	57"	46
1983-87	Shuttle Diesel	N70ZZ4WD	N70ZZ"	
1983-91	Shuttle Petrol	53	43	
1996-1999	Sintra	DIN53LMF		
2006-on	Statesman	DIN65LH		
1990-on	Statesman V8	67	57"	
1990-on	Statesman V6	67	57"	
1971-85	Statesman de Ville	67	57"	
2008-on	Sportswagon	DIN53LHMF		
1998-on	Suburban	NS70X	NS70"	
1977-78	Sunbird	67	57"	46
1999-on	Swing	M96-12MF		
1967-74	Torana 4 Cyl.	51	41	
1974-79	Torana 4 Cyl.	67	57"	46
1969-79	Torana	67	57"	46
1998-99	Vectra	68	58"	
2003-on	Vectra 3.2 Ltr. V6	DIN53LMF		
2003-on	Vectra CD	DIN65LMF		
2003-on	Vectra CDX	DIN65LMF		
2003-on	Vectra CDXi	DIN65LMF		
1999-on	Vectra, 2.2 Ltr.	DIN53LMF		
1998-on	Vectra, 2.5 Ltr. V6 ZC	DIN65LMF		
2005-07	Viva	67	57"	46
2001-on	Zafira	DIN65LMF		
1985-87	Scurry	NS40ZX	NS40Z / NS60S"	
1983-87	Shuttle Diesel	N70ZZ4WD	N70ZZ"	

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1983-91	Shuttle Petrol	53	43	
<b>HOLDEN HSV</b>				
2011-on	Clubsport, Maloo, Senator, XU6	68	58"	
2006-07	Grange LS2, LS3	68	58"	
2002-05	GTO	68	58"	
2006-08	GTS LS2	68	58"	
2005	SV6000	68	58"	
<b>HONDA</b>				
2003-05	Accord Euro	NS60L"		
2002-on	Accord Euro	NS60LS"		
1993-94	Accord	NS40ZSX	NS40ZS	
1994-96	Accord	75D23L	55D23L"	
1998-on	Accord 4 Cyl.	NS60S"		
1999-on	Accord 4 Cyl. LEV VTIL	75D23L	55D23L"	
1996-97	Accord 4 Cyl., Exi	NS70LX	55D23L"	
1998-on	Accord 6 Cyl., V6	NS70X	NS70"	
1986-92	Accord	NS60S"		
2003	Accord V6	NS60L"		
2005-07	Accord Vti	NS60LS"		
1986-94	City	NS60S"		
2011-on	City	DIN44LMF		
1986-92	Scamp	NS60S"		
1977-85	Accord, Scamp	NS40ZLSX	NS40ZLS"	
1985 - 96	Civic	NS60"		
1993-95	Civic	NS40ZSX	NS40ZS	
1973-78	Civic 1300, 1500	NS40ZLSX	NS40ZLS"	
1996-on	Civic	NS60S"		
2006-on	Civic	NS60LS"		
2007-on	Civic Type R	NS60LS"		
1989-92	Concerto	NS60S"		
1993-on	Concerto	NS60"		
2013-on	CRV	NS60S"		
2006-13	CRV	NS60LS"		
2002-06	CRV	NS60LS"		
1997 - 02	CR-V, CRV	NS60S"		
1997 - 02	CR-V Sport (4X4)	NS60LS"		
2003 - 05	CRV 2.4 Ltr. 4WD	NS60LS"		
1989-92	CRX	NS60S"		
1993-on	CRX	NS40ZSX	NS40ZS	
1999-on	HR-V Sport	NS60LS"		
2001-on	Insight Coupe	NS40ZX	NS40Z	
1996-on	Integra	NS60S"		
1986-94	Integra 4 Cyl.	NS60S"		
1986-96	Integra DOHC	NS70X	NS70"	55D23R"
2000-01	Integra R	NS60LS"		
2002-05	Integra VTI-R, Type S	NS60LS"		
2002-on	Jazz	NS40ZLX	NS40ZL"	







MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1986-92	Legend	NS70LX	NS70L"	
1993-95	Legend	NS70X	NS70"	
2001-on	Legend	NS70X	NS70"	
2003-on	MDX 4X4	NS70X	NS70"	
2003-on	MDX	NS70LX	NS70L"	
1991-00	NSX AT, MT	NS70LX	NS70L"	
1990-on	NSX V6	NS60"		
2003-on	NSX	NS70LX	NS70L"	
1996-00	Odyssey	NS70LX	NS70L"	55D23L"
2001-on	Odyssey	NS70X	NS70"	
1995-99	Odyssey	75D23L	55D23L"	
2000-on	Odyssey L4	NS60LS"		
2000-on	Odyssey V6	75D23R	55D23R"	
2007-09	Odyssey	NS60L"		
2001-05	Odyssey Wagon	53		
1979-88	Prelude	51	41	
1992-96	Prelude S	NS60LS"		
1997-00	Prelude Si	NS60LS"		
1993-96	Prelude Si SRS	NS70LX	NS70L"	55D23L"
1997-on	Prelude VTiR, Prelude B422 ATTS	NS70LX	NS70L"	
1988-90	Prelude, AWS	NS70X	NS70"	
2000-07	S2000 MT	NS60LS"		
1999-on	S2000 MT	NS60LS"		
<b>HUMMER</b>				
2003-on	H2 Luxury SUV	NS70X	NS70"	
2007-on	H3, H3 Adventure, H3 Luxury	67	57"	
<b>HYUNDAI</b>				
2000-10	Accent	68	58"	
2011-on	Accent Active 1.6 Ltr. , Elite 1.6 Ltr.	55D23LBMF		
2011-on	Accent Active 1.6 Ltr., CRDi 1.6 Ltr., Elite 1.6 Ltr.	55D23LBMF		
2011-on	Accent Premium	55D23LBMF		
2011-on	Accent RB Diesel	NS70LX	NS70L"	
1998-01	Coupe SX	55D23LBMF		
1998-01	Coupe SFX	55D23LBMF		
2000-05	Elantra	68	58"	
2006-11	Elantra	58EB		
2012-on	Elantra	DIN53LHMF		
2012-on	Elantra Active, Elite, Premium	DIN53LHMF		
1986-87	Excel GL, GLS	NS40ZSX	NS40ZS	
1988-95	Excel GL, GLS	68	58"	47
1988-95	Excel L, LS, GS	68	58"	47
1993-on	Excel S Coupe	68/67	58"/57"	47
1996-on	Excel Sprint GX, GXL	68	58"	47
1998-on	Excel Sprint GX	68	58"	
2002-06	Getz GL	68	58"	
2007-on	Getz	68	58"	
1999-on	Grandeur	NS70LX	NS70L"	

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2006-on	Grandeur	NS70LX	NS70L"	
2007-on	I-Max	N70ZZ4WD	N70ZZ"	
2010-on	I-20 1.4 Ltr. Active, 1.4 Ltr. Elite	50D20LMF		
2007-12	I-30 Petrol	55D23LBMF		
2007-12	I-30 Diesel	NS70LBMF		
2012-on	I-30 Hatch Active/Elite/Premium 1.6 Ltr. Diesel	NS70LBMF		
2012-on	I-30 Hatch Active/Elite/Premium 1.8 Ltr. Petrol	DIN53LHMF		
2012-on	I-30 Tourer Active, Elite 1.6 Ltr. Diesel	NS70LBMF		
2012-on	I-30 Tourer Active, Elite 1.6 Ltr. Gdi	NS70LBMF		
2010-on	IX35 Active 2.0 Ltr. Elite 2WD Petrol	NS70LX	NS70L"	
2010-on	IX35 Active 2.0 Ltr. Active, Highlander 2WD Petrol	68	58"	
2010-on	IX35 Active, Highlander 2.4 Ltr. AWD Petrol	68	58"	
2010-on	IX35 Active 2.4 Ltr. Elite AWD Petrol	NS70LX	NS70L"	
2010-on	IX35 2.0 Ltr. R Series, AWD Diesel 2.0 Ltr.	N70ZZ4WD	N70ZZ"	
2010-on	IX35 IX SE 2WD Petrol	68	58"	
2010-on	IX35 IX SE AWD Diesel	N70ZZ4WD	N70ZZ"	
2011-on	I-40	NS70LX	NS70L"	
2010-on	I-45 Petrol	NS70LX	NS70L"	
2008	I-Load	N70ZZ4WD	N70ZZ"	
2008-on	I-Load 2.4 Ltr. Petrol	NS70LX	NS70L"	
2008-on	I-Load 2.5 Ltr. CRDi	N70ZZ4WD	N70ZZ"	
2008-on	I-Load Crew Van 2.4 Ltr. Petrol	NS70X	NS70"	
2008-on	I-Load Crew Van 2.5 Ltr. Diesel	N70ZZ4WD	N70ZZ"	
2008-on	I-Max Shuttle 2.4 Ltr.	NS70X	NS70"	
2008-on	I-Max Shuttle 2.5 Ltr. Diesel	N70ZZ4WD	N70ZZ"	
1991-94	Lantra	67	57"	46
1995-98	Lantra	68	58"	47
1998-on	Lantra <sup>+</sup>	68	58"	47
1998-on	Lantra SE, GL, GLS	68	58"	47
2001-on	Lavita	68	58"	47
1999-on	Levant	DIN53LMF		
1990-97	S Coupe	67	57"	
2000-06	Santa Fe Petrol	68	58"	
2007-on	Santa Fe Petrol	NS70LX	NS70L"	
2006-on	Santa Fe Diesel	N70ZZLBMF		
1989-98	Sonata	67	57"	
2000-on	Sonata	68	58"	
2003-on	Sonata	DIN53LMF		
2007-09	Sonata	75D23L	55D23L"	
1999-on	Sonata 4 Cyl.	M96-12MF		
1999-on	Sonata V6	68	58"	
2005-on	Sonata Elite	NS70LX	NS70L"	
1984-on	Stellar	51	41	
2004	Terracan (Top Hold Down)	N70ZZ4WD	N70ZZ"	
2001-on	Terracan Highlander	NS70X	NS70"	
2002-on	Tiburon	48L		
2004	Tiburon	NS70LX	NS70L"	





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2001-on	Trajét	NS70LX	NS70L"	
2004-07	Tucson 6 Cyl., City 4 Cyl.	68	58"	
2008-on	Tucson	75D23L	55D23L"	
2012-on	Veloster S, Veloster +, Veloster SR Turbo	DIN44LMF		
<b>INFINITI</b>				
2012-on	M Sedan V6 Diesel (Battery in Boot)	DIN110L		
2012-on	M Sedan V6 Petrol	NS70LX	NS70L"	
2012-on	M Sedan Hybrid	75D23L	55D23L"	
<b>ISUZU</b>				
1995-on	Ceres Diesel	N70ZZH	N70ZZ"	
1998-on	Ceres Diesel	N70ZZH	N70ZZ"	
1999-on	Ceres Diesel	N70ZZH	N70ZZ"	
1992-93	Ceres Rocksta	68	58"	
<b>JAGUAR</b>				
1956-69	2.4 Ltr.	N70ZZ4WD	N70ZZ"	
1956-69	3.4 Ltr.	N70ZZ4WD	N70ZZ"	
1956-69	3.8 Ltr.	N70ZZ4WD	N70ZZ"	
1956-69	MkVII	N70ZZ4WD	N70ZZ"	
1956-69	MkVIII	N70ZZ4WD	N70ZZ"	
1966-71	420S	N70ZZ4WD	N70ZZ"	
1966-71	420G	N70ZZ4WD	N70ZZ"	
1966-71	Mk X	N70ZZ4WD	N70ZZ"	
1966-71	Mk XI	N70ZZ4WD	N70ZZ"	
1962-74	E Type MK V (Check Height Clearance)	NS70LX	NS70L"	
1962-76	E Type 6 Cyl. & 12 Cyl.	67	57"	
2002-05	S Type	DIN85LMF		
1999-08	S Type	DIN92LMF		
1964-68	S Type	N70ZZ4WD		
2003-09	Super V8	DIN65LH		
1986-92	V12	DIN53LHMF		
1962-76	X Type	67	57"	
2011-on	X Type	DIN75LMF		
2004-05	X Type 2.1 Ltr.	DIN53LMF		
2001-10	X Type V6 Petrol	DIN75LHMF		
2008-10	X Type Diesel	DIN75LHMF		
2008-on	XF (Battery in Boot)	DIN92LMF		
2011-on	XF XJ	DIN85LMF		
1993-95	XJ12	DIN65LH		
1990-on	XJ 4.0 Ltr.	DIN85LMF		
1976-78	XJ 5.3 Ltr.	DIN65LH		
1972-87	XJ6	67	57"	
1972-93	XJ6	67	57"	
1995-on	XJ6	DIN85LMF		
Current	XJ6 Diesel	DIN85LMF		
2007-09	XJ6 2.7 Ltr. Diesel	DIN65LH		
1969-73	XJ6 2.8 Ltr. Petrol	DIN53LHMF		
2004-08	XJ6 3.0 Ltr. Petrol	DIN65LH		

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1992-97	XJ6 3.2 Ltr. Petrol	DIN65LH		
1987-89	XJ6 3.6 Ltr. Petrol	DIN53LHMF		
1989-97	XJ6 4.0 Ltr. Petrol	DIN65LH		
1969-75	XJ6 4.2 Ltr. Petrol	DIN65LH		
1980-86	XJ6 4.2 Ltr. Petrol	DIN65LH		
1994-on	XJ6 (Battery In Boot)	DIN85LMF		
1997-08	XJ8	DIN85LMF		
1994-on	XJ12 (Battery In Boot)	DIN85LMF		
1994-on	XJR (Battery In Boot)	DIN85LMF		
1976-87	XJS Series 3	DIN53LMF		
1991-95	XJS V12	DIN65LH		
1983-94	XJS	DIN53LMF		
1983-94	XJSC	DIN53LMF		
2011-on	XK	DIN85LMF		
1995-on	XK8	DIN85LMF		
1995-on	XKR	DIN85LMF		
2001-on	XJ8 3.2 Ltr.	DIN85LMF		
2001-on	XJ8 4.0 Ltr. Sport	DIN85LMF		
1956-69	2.4 Ltr., 3.4 Ltr., 3.8 Ltr.	N70ZZ4WD	N70ZZ"	
1956-69	MkVII, MKVIII	N70ZZ4WD	N70ZZ"	
1966-71	420S, 420G	N70ZZ4WD	N70ZZ"	
1966-71	Mk X, MKXI	N70ZZ4WD	N70ZZ"	
<b>JEEP</b>				
1979-96	Cherokee	67	57"	46
1997-on	Cherokee	DIN65RMF	48R	
1998-on	Cherokee V8	DIN65LMF		
2001-07	Cherokee 3.7 Ltr. V6	DIN53RMF		
2004-2007	Cherokee KJ 2.5 Ltr.	DIN65RH		
2003-2007	Cherokee KJ 2.8 Ltr.	DIN65RH		
1993-01	Cherokee XJ 4.0 Ltr.	DIN65RH		
2003-on	Cherokee Diesel 2.8 Ltr.	NS70X	NS70"	
1999-03	Cherokee Diesel	DIN65RMF		
1995-2001	Cherokee Diesel 2.5 Ltr.	DIN65LMF		
1994-99	Cherokee Diesel Sport	DIN53RMF	48R	
1994-98	Cherokee Laredo	48R		
1998-on	Cherokee Laredo	75D23R	55D23R"	
1994-98	Cherokee Limited	48R		
1998-on	Cherokee Limited	75D23R	55D23R"	
1994-98	Cherokee Sports	48R		
1998-04	Cherokee Sports	75D23R	55D23R"	
2004-on	Cherokee Sports	DIN53RMF		
2006-11	Commander	DIN85LMF		
2011-on	Commander	DIN65LMF		
2007-on	Compass	75D23R	55D23R"	
1974-85	CJ5, CJ6, CJ8, CJ10, CJ20	67	57"	
2001-04	Grand Cherokee 4X4 CRD 2.7 Ltr.	DIN92LMF		
1996-98	Grand Cherokee	75D23R	55D23R"	





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2010-on	Grand Cherokee Grande 3.0 Ltr. Diesel	DIN92LMF		
2004-on	Grand Cherokee WG 4.0 Ltr. & 4.7 Ltr. V8	DIN65LH		
2005-on	Grand Cherokee WH 3.0 Ltr. 6 yl.	DIN92LMF		
2005-on	Grand Cherokee WH 4.7 Ltr. & 5.7 Ltr. V8	DIN65LH		
2006-on	Grand Cherokee WH 6.1 Ltr. V8	DIN65LH		
2004-on	Grand Cherokee WK 3.0 Ltr. 6 Cyl.	DIN75LHMF		
2006-on	Grand Cherokee WK 6.1 Ltr. V8	DIN75LHMF		
1992-99	Grand Cherokee Z9 4.0 Ltr. 6 Cyl.	DIN65RH		
2011-on	Grand Cherokee Laredo	DIN65LMF		
2010-on	Grand Cherokee Laredo 3.0 Ltr. Diesel	DIN92LMF		
2003-on	Grand Voyager	DIN65RMF		
2011-on	Patriot	DIN65LMF		
2007-08	Patriot Diesel	DIN65RH		
2007-11	Patriot Petrol	75D23R	55D23R"	
1981-85	Renegade	67	57"	
1996-98	Wrangler	DIN53RMF		
1996-06	Wrangler	DIN53RMF		
2011-on	Wrangler	D31A+		
2007-11	Wrangler	D31A+		
2003-on	Wrangler TJ 4.0 Ltr. 6 Cyl.	NS70X	NS70"	
<b>KIA</b>				
2000-on	Carens	DIN53LMF		
1998-06	Carnival	NS70LX	NS70L"	
2006-07	Carnival	NS70LX	NS70L"	
2006-07	Carnival 3.8 Ltr. V6	75D23L	55D23L"	
2004-09	Cerato	75D23L	55D23L"	
2012-on	Cerato	68	58"	
1995-on	Ceres Diesel	N70ZZ4WD	N70ZZ"	
1992-93	Ceres Rocsta	68	58"	
1998-on	Credos	DIN53RMF	48R	
1999-on	Credos GLX	DIN53LMF		
2006-11	Grand Carnival Petrol	75D23L	55D23L"	
2006-11	Grand Carnival Diesel	N70ZZ4WD	N70ZZ"	
2002-08	K2700	N70ZZL4WD	N70ZZL"	
2008-on	K2900	N70ZZL4WD	N70ZZL"	
2006-11	Magentis	NS70LX	NS70L"	
2011-on	Magentis	68	58"	
1997-00	Mentor 1.5 Ltr. EFI	NS60S"		
1997-98	Mentor 1.6 Ltr.	NS60S"		
1998-99	Mentor 1.8 Ltr. EFI	DIN53LMF		
1997-on	Mentor GLX, SLX	51	41	
2001-06	Optima	NS70LX	NS70L"	
2011-on	Optima	NS70LX	NS70L"	
2002-on	Pregio (Diesel, Petrol)	N70ZZL4WD	N70ZZL"	
2006	Picanto	NS40ZLSX	NS40ZLS"	
2000-10	Rio	68	58"	
2012-on	Rio	68	58"	

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1994-on	Rocsta	75D23R	55D23R"	
2008-on	Rondo	NS70LX	NS70L"	
2000-on	Shuma	DIN65LMF		
2003-on	Sorrento	N70ZZBMF		
2007-09	Sorrento BI Diesel	N70ZZ4WD	N70ZZ"	
2003-09	Sorrento BI Petrol	67EF	57EF"	
2009-on	Sorrento XM Diesel	N70ZZL4WD	N70ZZL"	
2009-on	Sorrento XM Petrol	67EF	57EF"	
2009-on	Soul CRDi	NS70LX	NS70L"	
2009-on	Soul	50D20LMF		
2001-04	Spectra	DIN53LMF		
2010-on	Sportage	68	58"	
2005-06	Sportage 6 Cyl. Petrol	NS70LX	NS70L"	
2000-07	Sportage 4WD	DIN53RMF		
1996-99	Sportage 4WD	48R		
1996-on	Sportage GSE, SE	48R		
2008-on	Sportage Diesel	N70ZZ4WD	N70ZZ"	
<b>LADA</b>				
1990-on	Cevaro GL	67	57"	46
1983-93	Niva, Cabriolet, Toro	67	57"	46
1988-on	Samara 1.3 Ltr., Volante 1.3 Ltr.	67	57"	46
<b>LAMBORGHINI</b>				
1996-on	Diablo SV 5.7 Coupe	DIN65LMF		
2002-04	Murcielago	DIN65RMF		
<b>LANCIA</b>				
1974-85	Beta, Beta HPE, Beta 2000	DIN53LMF		
1966-75	Flavia	DIN53LMF		
1974-85	Gamma	67	57"	46
1986-on	Thelma 2800 V6	DIN53LMF		
<b>LANDROVER</b>				
1984-90	110 Petrol & Diesel	67	57"	
1992-96	Defender Diesel	N70ZZ4WD	N70ZZ"	
2011-on	Defender Diesel	DIN65LMF		
1994-on	Defender Dual Cab	DIN65RMF		
2000-on	Defender Extreme	86ZMF		
2003-on	Defender TD5/130	DIN85LMF		
1999-on	Defender, Discovery Series II	86ZMF		
1992-98	Discovery Diesel	NS70X	NS70"	
1991-on	Discovery Petrol	NS70X	NS70"	
1999-on	Discovery Series II 4.0 Ltr. V8	86ZMF		
2004-on	Discovery Series III Petrol, Diesel	DIN75LMF		
2004-on	Discovery Series 4	N70ZZ4WD	N70ZZ"	
2011-on	Discovery Series 4 Diesel	N70ZZ4WD	N70ZZ"	
2000-on	Discovery TD5 Diesel	N70ZZ4WD	N70ZZ"	
2005	Discovery TD5 V6 S	DIN92LMF		
1998-01	Freelander Diesel, Petrol	DIN65LMF		
2001-on	Freelander	DIN65LMF		





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2011-on	Freelander II Diesel	DIN75LMF		
1983-86	Quintet	53	43	
<b>LEXUS</b>				
2012-on	CT200h	S46B24R		
1992-2004	ES300	75D23L	55D23L	
2012-on	GS250	NS70LX	NS70L	
1997-05	GS300	NS70LX	NS70L	
2005-on	GS300	NS70LX	NS70L	
2012-on	GS350	NS70LX	NS70L	
2005-07	GS430	NS70LX	NS70L	
2007-on	GS460	NS70LX	NS70L	
Current	GS450H	75D23L	55D23L	
2005-13	IS250	NS70LX	NS70L	
1999-05	IS200	75D23L	55D23L	
2001-05	IS300	75D23L	55D23L	
2010-13	IS350	NS70LX	NS70L	
2009-on	IS250C	NS70LX	NS70L	
2007-on	IS F	NS70LX	NS70L	
1989-94	LS400	N70ZZL4WD	N70ZZL	
1994-00	LS400	NS70LX	NS70L	
2000-06	LS430	NS70X	NS70	
2006-on	LS460	N70ZZL4WD	N70ZZL	
1998-07	LX470	NS70LX	NS70L	
2007-on	LX570	N70ZZL4WD	N70ZZL	
2012-on	RX270	NS70LX	NS70L	
2003-05	RX330	NS70LX	NS70L	
2006-08	RX350	NS70LX	NS70L	
2008-on	RX350	NS70LX	NS70L	
2001-10	SC430	DIN65LH		
<b>LEYLAND</b>				
1963-70	Austin 1800 MK1, MK2	53	43	
1970-75	Austin Kimberly	53	43	
1959-71	Mini	67	57"	46
1969-83	Mini Clubman, Moke	51	41	
1973-75	P76, 6 & 8 Cyl.	67	57"	46
<b>LOTUS</b>				
1968-on	Eclat 522, Elan	53	43	
1990-92	Elan	DIN53LMF		
1996-01	Elise 1.8 Ltr. 16V Coupe	DIN44LMF		
2000-on	Elise 1.8 Ltr. 16V Cabrio	DIN44LMF		
1997-08	Elise	DIN65LMF		
Current	Elise	75D23L	55D23L"	
2003 - on	Elise 111, S2	DIN44LMF		
1968-on	Elite, Esprit 521, Europa	53	43	
1986-on	Excel	DIN53LMF		
2008	Exige S	DIN65LMF		

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2010-on	Evora	DIN65LMF		
<b>MAZDA</b>				
1977-80	121	NS40ZX	NS40Z	
1987-96	121	NS40ZLSX	NS40ZLS"	
1994-on	121	NS60LS"		
1996-99	121 Metro	75D23L	55D23L"	50D20L
1999-on	121 Metro	NS60LS"		
1996-on	121 Revue	NS60LS"		
2003-09	2	NS40ZLSX	NS40ZLS"	
2010	2	NS40ZLX	NS40ZL"	
2003-on	3	75D23L	55D23L"	
2007-on	3 MZR-CD	N70ZZL4WD	N70ZZL"	
2012-on	3 SP20 (I.S.S)	Q85		
1977-80	323	NS40ZSX	NS40ZS	
1980-91	323	NS40ZLSX	NS40ZLS"	
1994-on	323	75D23L	55D23L"	
1999-on	323 Astina	75D23L	55D23L"	
2005-on	323 Astina	75D23L	55D23L"	
2001-on	323 Protégé	75D23L	55D23L"	50D20L
2012-on	6	Q85		
2002-11	6	75D23L	55D23L"	
2005-on	6 MPS	75D23L	55D23L"	
2007-11	6 Diesel	75D23L	55D23L"	
2012-on	6 Diesel	T110		
1978-83	626 2.0 Ltr.	NS40ZSX	NS40ZS	
1983-87	626 2.0 Ltr.	NS40ZLSX	NS40ZLS"	
1999-on	626 2.0 Ltr.	75D23L	55D23L"	
1994-on	626 2.0 Ltr., 2.5 Ltr., 626 Eclipse	75D23L	55D23L"	
1987-93	626 2.2 Ltr.	NS40ZLSX	NS40ZLS"	
2003-on	626 4 Cyl.	75D23L	55D23L"	50D20L
1984-88	626 Diesel	NS70LX	NS70L"	
1995-on	626 Eclipse	75D23L	55D23L"	50D20L
2001-on	626 Eclipse	68	58"	47
1973-82	929 1.8 Ltr., 2.0 Ltr.	NS40ZX	NS40Z	
1982-87	929 2.0 Ltr.	NS40ZLX	NS40ZL"	
1991-96	929 3.0 Ltr.	75D23L	55D23L"	
1993-96	Astina	75D23L	55D23L"	
1996-on	Astina, Astina V6	75D23L	55D23L"	50D20L
2007	BT50 Diesel	N70ZZ4WD	N70ZZ"	
2012-on	BT50 Diesel	DIN75LMF		
2011-on	Bravo	N70ZZ4WD	N70ZZ"	
2004	Bravo 2.6 Ltr.	75D23R	55D23R"	
1985-on	Bravo 2500 Diesel 2WD, 4WD	N70ZZ4WD	N70ZZ"	
1985-on	Bravo B2600 Petrol 2WD, 4WD	NS70X	NS70"	
2006-on	Bravo B4000 2WD, 4WD	DIN53LMF		
2001-on	B Series 4X4	NS70X	NS70"	
1970-78	Capella	67	57"	46





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1970-78	Capella (Rotary Engine)	NS70X	NS70"	
2012-on	CX5 Petrol (I.S.S)	Q85		
2012-on	CX5 Diesel (I.S.S)	T110		
2007-on	CX7, CX9	75D23L	55D23L"	
2011-on	CX7 Diesel	NS70LX	NS70L"	
2000-on	E Series Van	NS40ZLSX	NS40ZLS"	
1990-on	Mazda Familiar (imp turbo 4WD)	75D23L	55D23L"	
2001-on	Millenia	75D23L	55D23L"	
1998-on	MPV	NS70LX	NS70L"	55D23L"
2006 - on	MX5 (Under Bonnet)	NS60LS"		
1987-91	MX6 4 Cyl. & Turbo	NS40ZLSX	NS40ZLS"	
1990-on	MX6, MX7	75D23L	55D23L"	
2001-on	Premacy	75D23L	55D23L"	
1993-on	Protegé	75D23L	55D23L"	
1972-80	RX3, RX4, RX5	NS70LX	NS70L"	
1980-95	RX7	NS70LX	NS70L"	
2003-on	RX8	75D23L	55D23L"	50D20L
1972-78	Savanah 808, 1600	NS40ZSX	NS40ZS	
1983-89	Travellor	NS40ZSX	NS40ZS	
2001-on	Tribute 4 Cyl. & V6	NS70LX	NS70L"	
	B1600	NS70X	NS70"	
	B1800	NS40ZLSX	NS40ZLS"	
	B2000	NS40ZX	NS40Z	
1980-89	B2200 Diesel	N70ZZLH	N70ZZL"	
1980-91	B2200 Petrol	NS40ZSX	NS40ZS	
2000-on	B2500	67	57"	46
1993-on	B2600 Bravo	67	57"	46
1978-89	E1400	NS40ZSX	NS40ZS	
	E1600, E1800	NS40ZX	NS40Z	
	E2000	NS70X	NS70"	
	E2200	NS70X	NS70"	
1980-89	E2200 Diesel	N70ZZLH	N70ZZL"	
	E2500	NS70X	NS70"	
	E2600	NS70X	NS70"	
<b>MAZERATI</b>				
1998-01	3200 GT	DIN65LMF		
1987-90	Biturbo 425, Coupe, Spyder	DIN53LMF		
2001-on	Quattroportye, Granturismo	DIN65LMF		
<b>MERCEDES BENZ</b>				
2000-on	108CDI Van	DIN65LMF		
1991-on	180E	DIN65LMF	DIN53LMF	
1986-87	190D	DIN85LMF	DIN65LMF	
1984-93	190E, 190E 2.6 Ltr.	DIN65LMF	DIN53LMF	
1966-on	230, 230E, 230GE, 230SL, 230TE	DIN65LMF		
1976-85	240D, 300D	DIN85LMF		
1968-78	250, 250C, 250CE	DIN65LMF		
1976-85	260E, 280, 280C, 280CE, 280E, 280SL, 280SLC, 280TE	DIN65LMF		

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1976-85	280S, 280SE, 280SEL, 300SE, 300SEL	DIN85LMF	DIN65LMF	
1986-on	300D	DIN85LMF	DIN65LMF	
1986-on	300E	DIN85LMF	DIN65LMF	
1986-on	300CE	DIN85LMF	DIN65LMF	
1986-on	320E	DIN85LMF	DIN65LMF	
1986-on	380SL	DIN85LMF	DIN65LMF	
1986-on	450SL	DIN85LMF	DIN65LMF	
1986-on	350SL	DIN85LMF	DIN65LMF	
1986-on	450SLC	DIN85LMF	DIN65LMF	
1991-on	300SE	DIN85LMF		
1991-on	S320	DIN85LMF		
2000-on	312D Sprinter	DIN85LMF	DIN65LMF	
1986-on	380SEC	DIN85LMF		
1986-on	350SE, 350SEL, 380SEL, 420, 450SE, 450SEL	DIN85LMF		
1991-on	400SE, S420	DIN85LMF		
1990-on	500SEL, 500SL, SL500	DIN85LMF		
1986-94	560SEC, 500SEL	DIN85LMF		
1986-89	560SL	DIN85LMF		
1993-on	600SEL	DIN85LMF		
1999-on	A Class	DIN53LMF	DIN44LMF	
2007	A170	DIN65LMF		
2011-on	A180	DIN53LMF		
2009-on	A180CDI	DIN65LH		
2007	A200	DIN53LMF		
2005-on	A200 W169 (Under Floor)	DIN65LMF		
2007	B180 CDI	DIN85LMF		
2007	B200	DIN65LMF		
2009-on	B200	DIN53LHMF		
2007	B200 TURBO	DIN75LMF		
2001-on	C Class W203 Frame	DIN85LMF		
1999-00	C Class, CLK Convertible	DIN85LMF		
1996-on	C180	DIN92LMF	DIN85LMF	
2001-on	C200, C220CDI	DIN85LMF		
2001-07	C220 W203 CDI	DIN85LMF		
2007-on	C220 W204 CDI	DIN85LMF		
1994-on	C250, C280	DIN85LMF		
2009-on	CL500, CL600	DIN85LMF		
2009-on	CLC200	DIN65LH		
2000-on	CLK200	DIN85LMF		
2004	CLK240, Elegance, Avantgarde	DIN85LMF		
2000-on	CLK320	DIN85LMF		
2009-on	CLK350	DIN85LMF		
2002	CLK500	DIN65LMF		
2006-on	CLK63 AMG	DIN85LMF		
2009-on	CLS350	DIN85LMF		
1999-on	E Class	DIN65LMF		
1996-01	E Class W 210 Frame	DIN85LMF		





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1994-95	E220 (210 chassis)	DIN65LMF		
1994-on	E220, E280	DIN65LMF	DIN53LMF	
2005-on	E280	DIN65LMF	DIN53LMF	
1995-02	E230 (211 chassis)	DIN75LMF		
2009-on	E350, E500	DIN65LH		
2009-on	GL3220 CDI, C320 CDI, C63	DIN85LMF		
2005-on	Four Four (smart car)	NS40ZLSX	NS40ZLS"	
2005-on	Four Two (smart car)	DIN53LMF		
2000-on	MB100D Van	DIN65LMF		
2000-on	M Class, ML55	DIN85LMF		
2000-on	ML320 4WD	DIN92LMF	DIN85LMF	
2009-on	ML320 CDI	DIN85LMF		
2004-on	ML350 4x4	DIN85LMF		
2009-on	ML500, ML63, R280CDI	DIN85LMF		
2005-on	Roadster (smart car)	DIN44LMF		
2001-on	S & SL Class W220 Frame	DIN85LMF		
1999-on	S Class	DIN85LMF		
1973-86	S123, S126	DIN65LMF		
2009-on	S320 CDI, S350	DIN85LMF		
2001-on	SLK200, SLK230	DIN85LMF		
2009-on	SL500, SL600	DIN65LH		
2000-04	SLK200 Kompressor, SLK200K	DIN65LH		
2000-on	SLK230	DIN85LMF		
2009-on	SLK350	DIN65LH		
2009-on	Smart	DIN44LMF		
2000-06	Sprinter CDI	DIN85LMF		
2009-on	Viano Petrol	DIN65LH		
2004-on	Viano Diesel	DIN85LMF		
2002-on	Vito 115,120	DIN85LMF		
1999-04	Vito Van 108CDi Diesel	DIN85LMF		
2001-04	Vito Van 112CDi Diesel	DIN65LMF		
2000-on	Vito 113 Van	DIN85LMF		
2003-08	Vito	DIN85LMF		
2000-on	108CDI Van	DIN65LMF		
	230GE	DIN65LMF		
	300GD	DIN85LMF		
2000-on	312D, 412D Sprinter	DIN85LMF		
	D305	86Z	86	
<b>MG</b>				
2001-05	MG ZT	DIN53LMF		
2001	MG ZTT Wagon	DIN65LMF		
2003-on	MG ZT230	DIN53LMF		
2002-on	TF	DIN53LMF		
1954-59	Magnette	67	57"	46
1955-76	MGA 1500, 1600, MGB1800	O3		
1996-on	MGF1.8 Ltr., 1.8 Ltr. VVC	DIN53LMF		

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1968-73	Midget	51	41	
2001-on	Sport Car	DIN53LMF		
<b>MINI (BMW)</b>				
2011-on	Clubman	DIN65LMF		
2011-on	Countryman	DIN65LMF		
2011-on	Roadster, Coupe	DIN65LMF		
2002-on	Mini Cooper	DIN53LMF		
2001-on	Mini Cooper (Under Bonnet)	DIN65LMF		
2004-on	Mini Cooper Cabriolet	DIN53LMF		
2007-on	Mini	DIN65LH		
2002-07	Mini Cooper S R50	DIN65LH		
2002-on	Mini Cooper S	DIN65LMF		
<b>MITSUBISHI</b>				
2005-on	380	75D23R	55D23R"	
2010-on	ASX 2WD Petrol, Aspire	75D23L	55D23L"	
2010-on	ASX 4WD Petrol, Aspire	75D23L	55D23L"	
2010-on	ASX 4WD Diesel	N70ZZL4WD	N70ZZL"	
2010-on	Challenger 2WD 2.5 Ltr. Under Bonnet Diesel	N70ZZ4WD	N70ZZ"	
2010-on	Challenger 4WD, LS, XLS 2.5 Ltr. Under Bonnet Diesel	N70ZZ4WD	N70ZZ"	
1998-09	Challenger, V6 4WD	N70ZZ4WD	N70ZZ"	
1971-78	Chrysler, Valiant	68 / NS70LX	58 " / NS70L"	
1991-07	Colt	75D23L	55D23L"	
2008-on	Colt	NS40ZLSX	NS40ZLS"	
2004-09	Colt Cabriolet	DIN53LHMF		
1983-89	Cordia	NS40ZSX	NS40ZS	
1990-95	Delica	NS70X	NS70"	
1996-on	Delica	67	57"	
1990-95	Eclipse	NS40ZLSX	NS40ZLS"	
1999-on	Escape V6 4WD	75D23R	55D23R"	
1979-87	Express Diesel	N70ZZ4WD	N70ZZ"	
1979-95	Express L200, L300, Express SWB Petrol	NS40ZSX	NS40ZS"	
1991-95	FTO	75D23L	55D23L"	
1996-on	FTO	NS60S"		
1994-on	Galant	67	57"	
1974-94	Galant (except Hardtop)	51	41	
1971-72	Galant GA	51	41	
1973-74	Galant GB	51	41	
1974-75	Galant GC	51	41	
1975-76	Galant GD	51	41	
1974-80	Galant	NS60S"		
1993-on	Galant HG, HH, HT	75D23R	55D23R"	
2000-on	GPX	NS40ZSX	NS40ZS	
2004-08	Grandis	75D23L	55D23L"	
2009-on	Grandis	N70ZZL4WD	N70ZZL"	
2011-on	Lancer SX, VR	75D23L	55D23L"	
2006-on	Lancer ES, LX, VRX 2.0 Ltr.	75D23L	55D23L"	





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2006-on	Lancer VRX 2.4 Ltr.	75D23L	55D23L"	
2006-on	Lancer Ralliart 2.0 Ltr.	75D23L	55D23L"	
1971-88	Lancer	51	41	
1989-94	Lancer	NS40ZLSX	NS40ZLS"	
1994-96	Lancer	NS40ZSX	NS40ZS	
1996-2006	Lancer	NS40ZLSX	NS40ZLS"	
2001-06	Lancer GLXi Wagon	NS40ZSX	NS40ZS	
2003-05	Lancer CG	NS40ZLSX	NS40ZLS"	
2007-on	Lancer CJ	75D23L	55D23L"	
2008-on	Lancer Evolution - Battery in Boot	NS70LX	NS70L"	
2004	Lancer Evolution VIII	NS40ZLSX	NS40ZLS"	
1985-92	Magna	67	57"	
2000-06	Magna	67	57"	
1993-on	Magna (AWD) TL, TW	75D23R	55D23R"	
1993-01	Magna Advance, Altera, Executive	75D23R	55D23R"	
1998-on	Magna Altera LS	75D23R	55D23R"	
1985-on	Magna Elite, Elite 46	67	57"	46
1993-on	Magna LS, ES, C, VRX	75D23R	55D23R"	
1993-01	Magna Solara, Sport, TH, TJ	75D23R	55D23R"	
1996-97	Mirage	NS40ZSX	NS40ZS	
1997-01	Mirage	NS40ZLSX	NS40ZLS"	
2013-on	Mirage ES, LS, Sport 4,	75D23L	55D23L"	
1984-91	Nimbus	NS40ZLSX	NS40ZLS"	
1992-98	Nimbus	51	41	
1999-on	Nimbus	53	43 / NS60S"	
2000-on	Nimbus, Nimbus UG	NS40ZLSX	NS40ZLS"	
2003-on	Outlander	75D23L	55D23L"	
2012-on	Outlander ES, LS 2WD 2.0 Ltr. Petrol	75D23L	55D23L"	
2012-on	Outlander LS 4WD DID 2.2 Ltr., Aspire 4WD 2.2 Ltr. Diesel	N70ZZ4WD	N70ZZ"	
2012-on	Outlander ES, LS, Aspire 4WD 2.4 Ltr. Petrol	75D23L	55D23L"	
2013-on	Pajero Exceed 3.0 Ltr. Petrol	75D23L	55D23L"	
2013-on	Pajero GLX, GLX-R, VRX, Exceed 3.2 Ltr. Diesel	NS70X	NS70"	
2003-on	Pajero 3200 Diesel	N70ZZL4WD	N70ZZL"	
1983-95	Pajero Diesel	N70ZZ4WD	N70ZZ"	
1999-on	Pajero iO 4 Cyl.	75D23L	55D23L"	
1983-95	Pajero Petrol	N70ZZ4WD	N70ZZ"	
2007	Pajero LWB	75D23L	55D23L"	
1996-03	Pajero V6	N70ZZ4WD	N70ZZ"	
2004-on	Pajero V6	N70ZZL4WD	N70ZZL"	
1999-03	Pajero V6 3500	NS70X	55D23R"	
2003-on	Pajero Exceed	N70ZZL4WD	N70ZZL"	
1996-on	Pajero iO Challenger	N70ZZ4WD	N70ZZ"	
2001-04	Pajero GL, GLX, GLS	75D23L	55D23L"	
1978-80	Scorpion	51	41 / NS60S"	
1981-85	Scorpion	68 / NS70LX	58" / NS70L"	
1977-79	Sigma 1600, 1850	51	41	
1977-79	Sigma 1850	51	41	

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1980-87	Sigma 2000, 2600, 2.6 Ltr., STARION	68 / NS70LX	58" / NS70L"	
1994-on	Starwagon	NS70X	NS70"	
1986-05	Starwagon 2.0 Ltr., 2.4 Ltr.	NS40ZLSX	NS40ZLS"	
2013-on	Triton 4x2 GL 2.4 Ltr. Petrol	75D23L	55D23L"	
2013-on	Triton 4x2 GLX 2.5 Ltr. Diesel	N70ZZ4WD	N70ZZ"	
2013-on	Triton 4x4 GLX, GL-R, GLX-R 2.5 Ltr. Diesel	N70ZZ4WD	N70ZZ"	
2001-06	Triton	N70ZZ4WD	N70ZZ"	
2007-on	Triton	N70ZZ4WD	N70ZZ"	
1999-on	Triton 2.8 Ltr. Diesel	N70ZZ4WD	N70ZZ"	
1999-00	Triton 3.0 Ltr. V6	NS70X	NS70"	
1993-on	Triton Cab	75D23R	55D23R"	
1987-92	Triton Cab, Utility	NS70X	NS70"	
1996-on	Triton Dual Cab Utility 2.8 Ltr. Diesel	N70ZZ4WD	N70ZZ"	
1996-on	Triton Dual Cab Utility V6 3.0 Ltr.	NS70X	NS70"	
2003-on	Triton GL 3.0 Ltr.	NS70X	NS70"	
2004-on	Verada	75D23R	55D23R"	
1991-on	Verada KH, KJ	67	57"	46
	Express Diesel	N70ZZH	N70ZZ"	
	Express Petrol	NS40ZX	NS40Z/NS60S"	
1984-91	Nimbus	NS40ZLSX	NS40ZLS"	
1992-99	Nimbus	51	41	
2000-on	Nimbus	NS40ZLSX	NS40ZLS"	
2000-on	Nimbus UG	NS40ZLSX	NS40ZLS"	
<b>NIKI</b>				
1989-94	All Models	DIN53LMF		
<b>NISSAN</b>				
1970-79	120Y, 1200	51	41	
1967-81	1300, 1600, 1600S	67	57"	46
1967-on	1800, 1900, 2000, 2300, 2400	NS70X	NS70"	
1972-81	180B, 200B	67	57"	46
1994-00	200SX SR20 DET	75D23R	55D23R"	
2000-02	200SX SR20 DET	NS60S"		
1971-78	240, 260 Series	67	57"	46
1978-84	280 Series	67	57"	46
1967-on	300C, 300ZX	NS70LX	NS70L"	
2003-09	350Z	75D23L	55D23L"	
2009-on	370Z	75D23L	55D23L"	
1980-85	720	N70ZZ4WD	N70ZZ"	
1994-on	Bluebird SSS	75D23L	55D23L"	
1986-on	Bluebird V6, SGX, Turbo	NS70X	NS70"	
1981-86	Bluebird Stanza	67	57"	46
2007 -on	Dualis, Dualis +2	DIN53LHMF		
1983-87	EXA	NS40ZLSX	NS40ZLS"	
1987-on	EXA (Turbo)	67	57"	
1964-70	Fairlady	51	41	
1984-88	Gazelle	NS40ZLSX	NS40ZLS"	





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2009-on	GT-R	NS60LS"		
2012-on	Leaf	NS60LS"		
1990-95	Maxima	68	58"	
1995-99	Maxima	NS70LX	NS70L"	
2000-on	Maxima A33 V6	75D23L	55D23L"	
1996-97	Maxima & Touring	75D23L	55D23L"	
2002-on	Maxima ST V6	75D23L	55D23L"	
1994-on	Maxima VQ30DE, VQ35DE, VQ25DE	75D23L	55D23L"	
1996-06	Micra	NS60L"		
2007-on	Micra	NS60L"		
2005-09	Murano	75D23R	55D23R"	
2009-on	Murano	75D23L	55D23L"	
1985-04	Navara Diesel D21	N70ZZ4WD	N70ZZ"	
2012-on	Navara Diesel D22 (Thai Built)	NS70LX / NS70X	NS70L" / NS70"	
1985-04	Navara Diesel D22	N70ZZ4WD	N70ZZ"	
1985-94	Navara Petrol D22	75D23R	55D23R"	
1997-08	Navara Petrol D22	75D23R	55D23R"	
2008-on	Navara Diesel D22 YD25DDTi	75D23R	55D23R"	
2001-08	Navara Diesel Turbo ZD30DDT	N70ZZ4WD	N70ZZ"	
2012-on	Navara Diesel D40 Dual Cab	DIN85LMF		
2005-on	Navara Petrol D41 VQ40DE (Petrol V6)	DIN65LH		
1974-80	Nissan E20	67 / NS70X	57" / NS70"	
1988-93	Nomad, NX Coupe	NS40ZLSX	NS40ZLS"	
1988-92	Pathfinder	67 / NS70X	57" / NS70"	
1998-on	Pathfinder	NS70X	55D23R"	
2005-on	Pathfinder Diesel Turbo	DIN65LMF		
1995-05	Pathfinder Petrol	75D23L	55D23L"	
1993-98	Pathfinder V6 Wagon, Twincab	67	57"	
2005-on	Pathfinder V6	DIN65LMF		
2005-on	Pathfinder STL	DIN65LH		
Current	Pathfinder	N70ZZL4WD	N70ZZL"	
2013-on	Patrol Y62	N70ZZ4WD	N70ZZ"	
2003-on	Patrol 4.8i ST-6	NS70LX	NS70L"	
1987-99	Patrol Y60 TD42 Diesel, RB30S, TB42S, TB42E, RD28T Diesel Turbo	N70ZZL4WD	N70ZZL"	
1994-99	Patrol Y60 RD28T Diesel Turbo	N70ZZL4WD	N70ZZL"	
1997-00	Patrol Y61 RD28T, RD28Ti Diesel Turbo	N70ZZL4WD	N70ZZL"	
1997-01	Patrol Y61 TB45E	NS70LX	NS70L"	
1997-07	Patrol Y61 TD42, TD42T, TD42Ti Diesel / Diesel Turbo	N70ZZL4WD	N70ZZL"	
2000-on	Patrol Y61 ZD30DDTi Diesel Turbo	N70ZZL4WD	N70ZZL"	
2007-on	Patrol TY61 ZD30DDTi Diesel Turbo	N70ZZL4WD	N70ZZL"	
2001-on	Patrol Y61 TB48DE	N70ZZL4WD	N70ZZL"	
1999-07	Patrol TY61 TD42, TD42T, TD42Ti Diesel / Diesel Turbo	N70ZZL4WD	N70ZZL"	
1986-89	Pintara	67	57"	46
1989-93	Pintara	68	58"	47
1983-85	Prairie	NS40ZSX	NS40ZS / NS60"	
2013-on	Pulsar B17 Sedan EFI, C12 Hatch EFI	75D23L	55D23L"	
2013-on	Pulsar C12 Hatch Turbo	75D23L	55D23L"	

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1981-93	Pulsar	NS40ZLSX	NS40ZLS"	
1993-94	Pulsar	NS40ZLSX	NS40ZLS"	
1995-00	Pulsar	NS40ZLSX	NS40ZLS"	
2000-05	Pulsar	NS40ZLX	NS40ZL"	
1994-98	Pulsar Auto	NS40ZSX	NS40ZS / NS60LS"	
1995-00	Pulsar N15 SR20DE, GA16DE	NS40ZLSX	NS40ZLS"	
2000-05	Pulsar N16 1.8 Ltr. ST	NS40ZLX	NS40ZL"	
2000-03	Pulsar N16 1.8 Ltr. ST (Hatch only)	DIN53LMF		
2000-06	Pulsar Sedan	NS40ZLX	NS40ZL"	
1999-03	Pulsar Q	NS40ZLSX	NS40ZLS"	
2003-on	Pulsar Q	NS40ZLSX	NS40ZLS"	
1999-on	Pulsar SS	NS40ZLSX	NS40ZLS"	
1998-on	Pulsar, ST	NS40ZLSX	NS40ZLS"	
1993-on	Serena Wagon	NS70X	NS70"	
1978-90	Skyline	67	57"	46
1990-on	Skyline Imported	NS40ZLX	NS40ZL"	
2000-on	Skyline Coupe	NS60L"		
1978-83	Stanza	67	57"	46
1979-86	Sunny, Sylvia 2.0 Ltr. GL	51	41	
1994-on	SX V6 3.0 Ltr.	75D23L	55D23L"	
1990-on	Sylvia	NS40ZLSX	NS40ZLS"	
1999-on	Terrano 2.7 Ltr. TDI	NS70X	NS70"	
1997-on	Terrano Diesel	NS70X	NS70"	
1997-on	Terrano Petrol	75D23R	55D23R"	
2005-06	Tiida	NS60LS"		
2006-on	Tiida	NS60L"		
1990-on	Urban Diesel	N70ZZL4WD	N70ZZL"	
1974-92	Urban Petrol	NS70X	NS70"	
1980-92	Urban Petrol	N70ZZ4WD	N70ZZ"	
1981-93	Vanette	NS40ZSX	NS40ZS / NS60S"	
1986-88	Vector	67	57"	46
1989-on	Vector	NS40ZLSX	NS40ZLS"	
2001-07	X-Trail	75D23L	55D23L"	
2008-on	X-Trail	75D23L	55D23L"	
2009-on	X-Trail, Diesel Turbo	NS70LX	NS70L"	
<b>NISSAN (DATSUN)</b>				
	120, 240 2Tonne	NS70X	NS70"	
	620 1Tonne, E20	NS70X	NS70"	
1980-85	720 Diesel	N70ZZH	N70ZZ"	
1980-85	720 Petrol	67	57"	
1990-on	Urvan Diesel	N70ZZH	N70ZZ"	
1974-92	Urvan Petrol	NS70X	NS70"	
1981-93	Vanette	NS40ZSX	NS40ZS	
<b>OPEL</b>				
2012-on	Corsa	DIN65LMF		
2012-on	Astra Petrol	DIN65LMF		
2012-on	Astra Diesel	DIN65LH		







MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2012-on	Insignia Diesel	DIN75LMF		
2012-on	Insignia Petrol	DIN65LMF		
2012-on	Corsa 1.4 Ltr. Auto	DIN65LMF		
2012-on	Astra Hatchback 1.4 Ltr. VVT Turbo Petrol	DIN65LMF		
2012-on	Astra Sports Tourer 2.0 Ltr. CDTi Turbo Diesel	DIN85LMF		
2012-on	Astra GTC 2.0 Ltr. Petrol Manual OPC	DIN65LMF		
2012-on	Insignia 2.0 Ltr. Petrol Auto / Active Select	DIN65LMF		
2012-on	Insignia 2.8 Ltr. Petrol Auto OPC	DIN65LMF		
<b>PEUGEOT</b>				
1987-93	205	DIN44LMF		
1993-on	205	DIN53LMF		
1990-98	205 1.6 i	DIN44LMF	M96-12MF	
1986-94	205 1.9 i	DIN44LMF	M96-12MF	
1999-07	206	DIN53LHMF		
1999-07	206 HDI	DIN44LMF		
2001-on	206 Convertible	DIN53LMF		
1999-06	207, 207 HDI	DIN44LMF		
2007-on	207	DIN53LHMF		
2012-on	208 1.2 Ltr., 1.6 Ltr.	DIN44LMF		
1994-02	306	DIN53LMF	DIN44LMF	
1993-03	306 1.8 i	DIN44LMF	M96-12MF	
1997-on	306 1.8 i 16V, 1.8 i Break, 1.8 i 16V Cabriolet	DIN44LMF	M96-12MF	
1997-on	306 2.0 i 16V Break, 2.0 i 16V Cabriolet	DIN44LMF	M96-12MF	
1993-03	306 2.0 i 16V	DIN44LMF	M96-12MF	
2001-on	306 XT HDI, 2.0 Ltr. Rallye, XSI	DIN44LMF		
2001-on	306 2.0 Ltr. Rallye	DIN44LMF		
2001-07	307 XS	DIN53LMF		
2001-07	307 HDI	DIN65LH		
2001-09	307 XSE, XSI	DIN53LMF		
2008-09	308	DIN53LHMF		
2009-on	308 Diesel (Excluding EHDi)	DIN65LH		
2010-on	3008	DIN53LHMF		
1955-86	403, 404	67	57"	46
1989-97	405	DIN53LHMF		
1995-96	405Mi 1.6 Ltr.	DIN53LMF	DIN44LMF	
1996-on	405 SRDT	DIN65LMF		
1995	406 2.0 Ltr.	DIN53LMF		
1996-03	406	DIN53LHMF		
2004-11	407	DIN65LMF		
2006-on	407 HDI V6	DIN65LH		
2010-on	4007	DIN65LMF		
2010-on	4007 HDI Diesel	N70ZZL4WD		
2012-on	4008	NS70LX	NS70L"	
1955-76	504	48L		
1977-87	504	67	57"	46
1979-87	504 GLD	N70ZZ4WD	N70ZZ"	
1975-76	504 GTI	51	41	

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1980-93	505	67	57"	46
1980-93	505 Diesel , 505 Turbo	N70ZZ4WD	N70ZZ"	
2011-on	508 Diesel (Excludig HDI)	DIN65LH		
2011-on	508 Petrol	DIN65LH		
1978-81	604	67	57"	46
1994-96	605	DIN53LHMF		
2001-09	607	DIN65LH		
2010-on	Expert	DIN65LH		
2008-on	Partner	DIN65LH		
2010-on	RCZ	DIN53LHMF		
<b>PORSCHE</b>				
2003-on	110 4WD	DIN92LMF		
1969-94	911	DIN65LMF		
2001-04	911 Carrera, Cabriolet	DIN65LMF		
1969-94	911S, 911SC, 911SC Turbo, 911 E	DIN65LMF		
1968-73	911T	DIN53LMF		
2001-on	911 GT2	DIN85LMF		
1977-82	924	DIN53LMF		
1980-92	928, 928S	DIN85LMF	DIN65LMF	
1987-88	928 S4	DIN65LMF		
1983-94	944, 944S	DIN53LMF		
1985-on	959, 964	DIN65LMF		
1992-on	968	DIN53LMF		
1997-04	Boxster	DIN65LMF		
2005-09	Boxster	DIN53LMF		
2003-10	Cayenne	DIN85LMF		
2011-on	Cayenne	DIN75LMF		
2011-on	Cayman	DIN53RMF		
2009-on	Panamera	DIN75LMF		
<b>PROTON</b>				
2004-on	Gen 2	DIN53RMF		
2003-on	Jumbuck	75D23R	55D23R"	
1997-on	M21 Coupe	67	57"	46
1996-98	Persona	67	57"	46
1999-on	Persona	75D23R	55D23R"	
1994-on	Proton	67	57"	46
2011-on	S16	75D23L	55D23L"	
1987-89	Saga	NS40ZSX	NS40ZS	
1997-98	Satria	67	57"	46
1999-on	Satria Neo	75D23R	55D23R"	
2006	Savvy	NS60LS"		
2002-on	Waja	75D23L	55D23L"	
1994-on	Wira	67	57"	46
<b>RANGE ROVER</b>				
2011-on	Evoque	DIN65LMF		





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1996-00	Range Rover 4.0 Ltr. / 4.6 Ltr.	86ZMF		
2000-03	Range Rover 75 Series	DIN65LMF		
1990-93	Range Rover Diesel	N70ZZ4WD	N70ZZ"	
1996-98	Range Rover Diesel	NS70X	NS70"	
2007-on	Range Rover Diesel	DIN85LMF		
2003-on	Range Rove HSE	DIN85LMF		
2011-on	Range Rover Sport / Vogue	DIN85LMF		
<b>RENAULT</b>				
1977-83	14 Virage	53	43	
1968-77	16, 16 TL, 16 TS	53	43	
1973-80	17 TL, 17 TS	53	43	
1980-84	18, 18 GTS	DIN53LMF		
1993-94	19	DIN53LMF		
1996-on	19	DIN53LMF	DIN44LMF	
1992-94	19 TXE, 19 RT	67	57"	46
1979-84	20 TS	68	58"	47
1985-89	21 TSE, 21 TXE, 25 GTV	67	57"	46
2005-08	Clio Phase III 1.4 Ltr., 1.6 Ltr.	DIN53LHMF		
2001-05	Clio Phase II 1.4 Ltr., 1.6 Ltr.	DIN53LHMF		
2000-01	Clio Sport Phase I	DIN44LMF		
2004-on	Clio Sport Phase III	DIN44LMF		
2001-04	Clio Sport Phase II	DIN53LHMF		
2008-on	Clio Sport 2L Petrol RS	DIN53LHMF		
2001-07	Clio, Clio Sport 2.0 Ltr.	DIN53LMF		
2007-10	Grande Service	DIN53LMF		
1982-87	Fuego GTX	67	57"	46
2010-on	Fluence	DIN65LH		
2004-on	Kangoo Diesel	DIN65LH		
2008-on	Kangoo Petrol	DIN65LMF		
2008-09	Koleos	NS70LX	NS70L"	
2010-on	Koleos	DIN65LH		
2006-11	Laguna Diesel	DIN75LHMF		
1995-05	Laguna Petrol	DIN65LH		
2004-06	Laguna II V6	DIN65LMF		
2005-11	Laguna III Diesel	DIN75LMF		
2005-on	Laguna III Petrol	DIN65LMF		
2011-on	Lattitude Diesel	DIN65LH		
2011-on	Lattitude Petrol	DIN65LMF		
2004-11	Master	DIN92LMF		
2011-on	Master II	DIN85LMF		
2011-on	Megane 1.5 Ltr. Diesel	DIN75LHMF		
2001-03	Megane 1.6 Ltr. Petrol	DIN65LH		
2003-09	Megane 1.6 Ltr. Petrol	DIN65LMF		
2007-10	Megane 1.9 Ltr. Diesel	DIN65LMF		

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2008-10	Megane 2.0 Ltr. Diesel	DIN65LMF		
2003-on	Megane 2.0 Ltr. Petrol	DIN65LMF		
2001-05	Megane Cabriolet	DIN44LMF		
2005-on	Megane I Cabrio	DIN53LMF		
2005-on	Megane II Automatic	DIN65LMF		
2005-on	Megane II Manual	DIN44LMF		
2005-on	Megane II Sport	DIN53LMF		
2010-on	Megane III	DIN65LH		
2010-on	Megane III RS250	DIN65LH		
2004	Megane Coupe	DIN44LMF		
2004	Megane RS 175 Diesel	DIN65LH		
1985-91	R25	67	57"	46
2001-04	Scenic	DIN53LHMF		
2005-09	Scenic	DIN65LH		
2001-03	Scenic RX4	DIN65LH		
2004-on	Trafic	DIN65LMF		
2011-on	Traffic II	DIN75LMF		
2011-on	Trafic M9R	DIN85LMF		
<b>ROLLS ROYCE</b>				
1955-86	All Models	N70ZZ4WD	N70ZZ"	
1986-on	All Models	NS70X	NS70"	
<b>ROVER</b>				
1965-91	2000, 2000TC	67	57"	
1968-79	3.5 Ltr., 3500, 3500S	N70ZZ4WD	N70ZZ"	
1986-87	416i	51	41	
1988-92	416i	68	58"	
2001-on	75 Series	DIN65LMF		
1988-91	825, 827	68	58"	
<b>SAAB</b>				
1994-on	2.5 Ltr. V6, 900	DIN53LMF		
1994-on	900S-SL, 900 2.0 Ltr., 900S-SL, 9000	DIN65LMF	DIN53LMF	
1996-on	9000	DIN53LMF		
1995-on	9000 V6	67	57"	
1997-on	93, 93 SE, 93 Viggen	DIN53LMF		
2004	93 Convertible, Sport Combi, Sport Sedan	DIN53LMF		
2001-on	95 S/SE	DIN65LMF		
1998-on	95 Convertible, 95 LPT	DIN65LMF		
2004	95 Sport Estate, Sedan	DIN65LMF		
1998-on	95 Estate, Griffen	DIN65LMF		
1973-95	All Models	NS70X	NS70"	
<b>SEAT</b>				
1994-on	Cordoba, Toledo Diesel	DIN65LMF		
1994-on	Cordoba, Toledo Petrol	DIN53LMF		
1994-on	Ibiza 1.2 Ltr., 1.5 Ltr.	DIN53RMF		
<b>SKODA</b>				
1974-78	110G	67	57"	
2011-on	Fabia	DIN53LHMF		





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2010-on	Octavia 1.4 Ltr. Petrol	DIN44LMF		
2009-on	Octavia 1.6 Ltr. Petrol	DIN65LH		
2007-on	Octavia 1.8 Ltr., 2.0 Ltr. Petrol	DIN65LH		
2007-on	Octavia Diesel	DIN65LH		
2007-on	Roomster 1.6 Ltr. Petrol, 1.9 Ltr. Diesel	DIN53LHMF		
1979-80	S120L	67	57"	46
2009-on	Superb 1.8 Ltr. Petrol, 2.0 Ltr. Diesel	DIN65LH		
2009-on	Superb 3.6 Ltr. Petrol	DIN75LHMF		
2009-on	Superb Roomster Diesel	DIN53LHMF		
2011-on	Yeti Diesel	DIN53LHMF		
2011-on	Yeti Petrol	DIN44LMF		
<b>SSANGYONG</b>				
2007-on	Actyon	N70ZZ4WD	N70ZZ"	
2003-08	Chairman	DIN92LMF		
1998-02	Korando 4WD Petrol	67	57"	
2003-on	Korando	N70ZZ4WD	N70ZZ"	
2006-12	Kyron	N70ZZ4WD	N70ZZ"	
1996-06	Musso 4WD Diesel 2.9 Ltr., 3.2 Ltr.	N70ZZ4WD	N70ZZ"	
1996-06	Musso 4WD Petrol	N70ZZ4WD	N70ZZ"	
2005-11	Rexton	N70ZZ4WD	N70ZZ"	
2011-on	Rexton II	N70ZZ4WD	N70ZZ"	
2005-12	Stavic	N70ZZ4WD	N70ZZ"	
<b>SUBARU</b>				
1973-91	All Models (Except Sherpa)	NS40ZX	NS40Z	
1983-94	Brumby DL 4WD	NS40ZX	NS40Z / NS60"	
Current	Exiga	75D23L	55D23L	
1989-92	Fiori	NS40ZLX	NS40ZL"	
1998-on	Forester	75D23L	55D23L"	
1999-on	Forester Limited	75D23L	55D23L"	
2002-on	Forester GT	75D23L	55D23L"	
2010-on	Forrester X, XS,XT	75D23L	55D23L"	
1999-on	Heritage	NS40ZSX	NS40ZS	
2012-on	Impreza (I.S.S)	Q85		
1993-09	Impreza	NS40ZLX	NS40ZL"	
2010-on	Impreza R, RS, RX	NS60L"		
1998-on	Impreza STI	75D23L	55D23L"	
1996-on	Impreza GX	NS40ZLX	NS40ZL"	
1999-on	Impreza RX, AWD, GX, RV	NS60L"		
1993-02	Impreza WRX, Hatch	NS40ZLX	NS40ZL"	
2003-09	Impreza WRX, WRX Hatch	75D23L	55D23L"	
1978-92	L-Series	NS40ZLSX	NS40ZLS"	
1986-95	Leone	NS40ZLX	NS40ZL"	
2008-on	Legacy	NS60L"		
1986-95	Liberty	NS40ZLX	NS40ZL"	
2010	Liberty	75D23L	55D23L"	

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2001-04	Liberty B4	75D23L	55D23L"	
1996-on	Liberty GX, LX, RX 2.5 Ltr.	NS60L"		
2004-on	Liberty GT, 3.0 Ltr.	75D23L	55D23L"	
2010	Liberty 3.6 Ltr.	75D23R	55D23R"	
1995-97	Liberty RS Turbo	NS40ZLSX	NS40ZLS"	
1999-on	Liberty RX 2.5 Ltr.	NS40ZSX	NS40ZS	
1986-on	Omega	75D23L	55D23L"	
2004-09	Outback 4 Cyl. 2.0 Ltr., 2.0 Ltr. Turbo	75D23L	55D23L"	
2004-09	Outback 4 Cyl. 2.5 Ltr.	NS60LS"		
2004-09	Outback 6cyl 3.0 Ltr.	75D23L	55D23L"	
2010	Outback 4 Cyl.	75D23L	55D23L"	
1999-03	Outback H6	75D23L	55D23L"	
2010	Outback 3.0 Ltr.	75D23R	55D23R"	
1983-86	Sherpa	12N24-3	U1RMF	
1987-93	Sherpa	NS40ZLX	NS40ZL" / NS60L"	
1992-95	SVX	68	58"	47
2007-on	Tribeca	75D23L	55D23L"	
1985 - 87	Vortex	NS60LS"		
1988-93	Vortex	NS40ZLX	NS40ZL" / NS60L"	
2012-on	XV	Q85		
<b>SUZUKI</b>				
1996-99	Alto	NS40ZLSX	NS40ZLS"	
2009-on	Alto	NS40ZLX	NS40ZL"	
2010-on	APV Van	NS40ZLX	NS40ZL"	
1999-on	Baleno	NS40ZLSX	NS40ZLS"	
1996-on	Baleno 1.6 Ltr., 1.8 Ltr.	NS60LS"		
1995-on	Baleno X90	NS40ZLSX	NS40ZLS"	
2001-on	Carry 4X4	NS40ZSX	NS40ZS	
1983-90	Carry Van	12N24-3	U1RMF	
1995-on	Cino	NS40ZLX	NS40ZL"	
2001-on	Grand Vitara	68	58"	
2000-05	Ignis	NS40ZLSX	NS40ZLS"	
1999-00	Jimny	NS40ZSX	NS40ZS	
2001-02	Jimny	NS40ZLX	NS40ZL"	
2003-on	Jimny	NS40ZSX	NS40ZS	
2010-on	Kazashi	75D23L	55D23L"	
2001-on	Liana	NS60L"		
1971-82	LJ50, LJ80, LJ81 4WD	NS40ZX	NS40Z	
1983-90	Mighty Boy	12N24-3	U1RMF	
1998-on	R+ Wagon	NS40ZLX	NS40ZL"	
1986-93	Sierra, Vitara	NS40ZX	NS40Z	
1986-04	Swift	NS40ZX	NS40Z	
2005-on	Swift	NS60"		
1996-on	Swift 1.6 Ltr.	NS40ZX	NS40Z	
2005	Swift S 5DR H/Back	NS60"		





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2007-on	Swift Sport	NS60"		
2010-on	SX4	NS60L"		
1996-on	Sierra 1.3 Ltr.	NS40ZX	NS40Z	
2000-on	X90 Targa	NS60L"		
1994-on	Vitara	NS40ZLX	NS40ZL"	
1996-on	Vitara 1.6 Ltr.	NS40ZLSX	NS40ZLS" / NS60LS"	
1996-on	X90 1.6 Ltr.	NS40ZLSX	NS40ZLS" / NS60LS"	
2005-08	Grand Vitara (JB416)	NS40ZLSX	NS40ZLS"	
2007-on	Grand Vitara (JB419)	NS40ZLX	NS40ZL"	
2005-08	Grand Vitara (JB420-JB627)	75D23L	55D23L"	
2008-on	Grand Vitara (JB424-JB632)	NS70LX	NS70L"	
1998-05	Grand Vitara 4-6 Cyl.	75D23L	55D23L"	
1996-on	Vitara 2.0 Ltr., V6	75D23L	55D23L"	
1992-on	Vitara Cabrio 2 Door	NS40ZLSX	NS40ZLS"	
1999-on	Vitara Grand V6	NS70LX	55D23L" / NS70L"	
2005	Vitara Grand	75D23L	55D23L"	
1998-on	Vitara Wagon R	NS60LS"		
2001-05	XL-7	75D23L	55D23L"	
2003	XLT	75D23L	55D23L"	
1973-on	Hatch, Mighty Boy, Super Carry, LJ50, JL50V, L60V, L61, LJ80V	NS40ZX	NS40Z / NS60"	
1979-on	LJ81K, ST10V, ST20V, ST80V	NS40ZX	NS40Z / NS60"	
<b>TOYOTA</b>				
1984-93	4 Runner Diesel	NS70X	NS70"	
1974-95	4 Runner V6	NS70X	NS70"	
1987-92	4 Runner Petrol YN60	NS40ZSX	NS40ZS / NS60S"	
1987-92	4 Runner Petrol YN63	NS40ZSX	NS40ZS / NS60S"	
2001-on	Accent	NS40ZX	NS40Z	
2003-on	Altise	75D23L	55D23L"	
2007-09	Aurion TRD 3500S	75D23L	55D23L"	
2007-09	Aurion TRD 3500SL	75D23L	55D23L"	
2000-05	Avalon Conquest	75D23L	55D23L"	
2000-05	Avalon CSX	75D23L	55D23L"	
2000-05	Avalon VXi	75D23L	55D23L"	
2000-05	Avalon Grande	75D23L	55D23L"	
2000-05	Avalon Sorrento	75D23L	55D23L"	
2000-05	Avalon Advantage	75D23L	55D23L"	
1985-87	Avante	NS40ZLSX	NS40ZLS"	
2003-on	Avensis	75D23L	55D23L"	
2009	Avensis Tourer	NS60L"		
2001-03	Avensis GLX (People Mover)	75D23L	55D23L"	
2001-03	Avensis Ultima (People Mover)	75D23L	55D23L"	
1985-91	Bundera 2.6 Ltr.	NS70X	NS70"	
1985-91	Bundera Diesel	N70ZZ4WD	N70ZZ"	
1990-92	Camry 4 Cyl.	NS40ZLSX	NS40ZLS"	
2002-06	Camry Altise 4 Cyl.	75D23L	55D23L"	
2002-06	Camry Limited 4 Cyl.	75D23L	55D23L"	

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2002-06	Camry Ateva 4 Cyl.	75D23L	55D23L"	
2002-06	Camry Sportivo 4 Cyl.	75D23L	55D23L"	
2002-06	Camry Altise V6	75D23L	55D23L"	
2002-06	Camry Altise Sport V6	75D23L	55D23L"	
2002-06	Camry Altise Limited V6	75D23L	55D23L"	
2002-06	Camry Ateva V6	75D23L	55D23L"	
2002-06	Camry Sportivo V6	75D23L	55D23L"	
2002-06	Camry Azzura V6	75D23L	55D23L"	
2002-06	Camry Grande V	75D23L	55D23L"	
1999-on	Camry Conquest	58"	55D23L"	
1999-on	Camry CSI 380N	58"	55D23L"	
1983-87	Camry GLi	NS40ZLSX	NS40ZLS"	
1984	Camry Hatchback Import	NS40ZSX	NS40ZS	
1993-on	Camry SDV10	58"	55D23L"	
1987-92	Camry SV20	NS40ZLSX	NS40ZLS"	
1988-on	Camry VZV21 6 Cyl.	58"	55D23L"	
2002-08	Camry	58"	55D23L"	
2000-on	Celica	53	43	
1990-on	Celica GT4 Turbo 4WD	N70ZZ4WD	N70ZZ"	
1972-91	Celica ST184	53	43	
1991-on	Celica ST184	75D23L	55D23L"	
1991-on	Celica ST185	75D23L	55D23L"	
1999-2005	Celica SX	NS60L"		
1999-2005	Celica ZR	NS60L"		
1999-2005	Celica TTR LE	NS60L"		
1999-01	Corolla Ascent	NS40ZLSX	NS40ZLS"	
2002-07	Corolla Ascent	NS60L"		
2001-07	Corolla Ascent Sport	NS60L"		
2001-07	Corolla Ascent Conquest	NS60L"		
1999-00	Corolla Conquest	NS40ZLSX	NS40ZLS"	
1999-00	Corolla Levin	NS40ZLSX	NS40ZLS"	
2001-07	Corolla Levin	NS60L"		
2007-on	Corolla Levin ZR	75D23L	55D23L"	
2001-07	Corolla Ultima	NS60L"		
2001-07	Corolla TTR LE	NS60L"		
2001-06	Corolla Sportivo	NS60L"		
2007-on	Corolla Sportivo	53	43	
1974-82	Corolla	53	43	
2008	Corolla	NS60LS"		
1983-89	Corolla 1300	NS40ZLSX	NS40ZLS"	
1983-89	Corolla 1300 CS	NS40ZLSX	NS40ZLS"	
1983-89	Corolla 1300 CS-X	NS40ZLSX	NS40ZLS"	
1983-89	Corolla 1300 S	NS40ZLSX	NS40ZLS"	
1983-89	Corolla 1300 SE	NS40ZLSX	NS40ZLS"	
1990-on	Corolla AE90 1.6 Ltr.	NS40ZLSX	NS40ZLS"	
1990-on	Corolla AE93 1.6 Ltr.	NS40ZLSX	NS40ZLS"	
1990-on	Corolla AE95 1.6 Ltr.	NS40ZLSX	NS40ZLS"	





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1990-on	Corolla AE92 1.8 Ltr.	53	43	
1990-on	Corolla AE94 1.8 Ltr.	53	43	
1990-on	Corolla AE96 1.8 Ltr.	53	43	
1990-on	Corolla AE101 1.8 Ltr.	53	43	
1990-on	Corolla AE102 1.8 Ltr.	53	43	
2007-on	Corolla ZRE152R 1.8 Ltr.	NS60LS"		
1972-83	Corona	53	43	
1984-87	Corona	NS40ZLSX	NS40ZLS"	
1977-82	Cressida	53	43	
1983-94	Cressida	75D23L	55D23L"	
1971-83	Crown	NS70X / 67	NS70" / 57"	
1983-88	Crown Royal	NS70LX / 68	NS70L" / 58"	
2001-on	Echo	NS40ZSX	NS40ZS	
1999-05	Echo Manual Hatch, Sportivo, Rush LE, Sedan	NS40ZX	NS40Z"	
1995-05	Echo Auto Hatch, Sportivo, Rush LE, Sedan	NS60"		
1994-05	Hiace Van All Diesel Models	N70ZZH	N70ZZ"	
1994-05	Hiace Van All Petrol Models	75D23R	55D23R"	
1995-03	Hiace SBV Van All Models	75D23R	55D23R"	
1984-94	Hi-Ace Petrol	75D23R / NS70X	55D23R" / NS70"	
2004-on	Hi-Ace SBV	75D23R	55D23R"	
1980-92	Hi-Ace	NS40ZSX	NS40ZS	
1980-92	Lite Ace CM36	NS40ZSX	NS40ZS	
1980-92	HiLux	NS40ZSX	NS40ZS	
1997-05	HiLux 4x2 Diesel Std	N70ZZ4WD	N70ZZ"	
1997-05	HiLux 4x2 Diesel Workmate	N70ZZ4WD	N70ZZ"	
1997-05	HiLux 4x2 Diesel SR5	N70ZZ4WD	N70ZZ"	
1997-05	HiLux 4x4 Petrol Std	75D23L	55D23L"	
1997-02	HiLux 4x4 Petrol SR5	75D23L	55D23L"	
2002-05	HiLux 4x4 Petrol SR5	75D23L	55D23L"	
1988-97	HiLux LN 85 Auto Trans Diesel 2WD	N70ZZ4WD	N70ZZ"	
1988-97	HiLux LN 86 Auto Trans Diesel 2WD	N70ZZ4WD	N70ZZ"	
1988-97	HiLux LN106 Diesel 4WD	N70ZZ4WD	N70ZZ"	
1991-98	HiLux LN107 Diesel 4WD	N70ZZ4WD	N70ZZ"	
1988-97	HiLux LN111 Diesel 4WD	N70ZZ4WD	N70ZZ"	
1989-95	HiLux LN130 Diesel 4WD	N70ZZ4WD	N70ZZ"	
2000-on	HiLux LN150	N70ZZ4WD	N70ZZ"	
1988-97	HiLux LN160 Diesel 4WD	N70ZZ4WD	N70ZZ"	
2000-on	HiLux LN160 Diesel 4WD	N70ZZ4WD	N70ZZ"	
1988-97	HiLux LN170 Diesel 4WD	N70ZZ4WD	N70ZZ"	
2000-on	HiLux LN170 Diesel 4WD	N70ZZ4WD	N70ZZ"	
2000-on	HiLux LN170 Diesel 2WD	N70ZZ4WD	N70ZZ"	
2000-on	HiLux LN150 Diesel 4WD	N70ZZ4WD	N70ZZ"	
1988-97	HiLux LN190 Diesel 4WD	N70ZZ4WD	N70ZZ"	
1988-97	HiLux N105 Petrol 4WD	NS70X	NS70"	
1988-97	HiLux N106 Petrol 4WD	NS70X	NS70"	
1988-97	HiLux N110 Petrol 4WD	NS70X	NS70"	
1988-97	HiLux RN85 Petrol 2WD	NS70X	NS70"	

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1988-97	HiLux RN90 Petrol 2WD	NS70X	NS70"	
1998-on	HiLux RZN 149R Petrol 4WD	NS70LX	NS70L"	
1998-on	HiLux RZN 16 Petrol 4WD	N70ZZ4WD	N70ZZ"	
1998-on	HiLux RZN 17 Petrol 4WD	N70ZZ4WD	N70ZZ"	
1998-on	HiLux RZN 2.7 Petrol 2WD	75D23L	55D23L"	
2004-on	HiLux Diesel Turbo 4WD	N70ZZL4WD	N70ZZL"	
1992	HiLux Diesel Turbo 4WD	NS70X	NS70"	
1989-on	HiLux VZN 130 Petrol 2WD	75D23L	55D23L"	
1988-97	HiLux VZN V6 Diesel 4WD	N70ZZ4WD	N70ZZ"	
1988-97	HiLux VZN-14 Diesel 2WD	N70ZZ4WD	N70ZZ"	
1988-97	HiLux VZN-15 Diesel 2WD	N70ZZ4WD	N70ZZ"	
1988-97	HiLux YN85 Petrol 2WD	NS60"	NS40Z	
2008-on	HiLux V6 Petrol	N70ZZL4WD	N70ZZL"	
2003-07	Kluger CV	NS70LX	NS70L"	
2003-07	Kluger CV Sport	NS70LX	NS70L"	
2003-07	Kluger CV7	NS70LX	NS70L"	
2003-07	Kluger CVX	NS70LX	NS70L"	
2003-07	Kluger CV Grande	NS70LX	NS70L"	
1998-2007	Landcruiser 100 Series 6 Cyl. Petrol Std	NS70LX	NS70L"	
1998-2007	Landcruiser 100 Series 6 Cyl. Petrol RV	NS70LX	NS70L"	
1998-2007	Landcruiser 100 Series 6 Cyl. Petrol GXV	NS70LX	NS70L"	
1998-2007	Landcruiser 100 Series 6 Cyl. Diesel 50th Anniversary	N70ZZL4WD	N70ZZL"	
1998-2007	Landcruiser 100 Series 6 Cyl. Diesel Advantage	N70ZZL4WD	N70ZZL"	
1998-2007	Landcruiser 100 Series 6 Cyl. Diesel VX	N70ZZL4WD	N70ZZL"	
1998-2007	Landcruiser 100 Series GXL V8 Petrol	NS70LX	NS70L"	
1998-2007	Landcruiser 100 Series Kakadu V8 Petrol	NS70LX	NS70L"	
1998-2007	Landcruiser 100 Series Sahara 6 Cyl. Turbo Diesel	NS70LX / NS70X	NS70L" / NS70"	
1998-2007	Landcruiser 100 Series Snowy 6 Cyl. Turbo Diesel	NS70LX / NS70X	NS70L" / NS70"	
1998-2007	Landcruiser 100 Series LE 6 Cyl. Turbo Diesel	NS70LX / NS70X	NS70L" / NS70"	
1985-06	Landcruiser 70 Series Troop Carrier 6 Cyl. Turbo Diesel	N70ZZ4WD	N70ZZ"	
1985-06	Landcruiser 70 Series Std 6 Cyl. Diesel	NS70X	NS70"	
1985-06	Landcruiser 70 Series Workmate 6 Cyl. Diesel	NS70X	NS70"	
1985-06	Landcruiser 70 Series LE 6 Cyl. Petrol	NS70X	NS70"	
1985-06	Landcruiser 70 Series Muster 6 Cyl. Petrol	NS70X	NS70"	
1985-06	Landcruiser 70 Series RV 6 Cyl. Petrol	NS70X	NS70"	
1989-on	Landcruiser Diesel HZJ70	N70ZZ4WD	N70ZZ"	
1989-on	Landcruiser Diesel HZJ80	N70ZZ4WD	N70ZZ"	
1989-on	Landcruiser Diesel PZJ70	N70ZZ4WD	N70ZZ"	
1999-on	Landcruiser GXL Petrol	NS70LX	NS70L"	
1990-on	Landcruiser HDJ80	N70ZZL4WD	N70ZZL"	
1990-on	Landcruiser FZJ80	N70ZZL4WD	N70ZZL"	
1987-90	Landcruiser Petrol	NS70X	NS70"	
1989-on	Landcruiser Petrol FJ70	N70ZZ4WD	N70ZZ"	
1989-on	Landcruiser Petrol FJ80	N70ZZ4WD	N70ZZ"	
1989-on	Landcruiser Petrol FZJ75	N70ZZ4WD	N70ZZ"	
1990-on	Landcruiser FZJ 105	75D23L / NS70LX	55D23L" / NS70L"	
1990-on	Landcruiser RJ70	75D23L / NS70LX	55D23L" / NS70L"	





MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2007-on	Landcruiser 200 Series	NS70LX	NS70L"	
1989-on	Lexcen VP	67	57"	
1989-on	Lexcen VN	67	57"	
1989-on	Lexcen VR	67	57"	
1985-90	LiteAce CM30 Diesel 2WD	NS40ZX	NS40Z	
1991-on	LiteAce CM36	NS70X	NS70"	
1988-92	LiteAce CM36 Diesel 2WD	NS70X / N70ZZ4WD	NS70" / N70ZZ"	
1979-92	LiteAce KM 20 Petrol 2WD	NS60S"		
1979-92	LiteAce KM 36 Petrol 2WD	NS60S"		
1993-on	MR2 SW20	NS60LS"		
1983-on	NXR Coupe	NS40ZLX	NS40ZL"	
1999-on	Paseo	75D23R	55D23R"	
1983-on	Paseo EL44R	67	57"	46
1996-03	Prado RV Diesel	N70ZZ4WD	N70ZZ"	
1996-03	Prado RV6 Diesel	N70ZZ4WD	N70ZZ"	
1996-03	Prado 4 Cyl. Petrol GXL	75D23L	55D23L"	
1996-03	Prado 4 Cyl. Petrol TX	75D23L	55D23L"	
1996-03	Prado 4 Cyl. Petrol VX	75D23L	55D23L"	
1996-03	Prado V6 Petrol Grande	75D23L	55D23L"	
1996-03	Prado V6 Petrol L.E.	75D23L	55D23L"	
1996-03	Prado V6 Petrol Advantage	75D23L	55D23L"	
2003-05	Prado	N70ZZL4WD	N70ZZL"	
2006-on	Prado	N70ZZL4WD	N70ZZL"	
2001-03	Prius	S34B20R		
2004-on	Prius	S46B24R		
2006	Previa	75D23L	55D23L"	
1995-98	RAV4	NS60S"		
2000-06	RAV4 Edge	75D23R	55D23R"	
2000-06	RAV4 Cruiser	75D23R	55D23R"	
2000-06	RAV4 Extreme	75D23R	55D23R"	
2000-06	RAV4 Advantage	75D23R	55D23R"	
2000-06	RAV4 CV	75D23R	55D23R"	
2007-on	RAV4 CV	NS70LX	NS70L"	
2000-06	RAV4 CV Sport	75D23R	55D23R"	
2005-12	RAV4	75D23L	55D23L"	
2013-on	RAV4	75D23L	55D23L"	
2011-on	Rukus	75D23L	55D23L"	
2000-on	Seca AE112	NS40ZLSX	NS40ZLS"	
1985-89	Seca AE82	NS40ZLSX	NS40ZLS"	
1989-on	Seca AE92	53	43	
1989-on	Seca AE94	53	43	
1989-on	Seca AE96	53	43	
1989-on	Seca AE101	53	43	
1989-on	Seca AE102	53	43	
2000	Seca	58EB		
2004	Seca	75D23R	55D23R"	

"Also available in maintenance free version.

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1991-1998	Soarer	N70ZZL4WD	N70ZZL"	
2003-on	Solara	75D23L	55D23L"	
1998-01	Spacia SR4CR Peoplemover	NS60"		
1996-on	Starlet	NS40ZSX	NS40ZS	
1983-on	Supra MA70 Turbo	NS70LX	55D23L" / NS70L"	
1988-on	Supra MA70	75D23L	55D23L"	
1988-on	Supra Turbo MA70	N70ZZ4WD	N70ZZ"	
1990-on	Surf Diesel	N70ZZ4WD / N70ZZL4WD	N70ZZ" / N70ZZL"	
1990-on	Surf Petrol	NS70X / NS70LX	NS70" / NS70L"	
1983-on	T18 SE DeLuxe	NS40ZSX	NS40ZS	
1985-90	Tarago 4WD Diesel	N70ZZ4WD	N70ZZ"	
1990-on	Tarago 4WD Petrol	NS60LS"		
1990-on	Tarago TCR10	NS60LS"		
1990-on	Tarago TCR11	NS60LS"		
1990-on	Tarago TCR20	NS60LS"		
1990-on	Tarago TCR21	NS60LS"		
1983-90	Tarago Petrol	NS40ZSX	NS40ZS	
2000-06	Tarago Gli	NS60L"		
2000-06	Tarago GLX	NS60L"		
2000-06	Tarago V6 GLX	NS70LX	NS70L"	
2000-06	Tarago Ultima	NS60L"		
1983-88	Tercel SR5	NS60S"		
	Tourer 2.5 Ltr. Twin Turbo (Import)	75D23L	55D23L"	
1987-92	Ultima	NS40ZLSX	NS40ZLS"	
1993-on	Ultima	NS70LX	55D23L" / NS70L"	
1993-on	Vienta	75D23L	55D23L"	
1999-04	Yaris	DIN53LMF		
2005-on	Yaris	NS60LS"		
1984-93	4 Runner Diesel LN60, LN61, 130	NS70X	NS70"	
1987-92	4 Runner petrol YN60, YN63	NS40ZSX	NS40ZS / NS60S"	
	6000 Series Diesel	4D-N150Z	N150MF	
	BJ40, HJ45 Diesel, KL300A, KL300B	NS70X	NS70"	
1985-91	Bundera 2.6	NS70X	NS70"	
1985-91	Bundera Diesel, Commuter Bus	N70ZZLH	N70ZZL"	
2003-06	Coaster Bus BB50R Std, Std with Air con, Deluxe	75D23R	55D23R"	
	Coaster Bus BB21, HB30, HZB30, BB40, HZB50	NS70X	NS70"	
1960-84	FJ40, FJ40V, FJ45PB, FJ45PB3, FK45, FJ55V	67	57"	
1997-03	Townace	NS60"		
1994-96	Townace YR39	67	57"	
<b>TRIUMPH</b>				
1964-78	2000, 2500S, 2500TC, Dolomite, Sprint	51	41	
1959-82	Herald, Spitfire (All Models)	67	57"	
1959-82	Stag, TR2, TR3, TR4, TR4A, TR5, TR6, TR7	67	57"	
<b>VOLKSWAGEN</b>				
2011-on	Amarok (Large Battery Casing)	DIN92LMF		
2011-on	Amarok (Medium Battery Casing)	DIN65LHMF		
	All Models to August 1969	51	41	

"Also available in maintenance free version.



"Also available in maintenance free version.



MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1970-83	All Models from August 1970	DIN53LMF		
1960-76	Beetle (Battery under rear seat)	DIN53LMF		
2000-on	Beetle, Beetle Cabrio	DIN53LHMF		
2005-on	Beetle Diesel	DIN65LH		
1999-00	Bora	DIN65LMF		
2001-03	Bora	DIN53LMF	DIN44LMF	
2004-06	Bora	DIN53LMF	DIN44LMF	
2005-on	Caddy TDI Diesel	DIN65LMF		
2005-on	Caddy Petrol	DIN53LHMF		
2005-09	Caddy TDI Diesel (Excluding Blue MOTION)	DIN65LH		
2010-on	Caddy TDI Diesel (Excluding Blue MOTION)	DIN53LHMF		
2007-on	Caddy Life	DIN65LMF		
2000-04	Carravelle Diesel	DIN92LMF		
1982-92	Carravelle Petrol	DIN65LMF		
1993-04	Carravelle Petrol	DIN92LMF		
2010-on	City Van Petrol	DIN65LMF		
2010-on	City Van Diesel	DIN85LMF		
2007-on	Crafter Diesel	DIN92LMF		
2007-on	EOS 103TDI 2.0 Ltr. Diesel, 155TSI 2.0 Ltr. Petrol	DIN65LH		
2007-on	Golf 1.4 Ltr. Petrol	DIN53LHMF		
1978-82	Golf 1.5 Ltr. Diesel	DIN65LMF		
1997-09	Golf 1.6 Ltr. Petrol (Medium Battery Casing)	DIN65LH		
1997-09	Golf 1.6 Ltr. Petrol (Small Battery Casing)	DIN53LHMF		
1976-80	Golf 1.6 Ltr. Petrol	DIN53LMF		
1995-03	Golf 1.8 Ltr. Petrol	DIN53LHMF		
1993	Golf 1.8 Ltr. Petrol Cabriolet	DIN53LHMF		
1990-92	Golf 1.8 Ltr. Petrol GTI	DIN53LHMF		
1995-97	Golf 1.9 Ltr. Diesel	DIN65LH		
2005-09	Golf 1.9 Ltr. Diesel	DIN65LH		
1994-08	Golf 2.0 Ltr. Petrol	DIN65LH		
2009-on	Golf 2.0 Ltr. Petrol	DIN65LH		
2005-on	Golf 2.0 Ltr. Diesel	DIN65LH		
1994-98	Golf 2.8 Ltr. Petrol VR6	DIN53LHMF		
2006-on	Golf 3.2 Ltr. Petrol R32	DIN65LH		
2010-on	Golf GTI 2.0 Ltr. Petrol	DIN53LHMF		
2005-09	Golf GTI 2.0 Ltr. Petrol	DIN75LMF		
2007-on	Golf GT	DIN65LH		
2011-on	Golf, Wagon	DIN65LH		
2009-on	Jetta 118TSI 1.4 Ltr. Petrol	DIN65LH		
2009-on	Jetta 118TSI Comfortline 1.4 Ltr. Petrol	DIN65LH		
2009-on	Jetta 1.6 Ltr. Diesel	DIN65LH		
2006-on	Jetta 103TDI Comfortline 2.0 Ltr. Diesel	DIN65LH		
2006-on	Jetta 147TSI Highline 2.0 Ltr. Petrol	DIN65LH		
1974-87	Kombi, Micro Bus	67	57"	
2003-09	Multivan 2.5 Ltr. 5 Cyl.	DIN44LMF		
2003-09	Multivan 3.2 Ltr. 6 Cyl.	DIN53LMF		
2010-on	Multivan TDI	DIN92LMF		

"Also available in maintenance free version.

MAKE/YEAR	MODEL	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1998-01	Passat 1.8 Ltr. Petrol	DIN65LH		
2010-on	Passat 1.8 Ltr. Petrol	DIN65LH		
2006-on	Passat 2.0 Ltr. Diesel (Non ISS Version)	DIN75LMF		
1995-97	Passat 2.0 Ltr. Petrol	DIN53LHMF		
2006-09	Passat 2.0 Ltr. Petrol	DIN65LH		
2000-05	Passat 2.3 Ltr. Petrol	DIN65LH		
1995-97	Passat 2.8 Ltr. Petrol	DIN75LMF		
1998-05	Passat 2.8 Ltr. Petrol	DIN65LH		
2006-10	Passat 3.2 Ltr. Petrol	DIN92LMF		
2008-on	Passat 3.6 Ltr. Petrol R36	DIN65LH		
2003-03	Passat 4.0 Ltr. Petrol	DIN65LH		
1974-82	Passat Diesel	DIN65LMF		
2009-on	Passat CC 2.0 Ltr. TDI Diesel (Non Blue MOTION Model)	DIN65LH		
2010-on	Polo 1.2 Ltr. Petrol	DIN44LMF		
1999-01	Polo 1.4 Ltr. Petrol	DIN53LHMF		
2002-11	Polo 1.4 Ltr. Petrol	DIN53LHMF		
1996-00	Polo 1.6 Ltr. Petrol	DIN44LMF		
2006-10	Polo 1.6 Ltr. Petrol	DIN53LHMF		
2010-on	Polo 1.6 Ltr. Diesel	DIN53LHMF		
2006-01	Polo 1.8 Ltr. Petrol	DIN53LHMF		
2005-10	Polo 1.9 Ltr. Diesel	DIN65LH		
2011-on	Scirocco R	DIN65LH		
2011-on	Tiguan 1.4 Ltr. Petrol	DIN53LHMF		
2008-on	Tiguan 2.0 Ltr. Diesel (Medium Battery Casing)	DIN65LH		
2008-on	Tiguan 2.0 Ltr. Diesel (Small Battery Casing)	DIN53LHMF		
2008-on	Tiguan 2.0 Ltr. Petrol	DIN53LHMF		
2004-09	Touareg 2.5 Ltr. Diesel (Battery under passenger seat)	DIN92LMF		
2006-09	Touareg 3.0 Ltr. Diesel (Battery under passenger seat)	DIN92LMF		
2010-on	Touareg 3.0 Ltr. Diesel	AGM DIN		
2004-10	Touareg 4.9 Ltr. Diesel (Battery in rear)	DIN92LMF		
2003-06	Touareg 3.2 Ltr. Petrol (Battery under passenger seat)	DIN92LMF		
2007-on	Touareg 3.6 Ltr. Petrol (Battery under passenger seat)	DIN92LMF		
2003-06	Touareg 4.2 Ltr. Petrol (Battery under passenger seat)	DIN92LMF		
2005-10	Transporter 1.9 Ltr. Diesel	DIN92LMF		
1984-86	Transporter 1.9 Ltr. Diesel	DIN65LH		
2010-on	Transporter 2.0 Ltr. Diesel	DIN92LMF		
1993-10	Transporter 2.0 Ltr. Petrol	DIN92LMF		
1986-92	Transporter 2.1 Ltr. Petrol	DIN65LH		
1995-04	Transporter 2.4 Ltr. Diesel	DIN92LMF		
2005-10	Transporter 2.5 Ltr. Diesel	DIN92LMF		
1995-04	Transporter 2.5 Ltr. Petrol	DIN92LMF		
2005-08	Transporter 3.2 Ltr. Petrol	DIN92LMF		
2012-on	UP	DIN53LHMF		
1996-on	Vento	DIN53LMF	DIN44LMF	
<b>VOLVO</b>				
1967-75	142, 144, 145, 164 Series	67	57"	46
1975-86	240, 242, 244, 245 Series	67	57"	46

"Also available in maintenance free version.







MAKE/YEAR	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>AEC</b>					
	Mustang, Monarch, Marshall	2	N70ZZH	N70ZZ"	
<b>ALBION</b>					
	MLH3, FT25A, 27A, M5, MR7	2	12A		
<b>ATKINSON</b>					
1979	F3870, K3870	4	26		
1982	F4870	4	N70ZZH	N70ZZ"	
1977	MK3, T304, T386	4	26		
<b>B.M.C.</b>					
	350EA	1	N70ZZH	N70ZZ"	
	FG	1	N70ZZH	N70ZZ"	
	FG Diesel	2	26		
	FJK	2	26		
	FJK Diesel	2	26		
	J4 - 180, 190, 200 Diesel	1	N70ZZH	N70ZZ"	
	J4 - 180, 190, 200 Petrol	1	NS70X	NS70"	
	JU250	1	53	43	
	Laird LR950, LR1160, LR1800	2	86Z		
	LD	1	N70ZZH	N70ZZ"	
	LD Diesel	2	26		
	WF	1	N70ZZH	N70ZZ"	
	WF Diesel	2	26		
<b>BEDFORD</b>					
	KGLC3, KGM3, KGT3	1	N70ZZH	N70ZZ"	
	MJR 2BCO, MJR M1120	1	86Z	86	
	MK65 (MLR), TK Diesel, TL, TM	2	89		
	TJ3, TK3, RLH, C3, S3	1	NS70X	NS70"	
<b>D.A.F.</b>					
	2300, 2800, 3300, 3600, FTT3300, FT2426, FT2526	2	4D-N150Z	N150MF	
	XF480	2	94 Squat		
	XF530	2	N200"		
	XF540	2	N200"		
<b>DAIHATSU</b>					
1986-on	Delta 300	1	N100MF		
1977-on	Delta Series Petrol	1	NS40ZX	NS40Z / NS60S"	
1978-on	Delta V Series Diesel	2	67	57"	
1978-on	Delta V Series Twin Cab	1	NS40ZLX	NS40ZL"	
1979-84	F20JVN	1	86Z		
1977-on	V24T	1	87		
1972-on	V12H, V12W, V12HU, V48HU	2	67	57"	
1985-on	V57HS, V57Plus, V58L	1	87		
1985-on	V76HU, V79HY, V79WY, V78HY	1	89		

MAKE/YEAR	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>DODGE</b>					
	D3F Diesel	2	26		
	D3F 6 Cyl., D3N 8 Cyl., D5N 8 Cyl. Petrol	1	67	57"	
	D5N 6 Cyl. Diesel	1	N70ZZH	N70ZZ"	
	D5N 8 Cyl. Diesel	2	86Z	86	
<b>FIAT</b>					
	619, 684, 693	2	4D-N150Z	N150MF	
	81NC	2	N70ZZH	N70ZZ"	
<b>FORD</b>					
	Cargo 0812, 1515, 1313	1	86MF		
	Cargo 2417, 1621, 2421	2	86MF		
	D Series all Diesel	1	89		
	D Series all Petrol	1	68	58"	
	LN700, LN900	1	N70ZZH	N70ZZ"	
	LN9000, LNT9000, LTL9000	2	8D-N200Z	N200MF	
6/1993-on	Louisville	2	N70ZZH	N70ZZ"	
	Louisville 9000, Louisville LNT8000	4	N70ZZH	N70ZZ"	
	Louisville LN7000	1	8D-N200Z	N200MF	
	LTS Models	4	26		
1996-on	Trader 0409 Diesel	2	NS70X	NS70"	
	Trader 4 Cyl. Diesel 12V	1	N120MF		
	Trader 6 Cyl. Diesel 24V	2	N70ZZH	N70ZZ"	
<b>FREIGHTLINER</b>					
	Argosy	4	86ZMF		
	C112, C120	4	86Z	86	
	FL112	3	N70ZZH	N70ZZ"	
	FL50, FL60, FL70, FL80, FLA, FLB, FLD, FLC Series	3	86Z	86	
	FRCL112	2	N120MF		
	Century Class	4	86ZMF		
<b>HINO</b>					
	300 Series		75D23L	55D23L"	
	Dutro Hybrid		N70ZZLH	N70ZZL"	
	Ranger Pro FC, FD, GD, FG, GH, FL		75D23L	55D23L"	
	Ranger Pro FT, FM, GT		N120"		
	500 FC, FD, GD, FG, GH, FL, FM		75D23L	55D23L"	
	500 FT, GT		N120"		
	700 Series		N150"		
<b>INTERNATIONAL</b>					
	ACCO A Cummins Engine , 3072 Eagle	4	N70ZZH	N70ZZ"	
	ACCO 1630, 1650, 1810D, 1830	2	68	58"	
	ACCO DDC0405, CDOF405	4	26		
	ACCO 1950D	4	12A		



MAKE/YEAR	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	ACCO 2250	3	N70ZZH	N70ZZ"	
	ACCO All Models 1850 to 2650, 2670	2 to 4	N70ZZH	N70ZZ"	
	N1630, N1650	2	N70ZZH	N70ZZ"	
	S Line 2670, T Line, TF Line	4	N70ZZH	N70ZZ"	
	Scout, Terra, Traveller, Traveltop	1	67	57"	
	TF Line	4	N70ZZH	N70ZZ"	
	TK Line	3	N70ZZH	N70ZZ"	
<b>ISUZU</b>					
	CVR162TR	1	N100LMF		
	CXG166TR	1	N100LMF		
	CXY165	1	N100LMF		
2001-on	CXY415 (GIGA Series), CXY455 (GIGA Series)	2	N150MF		
	CXH16V	2	N100LMF		
2001-on	CXZ415 (GIGA Series), CXZ455 (GIGA Series)	2	N150MF		
1999-on	EXY455 (GIGA Series), EXY510 (GIGAMAX)	2	N150MF		
1996-on	FRD500, FRR500, FRR500 Crew, FRR500 Tipper	2	N100LMF		
1996-on	FRR600, FRR600 Crew	2	N100LMF		
	FS450, FS500, FS650	1	NS70X	NS70"	
	FSR12HRA	1	NS70X	NS70"	
1985-on	FSD700/850	2	N100LMF		
1985-on	FSR700/850, FSR700/850 CNG	2	N100LMF		
1987-on	FSS550 4X4, FSS550 4X4 Crew	2	NS70LX	NS70L"	
	FST500	1	NS70X	NS70"	
	FTR11LTA	1	NS70X	NS70"	
	FTR800	1	NS70X	NS70"	
1985-on	FTR900, FTR900 Crew	2	N100LMF		
	FTS700	2	NS70X	NS70"	
1985-on	FTS800 4X4, FTS800 4X4 Crew	2	NS70LX	NS70L"	
	FUM1400, FUR900, FUR12N, FUR11N, FUZ1400	1	NS70X	NS70"	
1985-on	FVD1000	2	N100LMF		
2000-on	FVL1400	2	N100LMF		
1987-on	FVM1400	2	N100LMF		
1985-on	FVR1000	2	N100LMF		
2000-on	FVY1400	2	N100LMF		
1987-on	FVZ1400	2	N100LMF		
2008-on	FXR1000, FXD1000, FXL1500, FXY1500, FXZ1500	2	N100LMF		
	FZV	2	NS70X	NS70"	
2008-on	GXD	2	N100LMF		
	JCR360, JCR420, JCR500, JCS420	2	NS70X	NS70"	
	NRP	2	NS70X	NS70"	
	NKR150, NKR200, NKR250	2	NS70X	NS70"	

MAKE/YEAR	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
2008-on	NLR200, NLR200 Tipper, NLR275 Tipper	2	NS70LX	NS70L"	
2008-on	NLR200 CNG AMT	2	NS70LX	NS70L"	
2008-on	NLS200 AWD, NLS200 AWD Crew, NLS200 AWD Tipper	2	NS70LX	NS70L"	
2008-on	NNR200, NNR200 Crew	2	NS70LX	NS70L"	
1985-on	NPR200, NPR250, NPR275, NPR200 Tipper, NPR350, NPR250 Crew, NPR275 Tipper	2	NS70LX	NS70L"	
1985-on	NPR300, NPR300 Crew, NPR300 Tipper, NPR300 Crew Tipper	2	NS70LX	NS70L"	
2008-on	NPR300 CNG AMT	2	NS70LX	NS70L"	
1985-on	NPR400	2	NS70X	NS70"	
1992-on	NPS250, NPS250 Crew	2	NS70LX	NS70L"	
1992-on	NPS300, NPS300 Crew	2	NS70LX	NS70L"	
1998-on	NQR450, NQR450 Crew, NQR450 Tipper AMT	2	NS70LX	NS70L"	
	SBR372, SBR422	2	NS70X	NS70"	
	SCR370, SCR480, SCR480B	2	NS70X	NS70"	
	TSD45, TWD45, NKR150, NKR200, NKR250, NPR200, NPR300, NPR400	2	NS70X	NS70"	
<b>IVECO</b>					
	10-14, 110, 12-11, 12-12, 12-14	2	86ZMF		
	120TA	2	86ZMF		
	13-14, 15-14, 18-16, 18-14	2	86ZMF		
	220T, 230T	2	86ZMF		
	23-16	2	86ZMF		
	335T, 435T, 340T, 450T	2	86ZMF		
	EUROTECH 4300, 4500, 4700	4	N70ZZH	N70ZZ"	
	ML150E23	2	86ZMF		
	ML170E27	2	N120MF		
	POWER STAR	4	N70ZZH	N70ZZ"	
	Z100, Z110, Z120TA, Z220T, Z230T, Z340T, Z450T	2	86ZMF		
<b>KENWORTH</b>					
2011-on	C509, T909, T659, T609	4	N70ZZH	N70ZZ"	
2011-on	T409SAR, T409, T403, T359	4	N70ZZH	N70ZZ"	
2011-on	K200	4	N70ZZH	N70ZZ"	
2009-11	T402	4	N70ZZH	N70ZZ"	
2008-11	T358A, T358R, T358P, T388R, T388P	4	N70ZZH	N70ZZ"	
2008-11	T388CC, K108, T358, T408, T408SAR	4	N70ZZH	N70ZZ"	
2008-11	C508, T608, T658, T908, T404 II, T650 II, T950 II	4	N70ZZH	N70ZZ"	
2006-08	K104B	4	N70ZZH	N70ZZ"	
2004-08	T404SAR, T350A	4	N70ZZH	N70ZZ"	
2003-08	T350	4	N70ZZH	N70ZZ"	
2002-07	T404ST, T401ST	4	N70ZZH	N70ZZ"	
2001-08	T404S	4	N70ZZH	N70ZZ"	
1999-08	T404, K104, T904, T604	4	N70ZZH	N70ZZ"	
1998-09	C510, C540	4	N70ZZH	N70ZZ"	

MAKE/YEAR	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
1997-08	T401	4	N70ZZH	N70ZZ"	
1997-04	T300	4	N70ZZH	N70ZZ"	
1995-97	K300	4	N70ZZH	N70ZZ"	
1995-99	K100G	4	N70ZZH	N70ZZ"	
1995-98	T601	4	N70ZZH	N70ZZ"	
1994-97	T440	4	N70ZZH	N70ZZ"	
1993-on	T480	4	N70ZZH	N70ZZ"	
1993-06	C501	4	N70ZZH	N70ZZ"	
1993-06	T950	4	N70ZZH	N70ZZ"	
1991-98	T900	4	N70ZZH	N70ZZ"	
1988-97	T450, T400	4	N70ZZH	N70ZZ"	
1988-07	C500T	4	N70ZZH	N70ZZ"	
1987-97	L700A	4	N70ZZH	N70ZZ"	
1987-90	L710	4	N70ZZH	N70ZZ"	
1987-07	T650	4	N70ZZH	N70ZZ"	
1987-95	T600	4	N70ZZH	N70ZZ"	
1986-95	K100E	4	N70ZZH	N70ZZ"	
1982-87	L700R	4	N70ZZH	N70ZZ"	
1981-88	C500AR	4	N70ZZH	N70ZZ"	
1974-87	W900SAR	4	N70ZZH	N70ZZ"	
1971-87	W900AR	4	N70ZZH	N70ZZ"	
1971-80	W900S2R	4	N70ZZH	N70ZZ"	
1971-86	K100CR	4	N70ZZH	N70ZZ"	
<b>KIA</b>					
1968-on	10.136FCA, 15.168NCA, 16.192NCA, 26.321NC, 26.342FC, 30.321FCTS, 33.321FCTS	2	4D-N150Z	N150MF	
	E2700, E1400	1	67	57"	
2004-07	K2700	1	N70ZZLH	N70ZZL"	
	Tilt cab Forward control	1	N70ZZH	N70ZZ"	
<b>LEYLAND</b>					
	Buffalo, Comet, Mastiff	2	N70ZZH	N70ZZ"	
	Marathon	2	89		
	15-20 Van	1	N70ZZH	N70ZZ"	
	2 Tonne	1	86ZMF		
	Boxer	1	86ZMF		
	Chieftan	2	N70ZZH	N70ZZ"	
	Eland	2	N70ZZH	N70ZZ"	
	FG Diesel LR 1200 Diesel	2	26		

MAKE/YEAR	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	FG Petrol, 308LT Diesel, FF900	1	N70ZZH	N70ZZ"	
	Harrier	2	N70ZZH	N70ZZ"	
	Riever, Super Riever	2	N70ZZH	N70ZZ"	
	Supercomet	2	N70ZZH	N70ZZ"	
	Terrier V8 Diesel	1	86ZMF		
<b>M.A.N.</b>					
	Buses Most Models	2	N150"		
	10, 14, 15,18 Series	2	N120"		
	20, 22, 26 Series	2	N150"		
	F200 Series	2	94 Squat		
	LM 2000 Series	2	94 Squat		
<b>MACK</b>					
	688RST, R722VL	2	12A		
	R722VL	2	12A		
	A to L Series Diesel	4	26		
	A to L Series Petrol (Air Start)	2	12A		
	Air Start (24Volt)	2	86T		
	B61 Battery Start	2	12A		
	Buses PR100-2, PR180-2	4	26		
	CHR Elec Start	4	N70ZZH	N70ZZ"	
	CLR	1	86T		
	CHR Air Start	1	86T		
	G260 Maxter/Manager, Granite	2	N70ZZH	N70ZZ"	
	Magnum	2	NS70X	NS70"	
	Metro Liner	3	N70ZZH	N70ZZ"	
	MH613R, MH6142R	2	12A		
	ML Battery Start	2	86		
	R Series	2	12A		
	Super Liner, Titan, Trident	4	N70ZZH	N70ZZ"	
	Value Liner	4	86Z	86	
<b>MAZDA</b>					
	E2700	1	N120MF		
	E3000	1	N120MF		
	E3800	2	NS70X	NS70"	
	T3000, T3000 Bus, T3500, T3500 Bus	1	N120MF		
	T4000	2	NS70X	NS70"	
	T4100, T4600	2	N70ZZH	N70ZZ"	

MAKE/YEAR	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>MERCEDES BENZ</b>					
All	Actros Range 1223L, 1238L, 1528LS, 1623L, 1628L	2	N120MF		
All	Axor Range 1628AF, 2323L, 2328L	2	N120MF		
	1217, 1419, 1625, 1626, 2219, 2222, 2226	2	4D-N150Z	N150MF	
	1413, 1418, 1918, 1924, 2620, 2624	2	DIN85LMF		
	1422, 1424, 2228, 2232, 2233, 2236, 2632	2	4D-N150Z	N150MF	
	2224	2	DIN85LMF		
	2244 30H	2	N120MF		
	2235K32	2	N120MF		
	3850A	2	N120MF		
	FL 112	2	N120MF		
	508LD	2	86Z	86	
	LK, 2624, 2636	4	68	58"	
	V Series 1425, 2223, 2236, 2238, 2638	4	68	58"	
2000-on	MB100D Van	1	DIN65LMF		
<b>MITSUBISHI (CANTER, FUSO)</b>					
	Canter Petrol	1	NS70X	NS70"	
2000-on	Canter 1.5 Ltr.	1	N100MF		
2000-on	Canter 2.0 Ltr.	2	NS70X	NS70"	
2006	Canter 3.5 Ltr.	2	N100MF		
2000-on	Canter 4WD	2	NS70X	NS70"	
	D50	1	51	41	
	FE	2	67	57"	
	FK102, T653	2	NS70X	NS70"	
	FM104, FM215	2	86Z	86	
	FN358,	2	N120MF		
	FP, FB, FX, FC, FE, FK, FM, FV Series	2	NS70X	NS70"	
	FU, FP, FS Series	2	4D-N150Z	N150MF	
<b>NISSAN (DATSUN)</b>					
	B120	1	51	41	
	Cab Star Diesel	1	N100MF		
	Cab Star Petrol, All 1 & 2 Tonne	1	NS70X	NS70"	
	CGA, CKA, CLG, CMA, CMF87, CPB	2	N120MF		
	Civilian Bus	1	NS70X	NS70"	
	CK10, CK30, CW40, LID, CW50, TW50	2	4D-N150Z	N150MF	
	CM Series, CMA81F, CM86F	2	NS70X	NS70"	
	CM90 CV Series	2	N70ZZH	N70ZZ"	
	CMA87, CPC Series	2	51	41	
	UD LK235 Intercooler, UD MK235 INTERCOOLER	2	75D23R/NS70X	55D23R"/NS70"	
	KA220 Turbo	2	75D23R/NS70X	55D23R"/NS70"	
	UD Series Diesel , CV, CW, CWA, TW	2	N120MF		

MAKE/YEAR	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>SAAB SCANIA</b>					
2000-on	8 Cyl.	2	94 Squat		
	All Models 6 Cyl.	2	N120MF		
	All Models 8 Cyl.	2	N150MF		
<b>STERLING</b>					
1999-on	All	4	N70ZZH	N70ZZ"	
<b>TATA</b>					
1996-on	Telcoline 2.0 Ltr. Diesel 1Tonne Ute	1	N70ZZH	N70ZZ"	
<b>TOYOTA</b>					
	DA115	2	DIN85LMF		
	DA115 6000 Series	2	NS70X	NS70"	
	Dyna 100 Diesel Auto Trans , LY60	1	N70ZZH	N70ZZ"	
	Dyna 100, 150	1	NS70X	NS70"	
	Dyna 200 BU66, 400 BU66	1	N70ZZH	N70ZZ"	
	Dyna 300 BU61, 400 BU88, 400 BU91	1	N100MF		
	Dyna 400 BU65	1	N70ZZH	N70ZZ"	
	Dyna 400 YU62	1	75D23L / NS70LX	55D23L" / NS70L"	
	Dyna Diesel H1/15, SV15, SV21 2 Tonne	1	86Z	86	
	Dyna RU10, RU12, RU15, RU19	1	NS40ZX	NS40Z	
	Dyna RU20	1	51	41	
	FA115, FA954	1	67	57"	
	FD 176	1	86Z	86	
	FD Econo Diesel	2	67	57"	
<b>VOLVO</b>					
	B10M	2	8D-N200Z	N200MF	
	B6FO Bus	2	89		
	F10, F12, FL7F, FL10, N12	4	67	57"	
	F101	4	12A		
	FL7FD	2	N70ZZH	N70ZZ"	
	F12FK, F12F, F12GT	2	86Z	86	
	F16F	2	67	57"	
	F71, F7T, 12C304, F717, F1017, F1023 TURBO 6, E724	4	67	57"	
	F86/28	2	86 / 86Z		
	FM, FE, FH	2	N150MF		
	G88, G89	2	4D-N150Z	N150MF	
	N7, N10T, N10F, N12F, N12T, N715	2	86Z	86	
	NH	2	N150MF		
	TAMD40	2	4D-N150Z	N150MF	
<b>WESTERN STAR</b>					
1994-on	Late Models	3	86ZTMF	86ZMF	
1999-on	Late Models	3	86ZMF		



MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>ABBEY</b>					
	AS57 Stacker	1	12A		
	SK300, 25 Skyscraper, TSK3000, 25 Crane	1	26		
<b>ACE EQUIPMENT</b>					
	SB3000, TC Rollers 32, 33, 34, 44, 54, 45, 80	2	26		
<b>AEC</b>					
	Bus, Crane, Reliance, Swift	2	26		
<b>AGCO-ALLIS</b>					
	2004	1	94 Squat		
	4650	1	DIN65LMF		
	4660, 5650, 5660	1	DIN85LMF		
	6150	1	86Z	86	
	6240, 6250, 6260, 6265, 6275	1	94 Squat		
	6670, 6680, 6690	1	DIN85LMF		
	7085, 7110, 7129, 7630, 7650, 8610, 8630	1	94 Squat		
	8360, 8425, 9345	3	86Z	86	
	8745, 8765, 8775, 8785, 9130, 9150, 9170, 9190	2	NS70X	NS70"	
	9435	2	89		
	9630, 9635, 9650, 9655, 9670, 9675, 9690, 9735	2	NS70X	NS70"	
	9745, 9755, 9765, 9775, 9785, 9815	2	NS70X	NS70"	
	D3006, D3007, D4006, D4007, D4506, D4507	1	89		
	D4807, D5207, D5206, D6206, D6206, D6207, D6507, D6806, D6807, D7007, D7206, D7807	1	86Z	86	
	DX Series 3, Series 4, Series 6, Series 9, Series 110	1	94 Squat		
	F2, F3, FR, R50	2	NS70X	NS70"	
	MH2, N5, N6, N7	2	N70ZZH	N70ZZ"	
	R42L, R52L, R60, R62L, R70, R72L	3	NS70X	NS70"	
<b>ALLEN</b>					
	K52 MK11, K64 MK1	2	C105		
	Mobile Crane S184, T6D	8	12A		
	T6K	2	26		
	Trencher (Dorman) T134 MK1, 16/60, 12/21, C16 14/30 Doorman	2	C105		
<b>ALLIS CHALMERS</b>					
	A.C.Engine HD21	2	8D-N200Z	N200MF	
	A.C.Engine HD6, HD11, HD16	4	12A		
	New Series HD15, GM Engines DH19, New Series GM Engines HD20	2	8D-N200Z	N200MF	
	New Series HD5	4	12A		
	New Series HD9, GM Engine, Old Series HD14	4	26		
	Old Series HD7, HD10	1	12A		
	10B	2	DIN85LMF		
	640, 644, 710C, 714C, 715C, 840C	2	86Z	86	
	HD 6A, HD6B, HD6E, HD6EP, HD7G	1	4D-N150Z	N150MF	
	N5 Header	1	N70ZZH	N70ZZ"	
	T160, T200, T260, T360, T460, T560, T650, TL400	1	8D-N200Z	N200MF	
	TL-10D, TL-12D, TL-14G, TL-16G, TL-20D, TL-30D	1	4D-N150Z	N150MF	
	D, DD, M100	2	26		
	All except D, DD & M100	2	8D-N200Z	N200MF	
	179, 185	2	89		

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	4W220, 4W305	2	86Z	86	
	5015, 5020, 5030	1	NS70LX	NS70L"	
	5040, 6040, 6140	1	86Z	86	
	6060, 6070, 6080, 7000, 7010, 7020, 7040, 7045, 7060, 7080	2	89		
	8010, 8030, 8050, 8070, 8550	2	89		
	AC, C, BC, CA, D10, D12, D14, TB, CW, WD, WF, V, VC	1	12A		
	D Grader D17, D19 Diesel	2	12A		
	D15, D17, D19, D270, D270D	1	N70ZZH	N70ZZ"	
	Forty Five	4	26		
<b>ARBOS</b>					
	All Models	2	26		
<b>ARPIC</b>					
	120 FP115	2	12A		
	185 PD160	1	8D-N200Z	N200MF	
<b>ATLAS COPCO</b>					
	DT5, PR600, CUD, PR600 RR, PR600 D/D, PR365 RR	2	N70ZZH	N70ZZ"	
	US85, UT85	2	12A		
	Deutz XAS60, XAS80, VSS170, VSS250, VSS335,	2	12A		
	XAS80 Perkins	2	12A		
	VT5DD	2	DIN85LMF		
	VT5FD	2	26		
	VT6DD, PR365	2	N120MF		
	PR365	2	N120MF		
	XAS120, XAS160 Deutz	2	86Z	86	
<b>AVELING BARFORD</b>					
	SA Perkins	2	8D-N200Z	N200MF	
	SF, SR11, FL	2	C105		
	SL, SN	4	12A		
	SR	2	NS70X	NS70"	
	99H	4	12A		
	ASGO12	2	N70ZZH	N70ZZ"	
	LG	2	8D-N200Z	N200MF	
	MG	2	NS70X	NS70"	
	RM	2	C105		
	99H, Leyland AU600, 99H Super	4	26		
	CC Ford, GCU	2	4D-N150Z	N150MF	
	GD4, 6DS, TR, TRN, TRT, VR	2	12A		
	GD, SA Perkins	2	8D-N200Z	N200MF	
<b>BARBER-GREENE EQUIPMENT</b>					
	44C Ditcher	1	12A		
	422 Bucket Loader, 522 Bucket Loader	1	12A		
	87 Finishing Machine	1	C105		
<b>BELARUS</b>					
	1500	1	67	57"	46
	250, 400, 420, 520, 611, 800, 820, 900	2	26		
	7000, 7010, 7910	2	8D-N200Z	N200MF	
	DON 1500, 1770	2	8D-N200Z	N200MF	
<b>BLAW KNOX</b>					
	DD 453	1	N200MF		

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	Grader BK12, PF120H, PF172, PF180H, PF200, PF220, PF500, RW100	4	26		
	PF22, PF35, PF110T/W, PF115, PF150, PF171, RW195	1	NS70X	NS70"	
<b>BOBCAT</b>					
	610, 632 Petrol	1	67	57"	
	643, 743, 843 Diesel	1	N70ZZH	N70ZZ"	
	Perkins Diesel	1	N70ZZH	N70ZZ"	
	N155	1	67	57"	
	Skidsteer XT40	1	DIN92LMF		
<b>BOMAG</b>					
	BC601, BC670RB	1	8D-N200Z	N200MF	
	BW100, BW118, BW120, BW122, BW124, BW125, BW105	1	DIN85LMF		
	BW65, BW650, BW85, BW850, BW105, BW1050	1	DIN65LMF		
	BW10AS, BW12AS, BW11R, BW12R, BW137, BW138	1	86Z	86	
	BW140, BW141AD, BW144, BW151AD, BW154, BW160	1	4D-N150Z	N150MF	
	BW141AD 1, BW14AD 2	1	DIN85LMF		
	BW144, BW151AD2, BW161, BW164, BW170, BW172	1	86Z	86	
	BW150, BW212, BW213, BW214, BW217, BW219, BW220	1	4D-N150Z	N150MF	
	BW4AS, BW5AS, BW6AS, BW9AS, BW9R, BW11AS	1	86Z	86	
	BW90A, BW121AD	1	N70ZZH	N70ZZ"	
	K350/P, K351, K451	1	8D-N200Z	N200MF	
	MPH100, MP120	1	4D-N150Z	N150MF	
	MPH50	1	86Z	86	
	Roller	2 to 4	26		
<b>BRAY LOADER</b>					
	All Models	1	26		
<b>BREEDA</b>					
	33D, 35D, 70D, 50D	2	12A		
<b>BRISTOL TRACTOR</b>					
	20, 22, 25PC, 25VC, 25D	1	N70ZZH	N70ZZ"	
	Grader	2	26		
<b>BRITSTAND</b>					
	20, 21, 40, 41 Grader	1	26		
	33D, 35D, 33P, 35P Combine	2	12A		
	Model 60 Grader	1	4D-N150Z	N150MF	
<b>BROOMWADE</b>					
	SV199, SV245, SV303 Gardner	2	26		
	SV199, SV245, SV303 Meadows	4	26		
	SV398, WR250 Leyland	1	DIN85LMF		
	SV78 Perkins, SV128 (HC & 264)	2	12A		
	WR120 Ford Diesel & Petrol	1	N70ZZH	N70ZZ"	
	WR175, WR365	2	12A		
	WR600, WR630 DORMAN	4	26		
	WR630 Dorman	4	26		
	WR85, WR100, WR160	1	N70ZZH	N70ZZ"	
<b>BUCYRUS</b>					
	10, 19, 22	2	12A		
	Cranesls, Draglines, Shovels, Cranes 110 Tonne	1	8D-N200Z	N200MF	

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	Cranes: 1200 C	1	4D-N150Z	N150MF	
	Header	1	8D-N200Z	N200MF	
	Hydraulic Hoes	1	4D-N150Z	N150MF	
<b>CASE IH</b>					
	1030	2	DIN85LMF		
	1640, 2096, 7120, 9130	2	86Z	86	
	585, 885XL	1	86Z	86	
	2140	1	86Z	86	
	600, 660, 900, 960, 1010, 1660 Combine Petrol	1	67	57"	
	660, 900, 960, 1010, 1660 Combine Diesel	2	26		
	700, 830, 930	4	26		
	870, 970, 1070, 1200, 1470	2	86Z	86	
	MX100C	1	86Z		
	2388	1	86ZMF		
	1150 Angle Dozer & Loader	4	26		
	1150 Crawler, 1550 Dozer	2	86Z	86	
	1526, 1530, 1537	1	46		
	2290	2	86Z		
	350 Crawler	2	N70ZZH	N70ZZ"	
	420 Terratrak, 530CK, 600 Backhoe	2	12A		
	450 Angle Dozer & Loader	1	4D-N150Z	N150MF	
	580 Front End Loader	1	86Z	86	
	800, 1000, 1000C Terratrak	4	12A		
	Trencher TF1000	2	86Z	86	
	Trencher TF200, 300, 600, 700	1	51	41	
	Trencher TF30+4	1	51	41	
	W24, W26	2	4D-N150Z	N150MF	
	W5 Terraloder	1	DIN85LMF		
	W7, W8, W9, W10, W12 F.R Loader	2	86Z	86	
	W8B, W10B, W12	2	O3		
	W9 Terra Loader	4	26		
	184, 185, 235, 464, 574, 674	1	NS60LS"		
	2120, 2130, 2140, 2150	1	DIN65LMF		
	2290, 2294, 2296, 2390, 2394, 2470, 2590, 2594, 2670, 2870	2	89		
	234, 244, 254, 255, 666, 886, 986, 274, 284, 380B	1	NS70X	NS70"	
	384, 484, 584, 684, 784, 884	1	N70ZZH	N70ZZ"	
	364, 385, 395, 485, 495, 585, 595, 685, 695	1	89		
	574HS, 666HS	2 to 4	26		
	700, 786, 830, 930	2 to 4	26		
	785, 795, 885, 895, 985, 990, 995, 996	1	89		
	Hydro 70, 86, 186	1	NS70X	NS70"	
<b>CATERPILLAR</b>					
	AP1000	1	4D-N150Z	N150MF	
	AP200B, D20D, D250D	1	86Z	86	
	D25, D40, D250, D30, D300, D35, D300D, D350, D400	2	4D-N150Z	N150MF	
	D44, D50, D550, D650	2	N200MF		
	Challenger 55, 65C, 65D, 65E, 70C, 65, 65B, 75A, 75C, 75D, 75E, 85C, 95D, 95E	2	86Z	86	



MAKE/TYPER	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	112E, 112F	4	26		
	12 17K Series	2	86Z	86	
	12 G12, 12E, 613 Scraper	1	12A		
	140G 14	2	4D-N150Z	N150MF	
	G140, 55F Series	2	86Z	86	
	IT28B	2	86Z	86	
	D10N	1	N200MF		
	D11N	4	4D-N150Z	N150MF	
	D3C, D4C, D4H, D5C, D5E, D5H	2	86Z	86	
	D4, D5	2	4D-N150Z	N150MF	
	922, 950, 955, 966, 977, D6C, D6B, 57A	2	4D-N150Z	N150MF	
	D4C (10Hp)	1	N70ZZH	N70ZZ"	
	D6D, D6H, D8N	2	86Z	86	
	D7, D8, D9 Direct Electric Start	2	8D-N200Z	N200MF	
	D7, D8, D9 Petrol	1	67	57"	
	D9N	2	4D-N150Z	N150MF	
	910F, 918F, 953B	2	86Z	86	
	922, 950, 966 Traxcavator (Japanese)	2	4D-N150Z	N150MF	
	933, 922 Traxcavator (US)	4	12A		
	944	4	26		
	950, 966 Traxcavator (US)	4	12A		
	980, 988	2	8D-N200Z	N200MF	
	988F, 922D	4	86Z	86	
	992	4	8D-N200Z	N200MF	
<b>CHAMBERLAIN</b>					
	Industrial 800, 894, 895 Loaders	1	89		
	Industrial C456, 212	1	89		
	Industrial 700, 791 Loader	1	89		
	C670, C6100, C4080, C2000 loader	2	26		
	Industrial Champion 4280, 4480	2	26		
	Industrial Champion Mk.3, Mk.4 70D	2	26		
	Industrial Champion 236, 239, 306, 354	2	26		
	Contractor 354	2	26		
	Tractor 3380, 4080, 4090, 4280, 4290, 4480, 4490, 4690	2	26		
<b>CLASS</b>					
	Dominator 105 (OM360 Mercedes)	1	4D-N150Z	N150MF	
	Dominator 68S, 98SL, 88S	1	N120MF		
<b>CLARK FORKLIFT</b>					
	C500 Series HY 40-55 Diesel	1	86Z	86	
	C500 Series HY 40-55 Petrol, Y60 (173 Motor)	1	NS70X	NS70"	
	C500 Series, Y80 Diesel	1	4D-N150Z	N150MF	
	C500 Series, Y80 Petrol	1	67	57"	
	Car Loader, 4000lb, 5000lb	1	12A		
	CF20, 25, CY260, CY250	1	NS40ZSX	NS40ZS	
	Clark Lift 4000, 5000lb Perkins P3	1	N70ZZH	N70ZZ"	
	Clarkton	1	67	57"	
	CY400	1	8D-N200Z	N200MF	
	CY80, CFY80, C60, C70	1	NS70X	NS70"	
	Van Carrier	2	8D-N200Z	N200MF	

MAKE/TYPER	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	Yard Lift & Utilitruc 60 6000lb, 7000lb	1	4D-N150Z	N150MF	
	Yard Lift 40, 4000lb. Holden 12V	1	N70ZZH	N70ZZ"	
	Yard Lift 40, 4000lb. Perkins P3	2	12A		
<b>CLETRAC</b>					
	DD, FD	1	4D-N150Z	N150MF	
	SB, ED	4	26		
<b>COCKSHUTT</b>					
	500D	2	26		
	Combines 6 Volt 55D, 56D, 57D	1	12A		
	Combines 12 Volt All Models	1	67	57"	
<b>COLES CRANES</b>					
	H171 Diesel	1	8D-N200Z	N200MF	
	Lorry Mounted, Mobile	4	12A		
	Prime Movers for Cranes	4	26		
<b>CONVEYANCER FORKLIFT</b>					
	D4-24, D4 24, D424	1	N70ZZH	N70ZZ"	
	TC4-24, TC5-24, TC6-24	1	N70ZZH	N70ZZ"	
	D4-2,	1	N70ZZH	N70ZZ"	
	G4-24 MKN, G424 MKN, G4-24 MKN, G4-24MIB	1	N70ZZH	N70ZZ"	
	M2 PetrolM, M16 Diesel	1	N70ZZH	N70ZZ"	
	PW4, PW5, PW6, PE8	1	67	57"	
	TC4, TC5, TC6, TC67, TC27	2	12A		
	TC724, TC6, TC7 Yard Model	1	N70ZZH	N70ZZ"	
<b>CROWN</b>					
	All B Models	2	12A		
	All W Models except 227	4	12A		
<b>DAEDONG</b>					
	T1914	1	NS70X	NS70"	
	T2200, T2260	1	N70ZZLH	N70ZZL"	
<b>DATSUN FORKLIFT</b>					
	CF, FO, GFO, FD, PF, GF, QF, PFG, QGF Series	1	NS70X	NS70"	
	FG, CFG Series	1	NS60S"		
<b>DAVID BROWN</b>					
	770, 780, 880, 900, 990, 885, 995, 1200, 1210, 1410, 1412 Diesel	1	86Z	86	
	Cropmaster	1	O3		
	Cropmaster Plough	1	N70ZZH	N70ZZ"	
	Series 2 880, 990	1	4D-N150Z	N150MF	
<b>DEUTZ</b>					
	35, 277, D4006, D5006, D6006	1	N70ZZH	N70ZZ"	
	9170, R50	2	N70ZZH	N70ZZ"	
	D3006	1	DIN85LMF		
	D50	2	N70ZZH	N70ZZ"	
	D7006, D8006, D1006, D13003	1	86Z	86	
	DK75	4	12A		
	DX4.51, DX3.65, DX6.30	1	4D-N150Z	N150MF	
<b>DRM.Co</b>					
	Grader	2	8D-N200Z	N200MF	



MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>EUCLID</b>					
	Earthmoving Dump Trucks	1	8D-N200Z	N200MF	
	Skidders, Wheel Dozers, Wheel Loaders	1	86Z	86	
	With Air Start	2	4D-N150Z	N150MF	
<b>FABTEK (Air Lift Platforms)</b>					
	M30, T30	2	86Z	86	
	T40	2	12A		
	V30, V36	1	67	57"	
<b>FENDT</b>					
	240S, 250S/SA, 260S/SA, 275SA, 307LSA	1	DIN85LMF		
	308LSA, 311LSAA, 312LSA, 614LSA, 310LSA	1	4D-N150Z	N150MF	
	Farmer 200 V, 200 P, 200 S Series	1	DIN85LMF		
	Tool Carrier 300 Series	1	DIN85LMF		
	Favorit 500	1	N120MF		
	Favorit 800 Series	2	DIN85LMF		
<b>FIAT</b>					
	650, 665M, 765, 955C, 14C	1	94 Squat		
	666	1	89		
	40CAFL4, 311C, 411C, 411C1, 60C1, 70C1, 204	1	N70ZZH	N70ZZ"	
	455, 505, 650C	1	94 Squat		
	40C1, 50C1	1	67	57"	
	70C1/205, 80C1	2	86Z	86	
	AB, BD, FL10, FL14AD12, 555, KL10	2	N70ZZH	N70ZZ"	
	FL, 60C1	2	DIN85LMF		
	1000, 1000DT, 1000 Super, 1300 Super, 155-90, 130-90, 160-90, 180-90	1	4D-N150Z	N150MF	
	1180, 1380, 1580, 1880, DT Models	1	4D-N150Z	N150MF	
	211RB, Laverada 3500	1	N70ZZH	N70ZZ"	
	300, 450, 456, DT	1	86Z	86	
	411RB, 415, 422RB, 513R	2	N70ZZH	N70ZZ"	
	450, 500, 500DT, 505C, 605C, 455, 455DT, 540, 640, 4WD Models	1	94 Squat		
	4566, 5066	1	DIN85LMF		
	550, 600, 600DT, 600S, 615, 650, 750, 750S, 650S, 566, 666, 766, 66 Series, 90 Series	1	4D-N150Z	N150MF	
	580, 680, 780, 880, 990, DT Models, 80 Series	1	89		
	70-90, 80-90, 90-90, 100-90	1	N70ZZH	N70ZZ"	
	80R	2	86Z	86	
	900	1	8D-N200Z	N200MF	
<b>FORD NEW HOLLAND</b>					
	1048, 1049, 1065	1	NS70X	NS70"	
	1068, 1069, 1075	2	NS70X	NS70"	
	1078, 1079, 1085	1	86Z	86	
	8500	2	NS70X	NS70"	
	TR86, TR96	2	86Z	86	
	1915, 2100, 2115	4	89		
	6710, 7710	1	94 Squat		
	1000, 1110, 1120, 1210, 1220, 1320, 1520, 1720	1	NS70X	NS70"	
	1100	1	N70ZZLH	N70ZZL"	

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	1300, 1310, 1500, 1510, 1600, 1700, 1710, 1910, 1920, 2110, 2120	1	N70ZZH	N70ZZ"	
	3000, 2000	1	DIN85LMF		
	2100	1	86Z	86	
	2810, 2910, 3400, 3500, 3910, 4000, 4100, 4110, 4400, 4500, 4600, 4610, 5600, 6600	1	94 Squat		
	3220, 3230	1	86Z	86	
	5000, 5550, 5610, 5900, 6000, 6610, 7000, 7710, 7610	1	94 Squat		
	5640, 6640, 7740, 8240, 8340	1	86Z	86	
	5700, 6700, 7700, 7810, 8210	1	94 Squat		
	8010	1	89		
	846, 876	3	86Z	86	
	8600, 8700, 9600, 9700	1	94 Squat		
	9030, 946, 976, 9482, 9782, FW20, FW30, FW40, FW60, TS100	2	86Z	86	
	TW5, TW10, TW15, TW20, TW25, TW30, TW35	1	94 Squat		
	Industrial Loader	1	89		
<b>FORDSON</b>					
	1210	1	67	57"	
	1520	1	86ZMF		
	1710	1	N70ZZH	N70ZZ"	
	1910	1	86ZMF		
	276	1	86ZMF		
	2000	1	DIN85LMF		
	2100	1	86ZMF		
	3000	1	DIN85LMF		
	3400, 3500, 3910	1	94 Squat		
	4000, 4100, 4110, 4400, 4500, 4600, 4610	1	94 Squat		
	5000, 5610, 555C	1	94 Squat		
	6000, 6610	1	94 Squat		
	7000, 7710	1	94 Squat		
	876	3	86ZMF		
	8210, 9600	1	94 Squat		
	F6000 Series Diesel	1	86ZMF		
	Major Diesel (Since 1956)	2	C105		
	TR Series	2	86ZMF		
	TW25	1	94 Squat		
	TX34	2	DIN65LMF		
<b>FOWLER</b>					
	Challenger & Tractor (Meadows Eng.)	1	4D-N150Z	N150MF	
	Challenger Mk111	1	N70ZZH	N70ZZ"	
<b>FREIGHTER</b>					
	All 12 Volt Models	1	N70ZZH	N70ZZ"	
	All 6 Volt Models	1	O3		
<b>GALION</b>					
	Road Grader	2	26		
	Road Grader Series 118	2	8D-N200Z	N200MF	
<b>HANOMAG</b>					
	22C, 33C, 400C	1	86Z	86	



MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	D600D, L600D Crawler	1	4D-N150Z	N150MF	
	R28	1	4D-N150Z	N150MF	
	R40 Diesel, K55 Commer, K55E Commer	1	N70ZZH	N70ZZ"	
	45 Std	1	N70ZZH	N70ZZ"	
	R45 Special	2	26		
<b>HINIMOTO</b>					
	2 Cyl. Diesel	1	N70ZZH	N70ZZ"	
	MB 1100 Rotary Hoe	1	53	43	
<b>HODGSON LIFT</b>					
	DG, BG Series Diesel	2	26		
<b>HOLMAN COMPRESSORS</b>					
	AT8D	1	DIN65LMF	DIN53LMF	
	Rotair, Rotair 60D, TA130	2	12A		
	Trailair 44	1	O3		
	VW Engine 12 Volt	1	53	43	
<b>HYSTER FORKLIFT</b>					
	H165 250E Diesel, H300A, M500-600H	1	N120MF		
	H165 250E Petrol, P125 180A	1	67	57"	
	H20 30E Diesel, P40 50A	1	86Z	86	
	H360 620B, H700 800A	1	8D-N200Z	N200MF	
	H40, H50, H60 Diesel	1	67	57"	
	H60, H70, H80 Petrol	1	67	57"	
	H110, H130, H150F	1	67	57"	
<b>INGERSOLL-RAND</b>					
	D175, D200	1	8D-N200Z	N200MF	
1956-65	DL600, DL900, DL1200, DR900	2	12A		
1952-65	DR210, DR250, DR315, DR365, DR600, GR600, IKQ415	2	N120MF		
	DRRF 160	2	NS70X	NS70"	
	DXL600, DXL700, DXL750, DXL850	1	4D-N150Z	N150MF	
1958-65	GRA GRB 125	1	67	57"	
	HP300, HP320, HP525, HP600, HP750, HP850	1	4D-N150Z	N150MF	
	P100, P110, P125, P130, P150, P160, P175, P185, P250, P300	1	N70ZZH	N70ZZ"	
	P375, P425, P700, P850, P900, P1100, P1600	1	4D-N150Z	N150MF	
	XHP750, XP1400, XP600, XP750, XP825, XP900	1	4D-N150Z	N150MF	
<b>INTERNATIONAL</b>					
	420, 422	2	12A		
	622	1	4D-N150Z	N150MF	
	TD15B-175L, TD15C-175CL	4	12A		
	TD18-182 Series, TD20-200 Series, TD20B 250L	2	26		
	BTD20-200 Series, BTD20 -201 Series	4	26		
	TD24, TD20C/250CL	4	26		
	TD20E, TD25C, TD25B, TD30	2	8D-N200Z	N200MF	
	TD25-250 Series	4	26		
	3961, 3960	2	26		
	275, 711	1	N120MF		
	403, 503, 175	1	67	57"	
	915 Header, E211, E200	2	26		
	PH65B, PH65C, PH140, PH270, E270, E412, E442, E431, E444, E443	4	12A		

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	PH95, PH100, PH180, PH295B, E295B	2	8D-N200Z	N200MF	
	350, 340	2	8D-N200Z	N200MF	
	3200A	1	51	41	
	3200B, 3300B	1	67	57"	
	D500	4	8D-N200Z	N200MF	
	H120, D120 Series, S9A, S11A	4	26		
	H400	4	4D-N150Z	N150MF	
	H80A, H80B, FH65C	2	4D-N150Z	N150MF	
	H90B, H100B, H100C, H90C, D90C, D100B, L100	4	26		
	H90E	2	8D-N200Z	N200MF	
	S7B, S7C, S9B	2	86Z	86	
	UDT361, UDT407	2	12A		
	UDT573, UDT429	2	4D-N150Z	N150MF	
	UDT817	2	8D-N200Z	N200MF	
	A40-2, 2554D	2	12A	12A	
	3616	2	12A	12A	
	Loaders-3434	1	86Z	86	
	Loaders-3500	1	89		
	404, 414, 454, 484, 844, 766	1	86Z	86	
	4100, 4166, 4366, 4186	2	26		
	4386, 1086, 1486, 1586	2	N70ZZH	N70ZZ"	
	4568, 4586	4	N70ZZH	N70ZZ"	
	5541	1	NS70X	NS70"	
	624	1	4D-N150Z	N150MF	
	666, 1066, 1256, 1465, 1468, 1566, 806, F806	2	26		
	674, 844, 4186, 4386, 4586, 5641	1	N70ZZH	N70ZZ"	
	766, 844	1	86Z	86	
	856, 826, 1026, 1206, 21206, 21256	2	26		
<b>ISEKI</b>					
	320, 530	1	51	41	
	TX1500, TX2160	1	51	41	
	2140, 2160, 3210	1	51	41	
	4010, TS350	1	DIN85LMF		
	4270, 4320, 4370, 4410, 4450, 5000, 6000, 7000, 9000, SX95	1	N120MF		
	T6500	2	67	57"	
	TS, SX75, 4510	1	86Z	86	
<b>J.C.B. EQUIPMENT</b>					
	Chaeside - SL series	4	26		
	Track Excavators - 6C, 6D, 7C	2	26		
	Wheel Excavators 2, 2B, 3B, 3C, 3D	1	89		
<b>JOHN DEERE</b>					
	210B, 300B, 302A, 300B, 302A, 310C, 401C, 315C, 315D, 410D, 510D	1	NS70X	NS70"	
	300D, 310D, 444C, 444D, 444E, 515B, 544C, 544D, 544E, 644C, 644D, 644E, 646C, 710D	1	86Z	86	
	410B, 410C, 510B, 510C, 610B, 610C, 710C	1 TO 2	89		
	LX100, LXD100, LX120, LXD120, LX150	1	86Z	86	
	1200	1	67	57"	
	336, 346, 665, 780, 785	1	NS70X	NS70"	

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	1085	1	DIN85LMF		
	1640	2	DIN53LMF		
	40, 45, 55	2	67	57"	
	4400, 6600, 7700 Diesel	1	89		
	4420, 6620, 7720, 8820	2	NS70X	NS70"	
	5730, 5830 Self Propelled	2	N70ZZH	N70ZZ"	
	6000 Hi Cycle	1	NS70X	NS70"	
	630, 955, 975, 1065, 1075	1	86Z	86	
	95	2	12A		
	2155, 2555	2	DIN53LMF		
	482	1	89		
up to 1975	484	1	N70ZZH	N70ZZ"	
1976-77	484	1	NS70X	NS70"	
1978 - on	484	1	N70ZZH	N70ZZ"	
	6850, 7440, 7445, 7450, 7455	2	86Z	86	
	9900, 9910, 9920, 9940, 9950, 9960, 9965, 9970, 9976	1	NS70X	NS70"	
	25, 30, 50, 70, 70D, 290D	1	NS70X	NS70"	
	490, 495, 595, 595D	2	89		
	690C, 690CR, 690D, 890A, 990	1	86Z	86	
	690E, 690HD, 790, 792, 790D, 790E, 890, 892D, 992D	1	4D-N150Z	N150MF	
	5200, 5400, 5440, 5460	2	N100MF		
	5720, 5730, 5820, 5830	2	86Z	86	
	6610, 6710, 6810, 6910	2	DIN85LMF		
	480C	1	NS70X	NS70"	
	482C	1	89		
	570B	1	86Z	86	
	670A, 670B, 672A, 672B	2	89		
	770A, 770B, 772A, 772B	1	4D-N150Z	N150MF	
	425	1	8D-N200Z	N200MF	
	4700	2	N70ZZH	N70ZZ"	
	6000	1	NS70X	NS70"	
	6068 T15Q	1	89		
	6100, 6500, 6600	1	N70ZZH	N70ZZ"	
	110, 112, 120, 140, 400, 420, 430, 460	1	67	57"	
	790	1	NS70X	NS70"	
	4100	1	NS70X	NS70"	
	90, 96	1	N70ZZH	N70ZZ"	
	F710, F725, F735, F910, F911, F912, F915, F925, F930, F932	1	67	57"	46
	LX277, LX288, GT235, Z TRACK, M655	1	NS60LS"		
	24A, 125, 340D, 440C, 440D, 448D, 540B, 548E, 640D, 640E, 648D	1	86Z	86	
	300, 400, 400A, 440	2	67	57"	
	350, 450, 3120, 3130, 1010, 2010, SP105, 670	2	86Z	86	
	540, 740 Skidder, JD544 Wheel Loader, JD644 Wheel Loader	2	86Z	86	
	90, 125 Petrol	1	NS70X	NS70"	
	JD780 Windrower	2	NS70X	NS70"	
	JD860	2	N120MF		
	1010 Diesel, 1050, 1070, 1250, 1450, 1650	1	89		
	1010 Petrol, 1020, 1120, 1520, 1530	2	NS70X	NS70"	

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	1040, 1140, 1640, 2040S, 2140	2	N70ZZH	N70ZZ"	
	1750, 1850, 2345F	1	DIN85LMF		
	2010, 2840, 2940, 2950, 3150, 3155	1	89		
	2020, 2120, 2030, 2130, 2330, 2350, 2440, 2640, 2630, 2750	2	NS70X	NS70"	
	2250, 2450, 2650	2	DIN53LMF		
	2850	2	DIN53LMF	DIN44LMF	
	3140, 3350	2	DIN85LMF		
	350C, 350D, 355D, 450C, 450E, 455E, 550B, 555B, 655, 750B	1 TO 2	89		
	3650, 4055, 4255, 4455, 4555, 4755, 8560, 9500	2	86Z	86	
	4040, 4050, 4240, 4250, 4440, 4450, 4640,	2	26		
	4500, 450G, 455G, 550G, 555G, 625G, 655B, 850, 950, 970, 1050	1	N70ZZH	N70ZZ"	
	5010, 5020, 6030	2	N100MF		
	5210, 5300, 5310, 5410, 5500, 5510, 6200	1	86Z	86	
	6300, 6400, 6500, 6600	2	86Z	86	
	650, 750, 920	1 TO 2	NS70X	NS70"	
	7200, 7400, 7410, 7600, 7700, 7710, 7800, 7810	2	86Z	86	
	759, 750LGP, 850B	1	4D-N150Z	N150MF	
	8100, 8200, 8300, 8400, 8560, 8570, 8760, 8770, 8870	2	86Z	86	
	8430, 8440, 8450, 8650,	2	26		
	8850	3	86Z	86	
	8860, 8960	3	N70ZZH	N70ZZ"	
	850, 950, 1050	1	86Z	86	
<b>JONES MOBILE CRANES</b>					
	KL22, KL44, KL66	2	12A		
<b>K.L. (KELLY &amp; LEWIS)</b>					
	M40, N40, P48, S55	1	4D-N150Z	N150MF	
<b>KADO</b>					
	550	2	86Z	86	
<b>KOMATSU</b>					
	D50, D55, D60, D65, D80	2	N150MF		
	D85, D150, D155, D355	2	N200MF		
	PC200, PC220, PC250, PC300, PC400	1	N150MF		
	25/5, 25/7 Petrol	1	NS40ZSX	NS40ZS	
	GD530, GD650	2	86Z	86	
	GD750	2	4D-N150Z	N150MF	
	WA100	1	N100MF		
	WA250, WA320, WA350, WA380, WA420, WA450	1	4D-N150Z	N150MF	
	WA500, WA600	1	N200MF		
<b>KUBOTA</b>					
	4 Cyl. Gen.Sets, L4150	1	N100MF		
	M7030DT, 550DT, 895DT, 3750, 4500, M4950	1	N100MF		
	B1700, B2100, B2400, B2710, B7300	1	NS60LS"		
	B21, B7400, B7500	1	NS60S"		
	B2150, B6100, B8200	1	NS70LX	NS70L"	
	B5100E, B6200, B7100, B7200	1	NS60LS"		
	B6000 Petrol	1	NS70X	NS70"	
	2400 Series Mowers	1	NS70X	NS70"	



MAKE/TYPER	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	G1800, G1800S, GF1800, G1900S, TG1860	1	NS60LS"		
	G4200, B5200, B7100HST, G400, G200, G5200, GT1050	1	NS40ZLSX	NS40ZLS"	
	KH35 Trencher	1	NS60S"		
	L185, L245, L275, B6000, 2435, L2550	1	86Z	86	
	L2350, L2500, L2650, L2950, L3410	1	NS70LX	NS70L"	
	L345SS, L405, M8970, M4050, M4500, L295, L345, L285	1	86Z	86	
	M Series Tractors	1	N100MF		
	M7500, M5500	1	4D-N150Z	N150MF	
	T Series, T1400	1	12N24-4	U1MF	
	5030, 4030, 6030	1	4D-N150Z	N150MF	
	ZD18, ZD2	1	NS60LS"		
<b>LANSING BAGNALL</b>					
	TD200, AMS16, FODR, FOPR, FOGR	1	N70ZZH	N70ZZ"	
<b>LANSING-HENLY</b>					
	All Models 12 Volt	1	89		
	All Models 24 Volt	2	89		
<b>LANZ BULLDOG</b>					
	D1706, D2206, D2416	1	67	57"	
	D2416H, L30, N40, P48, S55, ST, DT	1	26		
	D2803, D2806, D3606	1	N70ZZH	N70ZZ"	
	C, H, K, O, Q, R, DR, TDT	1	N70ZZH	N70ZZ"	
<b>LE TOURNEAU WESTINGHOUSE (Wabco)</b>					
	B.T. Pull , C.T. Pull	1	8D-N200Z	N200MF	
	CH.W18, 444 Cummins	4	26		
	CP, CP6, CFA30, CFA35, CFA0, CFA65	2	8D-N200Z	N200MF	
	CW Tractor	8	12A		
	L100L, L300 Loader	2	26		
<b>LEYLAND</b>					
	All Other Tractors	1	89		
	154, 245	1	N70ZZH	N70ZZ"	
<b>LINCOLN WELDERS</b>					
	400AS Perkins, AS1699	1	N70ZZH	N70ZZ"	
	400AS, 500AS	2	NS70X	NS70"	
	AK1189, H2, Weldon H6, K1192	1	53	43	
	H2	1	53	43	
	K1192	1	53	43	
	AS2046 4/2 Generator, AS1906 4/6 Generator	1	N70ZZH	N70ZZ"	
	225 Petrol, 225D-175 Elec Start, 225AC DC, 300 AC DC	1	51	41	
<b>MASSEY FERGUSON</b>					
	1085, 1105, 1135, 1155, 1505, 1805	2	86Z	86	
	135	2	86Z		
	130, 175, 178, 185, 188, 590	1	89		
	154, 254 Italian Series	1	86Z	86	
	154, 254, 274, 294	1	N70ZZH	N70ZZ"	
	178, 1100, 3305, 203, 205, 203X, 205X, 2135, 3303, 205MKII	2	86Z	86	
	205, 210, 220, 230, 240, 245, 250, 394, 3080	1	NS70X	NS70"	
	335, 350, 355, 360, 365, 373, 375, 390	1	DIN65LMF		

MAKE/TYPER	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	3065	1	DIN65RMF		
	398, 399, 3090, 3535, 3630, 3650	1	DIN65LMF		
	42, 254, 245	1	86		
	510, 585 Header, 587, 750 Header, MF35	1	86Z	86	
	542 Header, 174, 194 Italian Series	1	89		
	5445, 5455	1	DIN92LMF		
	5465, 6130	1	DIN65LMF		
	6255, 6265, 6270	1	DIN65RMF		
	6970	1	N100MF		
	65R, 65S, 3165S, 135, 165, 168, 2135, 2205, 2203, 3165R	1	86Z	86	
	85, 88, 90	2	26		
	7475, 6265	2	DIN65RMF		
	MF30, MF35FE, 550, 575, MF65D, MF85, 88, 90 Diesel	1	86Z	86	
	MF35 Diesel, DEF Diesel, TEF20, FE35D, FE35D	2	26		
	MF702, MF35 Petrol, MF35R, FE35D, FE135P, RED2, TEA20	2	26		
	MF95 Diesel, 250 Tractor	1	N70ZZH	N70ZZ"	
	Spreader 760, Super 90, 3680	2	86Z	86	
<b>MATBRO</b>					
	Front End Loader	2	26		
<b>McDONALD</b>					
	Road Roller, 12 Volt	2	26		
	Road Roller, 24 Volt	2	N70ZZH	N70ZZ"	
<b>MERCEDES BENZ</b>					
	1300 Tractor	1	94 Squat		
<b>MICHIGAN (CLARK)</b>					
	125, 175, 180, 280 Series 3 All Engines	2	4D-N150Z	N150MF	
	35A, 35AWS, 45, 55, 55 Series 3, Bedford 330 Engine	2	26		
	55R, 55AWS, 65R, 65AWS, 65A	1	N120MF		
	75, 85 Series 3 Leyland Engine	2	86Z	86	
	75, 85 Series 3, GM Engine	1	4D-N150Z	N150MF	
	85 Series 85 111A	2	N120MF		
	B12B Diesel	2	O3		
	B12B Petrol	1	NS40ZSX	NS40ZS	
	Ranger V664, 666 Skidder	2	86Z	86	
	Series 3 GM Engine	2	26		
<b>MINNEAPOLIS</b>					
	G705 2 Wheel, G706 4 Wheel	2	26		
	G900, G1000	2	86Z	86	
<b>MITSUBISHI</b>					
	D1300	1	NS60LS"		
2000-05	Rosa Bus	1	75D23R	55D23R"	
	FD25, FD20	1	DIN85LMF		
	FG/D30, FG/D35	1	67	57"	
	FG14, FG15	1	NS40ZSX	NS40ZS	
	FG20, FG25	1	DIN53LMF		
	MG100 Grader	2	N100MF		
<b>N.C.K. EXCAVATOR</b>					
	205, 304, 605	4	26		

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>NEW HOLLAND</b>					
	103	1	26		
	1545	2	26		
	1550 Turbo, 360CC	1	N70ZZH	N70ZZ"	
	261	1	NS70X	NS70"	
<b>NUFFIELD</b>					
	3DL, Nuffield 3, 3/42, 3/45, 10/42	1	86Z	86	
	10/60, 4/60	2	26		
	DM4, DM3V, 40M, N4	2	26		
	DM Perkins Diesel	2	12A		
	M4, M, PM, M3V, PM4, PM3 Mini Tractor	1	N70ZZH	N70ZZ"	
<b>OLIVER</b>					
	15, 18, 33, 35, 40, 100 Bailer	1	12A		
	431	1	67	57"	
	DDH, OC15	1	N120MF		
	FDE, OC12, OC18	1	8D-N200Z	N200MF	
	HG31, HG42, OC3, OC4	1	12A		
	OC6	2	12A		
	P50	1	67	57"	
	12, 90, 165	1	N120MF		
	1600	2	4D-N150Z	N150MF	
	1800, 1850, 1900, 1950	2	26		
	99, 950	2	12A		
<b>P &amp; H EXCAVATOR</b>					
	55, 105, 105 Mobile Crane, 1564, 1566	1	N70ZZH	N70ZZ"	
	Prime Movers for Mobile Cranes	4	26		
<b>POCLAIN</b>					
	CC120 Excavator	1	94 Squat		
<b>SAME TRACTORS</b>					
	Ariete, Leonne	2	26		
	Atlanta, Centauro, Corsaro, Minitauro, Saturno	2	12A		
	Buffalo 120, Dragon, Leopard 85, Tiger 100, Centurion	1	4D-N150Z	N150MF	
	Condor 55	1	NS70LX	NS70L"	
	Dolfino 35, 45, Falcon	1	86Z	86	
	Mini Taurus	1	N120MF		
<b>SHIBAURA</b>					
	1300, 1340, S320	1	NS70X	NS70"	
	1600, 1640, 2500, 2540	1	N70ZZH	N70ZZ"	
	S330, SD5040T, 4000, 4050, 3000, 3040	1	N100MF		
	S445	1	DIN85LMF		
	U490F	1	4D-N150Z	N150MF	
<b>SMITH</b>					
	All Models	1	C105		
<b>STACA/STACATRUC</b>					
	All Models	1	N70ZZH	N70ZZ"	
<b>STEIGER</b>					
	Bearcat 1000	3	86Z	86	
	Bearcat II	1	8D-N200Z	N200MF	
	Bearcat III	4	86Z	86	

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	Cougar 1000, CM, CR, KM, KR	3	86Z	86	
	Cougar II	2	8D-N200Z	N200MF	
	Cougar III	4	86Z	86	
	CS, KS, PT, PTA	4	86Z	86	
	Lion 1000	4	86Z	86	
	Panther 1000, 1000CP, 1000KP, 1000PT, 1000PTA	4	86Z	86	
	Panther II	2	8D-N200Z	N200MF	
	Panther III, Puma 1000	4	86Z	86	
	Tiger ST450, ST470	4	86Z	86	
	Wildcat II, III	1	8D-N200Z	N200MF	
<b>STEYR DAIMLER</b>					
	80 With Starter, 180	1	N70ZZH	N70ZZ"	
<b>SUMITOMO</b>					
	LS 2800 Excavator	1	94 Squat		
<b>T.C.M</b>					
	FD100	2	4D-N150Z	N150MF	
	FD25	1	DIN85LMF		
	FD35	2	N120MF		
	FG10, FG14	1	51	41	
	FG20, FG25	1	67	57"	
<b>TENNANT</b>					
	220, 240, 92, 92aa, 92se, 210, 265, 280	1	NS70X	NS70"	
<b>TOFT</b>					
	Mk I	2	26		
	Mk II Mercedes 10	2	89		
	Mk III Caterpillar	2	8D-N200Z	N200MF	
<b>TOW MOTOR</b>					
	600, 7000, 8000LB, 680P	1	12A		
	Mk II Pacemaker	1	N70ZZH	N70ZZ"	
<b>TOYOTA FORKLIFTS</b>					
	FG25 5, 7 Series Petrol	1	NS60LS"		
	2FD20-25, 2FD20 25, 2FD2025	1	51	41	
	FDT25	1	51	41	
	2FGC30, FB5, FB7, FB9, FB20-25	2	NS70LX	NS70L"	
	FB30, FB40	2	NS70LX	NS70L"	
	FB10-15, FDA50-60, FD80, FD100, FD150, FDA150, FD250	2	NS70X	NS70"	
	FCG10, FCG15, FCG20, 2FG25, LC6, FG35	1	68	58"	
	FDT25, 2FD30, FD32-35, FD40, 2FD40-60, FDC20-25	2	NS70X	NS70"	
	FDC30, FG30, 2FG32-35, 2FG40, 2FG50-60, FCG10-15, FGC20-25	2	NS70X	NS70"	
	FG7, FG9, 3FG10, 2FD10, 3FG15, 2FD15, 2FG20-2	1	51	41	
	SKD4 Loader	1	86Z	86	
	SKD6 Loader	2	86Z	86	
	TG10	1	67	57"	
<b>TRACK MARSHALL</b>					
	All Models	2	12A		



MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>TURNER</b>					
	Diesel, MkII	1	DIN92LMF		
<b>TUTT BRYANT</b>					
	Ebling Junior Sweeper, Lion	1	12A		
	Little Ford Spray Master	1	26		
	Pacific Riller Truck	1	N70ZZH	N70ZZ"	
	Pengo Earth Boring Machine	1	NS70X	NS70"	
<b>TWIN CITY</b>					
1954-55	Baler, U. & G.	1	N70ZZH	N70ZZ"	
Up to 1953	Baler, U. & G.	1	12A		
	G.B.D.	2	8D-N200Z	N200MF	
<b>U.T.B. UNIVERSAL</b>					
	445, 445DT, 550 Farmliner	1	94 Squat		
	U650M	1	4D-N150Z	N150MF	
<b>UNIMOG (MERCEDES BENZ)</b>					
	1700L	1	67	57"	
	30D Mercedes Benz	1	86Z	86	
	800, 1000, 1500	1	N120MF		
<b>URSUS</b>					
	2812, 3512	1	86Z	86	
	912, 914, 1014	1	26		
<b>VAL PADANA</b>					
	260, 330	1	68	58"	
	330RS, 350, 450, 455, 545RS, 555RS, 7060RS, 7070RS	1	N70ZZH	N70ZZ"	
<b>VENDOR</b>					
	DR80	1	N70ZZH	N70ZZ"	
<b>VERMEER</b>					
	1220BC, 1230BC	1	86Z	86	
	1250, 1600, 620, 625, 671, 935	1	NS70X	NS70"	
	TC23, TC33	1	NS70X	NS70"	
	D7, D14, D24, LS200 Log Splitter	1	NS70X	NS70"	
	1102SC, 665B Diesel, 672	1	86Z	86	
	186, 206, 222, 2465, 618, 620, 625, 630A	1	NS70X	NS70"	
	TS44, TS30	1	NS70X	NS70"	
	CC90, CC135, CC145, FLEXTRAK	1	4D-N150Z	N150MF	
	LM35, LM40, LM42	1	86Z	86	
	M418, M434, M450D, M455, M470D, M50D	1	NS70X	NS70"	
	M475, M485, M495, T400C, T600D	1	4D-N150Z	N150MF	
	M5800, M5850, M7850	1	NS70X	NS70"	
	OCC135, T650, T800, T1450, T1455	1	8D-N200Z	N200MF	
	T1055, 71255, T1505	2	8D-N200Z	N200MF	
	T555, T655, T658, T850, T755, T758	2	86Z	86	
	V430, V440, V450, V455, V4150, V4750, V5050, V5750, V5800	1	NS70X	NS70"	
	V7650, V8050, V8550	1	4D-N150Z	N150MF	
<b>VERSATILE</b>					
	160, 256, 276, 756	2	NS70X	NS70"	
	300, 500, 555, 700, 750, 800, 835, 850	2	8D-N200Z	N200MF	
	400, 4400	1 TO 2	NS70X	NS70"	

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	4700, 4750	1	86Z	86	
	744, TW8030	1	94 Squat		
	836, 846, 856, 876, 9030, 936, 946, 956, 976	3 or 4	86Z	86	
	875, 895, 900, 935, 950, 945, 955, 975	1	8D-N200Z	N200MF	
<b>VICKERS ARMSTRONG</b>					
	2000, 2600	2	26		
<b>VOLVO</b>					
	L50, L70	1	DIN85LMF		
<b>WABCO</b>					
	111A Scraper	4	12A		
	333F Scraper	2	8D-N200Z	N200MF	
	Haulpak 170 Tonne	2	86Z	86	
<b>WALTANIA</b>					
	Trac 2000	1	4D-N150Z	N150MF	
<b>WHITE</b>					
	125, 145, 170, 195	2	NS70X	NS70"	
	2/135	1	86Z	86	
	2150, 4250, 4280, 2/155, 2/180, 4/120, 4/175	2	86Z	86	
	285, 2105	1	N120MF		
	4650, 4660, 5660, 5670, 5680, 5760, 6045	1	DIN85LMF		
	5542	1	NS70X	NS70"	
	60, 80, 100, 120, 140, 160, 185	2	86Z	86	
	6065ROPS, 6065c, 6085, 6090, 6670, 6680, 6690, 7600	1	DIN85LMF		
	6105, 7630, 7650	1	94 Squat		
	6124, 6125, 6144, 6145, 6175, 6195, 6215, 6410, 6510, 6710	2	NS70X	NS70"	
	703, 704, 7300	2	26		
	706D, 707D	1	8D-N200Z	N200MF	
	708, 709, 800, 801, 802	1	8D-N200Z	N200MF	
	800A, 800C, 802C, 803A, 803C, 8310, 8410	2	86Z	86	
	8510, 8610, 9435, 9455, 9630, 9635, 9655, 9675, 9690, 9695, 9815	2	NS70X	NS70"	
	8700, 8900, 8920	2	NS70LX	NS70L"	
	9700, 9720	3	86Z	86	
	FB185	2	86Z	86	
	FB31, FB37, FB43	1	N70ZZH	N70ZZ"	
<b>YALE FORKLIFT</b>					
	D Diesel	1	DIN85LMF		
	G, GP Series	1	12A		
<b>YANMAR</b>					
	186	1	51	41	
	276	1	N70ZZH	N70ZZ"	
	336	1	86ZMF		
<b>ZETOR</b>					
	10111, 10145, 12111, 12145, 14145, 16415	2	86Z	86	
	2511, 3511, 3545	1	DIN85LMF		
	4511, 5511, 5545, 8111, 8145, 9111, 9145	2	86Z	86	
	5211, 5245, 6211, 6245, 7211, 7245, 7711, 7745	1	4D-N150Z	N150MF	
	6745, 8011, 8045, 12011, 12045, 4712, 5711	1	86Z	86	

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>AGCO-ALLIS</b>					
	1316H Front Cut	1	12N24-4	U1MF	U1MF
	411G, 512G, 514G, 516G, 1615G, 1716G, 1716H, 1717H, 1718H	1	12N24-4	U1MF	
	1918H, 1920H, 918H, 918PS, 1918H, 1920H	1	68	58"	47
	1614H, 1614HV, 1615H, 1616H, 512H, 514H, 516H	1	12N24-4	U1MF	
	409G, 411G, 412G, 412H, 413H, 414H	1	12N24-4	U1MF	
	ZT14H, ZT16H	1	12N24-4	U1MF	
<b>AIR ELECTRIC MACHINE CO</b>					
	380, DS-25, DS30	1	12N24-4	U1MF	
<b>ALLIS CHALMERS</b>					
	1036 Spirit, 608LTD, 611H, 611LTD, 611 Special	1	12N24-4	U1MF	
	613, 616H, 616 Special, 830 Sprint	1	12N24-4	U1MF	
	T816, T811	1	12N24-4	U1MF	
<b>ARIENS/GRAVELY CO.</b>					
	931000, 934000, 936000, 929000, 935000 Series	1	12N24-4	U1MF	
	914000 Series	1	12N24-4	U1MF	
	12597, 12982, 12984, 13943, 13967, 13990	1	12N24-4	U1MF	
<b>ATLAS TOOL &amp; MFG CO.</b>					
	ER3000, ER7130	1	12N24-4	U1MF	
<b>BOLENS CORPORATION</b>					
	All Diesel Models except G2702 & GT2704	1	NS40ZSX	NS40ZS	
	G2702 & G2704 Diesel	1	NS70X	NS70"	
	Husky 850, 1050, 2028, 2030, 2036	1	12N24-4	U1MF	
	1000 Series	1	68	58"	47
	1300 Series	1	12N24-4	U1MF	
	1400 Series	1	68	58"	47
	1600, 2027, 2123 Series	1	12N24-4	U1MF	
	3000 Series	1	68	58"	47
	5100 Series, STH125, SRG125	1	12N24-4	U1MF	
<b>BUNTON</b>					
	Commercial Clipper 1810, 2010	1	12N24-4	U1MF	
	Country Clipper All Models	1	12N24-4	U1MF	
	BBMH, BBM 50C, BBM60C	1	12N24-4	U1MF	
	Columbia 387, 397, 455, 485, 497, 525, 667, 760	1	12N24-4	U1MF	
	BHT, BHC	1	12N24-4	U1MF	
	36', 48', 52'	1	12N24-4	U1MF	

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>COX</b>					
	CR8401 Commercial, Lawn Boss CR9600, CR9601	1	12N24-4	U1MF	
	Stockman CR13.0 32LA, CR15.0 32D, CR15.0 32LA, CR17.0 32D, CR17.0 40D	1	12N24-4	U1MF	
	Stockman CR17.0 32LA, CR17.0 40LA	1	12N24-4	U1MF	
	Stockman Rear Bagger CR17.0 40RB, CR18.0 40RB	1	12N24-4	U1MF	
	Stockman CR18.0 32D & 40D	1	12N24-4	U1MF	
	32 Series C1332, C1532 Side Discharge	1	12N24-4	U1MF	
<b>CLUB CADET (INTL HARVESTER)</b>					
	1000, 1100, 1200, 108, 109	1	12N24-4	U1MF	
	1250, 1450, 1650, 128, 129, 149, 169	1	12N24-4	U1MF	
	1512 from 724,525 to 799,999	1	12N24-4	U1MF	
	1512 from 800,000	1	68	58"	47
	1572 from 724,525 to 799,999	1	12N24-4	U1MF	
	1572 from 800,000	1	68	58"	47
	1772 from 724,525 to 700,999	1	12N24-4	U1MF	
	1772 from 800,000 882	1	68	58"	47
	882 from N0 724,525 to 700,999	1	12N24-4	U1MF	
	All other Diesel models	1	68	58"	47
	All other Petrol models	1	12N24-4	U1MF	
	1440, 1641, 1782, 1863, 1864	1	68	58"	47
	182 from 100,001	1	12N24-4	U1MF	
	182 from 70,001 to 100,000	1	YB14L-A2#	YB14L-A2#	
	182 to 70,000	1	12N24-3	U1RMF	
	282 from 10,001	1	12N24-4	U1MF	
	282 from 70,001 to 100,000	1	YB14L-A2#	YB14L-A2#	
	282 to 70,000	1	12N24-3	U1RMF	
	382 from 100,001	1	12N24-4	U1MF	
	382 from 70,001 to 100,000	1	YB14L-A2#	YB14L-A2#	
	382 to 70,000	1	12N24-3	U1RMF	
	445, 482, 502, 602, 702	1	12N24-4	U1MF	
	514, 518	1	YB14L-A2#	YB14L-A2#	
	583 from 100,001	1	12N24-4	U1MF	
	583 from 70,001 to 100,000	1	YB14L-A2#	YB14L-A2#	
	7192, 7194, 7195, 7293, 7234, 7235	1	68	58"	47
	800, 982, 85, 85 Special, 86, 87	1	12N24-4	U1MF	



MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>CUSHMAN</b>					
	Front Line, Turf Truckster	1	NS70X	NS70"	
<b>DEUTZ</b>					
	1036, 1814, 1816, 1817	1	12N24-4	U1MF	
	5220, 5230 Diesel	1	N70ZZLH	N70ZZL"	
	600, 800 Series	1	12N24-4	U1MF	
<b>DEVERE-LOCKE</b>					
	TR-9, TR9, TR 9, 121/2	1	12N24-3	U1RMF	
<b>DIXIE CHOPPER</b>					
	5018, 5020, 5024, 6024	1	12N24-4	U1MF	
<b>DIXON</b>					
	Economy tractor PK1212	1	12N24-4	U1MF	
	308, 424, 425, 426 ZTR, 311, 427, ZTR310, 312, 361, 428	1	12N24-3	U1RMF	
	429, 502, 2301, 3303, 3304, 3362, 4421, 4422, 5421, 5501, 5601, ZTR01001	1	12N24-3	U1RMF	
	3303, 3362, 5423, 5502, 5601, ZTR6022	1	12N24-3	U1RMF	
<b>DYNAMARK</b>					
	12.5Hp 40	1	12N24-4	U1MF	
	14.5Hp 40	1	12N24-4	U1MF	
	18Hp 43	1	12N24-4	U1MF	
	1200 Series	1	12N24-4	U1MF	
	3188, 3189, 3812, 3912, 3916, 4012, 4518, 4618, 5180, 5181, 5184, 5188, 5283, 5288	1	12N24-4	U1MF	
	5289, 5293, 5296, 5297, A3611	1	12N24-4	U1MF	
<b>ENCORE</b>					
	36K 250, 48K 250, 48B 250, 60B 350, 48B 250, 60B 450	1	68	58"	47
<b>ET RUGG</b>					
	PK212, 5049-E2, 5049-E4, 5069-E, 5088-E, 5089-E	1	12N24-4	U1MF	
	36K 250, 48B 350, 48B 450, 48K 450, 60B 350, 60B 450	1	68	58"	47
	42B 350Z, 48B 450Z, 32B 100, 32K 100, 36K 100, 36K 200, 36K 250, 48K 200	1	12N24-4	U1MF	
	48B 450WT, 52B 300, 48K 250WT, 48B 350WT, 52B350, 52B450, 52K200	1	12N24-4	U1MF	
<b>EXCEL</b>					
	2250, 2251, 2251K, 2260, 2262, 2500 Compact	1	12N24-4	U1MF	
	275, 285, 295, 305D, 320, 340, 400, 440, 4100 Series, 4500 Series, 4420 Hustler	1	NS70LX	NS70L"	

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>EXMARK</b>					
	Turf Tractor 22Hp Kohler, Commercial 60, Lazer Z, Turf Ranger, Turf Tracer Explorer, Turf Tracer Hydro	1	12N24-4	U1MF	
	Ferris Commercial 52, Criterion 320, Criterion 430, CTR	1	12N24-4	U1MF	
	Ferris G1418, G1818, G1820, H1618, H1818, H2020	1	12N24-4	U1MF	
	Ferris Pro Cut 19, 22, 32, 61, Pro Drive 72	1	12N24-4	U1MF	
	Ferris Hydro Walk Dual Drive 52	1	12N24-3	U1RMF	
	Ferris Hydro Walk Single & Dual Drive	1	12N24-4	U1MF	
<b>FLO-MOW MOWER COMPANY</b>					
	Jetx 2668	1	12N24-4	U1MF	
<b>FORD</b>					
	66, 70, 75, 80, 100, 120, 125, 145, 165	1	12N24-4	U1MF	
	LGT100, LT75, RMT66	1	12N24-4	U1MF	
<b>GENERAL APPLIANCE</b>					
	All Electric Start	1	12N24-4	U1MF	
<b>GILSON</b>					
	14, 14E, 14HE, 18E, 18HE, 11E, 11HE, 125.5, 16, 16E	1	12N24-4	U1MF	
	16HE, 8E, 11E, 12E, 53037	1	12N24-4	U1MF	
<b>GRASS HOPPER</b>					
	411, 616, 1200, 1212, 1600	1	12N24-4	U1MF	
	600, 900, 700 Series	1	12N24-4	U1MF	
<b>GRAVELY</b>					
	Promaster 300 Series	1	12N24-4	U1MF	
	Promaster 400 Series	1	NS70LX	NS70L"	
<b>GREAT DANE</b>					
	GDZ 52KH, GD51KH	1	12N24-4	U1MF	
<b>GREENFIELD</b>					
	Evolution 3, Evolution 2000, Fastcut, Minimow	1	12N24-3	U1RMF	
<b>HAHN</b>					
	126, 130, 132, 836	1	12N24-4	U1MF	
<b>HEILMAN ENTERPRISES</b>					
	220, 440, 550, 555	1	12N24-3	U1RMF	
	All other models	1	12N24-4	U1MF	
<b>HOMELITE DIV. TEXTRON</b>					
	180HIE63	1	12N24-4	U1MF	
	730-OLE	1	12N24-3	U1RMF	
	EH 4400, HL4400, LT1034, LT1242, LT1238G, LT1438G	1	12N24-4	U1MF	

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
T-8		1	12N24-3	U1RMF	
YT14, YT16, YT18		1	12N24-3	U1RMF	
<b>HONDA</b>					
3009, 3810, 3813, 4213, H4013, H4518, H7020		1	12N24-4	U1MF	
Harmony 1011, 2013		1	12N24-4	U1MF	
<b>HOWARD PRICE</b>					
360Z		1	12N24-4	U1MF	
All other riders		1	NS70X	NS70"	
Hydra Power 180, 1280 Rider		1	NS70X	NS70"	
Turf Blazer 530, 727		1	NS70X	NS70"	
Turf Blazer 48, 52		1	12N24-4	U1MF	
<b>HUFFMAN MFG. CO.</b>					
Huffy 32 Riders		1	12N24-4	U1MF	
<b>HUSQVARNA</b>					
970 Rider		1	12N24-3	U1RMF	
GT200, GTH200, GTH220, LR110, LR120, LR125		1	12N24-3	U1RMF	
LRH125, LT120, LT130, LTH120, LTH140, LTH145		1	12N24-3	U1RMF	
YTH150, YTH180, YT180, YT140		1	12N24-3	U1RMF	
<b>HUSTLER</b>					
2500 Rider, 251K, 260K Riders		1	12N24-3	U1RMF	
3000 Series		1	NS70LX	NS70L"	
320, 420, 362		1	NS70X	NS70"	
Excell		1	12N24-4	U1MF	
Short cut stand behind 1500		1	12N24-3	U1RMF	
<b>INGERSOL</b>					
2000 Series		1	12N24-4	U1MF	
210, 220, 224, 226		1	12N24-4	U1MF	
3000, 4000 Series		1	12N24-4	U1MF	
3010, 3012, 3014, 3018		1	12N24-4	U1MF	
4014, 4016, 4018, 4020		1	12N24-4	U1MF	
4116, 4118, 4120		1	12N24-4	U1MF	
444, 446, 448, 648, 108, 110, 111, 112		1	12N24-4	U1MF	
112B, 114, 114B, 116, 116B, 1212G, 1212H		1	12N24-4	U1MF	
1214, 2012, 2014, 808		1	12N24-4	U1MF	
6018, 6020BH, 5012, 5016, 5018, 5018CD, 5020V		1	12N24-4	U1MF	
5118D, 5318V, 5320V, 5720V, 5822K		1	12N24-3	U1RMF	

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>JC PENNY</b>					
	931-2703, 931-2737, 931-5730	1	12N24-4	U1MF	
<b>JL CASE</b>					
	108, 108XC, 110, 110XC, 116XC, 118, 210	1	12N24-4	U1MF	
	220, 222, 224, 226, 444, 446, 448	1	12N24-4	U1MF	
	644, 646, 648, 80, 80XC	1	12N24-4	U1MF	
<b>JOHN DEERE</b>					
	F1145	1	NS40ZLSX	NS40ZLS"	
	F510, F525	1	12N24-4	U1MF	
	F710, F725, F910, F911, F912, F915, F925, F930, F932, F935	1	68	58"	
	110 10Hp, 110-10Hp	1	68	58"	47
	110 8Hp, 110-8Hp	1	12N24-4	U1MF	
	111	1	12N24-4	U1MF	
	112 from 160001	1	68	58"	47
	112 to 16000, 1112L	1	12N24-4	U1MF	
	116	1	12N24-4	U1MF	
	120	1	68	58"	47
	130	1	12N24-4	U1MF	
	140	1	68	58"	47
	160, 165, 170, 175, 180, 185, 200, 208	1	12N24-4	U1MF	
	210, 212, 214, 216	1	68	58"	47
	240, 260	1	12N24-4	U1MF	
	265, 285, 300, 318, 312, 314, 316, 317, 320	1	68	58"	47
	322	1	12N24-4	U1MF	
	325, 345	1	NS40ZX	NS40Z	
	330, 332	1	12N24-4	U1MF	
	400	1	68	58"	47
	415	1	12N24-4	U1MF	
	420	1	68	58"	47
	425	1	12N24-4	U1MF	
	430	1	68	58"	47
	445	1	NS40ZLSX	NS40ZLS"	
	455, 60, 70, 100, 108	1	12N24-4	U1MF	
	GT242, GT262, GT275, LX172, LX176, LX186, LX188	1	12N24-4	U1MF	
	STX30, STX38, STX46	1	12N24-4	U1MF	
	50, 68	1	12N24-4	U1MF	





MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
	GX70, GX75, GX95	1	12N24-4	U1MF	
	R72, R92, S80, S82, S92, SRX75, SRX95, 32, 36, 48, 52	1	12N24-4	U1MF	
<b>KEES</b>					
	48, 60, ZT MAX RIDER	1	12N24-4	U1MF	
<b>KIOTI</b>					
	LB1914, LK2554, LK3054	1	NS70LX	NS70L"	
<b>KUBOTA</b>					
	B1700, B2100, B2400	1	NS70LX	NS70L"	
	B9200, B8200	1	NS40ZLX	NS40ZL"	
	1550, 1750, 2150, 4200, 5200, 6200, 7200	1	NS70X	NS70"	
	HST Series	1	NS70X	NS70"	
	G1800, G1800S, G1900S	1	NS40ZLX	NS40ZL"	
	G3200, G4200, G5200, G6200, G7200	1	12N24-4	U1MF	
	PX2100, T1400, T1700X, T1700HX, T1460, T1560, T1760	1	12N24-4	U1MF	
	GF1800 4WD, GF180E	1	NS40ZLX	NS40ZL"	
<b>LAWN BOY</b>					
	52138 12Hp, 52142 11Hp, 52149 Hydro 12Hp, 52161 Hydro 12.5Hp	1	12N24-4	U1MF	
	ES Series	1	12N24-3	U1RMF	
	LT11, LT12, LT12H	1	12N24-4	U1MF	
	52140 16Hp, 52153 12.5Hp, 52163 14Hp, 52164 16Hp	1	12N24-4	U1MF	
	YT16	1	12N24-4	U1MF	
	333, 335, 5802, 5803, 7258E, 7259E, 7260E, 8227E, 8228E, 8229E, 8223E	1	12N9-3A#	12N9-3A#	
	9303E, 9328E, 9328ES, 9365E, 9368E, 9368ES, 9369ES, 9329ES	1	12N24-4	U1MF	
	52144 8Hp, 52145 12Hp, RE 8E, 12E	1	12N24-4	U1MF	
<b>LESCO</b>					
	52, 52 ZTR	1	12N24-4	U1MF	
	LCR2200	1	NS70X	NS70"	
	Hydro 52', 30248, 30252, 24952	1	12N24-4	U1MF	
<b>MAGNUM</b>					
	All Models	1	12N24-4	U1MF	
<b>MASSEY FERGUSON</b>					
	MF1020, MF1030, MF1040, MF14, MF16, MF205, MF210, MF220	1	NS70X	NS70"	
	2512G, 2514G	1	12N24-4	U1MF	
	Hydrostatic Front cut 2316H	1	12N24-4	U1MF	
	2717H, 2718H, 2512H, 2616C, 2614H, 2615H, 2616H, 2490G, 2411G, 2412H, 2413H, 2414H, ZT14H, ZT16H	1	12N24-4	U1MF	

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>MAXIM</b>					
	All Models	1	12N24-4	U1MF	
<b>MITSUBISHI</b>					
	210, 250	1	NS70X	NS70"	
<b>MONTGOMERY</b>					
	1300, 1400 Series	1	12N24-4	U1MF	
<b>MORRIDGE</b>					
	1210, 1622, 1822	1	12N24-4	U1MF	
<b>MOWETT</b>					
	All Electric Start, 248E Mustang	1	12N24-4	U1MF	
<b>MTD PRODUCTS</b>					
	B560B, E451F, H661F, C695G, M660G, Q665H, S835H, L450C, L660F	1	12N24-4	U1MF	
	812, 852	1	12N24-4	U1MF	
<b>MURRAY OHIO MFG. CO.</b>					
	46379, 52370, 38500, 40530, 42560, 46560, 30545	1	12N24-4	U1MF	
	10Hp 30', 12Hp 38', 14.5Hp 42'	1	12N24-4	U1MF	
	16Hp 52', 46'	1	12N24-4	U1MF	
	14/40, 14/46, 18/42	1	12N24-4	U1MF	
	18Hp 46' LTX, 18.5Hp 46' GT, 18Hp 46'	1	12N24-4	U1MF	
	31515, 31704, 35560, 36502, 36506, 35500	1	12N24-4	U1MF	
	38204, 38205, 38206, 38211	1	12N24-3	U1RMF	
	36508, 36519, 36523, 36524, 36557, 36560, 40713, 3662	1	12N24-4	U1MF	
	3666, 3667, 3697, 4169, 4297	1	12N24-4	U1MF	
	38219, 39044, 40700, 40708	1	12N24-3	U1RMF	
	20705 X6, X92	1	12N24-4	U1MF	
<b>NOMA</b>					
	14.5Hp 40', 43'	1	12N24-4	U1MF	
	14450 Signature Premier, 14543 Signature	1	12N24-4	U1MF	
	15Hp 43', 16Hp 43'	1	12N24-4	U1MF	
	1643P, 1846P, 2046P	1	12N24-4	U1MF	
	Automatic Drive 19Hp 46', Command 18Hp 43'	1	12N24-4	U1MF	
	GT1-1646, GTX-1846, LT-1239, LT1240, LX1240, LX1340, LX1440, LX1646	1	12N24-4	U1MF	
<b>POLOREN PRODUCTS</b>					
	6502M, 6503M, 6504M	1	12N24-3	U1RMF	
	8900, 9900 Series	1	12N24-4	U1MF	

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>POULAN</b>					
	1388, 14542, 2050, 155H42, 22H50, 16H42	1	12N24-3	U1RMF	
	EXG1182V, PP11536, PP125H38, 14H42, 1844, PP14542, PP15H42, PP1844, PP2050	1	12N24-4	U1MF	
	XEG1182H, XEL1122, XEY1142	1	12N24-4	U1MF	
<b>POWER KING</b>					
	1218HV, 1618GV, 1620HV, UT620HV	1	12N24-3	U1RMF	
	1212, 1214, 1220HV	1	12N24-4	U1MF	
	1620GV, HV, UT622HV	1	68	58"	47
<b>RALLY</b>					
	10, 11, 12, 14, 18Hp	1	12N24-4	U1MF	
	1036, 1238, 1438	1	12N24-3	U1RMF	
	A6 Hp	1	12N24-4	U1MF	
	GT250	1	12N24-3	U1RMF	
	RL18-44, RL 1844, RL1844	1	12N24-3	U1RMF	
<b>RANSOMES</b>					
	951D	1	NS70X	NS70"	
	Cushman Groom Master	1	NS70LX	NS70L"	
	T-16K, T-1861, T3100 Rider	1	12N24-4	U1MF	
	ZT200 Bob Cat	1	12N24-4	U1MF	
<b>RICH</b>					
	WR-1700, WR-2000, WR-2500	1	12N24-4	U1MF	
<b>ROOF</b>					
	38-N8-E, 38N8E, 830-E	1	12N24-3	U1RMF	
	493081, 492683, 93071	1	12N24-4	U1MF	
	30-N7-3, 30N73	1	12N24-3	U1RMF	
<b>ROPER</b>					
	22, 63, 322, 323, 622, 632, 633, 822, 863	1	12N24-4	U1MF	
<b>ROVER</b>					
	Ranger Auto Drive 53179/160, Raider Selector Drive 04083/180	1	12N18-3#	12N18-3#	
	Rancher 13Hp Selector Drive, Auto Drive, Hydrostatic Drive	1	12N18-3#	12N18-3#	
	Rancher 15.5Hp Selector Drive, Auto Drive, Hydrostatic Drive	1	12N18-3#	12N18-3#	
	Rancher Auto Drive 18Hp	1	12N18-3#	12N18-3#	
	Lawn King 16Hp (Honda GVC530 - V-Twin)	1	12N24-3	U1RMF	
	Lawn King 18Hp B&S 14.9KW	1	12N24-3	U1RMF	
<b>SABRE</b>					
	1538	1	12N24-4	U1MF	

MAKE/TYPE	MODEL	QTY	HIGHLY RECOMMENDED	RECOMMENDED	SUITABLE
<b>SCAG POWER EQUIPMENT</b>					
	ST, STG Series	1	12N24-4	U1MF	
	STH-13KA, STH13KH, STH-14BV, STH-14KH, STH-18KH, STH-20KH	1	12N24-4	U1MF	
	STHM-18KM, STHM-20KH, STZ52-50KH, SW-18KHE, SW-20KHE, SWZ-20KHE	1	12N24-4	U1MF	
<b>SEARS</b>					
	131.9627, 131.969310, 131.96941, 131.96970	1	12N9-3A#	12N9-3A#	
	536.250820, 536.250823, 536.250870, 536.250920, 536.250922	1	12N9-3A#	12N9-3A#	
	536.255110, 536.255112, 536.255113, 536.255212,	1	12N9-3A#	12N9-3A#	
	536.255220, 536.255221, 536.255230, 536.255232, 536.255240,	1	12N9-3A#	12N9-3A#	
	536.255250, 536.657020, 536.657040, 536.657060, 536.657080, 536.658080, 536.963100	1	12N9-3A#	12N9-3A#	
	917.250740, 917.255120, 917.255121, 917.259180, 917.259320	1	12N9-3A#	12N9-3A#	
<b>SIMPLICITY</b>					
	Broadmoor 15G, 15H, 16H, 14H, 14HV	1	12N24-4	U1MF	
	Landlord 14G, 16G, 16H, 17H, 18H	1	12N24-4	U1MF	
	Sun Star 18H, 20H	1	68	58"	47
	12FCH, 16CFC, 16GTH, 3105, 3108, 3110, 4080	1	12N24-4	U1MF	
	4111, 4208, 4211, 4212, 5008, 5211, 5212, 5216, 6008, 6011, 6211, 6216	1	12N24-4	U1MF	
	7790	1	NS70X	NS70"	
	990780	1	12N24-4	U1MF	
	Coronet 9G, 11G, 12G	1	12N24-4	U1MF	
	Hydrostatic Front Cuts	1	68	58"	47
	Front cut 16H, ZT14H, ZT16H	1	12N24-4	U1MF	
	Coronet 12H, 13H, 14H	1	12N24-4	U1MF	
<b>SNAPPER</b>					
	All Models Lawn & Garden Tractors	1	12N24-3	U1RMF	
<b>SPEEDEX</b>					
	1240, 1240m, 1320, 1330, 1640, 1640M, 1722, 1732, 1822	1	12N24-4	U1MF	
	S17, S18, S19, 820, 840, 1020, 1030	1	12N24-4	U1MF	
<b>SPIRIT</b>					
	1650Hp, 1850Hp, 1860Hp, 1136q, 1236q, 1442q, 1650q	1	12N24-3	U1RMF	
	Lawn Pro 14H, 16H, 18H, 20H	1	12N24-4	U1MF	
	Lawn Sport 14LS, 16LS, 18LS	1	12N24-4	U1MF	





- ✓ Superior Starting Power
- ✓ Reliable Performance
- ✓ Longer Life
- ✓ 12 Month Nationwide Warranty\*

Suitable for ride-on mowers, jet skis, generators and some small cars.

Manufactured to the highest standards using the latest engineering expertise, Century EverRide batteries incorporate advanced design features and robust internal components to deliver reliable starting power.

Specialist durable battery plates reduce gassing, water-loss and self discharge to enhance battery life and provide resistance from vibration, corrosion and over-heating.



### EVERRIDE U1 MAINTENANCE FREE SERIES

- Calcium / Calcium technology for improved starting power & lower self discharge
- Robust internal components to withstand damage from corrosion and vibration
- Spill proof Maintenance Free design
- Protection against contamination from dirt, dust, grass and salt water



### EVERRIDE 12N-24 MAINTAINABLE SERIES

- Reduced self discharge and longer battery life
- Engineered to protect against acid seepage, corrosion and vibration damage
- Specialist separators for high cranking power
- Maintainable design to maximise battery life



Original equipment battery



Century's EverRide batteries are the latest in small engine starting technology, built tough for Australia's extreme climate and harsh conditions.

Available as a Maintenance Free or Low Maintenance design, EverRide batteries are backed by a 12 month nationwide warranty\* and supported by Century's extensive sales and distribution network.

PRODUCT ID	BATTERY TYPE	WARRANTY (MONTHS)*	V	CCA	RC	DIMENSIONS (MM)				TERMINAL TYPE	LAYOUT
						LENGTH	WIDTH	HEIGHT	TOTAL HEIGHT		
160102	U1MF	12	12	300	45	190	125	155	182	LUG	L/Hand Positive
160103	U1RMF	12	12	300	45	190	125	155	182	LUG	R/Hand Positive
160101	12N24-4	12	12	240	35	185	125	160	180	STD	L/Hand Positive
160100	12N24-3	12	12	240	35	185	125	160	180	STD	R/Hand Positive

# Marine Pro

Made for boats **JUST BOATS**

Century Marine Pro batteries offer the ultimate in battery performance, specially designed to deliver reliable starting power and extra reserve capacity to run accessories whilst out on the water.

## UNDERSTANDING THE POWER YOU NEED.

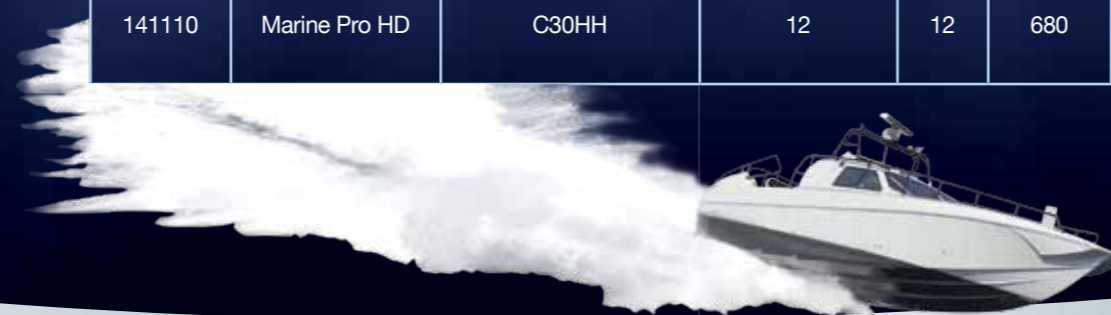
Century is a proud sponsor and advocate of National Maritime Safety Organisations. Together we have very real concerns regarding the growing number of maritime breakdown emergencies caused by using insufficiently powered batteries - or even car batteries. Unlike automotive batteries which are usually charged by the alternator whilst the engine is running, marine batteries are not only required to provide sufficient starting power for high compression engines but also deliver power for on-board accessories even when the boat engine is switched off and the battery is being drained.

## AVOID BECOMING A MARITIME STATISTIC!

Understand the requirements of your on-board accessories to ensure you have sufficient power to start your engine and get safely back to shore. Refer to the table as a guide for determining the best battery for your needs:

PRODUCT ID	BATTERY DESCRIPTION	BATTERY Type	Warranty Months <sup>^</sup>	Volts	CCA @ -18°C	MCA	RC @ 25°C	Ah	Nominal Overall Dimensions (Mm)				Polarity	Terminal Type	APPLICATION
									L	W	Ht	TH			
131110	Marine Pro 580	D23RM	24	12	580	695	105	65*	231	171	202	225	D	STD/WN	Starts up to 45hp + Basic Electrics
131109	Marine Pro 620	NS70M	24	12	620	744	155	80	260	171	202	225	D	STD/WN	Starts up to 115hp + Basic Electrics
135101	Marine Pro MF	NS70MMF	24	12	500	600	86	50*	260	174	205	225	D	STD/WN	Starts up to 115hp + Basic Electrics
135100	Marine Pro MF	N70ZMMF	24	12	640	768	110	65*	302	171	200	225	D	STD/WN	Starts up to 350hp + Basic Electrics
131108	Marine Pro 730	N70ZM	24	12	730	875	180	100	306	171	202	225	D	STD/WN	Starts up to 350hp + Basic Electrics + 2 Optional Electrics
131107	Marine Pro Cruiser	N150M	12	12	950	1140	300	#	528	214	224	246	F	STD	Starts 350hp+ subject to manufacturers specification
131106	Marine Pro Cruiser	N200M	12	12	1200	1440	430	#	528	277	224	246	F	STD	Starts 350hp+ subject to manufacturers specification
141110	Marine Pro HD	C30HH	12	12	680	816	200	110	330	173	216	240	D	STD/WN	Starts 350hp + subject to manufacturers specification

\* Not recommended for deep cycling applications. # Dedicated Deep Cycle battery & dual battery system recommended in larger marine craft.  
<sup>^</sup>For privately owned marine vessels. Conditions apply. Refer to individual warranty statement affixed to each battery.



Marine Pro Range

Marine Pro Range



### Marine Pro 730

The ultimate marine battery, the Marine Pro 730 is perfectly adapted to life on the water. A dual-purpose battery designed to provide starting power up to 350HP and the cycling capability to run on-board accessories. Built using Platelock™ technology to combat wave pounding and engine vibration, with extra thick battery plates and active material for extra starting power and reserve capacity.



### Marine Pro Cruiser

Low maintenance, heavy duty starting batteries designed for use in larger marine craft. The Marine Pro Cruiser range features stronger internal components, specialist separators and thicker plates to withstand vibration and provide reliable performance in extreme operating conditions.



### Marine Pro 620

Perfect for boats with engines up to 115HP, the Marine Pro 620 has sufficient reserve capacity to operate basic electrics and incorporates Platelock™ technology to combat the effects of wave pounding and engine vibration.



### Marine Pro 580

Ideal for smaller trailer boats with engines up to 45HP, the Marine Pro 580 has the capacity to operate basic electrics and incorporates Century's exclusive Platelock™ technology to combat wave pounding and engine vibration.



### Marine Pro HD

The ultimate performance for heavy duty marine applications. Incorporating some of the toughest internal components in the industry, the Marine Pro HD provides starting and cycling power for both industrial and recreational vessels.



### Marine Pro MF

A range of sealed, maintenance free batteries designed to provide reliable starting power for high compression engines up to 350HP, and sufficient reserve capacity for running basic marine electrics.

# Deep Cycle BATTERIES



## Century Deep Cycle Batteries

Century's range of Deep Cycle batteries is one of the most comprehensive selections of products available. Manufactured using the toughest internal lead components and the latest design features, Century Deep Cycle Batteries deliver long lasting dependable power.

The range includes low maintenance and maintenance free batteries, built for Australia's harsh environment and tough operating conditions. They are designed to provide superior deep cycling performance in a diverse range of recreational and industrial applications, including:



- 4WD's
- Marine systems
- Recreational Vehicles
- Dual Battery systems
- Golf carts
- Aerial work platforms
- Wheel chairs
- Industrial equipment
- Mobility Scooters
- Scrubbers and Sweepers

## Choosing the right size battery?

The size and type of deep cycle battery you need is dependant on the applications and conditions of use. It is important to ensure there is sufficient battery capacity (Amp Hours) to power the equipment being used.

Use the following guide to help determine the right size battery for your needs:

1. Add the Power Consumption (Watts) of each item of equipment being used = Total Watts.
2. Calculate the estimated time of use in hours = Total Hours.
3. Calculate Power Consumption by multiplying Total Watts x Total Hours = Watt Hours.
4. Add 30% safety net = Watt Hours x 1.3
5. Convert Power Consumption into Ah to 80% depth of discharge  

$$\text{Capacity (Ah)} = \frac{\text{Power Consumption (Wh)}}{\text{Total Battery Voltage} \times 0.8}$$
6. Refer to Deep Cycle product tables (pages 11-12) to select a suitably rated battery for your application.

### Example

- 1&2 Calculate Power Consumption & Time of Use
  - Refrigerator, 40W for 10 hours = (40 x 10) = 400Wh
  - Lights, 20W for 4 hours = (20 x 4) = 80Wh
  - Winch, 90W for 0.2 hours = (90 x 0.2) = 18Wh
- 3 Total Power Consumption = (400+80+18) = **498Wh**
- 4 30% Safety Net  
 Power Consumption (Wh) = (498 x 1.3) = **648W**
- 5 Convert power consumption to Battery Ah (80% of discharge)  

$$\text{Capacity (Ah)} = \frac{648}{(12 \times 0.8)} = \mathbf{68Ah}$$
- 6 Choose a deep cycle battery with at least 68Ah



\*Warranty void if mounted under bonnet.

## Deep Cycle AGM Batteries

Century Deep Cycle AGM batteries are the ultimate in deep cycle technology and performance. Featuring AGM (Absorbed Glass Mat) technology, which acts as a sponge to suspend loose electrolyte within highly porous glass fibre mat separators. This eliminates the hazards associated with acid spills or leaks, whilst the sealed maintenance-free design avoids the need to regularly top up electrolyte levels.

Century Deep Cycle AGM batteries have low internal resistance and low self discharge rates, enabling faster recharge and longer shelf life. When fully charged, they are robust enough to be stored for extended periods of time and can be conveniently recharged using a range of standard chargers and vehicle alternators. Century Deep Cycle AGM batteries are ideal for use in applications where fast recharge, improved vibration resistance and superior deep cycle performance is required.



\*Warranty void if mounted under bonnet.

## Deep Cycle Gel Batteries

Century Deep Cycle Gel batteries utilise gel electrolyte technology, which holds the battery plates securely in an immobilised gel, making them extremely robust and resistant to vibration damage and spillage if accidentally tipped upside down. The range is completely maintenance-free, requiring no topping up of liquid electrolyte, whilst the valve regulated sealed design enables installation in hard to reach locations.



## Deep Cycle Industrial Batteries

Manufactured from some of the toughest internal lead components and materials available, Century Deep Cycle Industrial batteries have the strength and durability needed to provide tough, dependable, long lasting power in heavy duty and industrial applications.

The range features thicker, heavier battery plates, heavy cast on connector straps and high density lead oxide paste to provide superior current flow, exceptional vibration resistance and longer cycle life in industrial applications.



## Deep Cycle Flooded Batteries

Century Deep Cycle Flooded batteries are constructed using thicker plates, specialist antimonial lead alloys and denser active material to withstand repeated recharge and discharge cycles. The maintainable design enables easy access and topping up of electrolyte levels for maximum control over battery life, whilst premium grade raw materials and acid electrolyte ensures reliable deep cycling performance in a diverse range of recreational and commercial applications.

# Battery Health and Safety<sup>#</sup>



## BATTERY ACID

Battery acid can cause burns. PVC or other suitable hand, eye and face protection and protective clothing must be worn.

## FIRST AID

For advice, contact the poisons information centre (phone 13 11 26 in Australia) or a doctor immediately. If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by poisons information centre or doctor, or at least 15 minutes. If skin or hair contact occurs, remove contaminated clothing and flush skin or hair with running water.

## ACID SPILL RESPONSE

Bund and neutralise spills with soda ash or other suitable alkali. Dispose of residue as chemical waste or as per local requirements.

## IF ELECTROLYTE IS SWALLOWED

Do NOT induce vomiting – give a glass of water. Seek immediate medical assistance.

## EXPLODING BATTERY

Batteries generate explosive gases during vehicle operation and when charged separately. Flames, sparks, burning cigarettes or other ignition sources must be kept away at all times. Exercise caution when working with metallic tools or conductors to prevent short circuits and sparks.

## ALWAYS SHIELD EYES WHEN WORKING NEAR BATTERIES

When charging batteries, work in a well ventilated area - never in a closed room. Always turn battery charger or ignition off\* before disconnecting a battery.

<sup>#</sup> As extracted and interpreted by product manufacturer from the Battery Council International Service Manual, Chapter 2, July 2009.  
\* In some vehicles, ignition may be required to be placed in accessory mode where electronic memory minder is present.



# Battery Care and Maintenance<sup>^</sup>

Regular testing and inspection will help to maximise battery life. A routine inspection at least once a month is recommended to maintain optimum performance.

Use the following as a guide when examining your battery:

1. Ensure the battery top is clean and dry, free of dirt and grime. A dirty battery can discharge across the grime on top of the battery casing.
2. Inspect the terminals, screws, clamps and cables for breakage, damage or loose connections. These should be clean, tight and free of corrosion.
3. Apply a thin coating of high temperature grease to posts and cable connections for added protection.
4. Inspect the battery case for obvious signs of physical damage or warpage. This usually indicates the battery has overheated or has been overcharged.
5. Check electrolyte levels to ensure that fluid levels are over the top of battery plates. If necessary top up using distilled or demineralised water. Never top up fluid levels with acid.
6. Test the battery using either a hydrometer or voltmeter and charge if necessary.

If you are unsure about the condition or state of charge of the battery, take it to your local Century battery reseller. They can inspect and test your battery and provide you with professional advice and assistance.

<sup>^</sup> Always follow manufacturers guidelines

# Battery Testing and Charging

## BATTERY TESTING

Battery testing should form part of a regular maintenance routine. Pre-emptive battery replacement can help eliminate many of the costs and problems associated with a flat battery.

## VOLTAGE AND SPECIFIC GRAVITY

Voltage (V) and Specific Gravity are measurements used to determine a battery's state of charge. Voltage is a quick and easy way of measuring charge levels and is measured by connecting either a multi-meter or voltmeter and obtaining a DC reading. Always connect the multi-meter parallel to the circuit being tested, observing polarity; otherwise the result will be negative.

Hydrometers measure the Specific Gravity of the electrolyte and indicate the density of electrolyte compared to water. As this requires access to acid reservoirs, it is only suitable for use with maintainable batteries.

## TESTING METHODS

### Unloaded Testing

This is performed using either device, when there is no current draw on the battery.

*A specific gravity reading of 1.275 to 1.290 shows a full charge whereas a reading below 1.240 indicates that the battery should be recharged. If the stabilised open circuit voltage is below 12.55V, this also indicates recharging is required.*

### Low Load Testing

This is conducted using a multi-meter or volt meter whilst running an accessory, such as the headlights, and taking a voltage reading.

*The battery in a 12V system should have at least 11.5V DC with the lights on. If the voltage drops below this level, the battery needs charging.*

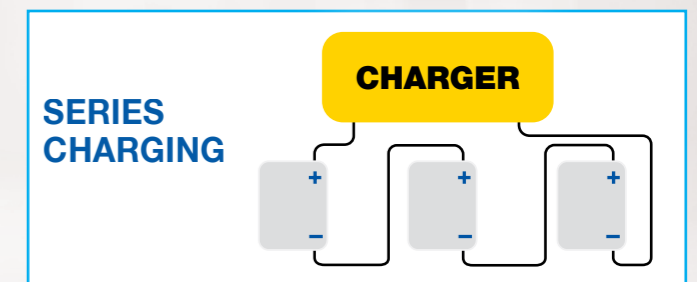
## BATTERY CHARGING

Always read the manufacturer's instructions before attempting to charge a battery and ensure you have a good quality Australian approved battery charger. The battery type and its internal components will determine which type of charger is required.

## APPROXIMATE CHARGE TIMES\* ULTRA HI PERFORMANCE BATTERIES

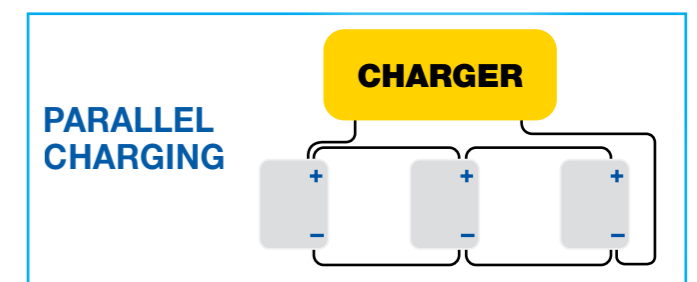
% STATE OF CHARGE	OPEN CIRCUIT VOLTAGE	50RC (HRS)	100RC (HRS)	150RC (HRS)	200RC (HRS)
100%	12.7	N/A	N/A	N/A	N/A
75%	12.45	2.3	3.9	2.7	3.4
50%	12.25	4.2	7.0	4.8	6.1
25%	12.05	6.3	10.5	7.2	9.2
Discharged	11.9	8.4	14.0	9.6	12.2

\*Assumes charging Less than 100 RC using a standard domestic 5A charger  
More than 100 RC using a standard domestic 10A charger



Be aware of all the safety precautions that should be observed during the charging operation before attempting to charge a battery.

1. Turn the charger off before attaching, rocking or removing the terminal clamps.
2. Keep open flames and sparks away from the battery.
3. Keep vent caps in place.
4. Charge in well ventilated area.
5. Follow the battery charger manufacturer's instructions to avoid overheating.



Specific charging rates or times are difficult to detail due to a number of other features, such as:

1. The electrical capacity of the battery.
2. Temperature of the electrolyte.
3. Battery state of charge at the start of the charging period.
4. Battery age and condition.

### Important Note:

Avoid quick charging as this only charges the surface of the battery plates and can increase the chance of overheating, leading to permanent battery damage.

# Understanding Battery Failure

Battery failure can be the result of numerous factors and it is important to identify the reason behind the battery failure, as replacing the battery may only solve the symptom and not the problem.

## HISTORY IS IMPORTANT

Here are three common examples of battery failure and the reasons behind the failure:

**“ I drove home last night and it would not start this morning ”**

Often indicates dirty terminals due to corrosion, or that some electrical power has been running over night. It can also mean battery failure.

**“ The car cranked, but would not start ”**

Usually indicates a fuel or ignition problem.

**“ My battery is using a lot of water ”**

Is an indication of a voltage regulator problem or old age of the battery.

## IS BATTERY REPLACEMENT NECESSARY?

A percentage of batteries, allegedly faulty, are merely “flat” or discharged. The battery (and sometimes the vehicle’s electrical system) need to be checked - refer to **pages 112 and 113**.

## EARLY WARNING SIGNS

Batteries often fail when least expected. The usual warning is a slower than normal battery ability to crank the engine. Other less noticeable factors, such as changed driving patterns and colder/hotter weather will all have an effect on the life of a battery. Encourage your customers to ask for a ‘FREE Battery Test’. It’s good public relations and if the battery is near failure, it may avoid the inconvenience of a roadside breakdown.



## FACTORS AFFECTING BATTERY LIFE

As batteries age they gradually lose their capacity as their function is performed. The constant charge and discharge eventually leads to failure.

Components corrode over time, electrical shorts occur and vibration causes damage; all eventually causing failure. Overcharging and undercharging of a battery will also have a bearing on battery life.

## BATTERY INSPECTION

Check electrolyte level - fluid below the tops of the separators indicates overcharging or poor maintenance. Overcharge condition may be due to incorrect voltage setting, low voltage caused by heat or internal defects, or old age deterioration.

### Is there electrolyte on the top of the battery?

This can indicate overcharging or over filling.

### Is the battery loose in the carrier?

This can cause failure from vibration.

### Has the battery signs of damage or mistreatment?

This can also cause failure.

## DISCHARGED (FLAT) BATTERIES

A flat battery should be checked with a hydrometer. A low Specific Gravity reading of 1.220 or less in all cells indicates a discharged battery and it must be charged before further examination and testing can occur.



The discharged condition may be due to a problem in the electrical system (slipping alternator belt, faulty regulator or alternator, high resistance due to corrosion). Internal shorts may also be due to manufacturing defects or shorts through the ageing process or vibration damage.

## BATTERY CHARGE CODES

In the absence of a valid purchase receipt, an assesment of the batteries age can be concluded by checking the charge code\*. This code is a combination of letters and numbers located on the top of the battery lid.

### Battery date code explained:

### Charge Date Codes

1st Digit	=	Shift (D = Day, A = Afternoon, N = Night)
2nd Digit	=	Day of Month
3rd Digit	=	Month A to M (January to December)
4th Digit	=	Year A to K (A = 2007, B=2008 etc)

### Example

D	5	F	A
DAY SHIFT	5th Day	June A to M Jan to Dec	2007

\*Applies only to Century Yuasa Batteries that are made in Australia.

## TECHNICAL TIPS

- ✓ Vibration can reduce a battery’s life. Century batteries are built tough, using robust internal components to resist damage through abrasion and puncture from vehicle vibration.
- ✓ Many alleged ‘dead batteries’ are merely flat batteries. Drivers simply leave lights on or can have faulty voltage regulators. Make sure you follow the steps on page 113 before replacing a battery.
- ✓ It’s impossible to know exactly when a battery might fail. A slow starting engine is sometimes an indication.
- ✓ Old batteries can give trouble in colder weather. Equally, if an engine area becomes overheated in very hot weather and the battery is under strain from air conditioners it may fail.
- ✓ Regular battery checks are always advised.



# Century Batteries - *Quality guaranteed*

Century batteries are manufactured using processes conforming to TS16949 - the nation's leading Automotive Manufacturing quality assurance accreditation.



## WHY DO BATTERIES FAIL?

Batteries have a finite life, determined by the application and the operating conditions. Battery failure can be attributed to various factors, however the causes of failure fall under two distinct categories: manufacturing and non-manufacturing faults.

### MANUFACTURING FAULTS

Typically occur within the first 3 months

#### Short Circuits/Dead Cells

Where one cell will show a dramatically lower Specific Gravity (SG) reading than the other cells.

#### Internal Break

Usually resulting from physical damage to a battery during transportation.

Century's stringent quality assurance and inspection processes demanded by leading vehicle manufacturers ensures genuine manufacturing faults in Century Batteries are negligible.

### NON MANUFACTURING FAULTS

These fall outside of Century's strict quality control systems and are more likely to occur the longer the battery is in service. They are often attributed to a problem with the vehicle's electrical system, its operation or the battery application.

#### Wear and Tear

As a battery ages, grid metal corrodes and active material is lost from the plate. Over time this leads to a point where the battery will no longer be able to start a vehicle. High temperature will accelerate the degradation rates.

#### Physical Damage

Incorrect fitment, handling and storage often leads to external damage and subsequent battery failure.

#### Incorrect Application

Fitting a smaller, less powerful battery or a battery designed for another application can lead to early failure.

#### Negligence

Failure to maintain fluid levels exposes internal components and accelerates battery failure.

#### Sulphation

Occurs when the battery is allowed to stand in a discharged state for an extended period of time.

#### Over-Charging

Often caused if the alternator is incorrectly set or the alternator voltage control fails.

#### Under-Charging

Short journeys, stop start driving or faulty alternators will not fully recharge a battery.

#### Discharge

Lights or other accessories left on for extended periods.

## A GUIDE TO HANDLING WARRANTY BATTERY CLAIMS



### 1 - QUALIFY

- Is it within the warranty period?  Yes  No (*reject claim*)
- Does the customer have proof of purchase?  Yes  No (*reject claim*)
- Has the battery been used in the correct application?  Yes  No (*reject claim*)
- Are there signs of physical damage?  No  Yes (*reject claim*)

### 2 - QUANTIFY

- Check fluid levels Should be above the battery plates
- Check the SG level < 1.240 indicates recharge required
- Check voltage Low Load Test (with lights on) = <11.5V indicates flat battery - **recharge**  
Unloaded Test = <12.55V indicates low state of charge - **recharge the battery**
- Test using a Century supplied battery tester following the instructions and responses\*

### 3 - SATISFY

- If not a valid claim advise the customer why the claim has failed. It is good customer service and helps build relations
- A replacement battery may only correct the symptom and not the cause
- Provide evidence of the warranty adjudication process results- engage the customer
- If warranty claim is valid issue a replacement battery and encourage regular battery testing
- Retain warranty battery for your Century Batteries Representative to assess

## PEACE OF MIND

Each Century Battery is supplied with a warranty against defects for the period and application, as detailed on each battery. Call 1300 361 161 for your nearest warranty claim location. Proof of purchase is required. For valid claims, Century Yuasa will replace the product free of charge. The warranty excludes defects from after sale damage, neglect, abuse or incorrect installation. You bear all transportation costs to and from the warranty claim location. The benefits of this warranty are in addition to any other rights and remedies available at law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. **Century Yuasa Batteries Pty Limited, 37-65 Cobalt Street, Carole Park 4300, 1300 362 287.**

### This warranty does not cover

- |                        |                                     |  |
|------------------------|-------------------------------------|--|
| • Normal wear and tear | • Incorrect application             | • Overcharging   |
| • Physical Damage      | • Negligence (before or during use) | • Failure arising from the addition of fluids other than water |
| • Sulphation           |                                     |  |

#### \*Using Electronic battery Testers

There are a diverse range of electronic battery testers available and whilst all will give a test result, they should not be used as a definitive answer to determine whether a battery is faulty. Different makes and models of tester may give a different result based on their calibration and as such should form one component of the battery test procedure.

## New Battery Installation

Make sure the engine, lights and any accessories are turned off before removing old battery. Check if the vehicle has a computerised electrical system. Vehicles with on-board computer systems require an alternative power source to maintain electronic memory when the battery is disconnected.

Disconnection of the battery on such a vehicle without a memory minder, may cause damage to the main computer or other segments of the vehicle's electronically controlled equipment.

### REMOVAL OF OLD BATTERY

1. Note location of positive terminal and mark polarity on positive cable.
2. Remove the ground (-) terminal first.  
This precaution is necessary to avoid damage to wiring and the battery by accidentally grounding tools.
3. Remove the second (+) terminal.
4. Undo hold down clamp and remove battery.

### SAFETY PRECAUTIONS FOR VEHICLES FITTED WITH AIR BAGS

Removal or replacement of battery connections will not unintentionally trigger an air bag system. However removal of battery connections with the ignition remaining "ON" can cause damage to electronic components including the airbag system - always check to ensure the ignition is "OFF" before removing either of the battery terminals.

Before carrying out any work on the electrical system beyond the battery, the air bag system must be electrically disabled. Never indiscriminately probe the electrical wiring/connectors in the vicinity of the steering column.

The wiring and harness connectors of most air bag systems are bright yellow; do not interfere with any harness of this colour. As an added safety measure it is recommended that no person should remain seated behind the steering wheel while any electrical service work is carried out on the vehicle.

### NEW BATTERY INSTALLATION

1. Check battery height to ensure there is sufficient bonnet clearance.
2. Inspect tray and area for corrosion.  
If necessary, scrub the area with a water and baking soda mix and rinse with water.
3. Corroded steel parts should be dried and painted with acid proof paint. Terminals should be cleaned and brushed.
4. Cable and starter motor connections should be checked and tightened if necessary.
5. If terminal clamps or cables are badly corroded, they should be replaced.
6. Place the new battery in the tray, ensuring it sits level and that terminal posts are positioned same as the battery.
7. Place and tighten the hold downs securely so that the battery cannot move in the tray.
8. Apply a thin coating of battery terminal protection spray to the posts and cable connections.
9. Replace cables, ensuring positive cable is first followed by the negative. Tighten connections.  
Note: Do not over tighten.
10. Never hammer cable connections onto battery posts, as this can damage the battery posts and cover.



# Fax Feedback Form

**Fax to: (07) 3361 6166**

Help us keep the information in future selection guides as current as possible. If you find a discrepancy, have a suggestion or a new model listing, please photocopy this page, complete the details and fax back to the number above. Alternatively email us at [info@cyb.com.au](mailto:info@cyb.com.au).

Notes:

### NEW MODEL LISTING

MANUFACTURER	MODEL	TYPE	YEAR	BATTERY COMMENT

### CURRENT LISTING AMENDMENT

PAGE NO.	MANUFACTURER	MODEL	TYPE	YEAR	BATTERY COMMENT



For more information on the Century range of products and services, contact your nearest Century Sales office on **1300 362 287** or visit **[www.centurybatteries.com.au](http://www.centurybatteries.com.au)**



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**Queensland**

37-65 Cobalt Street  
Carole Park QLD 4300  
FAX: 07 3361 6705

**New South Wales**

17 Shale Place  
Eastern Creek,  
NSW 2766  
FAX: 02 9754 9213

**Victoria**

42-46 Dunlop Road  
Mulgrave, VIC 3170  
FAX: 03 8541 4406

**South Australia**

106-110 Hayward Avenue  
Torrensville, SA 5031  
FAX: 08 8447 0808

**Western Australia**

163 Abernethy Road  
Belmont, WA 6984  
FAX: 08 9475 8905

**Tasmania**

Unit 3, 9 Farley Street  
Derwent Park  
Hobart, TAS 7009  
FAX: 03 6272 2519

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