



**BOSCH**

Invented for life

# Driven by **RELIABILITY**

**Bosch Batteries**

Catalogue 2018



# BOSCH

Invented for life

The Bosch Group is a leading global supplier of technology and services. Bosch operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. In your car, at home, or at work – Bosch technology shapes many areas of life.

### Invented for Life

Our slogan “invented for life” conveys the ambitious standards we have set ourselves and the values that we have long stood for. “Invented for life” stands for reliable technology designed and built to last. At the same time it embodies innovations and technology that spark our customers’ enthusiasm, improve quality of life, and help conserve resources.

### “We are Bosch” – our mission statement

As company founder Robert Bosch once said: “In the long term, an honest and fair approach to doing business will be the most profitable.” This statement continues to influence the way we do business today.

### The Robert Bosch Stiftung (Robert Bosch Foundation)

In 1964, The Robert Bosch Foundation was established to keep alive the social endeavours of its founder Robert Bosch. The foundation has since issued 1.4 billion euros in grants.

### Sustainability

Responsibility for the environment is a core value at Bosch and is firmly anchored in our principles for safety and protection. We consider addressing ecological issues an engine of innovation.

## Did you know?

Bosch has approximately  
**450 subsidiaries**  
and regional companies in over  
**60 countries**  
worldwide.

**402,166 Employees**  
Globally.

## Bosch were voted “Best Brand 2017”

by the readers of the German car magazine “auto motor und sport” in the following six categories:

- ▶ Batteries
- ▶ Filters
- ▶ Spark Plugs
- ▶ Wiper Blades
- ▶ Tools
- ▶ Workshop chains worldwide.



\*Product images are for illustration purposes only. Actual image may vary in appearance.

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## A2 Bosch: Battery Experts since 1922

For Bosch, every battery is a technological milestone



More than  
95 Years  
of Bosch  
Batteries

► Production of batteries for motorcycles starts in Stuttgart, Feuerbach

1922

► Launch of 12V battery with a built-in charge indicator

1927

► Production of batteries for passenger cars

1960

► Introduction of low-maintenance batteries for passenger vehicles

1970

Today Bosch battery product range includes a comprehensive selection of technologically innovative products, suited to a variety of applications (see below).



Passenger Vehicles



Trucks & Buses



Deep Cycle and Reserve Power



Light Commercial Vehicles



Heavy Equipment



Lawn & Garden Equipment



4X4 & SUVs



Marine

- ▶ Introduction of 100% maintenance-free batteries\*
- ▶ Beginning of lead-calcium technology

- ▶ Bosch designed the new 48 volt battery (48V) with the purpose to cut CO<sub>2</sub> emissions. A 48V hybrid can considerably cut fuel consumption through the use of a boost recuperation system (BRS). Here's how it works: A conventional car loses energy whenever the driver brakes. The BRS stores this braking energy in a 48V battery and applies it later when the driver accelerates (electronic boost). This results in lower fuel consumption and produces less CO<sub>2</sub>.

1980

1990-2013

2017

- ▶ Launch of new batteries with labyrinth lid, stamped grid and AGM technology
- ▶ ST Hightec AGM and EFB batteries revolutionize the fast-growing battery market to meet customer demands



\*according to DIN V43539

# A4 Driven by Reliability

## The Bosch Distinction



### When Quality and Performance Matters

“Invented for life” stands for reliable technology designed and built to last. To meet the ever increasing energy demands of today’s vehicles, Bosch has a comprehensive line-up of maintenance-free batteries, including the SM Mega Power, ST Hightec and EFB range.



### Complete Systems Solutions

Bosch provides solutions for Parts, Diagnostics and Workshop Services. The complete system support package from Bosch includes:

- ▶ Diagnostic Equipment
- ▶ Diagnostic Software
- ▶ Technical Support
- ▶ Technical Training
- ▶ A range of products



### Endurance

Bosch Batteries – Designed to last. Bosch has successfully been making batteries since 1922. High density active materials and optimised particle size mean long service life.



### Future Driven

Bosch spends billions of dollars annually in research and development to preserve its position as a technological leader. Bosch is partnering with various automakers to give drivers of electric vehicles access to some 17,400 charge spots in five European countries – with the help of charging apps, for example. Bosch's expertise covers the entire electromobility ecosystem – from proven components for electrified applications to digital connection with the charging infrastructure.



### Global Battery Expertise

Robert Bosch GmbH and its 360 subsidiaries and regional companies are active in some 50 countries. If its sales and service partners are included, Bosch has a presence in some 150 countries. Thanks to its well-established local presence across multiple parts of the world, Bosch understands individual markets and can tailor its local activities to reflect their specific requirements and current trends.

Bosch is committed to the continued development of battery systems with several hundred associates working on new battery innovations.



### Latest Technology

Bosch’s portfolio stretches from power electronics, to 48-volt mild hybrid batteries, battery-management systems, electric motors and electric axle systems.

- ▶ Driverless car: In 2017 Bosch released the driverless car. It marked the first time a self-driving vehicle has driven on Australian roads.
- ▶ Bosch e-axle: Bosch has combined three powertrain components into one unit. The motor, power electronics, and transmission form one compact unit that directly drives the car’s axle. This makes the powertrain not only far more efficient, but more affordable as well.
- ▶ Bosch electrical powertrain components already feature in more than 800,000 vehicles globally.

# A5 Product Range

## Passenger & Light Commercial Vehicles



### SM Mega Power Plus

The SM Mega Power Plus is renowned for reliability to meet the electrical demand of a wide range of passenger vehicles.

- ▶ Long service life
- ▶ Optimal performance ensures maximum current flow and high cranking power
- ▶ Excellent safety and recyclability through innovative container material
- ▶ Completely sealed and maintenance free



### SM Mega Power Silver

The SM Mega Power Silver is the optimum choice for prestige vehicles and currently exceeds all international standards set by their manufacturer.

- ▶ Maximum performance & long service life
- ▶ Optimized silver alloy increases connectivity for higher charge acceptance
- ▶ Stable design structure with silver technology supports additional safety features such as ESP and ABS
- ▶ Stable silver alloy grid reduces corrosion rate and decreases self-discharge



### ST Hightec EFB

Enhanced Flooded Battery (EFB) are the perfect partner for Stop/Start vehicles today.

- ▶ Enhance Flooded Battery (EFB) are built for high performance and reliability, even under extreme conditions
- ▶ High density active material and optimized particle size ensures extended service life
- ▶ Optimised negative grid alloy retards corrosion and prolongs battery life during high depth of discharge cycling



### ST Hightec AGM

With its dynamic recharging capability and up to 4 times the number of discharge/charge cycles, the ST Hightec AGM meets the toughest power requirements as found in today's vehicles.

- ▶ Extra long service life with double labyrinth lid construction preventing water loss
- ▶ 100% leakage proof with AGM technology
- ▶ Higher charge acceptance



\*24 Months (Stop/Start) & 36 Months (Normal Use)

# A6 Product Range

## Heavy Commercial Vehicles



### SMT Mega Power Plus

The SMT Mega Power Plus is an economic choice with high cranking power and the capacity for extreme conditions and demanding on-board accessories.

- ▶ Calcium Calcium technology provides longer service life
- ▶ Dependable starting power



### SMT Mega Power Silver

Specifically designed with Silver Alloy technology, the SMT Mega Power Silver surpasses international standards set by original equipment manufacturers.

- ▶ Resists heat and corrosion providing extra long service life
- ▶ Safe and powerful energy supply for energy consuming vehicles





# A7 Product Range

## D Series – Deep Cycle VRLA Range



### AGM Deep Cycle

Bosch AGM Deep Cycle Batteries are extensively used throughout the service, recreational and electric vehicle industries, with a capacity between the 4.5 to 14.0 AMP Range.



### AGM Deep Cycle Plus

Bosch Deep Cycle Plus Batteries offer increased capacity between the 21.4 to 214 AMP Range.



### GEL Deep Cycle

Bosch Deep Cycle Gel Batteries have excellent performance in protecting its components and superior deep discharge property.



Gel and AGM Technology at a Glance	GEL	AGM
Maintenance-free design	Yes	Yes
Internal oxygen recombination	Yes	Yes
Spill proof	Yes	Yes
Low self discharge rate	Yes	Yes
Recharging efficiency	Good	Good
Stability of capacity over cycle life	Very Good	Good
Deep Cycle life and resiliency to deep discharge damage	Very Good	Good
Best combination of starting and cycling purpose	Good	Very Good
High current discharge performance	Good	Very Good

### Certification Standards

The Bosch VRLA range conforms to:

AS/NZS 4029.2:2000 (Stationary batteries-Lead-acid Part 2: Valve regulated type [IEC 60896-2:1995, MOD])

“AktivFire Scheme” to Technical Specification TS001, Ver. 1.1

\*Certification details are available on [www.boschparts.com.au](http://www.boschparts.com.au)

# A8 Product Range

## D Series – Deep Cycle



### Deep Cycle

Bosch Deep Cycle Batteries are extensively used throughout the service, recreational and electrical vehicular industries. With great reliability, they are placed into mobile power consumers such as:

- ▶ Caravans
- ▶ Boats
- ▶ Golf carts
- ▶ Motorised disability cars and wheelchairs
- ▶ Mobile signal systems and
- ▶ Traffic control systems
- ▶ Supplementary drive systems amongst other hobby, leisure and industrial applications



Bosch has carefully engineered its range of Deep Cycle Batteries to ensure high cycle stability, guaranteeing a reliable power supply.

## M Series – Marine



### M4

Bosch marine batteries are carefully engineered to provide the optimum balance between starting and deep cycling duties. They are also thoroughly insulated to protect against the high frequency vibrations created by rough sea conditions.

- ▶ HCM is designed for dual purpose to handle both starting and light cycling



# A9 Battery Accessories

## DIY/Retail Range



### C3 and C7 Battery Charger

The Bosch C3 battery charger is an intelligent four-stage automatic battery charger with pulse charging and trickle charging capabilities.



The Bosch C7 Battery Charger is an intelligent six-stage automatic charger with great extra features including regeneration mode and power backup.

- ▶ Suitable for lead acid wet, AGM and GEL batteries
- ▶ Intelligent and automatic charging
- ▶ No risk of overcharge
- ▶ C3 6V/12, C7 12V/24

## Trade Range



### KTS Scan Tool

Bosch diagnostic solutions to provide a simple workshop environment.



- ▶ Top-measurement technology for quick diagnosis
- ▶ Ethernet and PassThru for vehicle interface access
- ▶ Robust and future orientated



### BAT 131 Battery Tester

The new portable battery tester BAT 131 from Bosch is perfectly suitable for testing 6 V and 12 V starter batteries.



- ▶ Menu guided intuitive operation, with results on large LCD screen
- ▶ Optimized test algorithm to test new / unused / instock batteries
- ▶ Extended test for 12 V and 24 V starting / charging system. The tester supports the optional use of a current clamp, which also improves the test results
- ▶ Stores up to 100 test reports; USB port for report downloads and future software updates
- ▶ Integrated printer provides “easy to understand” graphical printouts
- ▶ 3 m replaceable cable enables “flexibility” during battery and starter / alternator diagnosis



### BAT 645/690 Universal Battery Charger

The new Bosch Bat 645 and 690 Battery Charger offers automotive workshops two universally applicable professional devices.



- ▶ Featuring 45 or 90 ampere of continuous current output.
- ▶ Automatically detects the required nominal voltage
- ▶ Both chargers can be used for 12-volt car batteries and 24-volt commercial vehicle batteries alike
- ▶ USB port to ease software updates, allows for instant uploading characteristics

# A10 Bosch Start-Stop System Innovator EFB Batteries

**Enhanced Flooded Batteries (EFB)** are built for higher performance and reliability than standard flooded batteries. They are designed to support standard Start-Stop engines, which put greater demands on the battery.

Even for non Start-Stop vehicles, the EFB can also be fitted to enhance starting performance and meet the ever increasing electrical demands of modern vehicles.

The EFB provides increased cyclic stability, enabling faster recovery from deep discharges. In a Start-Stop vehicle, the EFB maintains power supply to the electrical devices when the engine shuts off, and is able to restart in a fraction of a second.

## Why is EFB essential for Start-Stop Systems?

- ▶ Extended cycle life compared with conventional battery
- ▶ Better deep cycling property to allow cranking with lower state of charge
- ▶ Higher charge acceptance for lesser charging opportunities
- ▶ Higher thermal stability for use in engine compartment and hot climate regions



## Advantages at a glance



### Extended Service Life

- ▶ High density active material and optimised particle size for extended service life



### Start / Stop

- ▶ Special negative additives are added to reduce the shrinkage of active materials which increases charging acceptance



### Extra High Performance

- ▶ Small-sized windows of expanded grid lowers resistance and improves conductivity for consistently high performance



### Higher Durability

- ▶ Optimised negative grid alloy inhibits corrosion and prolongs the battery life cycle with a high depth of discharge



### Higher Depth of Discharge (DoD)

- ▶ Suitable for additional electrical load prevalent in modern vehicles to give you the extra power needed

For vehicles originally fitted with EFB or AGM Batteries, the replacement batteries should be of the same technology as the conventional types are not able to cope with the demands of the start-stop systems, potentially causing premature failure.

# A11 Bosch Start-Stop System Innovator AGM Batteries

**Absorbent Glass Mat (AGM)** is specifically designed for the special requirements of the start-stop and electronic battery management systems.

## What is Start-Stop technology?

With start-stop technology when the car comes to a stop the engine switches off. The battery continuously powers the air-conditioning, lighting and other informative systems. The engine automatically restarts once the driver engages the clutch pedal in an automatic vehicle, resulting in reduced fuel consumption and CO<sub>2</sub> emissions.



### Extra Long Service Life

#### Special Lid Structure

- Double lid with labyrinth construction prevents water loss

#### Wide Cast on Strap

- High vibration resistance minimizes shedding of active material

#### Polypropylene Case

- Made of highly durable material that can withstand greater internal pressure



### Assured Safety

- 100% leakage proof with AGM technology
- Eliminates emission of gases due to the recombinant nature
- Safety valves relieve excess pressure



### Absorbent Glass Mat

- Electrolyte absorbed by micro-porous glass separators eliminates acid spills and terminal corrosion
- Optimized component compression minimizes loss of active material
- Maximizes charge reaction due to evenly distributed electrolyte



### Centralized Grid Lug / Fine Mesh Grid

- Higher charging and discharging performance
- Designed for maximum current flow and high charge efficiency
- Made of Tin-Calcium material with high corrosion resistance
- Low internal resistance translates into higher power output

## Advantages at a glance



- ▶ Supports start stop system designed to reduce fuel consumption



- ▶ 100% sealed and leak-proof



- ▶ High starting performance



- ▶ Excellent charge acceptance and cold starting power



- ▶ Longer service life due to unique built-in features including double lid to prevent water loss, high vibration resistance, and a highly durable polypropylene case.

# A12 Battery Specifications

## Mega Power Plus Specifications

Bosch Part Number	Short Order Part Number	20Ah Rate	RC	CCA	Length (mm)	Width (mm)	Total Height (mm)	Terminal	Term Layout	Base Hold Down	Technology
<b>SM Mega Power Plus</b>											
0986A00440	54316	43	70	420	211	175	175	STD	A	B3/B4	Cal Cal
0092S37018	55065	50	84	430	208	175	190	STD	B	B3	Cal Cal
0092S37019	55066	50	84	430	208	175	190	STD	A	B3	Cal Cal
0986A00442	55457	54	94	500	245	175	175	STD	A	B3	Cal Cal
0986A00441	55458	54	94	500	245	175	175	STD	B	B3	Cal Cal
0092S37137	56217	62	95	580	242	175	190	STD	B	B3	Cal Cal
0092S37136	56219	62	95	580	242	174	190	STD	A	B3	Cal Cal
0986A00225	56318	63	110	580	277	175	175	STD	A	B3/B4	Cal Cal
0986A00228	56638	66	110	560	278	175	190	STD	A	B3	Cal Cal
0986A00443	56640	66	110	560	278	175	190	STD	B	B3	Cal Cal
0092S37480	57013	70	110	770	278	175	190	STD	B	B3	Cal Cal
0986A00413	58014	80	135	730	315	175	175	STD	A	B3	Cal Cal
0092S37014	58515	85	145	750	353	175	175	STD	A	B3	Cal Cal
0092S37481	59095	90	160	912	315	175	190	STD	B	B3	Cal Cal
0092S47043	60038	100	170	800	353	175	190	STD	A	B3	Cal Cal
0092S37000	22F-550	56	86	550	240	174	205	STD	A	B9	Cal Cal
0092S37004	22F-550DF	56	86	550	240	174	211	DF	A	B9	Cal Cal
0092S47066	22F-610	55	90	610	240	172	203	STD	A	B9	Cal Cal
0092S37008	22FR-550	56	86	550	240	174	205	STD	B	B9	Cal Cal
0092S47067	22FR-610	55	90	610	240	172	203	STD	B	B9	Cal Cal
0092S47071	22NF-330D	40	60	330	240	134	204	DF	G	B9	Cal Cal
0092S37274	40B19L	35	52	300	186	126	224.2	SMALL	A	B0	Cal Cal
0092S37275	40B19LS	35	52	300	186	126	224.2	STD	A	B0	Cal Cal
0092S37276	40B19R	35	52	300	186	126	224.2	SMALL	B	B0	Cal Cal
0092S37277	40B19RS	35	52	300	186	126	224.2	STD	B	B0	Cal Cal
0092S47085	50D20L	50	80	500	207	172	219	STD	A	B7	Cal Cal
0986A00406	55B24L	45	76	430	238	129	225	SMALL	A	-	Cal Cal
0986A00408	55B24LS	45	76	430	238	129	225	STD	A	-	Cal Cal
0986A00407	55B24R	45	76	430	238	129	225	SMALL	B	-	Cal Cal
0986A00409	55B24RS	45	76	430	238	129	225	STD	B	-	Cal Cal
0092S37147	55D23L	55	90	550	229	172	222	STD	A	B7	Cal Cal
0092S37146	55D23R	55	90	550	229	172	222	STD	B	B7	Cal Cal
0986A00415	55D26L	60	100	500	260	173	222	STD	A	-	Cal Cal
0986A00414	55D26R	60	100	500	260	173	222	STD	B	-	Cal Cal
0092S47045	65-7MF	85	160	850	302	189	191	STD	B	B8	Cal Cal
0092S47028	80D23L	70	120	560	229	172	222	STD	A	B7	Cal Cal
0092S47029	80D23R	70	120	560	229	172	222	STD	B	B7	Cal Cal
0092S47030	90D26L	75	140	620	260	172	222	STD	A	B7	Cal Cal
0092S47031	90D26R	75	140	620	260	172	222	STD	B	B7	Cal Cal
0092S37015	AU22-550DF	56	86	550	231	169	211	DF	A	B0	Cal Cal
0092S37016	AU22R-550	56	86	550	231	169	205	STD	B	B0	Cal Cal
0092S47077	U1-260	26	33	260	196	128	184	LUG	LUG	B0	Cal Cal
0092S47078	U1R-260	26	33	260	196	128	184	LUG	LUG	B0	Cal Cal

# A13 Battery Specifications

## Mega Power (Silver) & ST Hightec (EFB + AGM) Specifications

Bosch Part Number	Short Order Part Number	20Ah Rate	RC	CCA	Length (mm)	Width (mm)	Total Height (mm)	Terminal	Term Layout	Base Hold Down	Technology
<b>SM Mega Power Silver</b>											
0092S57046	560.060	60	100	600	242	175	175	STD	A	B3	Cal Sil
0092S37270	568.060	68	110	600	278	175	190	STD	A	B3	Cal Sil\
0092S57047	574.068	74	120	680	278	175	190	STD	A	B3	Cal Sil
0092S57049	575.068	75	120	680	278	175	175	STD	A	B3/B4	Cal Sil
0092S57091	610.095	110	190	950	394	174	190	STD	A	B3	Cal Sil
0092S57026	110D26L	93	160	680	260	172	222	STD	A	B7	Cal Sil
0092S57027	110D26R	93	160	680	260	172	222	STD	B	B7	Cal Sil
0092S57030	22F-680	60	105	680	240	172	203	STD	A	B9	Cal Sil
0092S57031	22FR-680	60	105	680	240	172	203	STD	B	B9	Cal Sil
0092S57048	574.068R	74	120	680	278	175	190	STD	B	B3	Cal Sil
0986A02234	90D23L	75	125	650	230	172	222	STD	A	B7	Cal Sil
0986A02235	90D23R	75	125	650	230	172	222	STD	B	B7	Cal Sil
<b>ST Hightec EFB - Vehicle Specific</b>											
0092S57106	Q85L	75	125	660	229	172	222	STD	A	B7	EFB
0092S57107	Q85R	75	125	660	229	172	222	STD	B	B7	EFB
0092S57108	S95L	80	150	720	259	172	222	STD	A	B7	EFB
0092S57114	S95R	80	150	720	259	172	222	STD	B	B7	EFB
0092S57109	T110L	94	170	820	305	172	222	STD	A	B7	EFB
0092S57110	T110R	94	170	820	305	172	222	STD	B	B7	EFB
<b>ST Hightec AGM - Vehicle Specific</b>											
0092S67116	LN2	60	100	680	245	175	190	STD	A	B3	AGM
0092S67117	LN3	70	120	760	277	175	190	STD	A	B3	AGM
0092S67118	LN4	80	140	800	315	175	190	STD	A	B3	AGM
0092S67119	LN5	92	160	850	353	175	190	STD	A	B3	AGM
0092S67120	LN6	105	190	950	394	175	190	STD	A	B3	AGM

# A14 Battery Specifications

## SMT Mega Power Specifications

Bosch Part Number	Short Order Part Number	20Ah Rate	RC	CCA	Length (mm)	Width (mm)	Total Height (mm)	Terminal	Term Layout	Base Hold Down	Technology
<b>SMT Mega Power Plus</b>											
0092S37070	68032	180	360	1100	508	222	220	STD	D	B0	Cal Cal
0092S37072	73011	230	430	1250	518	273	241	STD	D	B0	Cal Cal
0092S37335	130E41	110	200	730	410	175	235	STD	B	B0	Cal Cal
0092S37336	160F51	128	240	900	505	183	240	STD	D	B0	Cal Cal
0092S37337	190G51	155	310	950	508	222	241	STD	D	B0	Cal Cal
0092S37338	250H52	205	435	1130	523	279	248	STD	D	B0	Cal Cal
0092S37156	31-900	100	160	900	330	173	239	STD	G	B0	Cal Cal
0092S37157	31-900T	100	160	900	330	173	239	Threaded	G	B0	Cal Cal
0092S37462	31-1000	100	160	1000	330	172	240	STD	G	B0	Cal Cal
0092S37463	31-1000T	100	160	1000	330	172	240	Threaded	G	B0	Cal Cal
0092S37149	95D31L	90	160	710	302	172	222	STD	A	B7	Cal Cal
0092S37148	95D31R	90	160	710	302	172	222	STD	B	B7	Cal Cal
0092T47020	105D31L	90	160	750	305	172	222	STD	A	B7	Cal Cal
0092T47021	105D31R	90	160	750	305	172	222	STD	B	B7	Cal Cal
0092S47061	N100 (130E41R)	110	190	700	406	172	231	STD	B	B0	Cal Cal
0092S47091	N100L (130E41L)	110	190	700	406	172	231	STD	B	B0	Cal Cal
0092S47062	N120 (150F51)	135	245	1005	503	182	231	STD	A	B0	Cal Cal
0092S47063	N150 (165G51)	150	300	1050	507	213	231	STD	A	B0	Cal Cal
0092S47036	N200L (8D-1300L)	210	440	1300	510	275	238	STD	D	B0	Cal Cal
0092S47064	N200R (8D-1300R)	210	440	1300	510	275	238	STD	E	B0	Cal Cal
<b>MT Mega Power Silver</b>											
0092S57028	125D31L	94	165	760	305	172	222	STD	A	B7	Cal Sil
0092S57029	125D31R	94	165	760	305	172	222	STD	B	B7	Cal Sil

## M Series - Marine Specifications

Bosch Part Number	Short Order Part Number	20Ah Rate	RC	CCA	Length (mm)	Width (mm)	Total Height (mm)	Terminal	Term Layout	Base hold down	Technology
<b>M4</b>											
0092S47074	DC24	70	120	500	275	172	229	TM	B	B7	Cal Cal
0092S47075	DC27	80	145	570	320	172	229	TM	B	B7	Cal Cal
0092S47076	DC31	100	180	625	330	172	234	TM	G	B0	Cal Cal
0092S47057	HCM24-600	75	130	630	260	172	221	TM	R	B7	Cal Cal
0092S47060	HCM27-750L	90	145	750	306	173	225	TM	L	B7	Cal Cal
0092S47058	HCM27-750	90	145	750	306	173	225	TM	R	B7	Cal Cal
0092S47059	HCM31-830	100	180	830	330	172	230	TM	Center R	B0	Cal Cal



# A15 Battery Specifications

## D Series - VRLA Specifications

Bosch Part Number	Short Order Part Number	Voltage (V)	20 Hr Capacity (Ah)	Length (mm)	Width (mm)	Total Height (mm)	Terminal Type	VRLA Terminal Adaptor Kit Part Number
<b>AGM Deep Cycle (Standby)</b>								
0092L57141	BA6-4.5	6V	4.5	70	47	106	T1	-
0092L57164	BA6-7	6v	7.0	151	34	400	T1	-
0092L57142	BA6-12	6V	12.0	151	51	100	T1	-
0092L57143	BA12-2.9	12V	2.9	79	56	105	T1	-
0092L57144	BA12-5	12V	5.0	151	53	99	T1	-
0092L57145	BA12-5.8	12V	5.8	90	70	107	T1	-
0092L57162	BA12-5.8T2	12V	5.8	90	70	107	T2	-
0092L57170	BA12-7T1	12V	7.0	151	65	99	T1	-
0092L57147	BA12-7T2	12V	7.0	151	65	99	T2	-
0092L57163	BA12-9	12V	9.0	151	65	99	T2	-
0092L57165	BA12-12	12V	12.0	151	98	101	T2	-
0092L57166	BA12-14	12V	14.0	151	98	101	T2	-
<b>AGM Deep Cycle Plus</b>								
0092L57151	BAC12-20	12V	21.4	181.5	77	166.5	T12	-
0092L57152	BAC12-26	12V	27.8	166	175	125	T3	-
0092L57153	BAC12-33	12V	35.4	195	130	182	T5	-
0092L57159	BAC12-38FR	12V	40.7	197	165	170	T6	VRLATK M6
0092L57154	BAC12-55	12V	59.0	228	137	216	T6	VRLATK M6
0092L57155	BAC12-75	12V	80.4	259	168	214	T6	VRLATK M6
0092L57160	BAC12-75FR	12V	80.4	259	168	214	T6	VRLATK M6
0092L57156	BAC12-100R	12V	100.0	305	168	213	T6	VRLATK M6
0092L57161	BAC12-120RFR	12V	120.0	330	173	220	T11	VRLATK M8
0092L57157	BAC12-150	12V	160.8	483	170	238.5	T11	VRLATK M8
0092L57158	BAC12-200	12V	214.4	522	240	224	T11	VRLATK M8
<b>Gel Deep Cycle</b>								
0092L67000	BG12-38	12V	38.0	197	165	170	T6	VRLATK M6
0092L67001	BG12-70	12V	70.0	259	168	214	T6	VRLATK M6
0092L67002	BG12-100	12V	96.0	330	173	218	T11	VRLATK M8
0092L67003	BG12-135	12V	135.0	485	170	240	T11	VRLATK M8
0092L67004	BG12-200	12V	200.0	522	240	224	T11	VRLATK M8
0092L67005	BG12-240	12V	240.0	522	268	226	T11	VRLATK M8

## VRLA Terminal Adaptor Kits (M6 & M8)



10 Digit Part Number	Short Order Part Number	Kit (Unit Pack Qty)
0189999701	VRLATK M6	1 Kit (2 Terminals)
0189999702	VRLATK M8	1 Kit (2 Terminals)

# A16 Battery Abbreviations & Layouts

## Abbreviations

### Hold Down

- B0: No bottom hold down
- B1: 2 bottom hold-downs 10.5mm high on long sides
- B3: 4 bottom hold-downs 10.5mm high on all four sides
- B4: 2 bottom hold-downs 19mm high on long sides
- B3/B4: B4 BHD available with adapter on long sides
- B7: 2 bottom hold-downs 9.7mm high on long sides
- B9: 4 bottom hold-downs 9.7mm high on long sides, 29mm on short sides

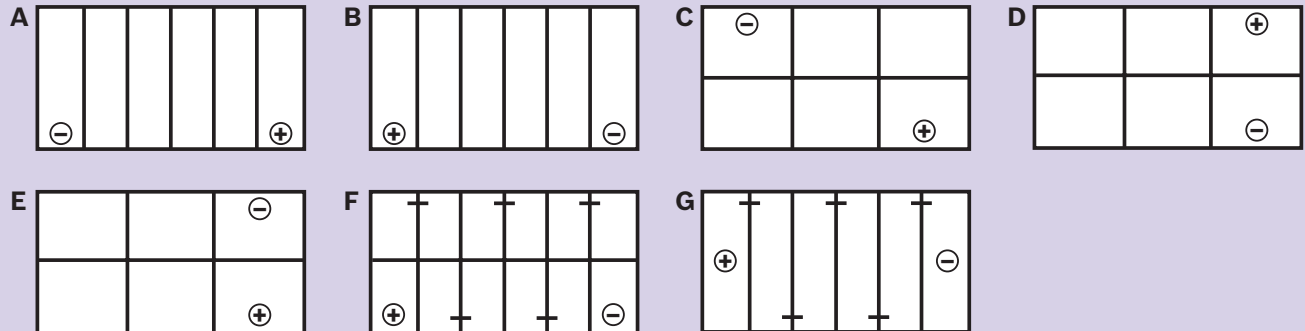
### Terminal

- DF: Dual fit terminal
- SM: Small terminal
- STD: Standard terminal
- TM: Twin Marine
- LU: LUG
- BN: Bolt nut terminal
- TH: Threaded

### Terminology

- AGM: Absorbent Glass Matt
- EFB: Enhanced Flooded Battery
- VRLA: Valve Regulated Lead Acid
- CCA: Cold Cranking Amps
- RC: Reserve Capacity
- Cal Cal: Calcium Calcium
- Cal Sil: Calcium Silver
- FF: Full Frame Grid Technology
- HCM: High Cycle Marine

## Battery Layout



## Terminal

STD



SM



LU



TM



TH



DF



# A17 Technical Information

## 1. Introduction

The Technical Information section provides essential information on the operation, characteristics, design, handling and charging of lead-acid batteries as well as the correct procedures for using, stocking and maintaining batteries for road vehicles. In addition, it provides information on the main areas of care needed to be taken for the safety of staff who work with Bosch batteries.

### 1.1 Safety Warnings and Standards



Observe the information on the battery, refer to the battery type-specific Safety Data Sheet (SDS) and vehicle operating manual before use.



#### Corrosive Hazard:

- ▶ Battery acid is extremely corrosive.
- ▶ The acid can cause burns and blindness.
- ▶ Fumes may be harmful if inhaled and cause respiratory irritation.
- ▶ Under normal operation conditions, there should be no contact with the electrolyte (diluted sulphuric acid).
- ▶ Please note that when the battery casing of a battery with fixed electrolyte is destroyed or damaged, bound electrolyte in glass fibre mats or jellified electrolyte is as corrosive as when liquid.
- ▶ Wear eye protection and protective gloves.
- ▶ Charge or use battery only in a well-ventilated space.
- ▶ Do not tilt the battery permitting acid to leak out of vent openings



#### Explosion Hazard:

- ▶ An explosive gas mixture is formed when batteries are charged.
- ▶ Explosive gases can cause blindness and injury.
- ▶ Keep sparks, flames, lighted cigarettes or any ignition source away from battery.
- ▶ Avoid creating sparks when handling cables and electrical equipment as well as those caused by electrostatic discharge.
- ▶ Clean with damp cloth only; a dry cleaning cloth might become electrostatically charged and produce sparks.
- ▶ Avoid short circuits. Never connect the positive terminal to the negative terminal of the same battery. A short circuit can cause burns, fire or the explosion of the battery.



#### First Aid:

- ▶ Batteries contain Sulphuric Acid.
- ▶ In the event of contact with battery contents, remove contaminated clothing, flush contact area with large amounts of water and contact a physician immediately.
- ▶ If acid is swallowed, do not induce vomiting, give water to rinse mouth then provide liquid slowly and as much as casualty can comfortably drink. Contact Poisons Information Centre or physician immediately.



#### Transport:

- ▶ Batteries are classified as Dangerous Goods for land, air and sea transport.
- ▶ Placarding requirements may apply.
- ▶ Refer to Safety Data Sheet and applicable ADG, ICAO-IATA or IMDG codes.



#### Environmental Hazard:

- ▶ Battery contents are extremely toxic to aquatic life with long lasting effects.
- ▶ Avoid release of any battery contents to the environment.
- ▶ Clean up spills immediately.
- ▶ Never dispose of old batteries as household or general waste.
- ▶ Dispose of old batteries in accordance with local regulations.

#### Warnings:

- ▶ The enclosure becomes brittle with time. Do not expose batteries to direct sunlight.
- ▶ Discharged batteries can freeze so store in a place where they are protected from frost.

## 2. Battery Recharging Procedure

### 2.1 Battery Charging Indicators

- Charging of the battery is required when the:
  - Storage period is more than 6 months without charging.
  - Colour of state of charge (SOC) indicator turns black.
  - Battery open circuit voltage (OCV) is less than 12.4V.

**Note: Using an automatic battery charger is recommended. Recharging with a constant current or voltage charger without any automatic switch off or switch over to another charge curve is not recommended.**

### 2.2 Steps Prior to Charging

- Wear protective glasses whilst handling the battery.
- Do not carry out charging near fire or spark.
- Do not charge damaged or frozen battery.
- Boost charge is not recommended.
- If the battery has accessible screw-in plugs, check the electrolyte level in each cell and top up with distilled water if necessary.
- Do not switch on the charger until battery has been connected. Do not switch off the charger until charging is complete.

### 2.3 Steps prior to charging multiple batteries in series

- Position the batteries so that there is a space of at least 20mm between them.
- Only use batteries with the same capacity and same state of charge in the same circuit. This prevents the slightly discharged batteries from being overcharged when connected to the same circuit as a battery that needs a longer time to recharge.
- Batteries must always be connected in series, that is, the positive pole of a battery should be connected to the negative pole of the neighbouring battery, thus the positive pole of the first battery and the negative pole of the last battery will always be open.
- All of the batteries for recharging should have their density and/or open voltage checked, so that the batteries could be grouped (based on state of charge) for the purpose of placing them in the right circuit for the recharging process.

**Warning:** Never connect the positive pole to the negative pole of the same battery or in the same series, as this will cause a short circuit. Check that the connections (lugs) make good contact by twisting them slightly while pressing them onto the pole.

## 2.4 Recharging with a Constant Current

Only recharge with a constant current if unavoidable.

When recharging the battery with a constant current, the voltage will increase slowly during the recharging. Towards the end, the voltage increases rapidly and the process should be stopped at the voltage value limit.

Example: 45Ah battery.

Recharging Current:  $45 \times 0.1 = 4.5A$  (10% of the nominal capacity of the battery).

The recharging time depends on the state of charge of the battery.

OCV in stable condition	State of charge	Battery capacity (20Ah)					
		35-40Ah	41-50Ah	51-65Ah	66-75Ah	76-90Ah	91-110Ah
12.5 - 12.59	70%	3Amps x 4hrs	4Amps x 4hrs	5Amps x 4hrs	6Amps x 4hrs	6Amps x 4hrs	7Amps x 4hrs
12.4 - 12.49	60%	3Amps x 6hrs	4Amps x 6hrs	5Amps x 6hrs	6Amps x 6hrs	6Amps x 7hrs	7Amps x 7hrs
12.3 - 12.39	50%	3Amps x 8hrs	4Amps x 8hrs	5Amps x 8hrs	6Amps x 8hrs	6Amps x 9hrs	7Amps x 10hrs
12.2 - 12.29	40%	3Amps x 10hrs	4Amps x 10hrs	5Amps x 10hrs	6Amps x 10hrs	6Amps x 12hrs	7Amps x 12hrs
12.1 - 12.19	30%	3Amps x 13hrs	4Amps x 12hrs	5Amps x 12hrs	6Amps x 12hrs	6Amps x 14hrs	7Amps x 15hrs
Below 12.09	20%	3Amps x 15hrs	4Amps x 14hrs	5Amps x 14hrs	6Amps x 14hrs	6Amps x 16hrs	7Amps x 17hrs

**Warning:** The battery temperature must not exceed 50°C during the recharging process.

#### Note:

- The above table shows approximate Ah and charging hours needed for recharging according to the battery capacity and the OCV under a constant current charging method. Accordingly, the Ah or the charging hours may be adjusted depending on the type and the state of the charged battery.
- Always charge the battery according to the amount of charge needed. Prolonged charging times, especially with a constant current, could cause the battery to become overcharged, causing an unnecessary loss of water in the process.
- Avoid quick charges that are done without controlling the temperature, current or time.
- Some batteries below 12.1V can be hard to re-charge due to the long time elapsed since the last re-charge. It is very difficult to recover its original performance.

## 2.5 Recharging with a Constant Voltage

When using this charging method, the initial current applied to the battery should be limited to 25A and the voltage to 14.4V.

The battery charging time will vary according to its state of charge, as shown in the table below:

Battery voltage when empty (volts)	Recharging Time (hours)
12.00 to 12.20	6 to 12
11.80 to 11.99	10 to 16
11.50 to 11.79	16 to 20
11.00 to 11.49	20 to 24
Deeply discharged batteries	24 to 30

**Warning:** the battery temperature must not exceed 50°C during the recharging process.

## 2.6 Actions During and After Recharging

### ▶ Electrolyte Temperature

The electrolyte temperature, hence the battery container temperature must not exceed 50°C. The recharging process should be stopped if this temperature is exceeded.

The process may be resumed once all batteries in the recharging circuit reach 45°C or less.

### ▶ Rest Time

We recommend waiting approximately 20 minutes to allow gases to dissipate before removing the leads from the batteries, as some chargers remain in a charged state and can generate sparks. Replace the vent caps and gas tubes if they were removed. Wash the battery using warm water and dry it.

## 3. Battery Usage and Defects

### 3.1 Jump Start

When performing a jump start using jumper cables, there can be bursts of high voltage of hundreds of volts when connecting/disconnecting the cables. If the vehicle's electrical system is not protected against such surges, they can cause damage to sensitive electronic components, like the ABS system, the airbags control units, etc.

**Please follow the vehicle manufacturer's operating instructions!**

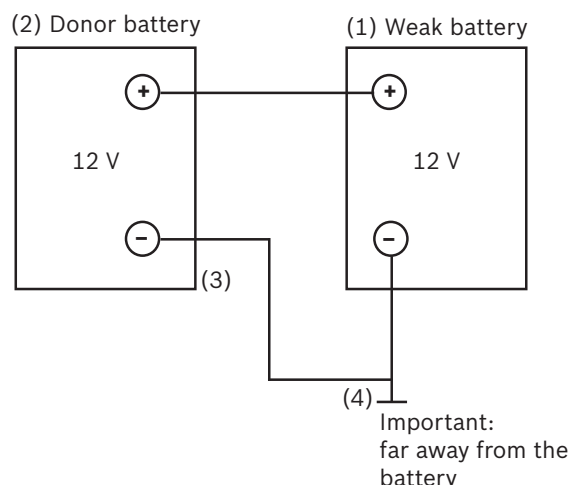
- ▶ Do not attempt to jump start a damaged battery.
- ▶ When giving starting aid with jumper cables, high voltage peaks of several hundred volts can occur when connecting the cables. If the vehicle electrical system is not protected from these peaks, they can damage sensitive electronic components.
- ▶ Only use standardised battery jumper cables. Only connect batteries of the same nominal voltage.
- ▶ Before giving starting aid, try to figure out the reason for the battery weakness. If the reason is a failure in the vehicle electrical system, starting aid should not be given. The battery or the

electric system of the vehicle giving starting aid might become damaged.

- ▶ **Warning:** Always protect your eyes and hands from the battery.

### How to do it: 4 easy steps

1. Turn off both vehicle engines.
2. Connect the positive terminals (1) and (2) and then connect the charged battery's negative terminal (3) with a bare metallic point (4) away from the battery of the vehicle requiring assistance.
3. Start the engine in the vehicle providing assistance, followed by the engine in the vehicle. Limit cranking at 15 seconds.
4. Disconnect the cables in reverse order (4-3-2-1).



### 3.2 Battery Installation and Removal

Modern vehicles are equipped with sensitive electrical systems such as airbag controllers, ABS, stability and traction control units, onboard computers etc. For some vehicles, it is necessary to follow certain procedures in order to install or take the battery out of service. For example, the electrical components may require resetting after they have been turned off.

**Please follow the vehicle manufacturer's operating instructions!**

1. Switch off the engine and all electrical equipment before installing or removing the battery.
2. Install only batteries that are fully charged and undamaged.
3. Install the type of battery recommended for the particular vehicle.
4. Avoid causing short-circuits with tools or cables. After having installed the battery in the vehicle, remove the covers from the terminal poles just before connecting the cables to the terminals.

5. For removing, disconnect the negative terminal (-) first and then the positive terminal (+). Before installing the battery, clean the surface inside the vehicle. Fix the battery safely and securely. If the battery is not securely installed, it will be subjected to a larger degree of vibration which can reduce its service life. Friction between the battery container and the support area can cause damage and wear to the container. Also, the container can rupture, causing the electrolyte to leak out.
6. Clean the battery terminals and its lugs. When installing, connect the positive terminal (+) first, then the negative terminal (-). Check that the terminal lugs are firmly in place. Make use of the accessories from the previous battery such as hose connections, terminal supports and covers for terminals. Use the top-up caps supplied.
7. At least one vent must remain open to avoid the risk of an explosion.

### 3.3 Taking the Vehicle out of Service

When a vehicle is taken out of service (for example, when it is used only seasonally), charge up the battery and store it in a cool place. If it is necessary to leave the battery in the vehicle, disconnect the negative terminal. Check the OCV of the battery every two months. If the OCV is below 12.4V, recharge the battery.

### 3.4 Technical Information on Battery Problems

#### 3.4.1 Manufacturing Defects Short Circuit / Dead Cell

If a battery has a service life that is less than 12 months, the problem is usually caused by a dead cell, that is, one of the cells has a density value that is much lower than the others. The affected cell bubbles visibly during the high-discharge test. To evaluate the density, a high-discharge test should be carried out. In some cases, the dead cell may be visible in the form of a sulphated cell.

#### Internal Breakage

The battery has good density values, but the voltage across the terminals cannot be measured.

#### 3.4.2 Mishandling and Warranty Exclusion

The following technical problems are caused by mishandling the battery. Such cases are not subject to warranty.

#### Low State of Charge

A low state of charge is the first stage of deep discharge. With a low state of charge, the active

material will not have sustained any damage. The battery can still be charged with a standard charger.

The causes of a low state of charge are:

- ▶ A defective alternator.
- ▶ A low voltage output from the regulator.
- ▶ High contact resistances caused by loose cable connections or dirt on the cable terminals.
- ▶ Slack drive belts.
- ▶ Insufficient engine running time due to short journey times.
- ▶ Subsequent addition of electrical equipment.
- ▶ Defective equipment causing continuous discharge.

#### Deep Discharge

A battery suffers a deep discharge when its capacity is totally used up. The longer the battery remains in this state, the greater will be the damage done to the active material. The plates begin to suffer sulphation and recharging becomes impossible. This damage is irreversible.

Possible causes of deep discharge are:

- ▶ See 'Causes of Low State of Charge'
- ▶ Headlights or other electrical equipment are not switched off.

A battery in a good state of charge will usually have a load-free voltage >12.6V. Therefore, the voltage without charge for each cell is about 2.1V. If there is a short circuit in just a single cell, this will result in a reduction of about 2.1V of the terminal voltage, which would be a typical 'short-circuit' voltage of 10.5V. The likelihood of two cells within the same battery having a short circuit is very low. In the case of two cells with short circuits, the OCV drops by 4.2V to a value of 8.4V. In order to exclude the effects of long shipment and storage times on the terminal voltage, as well as the possibility of two cells with short circuits etc., only batteries with a load-free voltage lower than 8 volts are regarded as deeply discharged and a claim on warranty will be rejected.

#### Sulphation

If a battery is left in a discharged state for an excessive period of time, there will be a chemical reaction known as sulphation, which will certainly compromise its performance. During the discharge process, lead sulphate is generated on the positive and negative plates and distributed evenly among them. The longer the battery is left in a discharged state, the more the small sulphate crystals grow into larger crystals and it becomes very difficult to convert these back into lead dioxide. Sulphation can become visible in the form of a white/grey layer on the plates. In most cases,

this damage is irreversible and the battery cannot be used anymore.

Sulphation can either occur during storage or if the battery is installed in a vehicle (or equipment) that is not used for a long period of time. While in a vehicle, the battery is constantly drained by the clock, the alarm system, etc., resulting in a decrease in the level of charge of the battery and, after a certain period of time, sulphation of the plates. However, even a disconnected battery undergoes sulphation due to self-discharge.

The causes of sulphation can be summed up as follows:

- ▶ There is an excessive lapse of time between one recharging and the next.
- ▶ An engine starter battery is used for “deep cycles”. This type of battery is not resistant to deep discharges.
- ▶ The battery is undercharged or the charging and adjustment of levels is carried out incorrectly.
- ▶ Low electrolyte level: a battery plate exposed to air starts to experience sulphation immediately. Sulphation (lead sulphate) impedes the chemical reaction between the acid (electrolyte) and the active material (made up of lead) on the plates and it prevents normal operation of the battery. Even after recharging, the voltage will be low (< 12.4V), but, usually the cells will show equal values. Sulphation is not a manufacturing defect.

### Acid Stratification

Acid stratification is a common cause of battery failure. In a stratified battery, the electrolyte is concentrated at the bottom and the top half of the cell has very little acid. Stratification takes place when the battery is kept with low charge (below 80%) and is never fully recharged. Short journeys that include the use of the windscreen wipers and electric heaters contribute to this phenomenon. Acid stratification reduces the general performance of the battery.

Figure 2 shows a normal battery in which the



Figure 1 – Picture of battery with deep discharge and sulphation

acid is distributed evenly from top to bottom. This battery has good performance because the correct concentration of acid is distributed evenly over the plates. Figure 3 shows a stratified battery in which the acid concentration is light at the top and heavy at the bottom. A light acid limits the plate activation, speeds up corrosion and reduces the performance. On the other hand, high acid concentration at the bottom artificially increases the open circuit voltage. The battery seems to be fully charged, but it delivers low starting power. High acid concentration also results in sulphation and further reduces the already low conductivity. If this condition goes undetected, it will ultimately result in battery failure.

Fully recharging or shaking the battery tends to correct the problem.

### Overcharging

Overcharging is often caused by an unsuitably high temperature in the engine compartment. Other than this, a defective voltage regulator is often another cause of overcharging. A high level of corrosion, loose particles of positive active material, damaged active material and high water consumption are characteristics of overcharging. A low level of electrolyte and a black layer on the filler caps are usually evidence for an overcharged battery. Excessive water consumption leads to an increase in electrolyte density. Also, a high temperature results in a lower internal battery resistance, causing an increase in the charge current and this increases the effect of overcharging.



Figure 2 – Without acid stratification

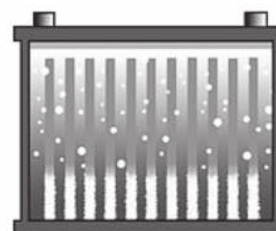
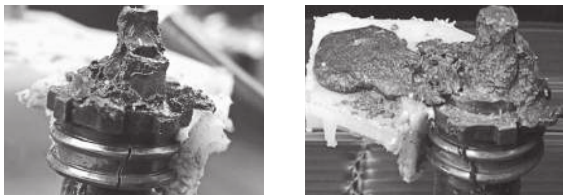


Figure 3 – With acid stratification

## Physical Damage

The battery container and the terminals will suffer obvious damage if the battery is installed incorrectly, if the cables are wrongly connected or if the cables are hammered incorrectly into the terminals.

In addition, if the terminal poles are melted, this indicates that the battery has had a short circuit. (Figure 4 and Figure 5)



Figures 4 & 5 – Picture of a melted battery terminal

## Incorrect Application

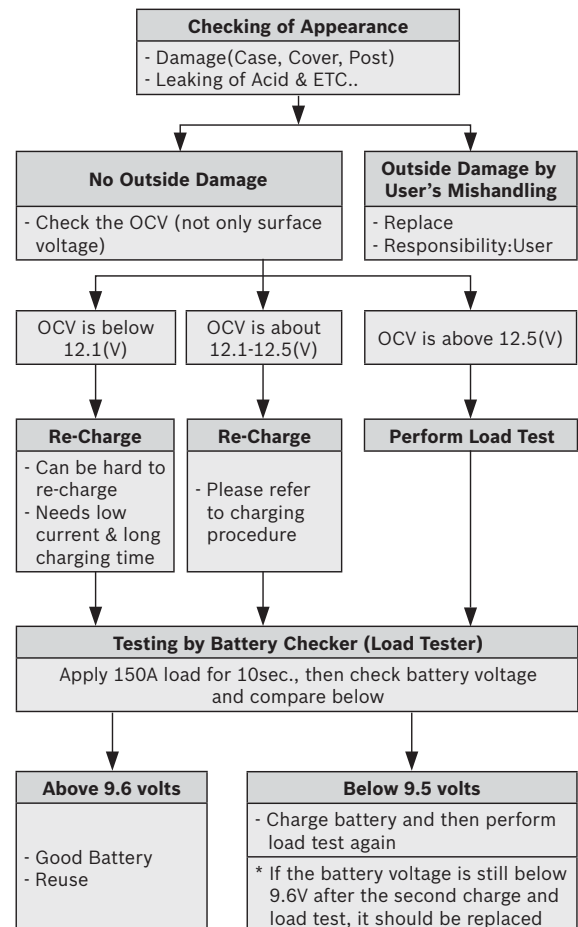
Batteries recommended by Bosch match or exceed the original equipment specifications. Choosing a battery of lower capacity or power will result in a shorter service life and premature battery failure. Usually, the result is a low charge level together with the effects described above.

## Wear and Tear

During the charging and discharging cycle, the battery plate material (active material) moves about due to the electrochemical processes occurring. Every time that the battery undergoes a charging or discharging cycle, a small amount of active material comes loose from the plates. This normal aging process, caused by the charging and discharging cycles, results in a loss of battery capacity and, ultimately, the loss of its capacity to start the vehicle or power its equipment.

A battery has a finite number of cycles that it undergoes before losing its capacity. Vehicles that do a large number of short journeys, such as taxis, mini-cabs, trucks and buses, reach the maximum number of cycles in a shorter time than vehicles that do longer journeys. As a result, the batteries used in these types of vehicles may exhibit the above mentioned symptoms earlier than expected.

## 3.5 Checking for Malfunction by Load Tester



## 4. Inspection, Storage and Stacking

### 4.1 Inspection on Receipt of Goods

Before unloading the consignment of batteries, please check the details on the invoice against the goods delivered and your order details. Check:

- ▶ The battery type.
  - ▶ The quantities.
  - ▶ Damaged batteries, batteries that were not transported in a horizontal position or those with leakage of electrolyte, should be rejected and sent back to the supplier, at the carrier's expense.
- After unloading and before stocking the batteries, check:
- ▶ The age of the battery, calculating this from its date of manufacture.
  - ▶ The open circuit voltage.
  - ▶ Do a visual inspection (container, cover, terminals, charge indicator, colours, and labels).



# A23 Deep Cycle Charging, Maintenance & Storage

## 4.2 Storage

The batteries should be stored in a horizontal position on wooden palettes or racks (not tilted). Do not place them directly onto the ground, because small stones or sharp edges on the concrete floor can damage the battery container and cause leaks.

Batteries should be stored in a dry place and must not be exposed to direct sunlight. The storage temperature should be between 10°C and 35°C. Storage temperatures that are higher than this will result in greater water consumption, corrosion and self-discharge. The storage temperature must not exceed 35°C. The maximum period for storing decreases when batteries are stored at high temperatures.

## 4.3 Stacking

In order to avoid scratches and damage of labels, do not store unpackaged batteries on top of the other.

Always ensure that the instructions for stacking batteries are followed. Batteries up to 75Ah may be stacked in up to 5 tiers; batteries above 90Ah in up to 3 tiers and batteries above 150Ah in a maximum of 2 tiers. Do not remove the plastic shrink-wrapping. Use cardboard or polystyrene as an additional layer between the batteries. Do not stack batteries with their terminal poles protruding without taking special measures to protect these terminals and to ensure that the stack is stable.

**Follow the First in / First out (FiFo) procedure strictly. Following the FiFo procedure means that the first battery stored in stock is also the first battery to leave.**

## Deep Cycle Charging, Maintenance & Storage

### 1. Maintenance - Charging Instructions

- 1.1 Before placing the battery on charge after it has been in service, check its water level. If the level is below the separators at the start of charge, add only enough distilled water to cover the separators.
- 1.2 Always check specific gravity and temperature readings before charging the battery. Correct specific gravity readings to 27°C.
- 1.3 If an automatic or taper-type charger is used, set the rate of charge according to the charger manufacturer's instructions.
- 1.4 Do not overcharge & do not undercharge. If the battery temperature reaches 50°C during the charging cycle, the charging rate should be lowered or interrupted until the battery has cooled to room temperature. Specific gravity readings should be corrected to 27°C. For each 10°C increment above 27°C add four points

to the hydrometer reading. E.g.: 37°C at 1.250 Sp. Gr. = 1.254 Sp. Gr. For each 10°C below 27°C, subtract four points from the hydrometer reading. E.g.: 17°C at 1.250 Sp. Gr. = 1.246 Sp. Gr. Before charging, be sure that the electrolyte covers the top of the plates. If not, add distilled water to bring level to the top of plates. Do not overfill, as the electrolyte will expand during charging. Always replace vent caps before charging. After charging is complete, follow step six.

1.5

1.6

Do not overfill & do not underfill the battery. Fill each cell to approximately 3mm below the bottom of the extended vent tube. Overfilling the cells when adding distilled water results in the loss of electrolyte, lowering specific gravity and ampere hour capacity.

**NOTE: never add acid to a battery—use only distilled water.**

1.7

Keep battery tops dry and clean. A moist condition will result in electrical leakage across the battery to the metal hold-down clamp, causing corrosion build-up.

1.8

With vent caps firmly in place, periodically clean battery tops, hold-down bracket, and terminal connections with baking soda solution and a brush.

**NOTE: protective gloves should be worn when undertaking this procedure.**

1.9

Check all terminals and tighten firmly. Apply a thin coating of petroleum jelly to repel corrosion. Never allow a battery to stand unused in a discharged condition. After each use, no matter how short, the battery should be fully recharged. If the battery does not come up to full charge after following the correct charging procedure (as provided by the manufacturer of the charger used), check for low line voltage and/or a faulty charger. If charging problems persist, please contact the distributor/reseller from which the battery was purchased.

1.10

If the battery's performance is weak or slow while in service, the following checks should be performed:

1.11

▶ Using a hydrometer, take specific gravity readings of all cells. If readings are above 1.225 specific gravity, apply a load test to each individual battery using a load tester, following the manufacturer's recommended procedure and instructions. If the battery proves to be unserviceable, it should be replaced.

1.12

**NOTE: do not apply load tester if cell readings are below 1.225 specific gravity.**

# A24 Marine Battery Charging, Maintenance & Storage

**1.13** If the equipment being used contains multiple batteries, all batteries should be of approximately the same age.

**1.14** If the temperature of the battery or the outside ambient temperature is below 15°C, the battery's performance and capacity will be reduced, and more charging time will be required.

## **2. Off-duty Storage**

**2.1** If a battery is stored and not kept in regular service, it should be maintained as follows:

- ▶ Maintain at full rate of charge.
- ▶ Store in a cool, dry place, ensuring the ambient temperature is not below 0°C and not above 27°C. A battery at 1.100 specific gravity will freeze at -7°C.
- ▶ Ensure charging procedure is completed every 45 days, or whenever the measured specific gravity reading has dropped to 1.200, corrected to 27°C.

**2.2** The battery will self-discharge when not in use. Approximate rates of discharge are indicated below:

- ▶ At 38°C: discharge rate = 3 pts in specific gravity per day.
- ▶ At 27°C: discharge rate = 2 pts in specific gravity per day.
- ▶ At 10°C: discharge rate = 0.5 pts in specific gravity per day.
- ▶ At -1°C, discharge rate = 0.1 pts in specific gravity per day.

Proper care and maintenance of batteries used in motive power service is the key to ensuring maximum performance, sustained trouble-free lifespan, and greatly-reduced equipment operating costs.

## **Marine Battery Charging, Maintenance and Storage**

### **1. Helpful Tips**

#### **1.1 Maintenance**

Sulphation is a major cause of battery failure in marine applications and is often created by very low voltage. Maintaining battery voltage is a must to ensure a safe day out on the water, so it pays to check your battery voltage prior to departure.

#### **1.2 Keep it clean**

Ensure the battery posts and terminals are clean and secure before every trip. The marine environment places additional demands on all equipment and basic maintenance can ensure these demands are adequately managed.

#### **1.3 Off-season storage**

Marine batteries that are not in use must be cared for as follows to extend the battery life and reliability:

- ▶ Charge up the battery and if it is necessary, leave the battery in the vessel and disconnect the negative terminal. Otherwise, remove the battery and store in a cool place. Check the OCV of the battery every two months. If the OCV is below 12.4V, recharge the battery.

**For information on Battery charging refer to pg A10**

# **A25** Voluntary Repair or Replacement Warranty Robert Bosch (Australia) Pty Ltd Automotive Aftermarket

## **Applicable for purchases of specified automotive aftermarket products after 1 February 2016**

All Bosch automotive aftermarket parts are carefully checked, tested and are subject to the stringent quality controls of Bosch Quality Assurance.

### **Important Note: Consumer Protections**

#### **If you have purchased your product in Australia, you should be aware that:**

*This warranty is provided **in addition to** other rights and remedies held by a consumer 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.*

#### **If you have purchased your product in New Zealand, you should be aware that:**

This warranty is supplemental to any other rights and remedies you have under the *Consumer Guarantees Act 1993 NZ*, unless your purchase is made for commercial purposes, in which case Bosch excludes all consumer guarantees implied in the Consumer Guarantees Act 1993 NZ in respect of your product.

(A reference to “Bosch” in this Voluntary Repair or Replacement Warranty is a reference to Robert Bosch (Australia) Pty Ltd, unless from the particular context it is obvious that it is being used as a trade mark or brand name.)

### **Warranty**

Bosch warrants, at its option, to repair or exchange those particular classes of automotive aftermarket products specified in the product table on the last page of this warranty (Products) if such Products are faulty or defective in manufacture or materials during the relevant Product warranty period.

This warranty is provided for the benefit of persons who purchase and fit the Products (“Workshops”), and of end-users of the Products, in Australia or New Zealand.

Repair or replacement under this warranty does not extend to repair or replacement, or any cost of replacement, of consumables or accessories incorporated into or supplied with the Products (for example, bearings or brushes).

This warranty only covers repair or replacement of the defective Products. It does not cover:

- any costs incurred by the Workshop or end-user in normal or scheduled maintenance of the Products; or
- any damage to property, personal injury, direct or indirect loss, consequential losses or other expenses arising from breach of this warranty. Any Workshop or end-user concerned with this exclusion should consider the “Important Note: Consumer Protections” above.

### **Warranty Periods**

The warranty periods for the Products vary according to the particular class. The respective warranty periods are specified in the product table on the last page of this warranty.

In each case, the warranty commences with effect from:

- the date of purchase of the relevant Product by the Workshop or the end-user of the Product (as the case may be); or
- in the case of test equipment (excluding spare parts), the date of installation or three months after the date of purchase, whichever occurs earliest.

It ends at the expiration of the time indicated for the Product in the table at the end of this voluntary warranty or, in the case of a Product for which another measure is also specified to define the length of the warranty period (for example, number of kilometres), it ends at the expiration of the specified time period or at the time when such specified measure of use is reached – whichever occurs first.

# A26 Voluntary Repair or Replacement

## Warranty Robert Bosch (Australia) Pty Ltd

### Automotive Aftermarket

#### Warranty Conditions

This voluntary warranty is subject to the following conditions:

- The warranty is not transferable and is only offered to the original Workshop or end user of the Product (as the case may be).
- Where a Product or part thereof is replaced or repaired under this voluntary warranty, the balance of the original voluntary warranty will apply. The replacement Product or product does not carry a new voluntary warranty.
- The warranty does not extend to any Products that have been completely or partially disassembled.
- These warranty terms cannot be amended except in writing by an authorised officer of Bosch.
- The warranty only applies to Products purchased by a Workshop or an end-user in Australia or New Zealand from Bosch or from a reseller where the Products have been originally sold by Bosch.
- Any claim made under this voluntary warranty must meet the requirements set out below in the “How to Make a Warranty Claim” section.

#### Warranty Exclusions

This warranty will not apply to a defect or fault to the extent to which it arises:

- due to storage, handling or installation of the Products otherwise than in accordance with instructions provided for the Products by Bosch or without reasonable care;
- due to operation, use or maintenance of the Products otherwise than in accordance with instructions provided for the Products by Bosch or without reasonable care;
- due to accidental damage or to use of the Products for a purpose or in environmental conditions for which the Products were not designed or sold, or use of the products outside the specified or normal operating ranges for such Products;
- as a result of changes which occur in the condition or operational qualities of the Products due to climate or other environmental influence, foreign material contamination or water entry or as a result of exposure to excessive heat or solvents;
- from normal wear and tear or when replacement or repair of parts would be part of normal maintenance or service of the Products (for example, bearings or brushes) or where the damage is only to surface coating, varnish or enamel;
- as a result of repairs, alterations or modifications to the Product which have been performed by a third party;

- from the use of any spare parts not manufactured, sold or approved by Bosch in connection with the repair or replacement of Product, or
- as a result of any other defective or malfunctioning parts in the vehicle in which the Product has been installed.

This voluntary warranty does not apply to damage caused by continued use of a Product after it is known, or would have been known with regular servicing, it is defective.

#### Wrong Deliveries and Transit Damage

Wrong deliveries, incorrect or damaged packing and transit damage claims are not warranty claims. Such cases should be directed to Bosch’s Customer Service line in Australia on 1300 307 040 or in New Zealand on 0800 452 896.

#### How to Make a Warranty Claim

If a Product fails within the warranty period, the Workshop or the end-user must stop fitting or using the Product or the vehicle in which the Product is stored (as the case may be) until the Product is returned or made available for assessment.

The Product must be returned to the place of purchase (which in the case of a fault or defect identified after installation, may be the Workshop which fitted the Product) for assessment before the end of the Warranty Period (see Deadlines for Submitting Warranty Claims below).

Where this is not practicable, or further warranty support is required, please call Bosch on 1300 307 040 (within Australia) or 0800 452 896 (within New Zealand). Alternatively, for claims in Australia, you can post details of your claim to Robert Bosch (Aust) Pty Ltd, Attn AA Warranty Department, Locked Bag 66, Clayton Sth, 3169. Claims received by post will take longer to process and we encourage you to call us first. Bosch may refer you to one of its Bosch Warranty Authorised Service Dealers.

# **A27** Voluntary Repair or Replacement

## Warranty Robert Bosch (Australia) Pty Ltd

### Automotive Aftermarket

In all cases, the Workshop or end-user must provide proof of purchase, and any other details or evidence reasonably requested by Bosch or the supplier of the Product to substantiate the warranty claim.

#### **Costs of Submitting a Warranty Claim**

For invalid claims under this voluntary warranty, Bosch will not be liable for the end user's or the Workshop's costs in making the warranty claim, including transport or return freight.

In respect of valid claims under this voluntary warranty, the Workshop or the end user (as the case may be) will not be charged for costs associated with making a warranty claim, including warranty processing costs, the cost of replacement parts or freight. Reimbursement for necessary and reasonably incurred costs or expenses in making valid warranty claims under this manufacturer's warranty may be sought from Bosch. To enquire how to make a claim for reimbursement for costs incurred in submitting a warranty claim, please call 1300 307 040 in Australia or 0800 452 896 in New Zealand. Documentary evidence in support of such claim will be required.

#### **Deadlines for Submitting Warranty Claims**

Bosch aims to rectify genuine quality problems as a priority. This is generally achieved by investigating why defective products have failed and by introducing immediate corrective action measures to prevent re-occurring warranty failures. It is therefore critical that all warranty claims are promptly submitted to Bosch by the end of the warranty period. Bosch requests however that returns are made no later than 30 days after becoming aware of any defect or in order to assist Bosch to maintain its strict quality controls.

#### **Packaging**

Products do not need to be returned with the original packaging to make a warranty claim.

#### **Product Liability and Product Safety**

Bosch should be informed immediately about any potential product safety concerns within and outside the warranty period. Bosch is well aware of its product liability and product safety obligations and responsibilities. It is Bosch's aim to ensure appropriate product safety standards are met in order to avoid injury, loss and damage caused by defects in any Products.

#### **Privacy**

Bosch is required (or in the case of a Workshop, may be required) to seek personal information from an end-user or Workshop who seeks to make a claim under this warranty.

Such personal information may be used by Bosch and/or any service dealer who is authorised to process warranty claims and/or carry out warranty repairs on behalf of Bosch ("Warranty Authorised Service Dealer") for the purpose of processing such warranty claim and also for the provision of customer support and further information about Bosch's products and services (Purpose).

If an end-user or Workshop does not wish to provide Bosch and/or its Warranty Authorised Service Dealer with personal information, Bosch may be unable to process the end-user's or Workshop's warranty claim or to provide the end-user or Workshop with additional customer support, services and information.

Bosch is committed to protecting the privacy of personal information and will act in compliance with applicable privacy laws, including the National Privacy Principles under the Australian Privacy Act 1988 (Cth) (as amended) and New Zealand's Information Privacy Principles described in the Privacy Act 1993 (NZ).

Bosch takes security measures in order to protect any personal information collected in the warranty claim process against manipulation, loss, destruction, access by unauthorized persons or unauthorized disclosure.

Bosch will not disclose any personal information to third parties other than for the Purpose or except as required by law.

An end-user or Workshop has the right to access the personal information Bosch or its Warranty Authorised Service Dealers hold about them. The end-user or Workshop can request to see, change or modify the personal information held about them, or withdraw consent for its usage, by contacting Bosch at the Bosch Contact Details below.

# A28 Voluntary Repair or Replacement

## Warranty Robert Bosch (Australia) Pty Ltd

### Automotive Aftermarket

#### Bosch Contact Details

This warranty is offered by Robert Bosch (Australia) Pty Ltd (ACN 004 315 628) of 1555 Centre Road, Clayton, Victoria 3168. Please call Robert Bosch (Australia) Pty Ltd on 1300 307 040 if in Australia or 0800 452 896 in New Zealand if you have any queries in relation to this warranty.

#### Bosch Product List and Respective Warranty Periods

The following is a list of the classes of products sold by Bosch which are covered by this voluntary warranty, and the warranty periods which apply in each case. The warranty period is subject otherwise to the specific terms referred to in the main body of the warranty under the heading "Warranty Periods".

Battery Technology	Product Segment	Passenger Vehicle & SUV (Private use ONLY, Excluding "4WD")	4WD (Excluding "Auxiliary" Batteries)	Truck/Commercial & Industrial	Taxi (Inc Hire car/ Uber)	Marine/Deep Cycle (Inc VRLA)
Sealed Maintenance Free	SM Mega Power Plus (S4) SM Mega Power Silver (S5)	36 Months	12 Months	12 Months	3 Months	-
Sealed Maintenance Free	SMT Mega Power Plus (T4) SMT Mega Power Silver (T5)	36 Months	12 Months	12 Months	-	-
EFB - Enhanced Flooded Battery	ST Hightec EFB	24 Months	18 Months	12 Months	3 Months	-
AGM - Absorbed Glass Mat	ST Hightec AGM	24 Months (Stop/Start) 36 Months (Normal use)	18 Months	12 Months	3 Months	-
Deep Cycle (Inc HCM)	Deep Cycle & High Cycle Marine (M4, M5)	-	-	12 Months	-	24 Months High Cycle Marine/ 12 Months Deep Cycle & VRLA

# B1 Vehicle Application Listing

## How to use this catalogue

**B2 | ALFA ROMEO**

①	<b>ALFA ROMEO</b>									
②	<b>Alfa 33</b>									
	907A	01.90-03.92	4	1.7	AR30737 <M6>; AR30746 <M8>		55066			
③	907B	01.90-10.94	4	1.7	AR30747 <M9>		55066			
	<b>Alfa 75</b>									
	162	02.86-02.92	6	2.5	AR01911 KAT <M1>		55457	560.060		
④		01.87-02.92	4	2.0	AR06166 KAT <M11>; AR06224 <M10>		55457	560.060		
			6	3.0	AR06120 <M2>; AR06124 KAT <M3>		55457	560.060		
	<b>Alfa 90</b>									
⑤	162	02.86-12.90	6	2.5	AR01911		55457	560.060		
	<b>Alfa 147</b>									
⑥	937	11.99-12.10	4	2.0	AR32310 <M10>		56219			
		03.06-12.10	4	1.9	937 A5.000 <M92> (Diesel)		56638	574.068		
⑦		10.97-12.10	4	1.9	937 A.6000 <M94> (Diesel)		575.068			
	<b>Alfa 156</b>									
	932	09.97-10.05	4	2.0	AR32301 <M3>; AR32310 <M11>; AR32310 <M20>; 937 A1.000 <M10>		56219			
		01.02-10.05	6	2.5	AR32405 <M15>		56219			
		03.02-10.05	6	3.2	932 A.000 <M20>		574.068			
	<b>Alfa 159</b>									
	939	06.05-12.08	5	2.4	939 A3.000 <M95> (Diesel)		574.068			
		12.05-12.08	6	3.2	939 A.000 <M61>		574.068			
	<b>Alfa 164</b>									
	164	04.88-09.92	6	3.0	AR06412 <M4>; AR64301 <M5>		56219			
	<b>Alfa 166</b>									
	936	10.98-10.07	6	3.0	AR34301 <M15>; AR36101 <M17>		574.068			
	<b>Giulietta</b>									
	940	05.10-12.13	4	1.8	940 A1.000		560.060			
		05.10→	4	1.4	940 A2.000 <MultiAir>	STOP	LN2			
	<b>Giulietta 1.8 Tbi</b>									
	940	07.13→	4	1.8	940 B2.000		560.060			
	<b>GT</b>									
	937	10.03-12.10	4	2.0	937 A1.000 <M5>		56219			
			6	3.2	936A000 <M10>		56219			
	<b>GTV</b>									
	916	04.95-04.98	4	2.0	AR16201 <M1>		56219			
		05.98-12.05	6	3.0	AR16102 <M4/M7>; AR16105 <M7>		56219			
		08.00-12.05	4	2.0	AR32310 <M6>; 937 A1.000 <M8>		56219			
		04.03-12.05	6	3.2	936A6.000 <M9>		56219			

- ① Vehicle make
- ② Vehicle model
- ③ Vehicle series
- ④ Vehicle production date
- ⑤ Number of cylinders
- ⑥ Engine capacity/Litres
- ⑦ Engine Code
- ⑧ Special cases  
Refer page B136
- ⑨ OEM Equivalent
- ⑩ Premium Upgrade

This catalogue contains data from the vehicles, engines and equipment for the Australian market from the year of manufacture 1990 up to and including June 2018. This data has been assembled from information provided by manufacturers and importers, Bosch documentation as well as from investigations made on vehicles as at the date of publication. It reflects the status as at June 2018.

Whilst every care has been taken in the preparation of this catalogue, it is not possible for Bosch to guarantee its sources or to avoid discrepancies caused by technical changes to vehicles, engines and equipment due to the conditions and regulations applying in Australia and New Zealand. Except in respect of any implied warranties which cannot be excluded by law, Bosch does not make any representation or warranty as to the accuracy, completeness or suitability of the information in this catalogue.

Bosch reserves the right to alter specifications and its product range without notice.

To the extent permitted by law, Bosch is not liable for any loss or damage whatsoever (including special, direct, consequential or incidental damages for loss of profits or loss of revenue) arising out of or relating to this catalogue whether arising in tort, contract, under statute, at law or otherwise.

Before relying on this catalogue, users may wish to carefully evaluate the information for their purpose and obtain further advice relevant to their circumstances. From time to time, Bosch may (at its discretion) issue bulletins containing updates to this information to which users of this catalogue should have regard.



**ALFA ROMEO**

**Alfa 33**

<b>907A</b>	01.90 - 03.92	4	1.7	AR30737 <M6>; AR30746 <M8>	<b>55066</b>	
<b>907B</b>	01.90 - 10.94	4	1.7	AR30747 <M9>	<b>55066</b>	

**Alfa 75**

<b>162</b>	02.86 - 02.92	6	2.5	AR 01911 KAT <M1>	<b>55457</b>	<b>560.060</b>
	01.87 - 02.92	4	2.0	AR 06166 KAT <M11>; AR 06224 <M10>	<b>55457</b>	<b>560.060</b>
		6	3.0	AR 06120 <M2>; AR 06124 KAT <M3>	<b>55457</b>	<b>560.060</b>

**Alfa 90**

<b>162</b>	02.86 - 12.90	6	2.5	AR 01911	<b>55457</b>	<b>560.060</b>
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**Alfa 147**

<b>937</b>	11.00 - 12.10	4	2.0	AR 32310 <M10>	<b>56219</b>	
	03.06 - 12.10	4	1.9	937 A5.000 <M92> (Diesel)	<b>56638</b>	<b>574.068</b>
	10.07 - 12.10	4	1.9	937 A.6000 <M94> (Diesel)	<b>575.068</b>	

**Alfa 156**

<b>932</b>	09.97 - 10.05	4	2.0	AR 32301 <M3>; AR 32310 <M11>; AR 32310 <M20>; 937 A1.000 <M10>	<b>56219</b>	
	01.02 - 10.05	6	2.5	AR32405 <M15>	<b>56219</b>	
	03.02 - 10.05	6	3.2	932 A.000 <M20>	<b>574.068</b>	

**Alfa 159**

<b>939</b>	06.05 - 12.08	5	2.4	939 A3.000 <M95> (Diesel)	<b>574.068</b>	
	12.05 - 12.08	6	3.2	939 A.000 <M61>	<b>574.068</b>	

**Alfa 164**

<b>164</b>	04.88 - 09.92	6	3.0	AR 06412 <M4>; AR 64301 <M5>	<b>56219</b>	
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**Alfa 166**

<b>936</b>	10.98 - 10.07	6	3.0	AR 34301 <M15>; AR 36101 <M17>	<b>574.068</b>	
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**Giulietta**

<b>940</b>	05.10 - 12.13	4	1.8	940 A1.000	<b>560.060</b>	
	05.10→	4	1.4	940 A2.000 <MultiAir>	<b>LN2</b>	

**Giulietta 1.8 TBi**

<b>940</b>	07.13→	4	1.8	940 B2.000	<b>560.060</b>	
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**GT**

<b>937</b>	10.03 - 12.10	4	2.0	937 A1.000 <M5>	<b>56219</b>	
		6	3.2	936A000 <M10>	<b>56219</b>	

**GTV**

<b>916</b>	04.95 - 04.98	4	2.0	AR 16201 <M1>	<b>56219</b>	
	05.98 - 12.05	6	3.0	AR 16102 <M4/M7>; AR 16105 <M7>	<b>56219</b>	
		4	2.0	AR 32310 <M6>; 937 A1.000 <M8>	<b>56219</b>	
	04.03 - 12.05	6	3.2	936A6.000 <M9>	<b>56219</b>	

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.





**Spider**

<b>916</b>	04.95 - 04.98	4	2.0	AR 16201 <M1>	<b>56219</b>
		6	3.0	AR 16101 <M2>	<b>56219</b>
	08.00 - 03.03	6	3.0	AR 16105 CF3 <M7>	<b>56219</b>
	08.00 - 02.06	4	2.0	AR 32310 <M6>	<b>56219</b>
	04.03 - 02.06	6	3.2	936A6.000 <M9>	<b>56219</b>

**159 1.8 TBi**

<b>939</b>	05.09 - 11.11	4	1.8	939 B1.000 <M66>	<b>560.060</b>
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**ASIA (ASIA MOTORS)****Rocsta**

<b>CA</b>	05.93 - 01.98	4	2.2	R2 <SOHC> (Diesel)	<b>22NF-330D</b>
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**Rocsta AWD**

<b>CA</b>	09.91 - 12.98	4	1.8	SOHC	<b>22NF-330D</b>
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**ASTON MARTIN****DB7**

	03.94 - 02.99	6	3.2	AJ6 Kompressor	<b>574.068</b>
	03.99 - 08.02	12	5.9		<b>60038</b>

**DB9**

	01.04 - 12.07	12	5.9		<b>60038</b>
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**DB9 Volante 5.9**

	03.13→	12	5.9		<b>LN5</b>
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**DB9 5.9**

	03.13→	12	5.9		<b>LN5</b>
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**Rapide S**

	03.13→	12	5.9		<b>LN5</b>
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**Vanquish**

	09.04 - 08.07	12	5.9	AM4R9	<b>60038</b>
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**Vanquish 5.9 Coupe**

	03.13→	12	5.9		<b>LN5</b>
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**Vantage**

	10.92 - 12.99	8	5.3	V8	<b>110D26R</b>
	04.07 - 09.08	8	4.3	AM6U5	<b>60038</b>
	06.11→	8	4.7	V8	<b>60038</b>

**Vantage V8 Roadster**

	09.12→	8	4.7	V8	<b>60038</b>
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**Volante**

	09.90 - 12.95	8	5.3		<b>110D26R</b>
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**AUDI**

**A1**

8X	05.10 - 04.15	4	1.4	CAXA <D4X>	START STOP	LN3
					SSN	56219

**A1 1.0 TFSI Sportback**

8X	03.15→	3	1.0	CHZB <DI6>		58014	560.060
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**A1 1.4 TFSI Sportback**

8X	11.11 - 04.15	4	1.4	CAVG <DP4>	START STOP	LN3
	11.14→	4	1.4	CZCA <D33>		560.060

**A1 1.8 TFSI Sportback**

8X	02.15→	4	1.8	DAJB <DIO>		58014	560.060
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**A3**

8L1	09.96 - 04.02	4	1.6	AEH; AVU		55066		
	09.96 - 06.03	4	1.8	AGN; AGU; APG; APP; AUM		56219		
	05.02 - 06.03	4	1.6	BFQ		56219		
8P1	05.03 - 05.05	4	1.6	BGU		56219		
	05.03 - 06.08	4	2.0	BKD (Diesel)		574.068		
	01.04 - 10.05	4	2.0	BLX; BLY; BMB		56219		
8PA	09.04 - 01.05	4	2.0	BLX		56219		
	09.04 - 10.05	4	2.0	AXX		56219		
	09.04 - 06.08	4	2.0	BKD (Diesel)		574.068		
	06.05 - 08.12	4	1.6	BSF <MW6>		55066		
	11.05 - 05.10	4	1.9	BLS <D3W> (Diesel)		574.068		
	03.06 - 06.08	4	2.0	BMN (Diesel)	START STOP	LN3		
					SSN	574.068		
	06.07 - 08.12	4	1.4	CAXC <D33>	BWD, START STOP	LN3		
	07.08 - 08.12	4	1.8	CDA A <D67>		560.060		
11.09 - 03.13	4	1.6	CAYC <D38> (Diesel)	BWD, START STOP	LN3			
						2.0	CFFB <D91> (Diesel)	575.068
8VS	05.13 - 08.16	4	1.8	CJSB <DF4>	START STOP	LN3		
	09.13→	4	1.4	CPTA <DF6>	START STOP	LN3		

**A3 Cabriolet**
















8P7	01.09 - 05.13	4	1.8	CDA A <D67>		560.060
			2.0	CCZA <D2L>		560.060

**A3 Quattro**

8L1	08.97 - 08.00	4	1.8	AGN; AGU		56219
8P1	07.03 - 08.04	6	3.2	BDB		58014
8PA	09.04 - 10.05	4	2.0	AXX		56219
8P1	09.04 - 10.05	6	3.2	BMJ		574.068
8PA	09.04 - 05.09	6	3.2	BMJ; BUB <D6D>		574.068

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



								
<b>8PA</b>	07.08 - 03.13	4	2.0	CCZA <D2L>			<b>560.060</b>	
<b>8VS</b>	11.13 - 08.16	4	1.8	CJSB <DF4>			<b>LN3</b>	
<b>A3 1.4 TFSI</b>								
<b>8V1</b>	04.12→	4	1.4	CMBA <D4X>; CPTA <DF6>			<b>LN3</b>	
	05.14 - 08.16	4	1.4	CZCA <D33>			<b>575.068</b>	
<b>A3 1.4 TFSI Cabriolet</b>								
<b>8V7</b>	05.14→	4	1.4	CZEA <DG6>			<b>575.068</b>	
<b>A3 1.4 TFSI Limousine</b>								
<b>8VS</b>	05.14→	4	1.4	CZEA <DG6>			<b>LN3</b>	
<b>A3 1.4 TFSI Sportback</b>								
<b>8VA</b>	05.14 - 08.16	4	1.4	CZCA <D33>			<b>LN3</b>	
<b>A3 1.8 T</b>								
<b>8L1</b>	05.00 - 06.03	4	1.8	AUQ			<b>560.060</b>	
<b>A3 2.0 FSI</b>								
<b>8P1</b>	05.03 - 05.04	4	2.0	AXW			<b>560.060</b>	
	01.05 - 10.05	4	2.0	BLR			<b>560.060</b>	
<b>A4</b>								
<b>8D2, B5</b>	11.94 - 07.98	4	1.8	AEB			<b>56219</b>	
		6	2.6	ABC			<b>56318</b>	<b>575.068</b>
	11.94 - 04.99	4	1.8	ADR			<b>54316</b>	
	03.96 - 06.00	6	2.8	ACK; APR			<b>574.068</b>	
	08.97 - 07.98	6	2.4	AGA; ALF			<b>574.068</b>	
	08.97 - 12.98	4	1.8	AJL			<b>54316</b>	
	08.98 - 07.99	6	2.4	APS			<b>574.068</b>	
	06.00 - 10.00	6	2.4	AMM			<b>56638</b>	<b>574.068</b>
<b>8E2, B6</b>	12.00 - 12.04	4	2.0	ALT			<b>56219</b>	
		6	3.0	ASN; BBJ			<b>574.068</b>	
	09.01 - 12.04	6	2.4	BDV			<b>56219</b>	
<b>8H7, B6</b>	04.02 - 12.05	4	1.8	BFB			<b>56219</b>	
	04.02 - 12.06	6	3.0	BBJ			<b>60038</b>	
<b>8E2, B6</b>	07.02 - 12.04	4	1.8	BFB			<b>56219</b>	
<b>8EC, B7</b>	11.04 - 05.05	4	2.0	BLB (Diesel)			<b>574.068</b>	
	11.04 - 05.06	6	3.0	BBJ			<b>60038</b>	
	01.05 - 06.08	6	3.2	AUK			<b>60038</b>	
<b>8HE, B7</b>	01.06 - 12.09	6	3.2	AUK			<b>60038</b>	
<b>8K2, B8</b>	11.07 - 03.12	4	2.0	CAGA <D92> (Diesel)			<b>LN3</b>	
						SSN	<b>574.068</b>	
				CAGB <D94> (Diesel)			<b>LN3</b>	
		6	2.7	CAMA <D4V> (Diesel); CGKA <D4V> (Diesel)			<b>574.068</b>	
	06.08 - 05.13	4	2.0	CDNB <D64>			<b>575.068</b>	
	11.09 - 12.15	4	2.0	CFKA <D64>			<b>LN3</b>	
<b>A4 Allroad 2.0 TDI</b>								
<b>8KH</b>	03.12 - 04.16	4	2.0	CGLD <D95> (Diesel)			<b>575.068</b>	





















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<b>8KH</b>	01.14 - 05.16	4	2.0	CNHA <DE5> (Diesel)		<b>560.060</b>
<b>A4 Avant</b>						
<b>8D5, B5</b>	11.94 - 07.98	6	2.6	ABC		<b>574.068</b>
	11.94 - 04.99	4	1.8	ADR; AEB		<b>56219</b>
	03.96 - 07.98	6	2.8	ACK		<b>574.068</b>
	08.97 - 07.98	6	2.4	AGA		<b>56219</b>
	08.97 - 09.01	4	1.8	AJL; APU		<b>54316</b>
	08.98 - 06.00	6	2.4	APS		<b>56219</b>
	06.00 - 09.01	6	2.4	AMM		<b>56638</b> <b>574.068</b>
<b>8E5, B6</b>	09.01 - 12.04	4	2.0	ALT		<b>56219</b>
	07.02 - 12.04	4	1.8	BEX; BFB		<b>56219</b>
<b>8ED, B7</b>	11.04 - 06.08	4	2.0	ALT; BRE (Diesel)		<b>574.068</b>
<b>8K5, B8</b>	04.08 - 03.12	4	2.0	CAGA <D92> (Diesel)	BWD,	<b>LN3</b>
					SSN	<b>574.068</b>
	06.08 - 05.13	4	2.0	CDNB <D64> CDNC <D2D>	BWD,	<b>575.068</b> <b>LN3</b>
<b>A4 Avant Avant</b>						
<b>8K5, B8</b>	06.08 - 03.12	6	2.7	CGKA <D4V> (Diesel)		<b>574.068</b>
<b>A4 Quattro</b>						
<b>8D2, B5</b>	11.94 - 07.98	6	2.6	ABC		<b>574.068</b>
	11.94 - 10.00	4	1.8	ADR; AEB; AJL		<b>56219</b>
	03.96 - 07.98	6	2.8	ACK		<b>574.068</b>
	08.97 - 07.98	6	2.4	AGA		<b>574.068</b>
	02.99 - 06.00	6	2.8	APR		<b>574.068</b>
	02.99 - 10.00	6	2.4	APS		<b>56638</b> <b>574.068</b>
<b>8E2, B6</b>	12.00 - 12.04	6	3.0	ASN; BBJ		<b>574.068</b>
<b>8EC, B7</b>	11.04 - 05.06	6	3.0	BBJ		<b>60038</b>
	09.05 - 06.08	4	2.0	BWE		<b>574.068</b>
	01.06 - 06.08	6	3.0	ASB <D1D> (Diesel)		<b>574.068</b>
<b>8K2, B8</b>	01.08 - 03.12	6	3.2	CALA <D6W>		<b>575.068</b>
	06.08 - 05.13	4	2.0	CDNC <D2D>	BWD,	<b>LN3</b>
<b>8K5, B8</b>	01.13 - 12.15	4	2.0	CNCD <DF7>		<b>LN4</b>
<b>A4 Quattro Avant</b>						
<b>8D5, B5</b>	11.94 - 07.98	6	2.6	ABC		<b>574.068</b>
	11.94 - 09.01	4	1.8	ADR; AJL		<b>56219</b>
	03.96 - 07.98	6	2.8	ACK		<b>574.068</b>
	08.98 - 09.01	6	2.4	APS		<b>56638</b> <b>574.068</b>
<b>8E5, B6</b>	09.01 - 06.02	4	1.8	AVJ		<b>56219</b>
<b>8ED, B7</b>	11.04 - 08.05	4	2.0	BGB		<b>574.068</b>
<b>8K5, B8</b>	06.08 - 05.13	4	2.0	CDNC <D2D>	BWD,	<b>LN3</b>
<b>A4 1.8 T Avant quattro</b>						
<b>8E5, B6</b>	09.01 - 01.05	4	1.8	AMB		<b>560.060</b>

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.

									
<b>A4 1.8 T quattro</b>									
8E2, B6	09.01 - 08.05	4	1.8	AMB			560.060		
<b>A4 2.0 TDI</b>									
8K2, B8	11.11 - 07.13	4	2.0	CJCA <D92> (Diesel)			575.068		
<b>A4 3.0 TFSI quattro</b>									
8K2, B8	01.12 - 12.14	6	3.0	CMUA <D08>			LN5		
<b>A5</b>									
8T3	06.07 - 03.12	6	3.2	CALA <D6W>		BWD	610.095		
	09.08 - 06.14	4	2.0	CDNB <D64>		BWD,SSN	610.095		
							LN3		
8TA	01.09 - 06.14	4	2.0	CDNB <D64>			575.068		
<b>A5 Cabriolet quattro</b>									
8F7	03.09 - 03.12	6	3.2	CALA <D6W>		BWD	610.095		
	03.09 - 05.13	4	2.0	CDNC <D2D>			LN3		
<b>A5 Coupe quattro</b>									
8T3	03.08 - 03.12	6	3.0	CCWA <D50> (Diesel)		BWD	610.095		
<b>A5 Quattro</b>									
8T3	11.07 - 03.12	6	3.2	CALA <D6W>		BWD	610.095		
	06.08 - 05.13	4	2.0	CDNC <D2D>			LN3		
<b>A5 Sportback Quattro</b>									
8TA	09.09 - 03.12	6	3.0	CCWA <D50> (Diesel)			60038		
	09.09 - 05.13	4	2.0	CDNC <D2D>		BWD, 	LN3		
<b>A5 2.0 TFSI Cabriolet quattro</b>									
8F7	01.13 - 05.16	4	2.0	CNCD <DF7>			LN4		
<b>A5 2.0 TFSI Coupe quattro</b>									
8T3	01.13 - 05.16	4	2.0	CNCD <DF7>			LN4		
<b>A5 2.0 TFSI Sportback quattro</b>									
8TA	01.13 - 05.16	4	2.0	CNCD <DF7>			LN4		
<b>A6</b>									
4A2, C4	06.94 - 10.97	6	2.6	ABC			56318	575.068	
			2.8	AAH			56318	575.068	
4B2, C5	04.97 - 07.98	6	2.8	ACK			56638	574.068	
	04.97 - 04.01	6	2.4	AGA; APS			56638	574.068	
	11.98 - 04.01	6	2.8	APR			56638	574.068	
	06.01 - 05.04	6	2.4	BDV				56219	
			3.0	ASN; BBJ				574.068	
4F2, C6	04.04 - 05.06	6	3.0	BBJ			58014		
	04.04 - 10.08	6	2.4	BDW			58014		
			3.2	AUK			58014		
	06.05 - 08.11	4	2.0	BPJ <D6G>			58014		
	11.06 - 10.08	6	2.8	BDX			58014		
10.08 - 08.11	4	2.0	CAHA <D93> (Diesel)			60038			



















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<b>4F2, C6</b>	10.08 - 08.11	6	2.7	CANA <D4V> (Diesel)	<b>60038</b>	
<b>A6 Allroad 3.0 TDI</b>						
<b>4G, C7</b>	01.14→	6	3.0	CRTE <DD5> (Diesel)	<b>58014</b>	
<b>A6 Avant</b>						
<b>4A5, C4</b>	06.94 - 06.96	6	2.6	ABC	<b>56638</b>	<b>574.068</b>
<b>4B5, C5</b>	04.97 - 06.00	6	2.4	AGA; APS	<b>56638</b>	<b>574.068</b>
	02.98 - 07.98	6	2.8	ACK	<b>56638</b>	<b>574.068</b>
<b>4BH, C5</b>	05.00 - 05.03	6	2.5	AKE (Diesel)	<b>60038</b>	
<b>4F5, C6</b>	03.05 - 10.08	6	2.4	BDW	<b>60038</b>	
	06.05 - 08.11	4	2.0	BPJ <D6G>	<b>58014</b>	
<b>4FH, C6</b>	05.06 - 10.08	6	3.0	ASB <D1D> (Diesel)	<b>60038</b>	
<b>A6 Quattro</b>						
<b>4A2, C4</b>	06.94 - 10.97	6	2.6	ABC	<b>56318</b>	<b>575.068</b>
			2.8	AAH	<b>56318</b>	<b>575.068</b>
<b>4B2, C5</b>	04.97 - 05.01	6	2.8	ACK; APR	<b>56638</b>	<b>574.068</b>
	11.98 - 06.99	6	2.4	APS	<b>56638</b>	<b>574.068</b>
<b>4B4, C5</b>	04.99 - 05.01	8	4.2	ARS	<b>56638</b>	<b>574.068</b>
	06.00 - 05.04	8	4.2	ASG	<b>574.068</b>	
<b>4B2, C5</b>	06.01 - 06.02	6	2.7	ARE	<b>574.068</b>	
	06.01 - 05.04	6	3.0	ASN	<b>574.068</b>	
	07.02 - 05.04	6	2.7	BES	<b>56638</b>	<b>574.068</b>
<b>4F2, C6</b>	04.04 - 05.06	6	3.0	BBJ	<b>58014</b>	
				BMK (Diesel)	<b>60038</b>	
	04.04 - 10.08	6	3.2	AUK	<b>58014</b>	
	04.04 - 08.11	8	4.2	BAT; BVJ <MN5>	<b>58014</b>	
	11.06 - 10.08	6	2.8	BDX	<b>58014</b>	
	10.08 - 08.11	6	2.8	CCEA <DB3>	<b>60038</b>	
				3.0	CDYA <D50> (Diesel); CDYC <D50> (Diesel)	<b>60038</b>
10.08 - 09.11	6	3.0	CAJA <D12>	<b>58014</b>		
				<b>60038</b>		
<b>A6 Quattro Avant</b>						
<b>4B5, C5</b>	02.98 - 12.98	6	2.8	ACK	<b>56638</b>	<b>574.068</b>
	11.98 - 06.99	6	2.4	APS	<b>56638</b>	<b>574.068</b>
<b>4BH, C5</b>	05.00 - 06.02	6	2.7	ARE	<b>60038</b>	
	07.02 - 08.05	6	2.7	BES	<b>56638</b>	<b>574.068</b>
		8	4.2	BAS	<b>60038</b>	
	06.03 - 08.05	6	2.5	BAU (Diesel)	<b>60038</b>	
<b>4F5, C6</b>	03.05 - 10.08	6	3.2	AUK	<b>60038</b>	
<b>A6 1.8 TFSI</b>						
<b>4G, C7</b>	01.14→	4	1.8	CYGA <DS3>	<b>58014</b>	
<b>A6 1.8 TFSI Avant</b>						
<b>4G, C7</b>	09.14→	4	1.8	CYGA <DS3>	<b>58014</b>	

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<b>A8</b>								
<b>4D2, D2</b>	06.94 - 03.96	6	2.8	AAH			<b>60038</b>	
	07.95 - 01.99	8	3.7	AEW; AKJ			<b>60038</b>	
<b>4E, D3</b>	06.05 - 07.10	6	3.2	BPK			<b>60038</b>	
<b>A8 Quattro</b>								
<b>4D2, D2</b>	06.94 - 02.01	8	4.2	ABZ; AQF			<b>60038</b>	
<b>4E, D3</b>	11.02 - 05.06	8	3.7	BFL			<b>56638</b>	<b>574.068</b>
			4.2	BFM			<b>56638</b>	<b>574.068</b>
	01.04 - 07.10	6	3.0	ASB <D1D> (Diesel)			<b>60038</b>	
	02.04 - 07.10	12	6.0	BHT			<b>60038</b>	
	06.05 - 07.10	6	3.2	BPK			<b>60038</b>	
	07.05 - 07.10	8	4.2	BVJ <MN5>; BVN (Diesel)			<b>60038</b>	
<b>4H, D4</b>	10.13 - 01.18	6	3.0	CTBA <DD7> (Diesel)			<b>60038</b>	
<b>Cabriolet</b>								
<b>8G7, B4</b>	01.93 - 09.98	4	2.0	ABK			<b>56318</b>	<b>575.068</b>
	01.94 - 08.00	6	2.6	ABC			<b>56318</b>	<b>575.068</b>
<b>Q3 2.0 TDI quattro</b>								
<b>8U</b>	01.12 - 04.15	4	2.0	CFFB <D91> (Diesel)			<b>LN3</b>	
	11.14 - 11.15	4	2.0	CUVC <DN4> (Diesel)			<b>560.060</b>	
<b>Q3 2.0 TFSI quattro</b>								
<b>8U</b>	11.14->	4	2.0	CULB			<b>560.060</b>	
<b>Q5</b>								
<b>8RB</b>	11.08 - 09.10	4	2.0	CAHA <D93> (Diesel)			<b>BWD,SSN</b>	<b>60038</b>
							<b>LN3</b>	
	11.08 - 09.12	6	3.0	CCWA <D50> (Diesel)			<b>BWD</b>	<b>610.095</b>
			3.2	CALB <DC0>			<b>BWD</b>	<b>610.095</b>
<b>Q5 Quattro</b>								
<b>8RB</b>	11.08 - 09.12	4	2.0	CDNC <D2D>			<b>LN3</b>	
<b>Q5 2.0 TFSI quattro</b>								
<b>8RB</b>	06.12 - 05.16	4	2.0	CNCD <DF7>			<b>60038</b>	
<b>Q7</b>								
<b>4LB</b>	03.06 - 05.10	8	4.2	BAR <T8T>; BTR <D1S> (Diesel)			<b>60038</b>	
	08.06 - 08.15	6	3.0	BUG <D1D> (Diesel); CASA <D50> (Diesel);			<b>60038</b>	
				CCMA <D50> (Diesel); CJTB <G1G>			<b>60038</b>	
	03.07 - 05.10	6	3.6	BHK <D3B>			<b>60038</b>	
	09.08 - 04.12	12	6.0	CCGA <D56> (Diesel)			<b>60038</b>	
05.10 - 08.15	8	4.1	CCFC <D57> (Diesel)			<b>60038</b>		
<b>Q7 3.0 TDI</b>								
<b>4LB</b>	05.11 - 08.15	6	3.0	CRCA <D43> (Diesel)			<b>LN5</b>	
<b>4MB</b>	01.15->	6	3.0	CRTC <DJ3> (Diesel)			<b>LN3</b>	
<b>RSQ3 Quattro</b>								
<b>8U</b>	10.13->	5	2.5	CTSA <DR2>			<b>LN4</b>	















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RSQ3 2.5 TFSI quattro							
8U	01.15→	5	2.5	CZGA <D07>		START STOP	LN4
RS4							
8D5, B5	05.00 - 09.01	6	2.7	ASJ; AZR			60038
RS6							
4B6	05.02 - 09.04	8	4.2	BCY; BRV			610.095
4B4	07.02 - 04.04	8	4.2	BCY			60038
RS7 Quattro							
4G	05.13 - 02.15	8	4.0	CRDB <DH7>		START STOP	LN5
R8 Quattro							
423	04.09 - 07.12	10	5.2	BUJ <D71>			60038
429	09.10 - 07.15	8	4.2	CNDA <DH6>			60038
R8 Spyder							
429	02.10 - 07.12	10	5.2	BUJ <D71>			60038
R8 4.2 FSI quattro							
423	09.10 - 07.15	8	4.2	CNDA <DH6>			60038
R8 5.2 FSI quattro							
423	09.12 - 07.15	10	5.2	CTYA <D71>			60038
R8 5.2 FSI Spyder quattro							
429	07.12 - 07.15	10	5.2	CTYA <D71>			60038
S2							
8C2, B4	02.93 - 05.95	5	2.2	ABY			56318 575.068
S3							
8L1	08.98 - 08.00	4	1.8	APY			574.068
	08.01 - 06.03	4	1.8	BAM			574.068
8P1	11.06 - 06.08	4	2.0	BHZ; BZC			574.068
	07.08 - 03.13	4	2.0	CDLC <D81>			575.068
S3 Sportback Quattro							
8PA	07.08 - 03.13	4	2.0	CDLC <D81>			575.068
S3 2.0 TFSI Limousine quattro							
8VS	05.14 - 08.16	4	2.0	CJXF <DQ8>		START STOP	LN3
S4							
4A2, C4	07.92 - 07.94	5	2.2	AAN			56318 575.068
8D2, B5	10.97 - 10.00	6	2.7	AGB			58014
8D5, B5	10.97 - 09.01	6	2.7	AGB			58014
8E2, B6	03.03 - 12.04	8	4.2	BBK			58014
8E5, B6	03.03 - 12.04	8	4.2	BBK			58014
8H7, B7	02.04 - 12.05	8	4.2	BBK			55457 560.060
8ED, B7	11.04 - 06.08	8	4.2	BBK			60038

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<b>S4 Quattro</b>								
<b>8K2, B8</b>	03.09 - 03.12	6	3.0	CAKA <D11>				<b>58014</b>
<b>S4 3.0 TFSI Avant quattro</b>								
<b>8K5, B8</b>	05.14 - 12.15	6	3.0	CREC <D11>				<b>575.068</b>
<b>S5 Cabriolet quattro</b>								
<b>8F7</b>	06.09 - 09.11	6	3.0	CAKA <D11>				<b>575.068</b>
<b>S5 Sportback Quattro</b>								
<b>8TA</b>	01.10 - 09.11	6	3.0	CAKA <D11>				<b>610.095</b>
<b>S6</b>								
<b>4B4, C5</b>	09.99 - 05.04	8	4.2	ANK; AQJ				<b>60038</b>
<b>S8</b>								
<b>4D2</b>	09.96 - 12.98	8	4.2	AHC				<b>60038</b>
	09.00 - 09.02	8	4.2	AVP				<b>60038</b>
<b>TT</b>								
<b>8N3</b>	07.98 - 06.06	4	1.8	AJQ; APX; ARY; AUM; AUQ; BAM				<b>56219</b>
<b>8J3</b>	07.06 - 06.14	4	2.0	BWA <D2L>; CBBB <D93> (Diesel); CESA <D2D>				<b>58014</b>
	06.08 - 06.14	4	1.8	CDA A <D67>				<b>58014</b>
<b>TT Quattro</b>								
<b>8J3</b>	07.06 - 06.10	6	3.2	BUB <D6D>				<b>58014</b>
	06.08 - 06.14	4	2.0	CCTA <D2L>; CCZA <D2L>; CESA <D2D>; CFGB <D93> (Diesel)				<b>58014</b>
<b>TT Quattro Roadster</b>								
<b>8N9</b>	03.99 - 08.01	4	1.8	APX				<b>55457</b> <b>560.060</b>
	09.00 - 06.06	4	1.8	ARY; BAM				<b>56318</b> <b>575.068</b>
	07.03 - 06.06	6	3.2	BHE				<b>56318</b> <b>575.068</b>
<b>8J9</b>	02.07 - 06.10	6	3.2	BUB <D6D>				<b>58014</b>
<b>TT Roadster</b>								
<b>8N9</b>	08.00 - 06.06	4	1.8	AUQ				<b>56318</b> <b>575.068</b>
<b>8J9</b>	02.07 - 06.10	4	2.0	BWA <D2L>				<b>58014</b>
<b>TT Roadster Quattro</b>								
<b>8J9</b>	05.10 - 06.14	4	2.0	CESA <D2D>				<b>58014</b>
<b>TT RS Quattro</b>								
<b>8J3</b>	07.09 - 06.14	5	2.5	CEPA <D07>				<b>58014</b>
<b>TT 1.8 TFSI Roadster</b>								
<b>8J9</b>	06.08 - 06.14	4	1.8	CDA A <D67>				<b>58014</b>
<b>TT 2.0 TFSI Coupe</b>								
<b>FV3</b>	11.14->	4	2.0	CHHC <TP6>				<b>LN3</b>
<b>TT 2.0 TFSI Coupe quattro</b>								
<b>FV3</b>	07.14->	4	2.0	CHHC <TP6>				<b>LN3</b>
<b>TT 2.0 TFSI Roadster</b>								
<b>FV9</b>	11.14->	4	2.0	CHHC <TP6>				<b>58014</b>





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**TT 2.0 TFSI Roadster quattro**

8J9	06.08 - 06.10	4	2.0	CCZA <D2L>	58014	
FV9	11.14→	4	2.0	CHHC <TP6>	58014	

**TTS Quattro**

8J3	05.08 - 06.14	4	2.0	CDLB <D14>	58014	
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**TTS Roadster Quattro**

8J9	05.08 - 06.14	4	2.0	CDLB <D14>	58014	
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**TTS 2.0 TFSI Coupe quattro**

FV3	11.14→	4	2.0	CJXG <D02>	58014	
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**TTS 2.0 TFSI Roadster quattro**

FV9	02.15→	4	2.0	CJXG <D02>	58014	
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**V8 Quattro**

44, 4C, D11	09.90 - 12.92	8	3.6	PT	60038	
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**80**

89, 8A2, B3	09.86 - 12.91	4	1.8	JN	55457	560.060
	08.88 - 10.90	4	2.0	3A	56318	575.068
8C2, B4	09.90 - 11.94	5	2.3	NG	56318	575.068
	09.91 - 05.95	4	2.0	ABK	56318	575.068
		6	2.8	AAH	56318	575.068
07.92 - 05.95	6	2.6	ABC	56318	575.068	

**80 Quattro**

8C2, B4	09.91 - 11.94	5	2.3	NG	56318	575.068
	09.91 - 12.94	4	2.0	ABK	56318	575.068
	09.91 - 05.95	6	2.8	AAH	56318	575.068
	07.92 - 05.95	6	2.6	ABC	56318	575.068

**90**

89, 8A2, B3	04.87 - 12.92	5	2.3	NG; 7A	56318	575.068
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**90 Quattro**

89, 8A2, B3	04.87 - 01.92	5	2.3	NG; 7A	56318	575.068
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**100**

44, 44Q, C3	09.84 - 12.90	5	2.2	KU	56318	575.068
	08.86 - 08.91	5	2.3	NF	56318	575.068
4A2, C4	12.90 - 07.94	6	2.8	AAH	56318	575.068
	04.92 - 07.94	6	2.6	ABC	56318	575.068

**100 Quattro**

44, 44Q, C3	08.84 - 11.90	5	2.2	KU	56318	575.068
4A2, C4	03.92 - 07.94	6	2.6	ABC	56318	575.068

**200**

44, C3	08.85 - 12.91	5	2.2	MC	56318	575.068
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\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.





BENTLEY						
<b>200 Quattro</b>						
<b>44, C3</b>	01.85 - 12.90	5	2.2	MC		56318 575.068
<b>Arnage</b>						
	04.98 - 09.00	8	4.4	<Cosworth V8>		55D26R 110D26R
	04.99 - 08.08	8	6.8	; L410IT <EMS3>		55D26R 110D26R
<b>Azure</b>						
	08.99 - 06.06	8	6.8	L410IT		55D26R 110D26R
				L410MT 1T		110D26R
	06.06 - 12.09	8	6.8			110D26R
<b>Brooklands</b>						
	07.92 - 08.97	8	6.8	L 410I; L 410 MN 1T		55D26R 110D26R
<b>Continental</b>						
	03.91 - 08.99	8	6.8	L 410 IT		55D26R 110D26R
<b>Continental Cabrio Supersports</b>						
	03.10 - 12.11	12	6.0	BWRB <M86>		575.068
<b>Continental Flying Spur</b>						
	07.10 - 05.13	12	6.0	CKHC		575.068
<b>Continental GT</b>						
	06.03 - 10.10	12	6.0	BEB		55D26R 110D26R
	05.06 - 07.10	12	6.0	BWRA		575.068
	01.12 - 12.14	8	4.0	CMMC		60038
<b>Continental GT 4.0 V8</b>						
	01.14->	8	4.0	CYCB		560.060
<b>Continental GTC Speed 6.0</b>						
	09.12 - 05.14	12	6.0	CVAA		560.060
<b>Continental GTC 4.0 V8</b>						
	01.14->	8	4.0	CYCB		560.060
<b>Continental Supersports ISR 6.0 Cabrio</b>						
	03.11 - 12.11	12	6.0	CKHE <DL9>		60038
<b>Eight</b>						
	09.84 - 09.92	8	6.8	L 410I <OHV>		55D26R 110D26R
<b>Flying Spur 6.0 W12</b>						
	03.13 - 05.15	12	6.0	CVAA		60038
<b>Mulsanne</b>						
	09.09 - 05.15	8	6.8	CKB <DH5>		60038
<b>Turbo R</b>						
	11.91 - 07.99	8	6.8	; L 410 MT; L410MT 1T		55D26R 110D26R





**BMW**

**ActiveHybrid 3**

F 30	09.12 - 05.15	6	3.0	N55 B30A	START STOP	LN5
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**M 235 i Cabrio**

F 23	11.14 - 06.16	6	3.0	N55 B30A <NG6>	START STOP	LN4
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**M3**

E 36	09.92 - 09.95	6	3.0	30 6S 1 <S 50 B 30..>		56638	574.068
	10.95 - 12.98	6	3.2	32 6S 1/3 <S 50 B 32..>		56638	574.068
E 46	09.00 - 05.06	6	3.2	32 6S 4 <S 54 B 32>		56638	574.068
E 92	05.07 - 06.13	8	4.0	S65 B40A	YQ4	574.068	
E 90	11.07 - 10.11	8	4.0	S65 B40A	BWD, START STOP	LN3	

**M3 Cabriolet**

E 46	04.01 - 08.06	6	3.2	32 6S 4 <S 54 B 32>		58014	
E 93	03.08 - 10.13	8	4.0	S65 B40A	BWD, START STOP	LN3	

**M3 CSL**

E 46	03.03 - 12.03	6	3.2	32 6S 4 <S 54 B 32>		574.068	
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**M5**

E 34	10.88 - 12.93	6	3.6	36 6S 1 <S 38 B 36>		60038	
E 39	10.98 - 07.03	8	5.0	50 8S 1 <S 62 B 50>		60038	
E 60	11.04 - 12.09	10	5.0	S85 B50A		60038	

**M235i Coupe**

F 22	03.14 - 08.16	6	3.0	N55 B30A	START STOP	LN4	
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**X 1 sDrive 18 d**

F 48	10.15→	4	2.0	B47 C20A (Diesel)	START STOP	LN4	
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**X 1 xDrive 25 i**

F 48	10.15→	4	2.0	B48 A20B <B48>	START STOP	LN4	
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**X 4 xDrive 20 d**

F 26	06.14→	4	2.0	B47 D20A (Diesel)	START STOP	LN5	
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**X 4 xDrive 20 i**

F 26	06.14→	4	2.0	N20 B20A	START STOP	LN5	
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**X 4 xDrive 30 d**

F 26	06.14→	6	3.0	N57 D30A (Diesel)	START STOP	LN5	
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**X 4 xDrive 35 d**

F 26	06.14→	6	3.0	N57 D30B (Diesel)	START STOP	LN5	
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**X 4 xDrive 35 i**

F 26	06.14→	6	3.0	N55 B30A	START STOP	LN5	
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**X 5 M**

F 85	03.15→	8	4.4	S63 B44B	START STOP	LN5	
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\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.












Model	Year Range	Cyl.	CC	Engine Code	Start/Stop Icon	Part Number
<b>X 5 sDrive 25 d</b>						
F 15	12.13 - 07.15	4	2.0	N47 D20D (Diesel)		LN5
<b>X 5 xDrive 30 d</b>						
F 15	11.13 →	6	3.0	N57 D30A <N57> (Diesel)		LN5
<b>X 5 xDrive 40 d</b>						
F 15	03.14 →	6	3.0	N57 D30B (Diesel)		LN5
<b>X 6 M</b>						
F 86	03.15 →	8	4.4	S63 B44B		LN5
<b>X 6 xDrive 30 d</b>						
F 16	11.14 →	6	3.0	N57 D30A (Diesel)		LN5
<b>X1 sDrive</b>						
E 84	03.10 - 06.15	4	2.0	N46 B20B		LN3
<b>X1 sDrive d</b>						
E 84	10.09 - 06.12	4	2.0	N47 D20C (Diesel)	BWD,	LN3
<b>X1 xDrive d</b>						
E 84	10.09 - 06.12	4	2.0	N47 D20C (Diesel); N47 D20D (Diesel)	BWD,	LN3
<b>X3</b>						
E 83	01.04 - 08.08	6	3.0	N52 B30... <NG6>; 30 6D 3 <M 57N2> (Diesel); 30 6S 3 <M 54>		60038
	03.04 - 08.08	6	2.5	N52 B25... <NG6>; 25 6S 5 <M 54>		60038
	10.04 - 09.07	4	2.0	20 4D 4 <M 47N> (Diesel)		60038
<b>X3 xDrive</b>						
E 83	09.08 - 08.10	6	2.5	N52 B25... <NG6>		60038
					BWD,	LN3
			3.0	N52 B30... <N52N>	BWD,	LN3
<b>X3 xDrive d</b>						
E 83	09.08 - 08.10	6	3.0	30 6D 3 <M 57N2> (Diesel)		60038
F 25	10.10 - 08.17	4	2.0	N47 D20C (Diesel)		LN5
	04.11 - 08.17	6	3.0	N57 D30A (Diesel)		LN5
<b>X3 xDrive i</b>						
F 25	04.12 - 08.17	4	2.0	N20 B20A		LN5
<b>X3 xDrive 20d</b>						
F 25	04.14 - 08.17	4	2.0	B47 D20A (Diesel)		LN5
<b>X5</b>						
E 53	03.99 - 10.06	8	4.4	N62 B44A <NGV8>; 44 8S 2 <M 62 B 44>		60038
	10.99 - 10.06	6	3.0	30 6D 1 <M 57 D 30> (Diesel); 30 6D 2 <M 57N> (Diesel); 30 6S 3 <M 54>		60038
	02.02 - 09.03	8	4.6	46 8S 1 <M 62 B 46>		60038
	03.04 - 10.06	8	4.8	N62 B48A <NGV8>		60038
E 70	11.06 - 09.08	6	3.0	N52 B30... <NG6>; 30 6D 3 <M 57N2> (Diesel); 30 6D 5 (Diesel)		60038



							
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<b>E 70</b>	11.06 - 09.08	8	4.8	N62 B48B <NGV8>			<b>60038</b>
<b>X5 xDrive</b>							
<b>E 70</b>	10.08 - 03.10	8	4.8	N62 B48B <NGV8>			<b>60038</b>
<b>X5 xDrive d</b>							
<b>E 70</b>	10.08 - 03.10	6	3.0	30 6D 3 <M 57N2> (Diesel)			<b>60038</b>
	04.10 - 06.13	6	3.0	N57 D30A (Diesel); N57 D30B <N57Z> (Diesel)			<b>LN5</b>
<b>X6 xDrive</b>							
<b>E 71</b>	05.08 - 03.10	6	3.0	30 6D 5 (Diesel)			<b>60038</b>
<b>Z3</b>							
<b>E 36/7</b>	09.95 - 12.99	4	1.9	19 4S 1 <M 44 B 19>			<b>56638</b> <b>574.068</b>
	11.96 - 08.00	6	2.8	28 6S 1/2 <M 52 B 28>			<b>574.068</b>
	04.99 - 12.00	6	2.0	20 6S 4 <M 52 B 20>			<b>56638</b> <b>574.068</b>
	05.00 - 06.02	6	3.0	30 6S 3 <M 54>			<b>56638</b> <b>574.068</b>
	09.00 - 09.02	6	2.2	22 6S 1 <M 54>			<b>56638</b> <b>574.068</b>
<b>Z4</b>							
<b>E 85</b>	10.02 - 11.05	6	2.5	25 6S 5 <M 54>			<b>56638</b> <b>574.068</b>
			3.0	30 6S 3 <M 54>			<b>56638</b> <b>574.068</b>
	02.06 - 08.08	6	3.0	N52 B30... <NG6>			<b>56638</b> <b>574.068</b>
			3.2	32 6S 4 <S 54 B 32>			<b>56638</b> <b>574.068</b>
<b>116i</b>							
<b>E 87</b>	09.04 - 06.11	4	1.6	N45 B16A <NG4>			<b>55066</b>
<b>F 20</b>	09.11 - 02.15	4	1.6	N13 B16A			<b>60038</b>
<b>118 d</b>							
<b>F 20</b>	09.11 - 02.15	4	2.0	N47 D20C (Diesel)			<b>LN4</b>
<b>118 i</b>							
<b>F 20</b>	09.11 - 02.15	4	1.6	N13 B16A			<b>LN3</b>
<b>118d</b>							
<b>E 87</b>	03.07 - 06.11	4	2.0	N47 D20... (Diesel)	BWD, 		<b>LN3</b>
<b>118d Cabriolet</b>							
<b>E 88</b>	09.08 - 10.13	4	2.0	N47 D20... (Diesel)	BWD, 		<b>LN3</b>
<b>118i</b>							
<b>E 87</b>	11.04 - 03.07	4	2.0	N46 B20B <NG4>			<b>55066</b>
	03.07 - 06.11	4	2.0	N43 B20A <NG4>			<b>LN3</b>
				N46 B20B <NG4>			<b>LN3</b>
<b>120 i</b>							
<b>F 20</b>	03.15 - 06.16	4	1.6	N13 B16A			<b>LN4</b>
<b>120d</b>							
<b>E 87</b>	09.04 - 03.07	4	2.0	20 4D 4 <M 47N> (Diesel)			<b>58014</b>
	03.07 - 06.11	4	2.0	N47 D20... (Diesel)	BWD, 		<b>LN3</b>
					SSN		<b>58014</b>

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.

							
<b>120i</b>							
E 87	09.04 - 03.07	4	2.0	N46 B20... <NG4>			<b>56219</b>
<b>120i Coupe</b>							
E 82	09.09 - 10.13	4	2.0	N46 B20... <NG4>			<b>LN3</b>
<b>123d</b>							
E 87	09.07 - 06.11	4	2.0	N47 D20... (Diesel)			<b>LN3</b>
<b>123d Cabriolet</b>							
E 88	09.08 - 09.13	4	2.0	N47 D20... (Diesel)	BWD, 		<b>LN3</b>
<b>123d Coupe</b>							
E 82	10.07 - 09.13	4	2.0	N47 D20... (Diesel)	BWD, 		<b>LN3</b>
<b>125i Coupe</b>							
E 82	03.08 - 09.13	6	3.0	N52 B30... <NG6>			<b>LN3</b>
<b>130i</b>							
E 87	09.05 - 08.09	6	3.0	N52 B30... <NG6>			<b>56219</b>
<b>135i Cabriolet</b>							
E 88	03.08 - 10.13	6	3.0	N54 B30A <NG6>; N55 B30A <NG6>			<b>58014</b>
<b>135i Coupe</b>							
E 82	10.07 - 02.10	6	3.0	N54 B30A <NG6>			<b>60038</b>
<b>218 d Active Tourer</b>							
F 45	09.14->	4	2.0	B47 C20A (Diesel)			<b>58014</b>
<b>220 i Cabrio</b>							
F 23	11.14 - 06.16	4	2.0	N20 B20...			<b>LN4</b>
<b>220d Coupe</b>							
F 22	03.14 - 10.14	4	2.0	N47 D20C (Diesel)			<b>LN4</b>
<b>220i Coupe</b>							
F 22	03.14 - 08.16	4	2.0	N20 B20...			<b>58014</b>
<b>316 i</b>							
F 30	07.12 - 07.15	4	1.6	N13 B16A			<b>LN5</b>
<b>316i</b>							
E 46	02.02 - 03.04	4	1.8	N42 B18A <NG4>			<b>56638</b> <b>574.068</b>
<b>316i Compact</b>							
E 36	03.94 - 09.00	4	1.6	16 4E 2 <M 43 B 16>			<b>55457</b> <b>560.060</b>
	09.95 - 09.00	4	1.6	16 4E 2 <M 43 B 16..Gas CNG>			<b>56219</b>
	12.98 - 09.00	4	1.9	19 4E 1 <M 43 B 19>			<b>55457</b> <b>560.060</b>
<b>316ti Compact</b>							
E 36	09.94 - 09.96	4	1.8	18 4S 1 <M 42 B 18>			<b>55457</b> <b>560.060</b>
	12.95 - 09.00	4	1.9	19 4S 1 <M 44 B 19>			<b>55457</b> <b>560.060</b>
E 46	06.01 - 12.04	4	1.8	N42 B18A <NG4>; N46 B18A <NG4>			<b>56638</b> <b>574.068</b>
	04.04 - 12.04	4	1.6	N45 B16A <NG4>			<b>56638</b> <b>574.068</b>













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318 i							
F 30	07.15→	3	1.5	B38 B15A	START STOP	LN4	
318d							
F 30	03.12 - 06.15	4	2.0	N47 D20C (Diesel)	START STOP	LN4	
318i							
E 30	09.87 - 12.91	4	1.8	18 4E 1 <M 40 B 18>		56219	
	07.88 - 12.92	4	1.8	18 4E 1 <M40 B18>		55457	560.060
E 36	12.90 - 12.98	4	1.8	18 4E 1 <M 40 B 18>; 18 4E 2 <M 43 B 18>		55457	560.060
	03.92 - 10.96	4	1.8	18 4S 1 <M 42 B 18>		60038	
E 46	11.98 - 09.01	4	1.9	19 4E 1 <M 43 B 19>		56219	
	09.01 - 03.05	4	2.0	N42 B20A <NG4>; N46 B20... <NG4>		56638	574.068
318i Cabriolet							
E 30	09.90 - 12.93	4	1.8	18 4E 1 <M 40 B 18>		56219	
318iS							
E 30	09.89 - 12.91	4	1.8	18 4S 1 <M 42 B 18>		56219	
E 36	03.92 - 12.96	4	1.8	18 4S 1 <M 42 B 18>		55457	560.060
	03.95 - 08.99	4	1.9	19 4S 1 <M 44 B 19>		55457	560.060
318ti Compact							
E 46	04.04 - 12.04	4	2.0	N46 B20... <NG4>		56638	
					YQ4	574.068	
320 d							
F 30	07.15→	4	2.0	B47 D20A (Diesel)	START STOP	LN4	
320 i GT							
F 34	06.13 - 06.16	4	2.0	N20 B20...	START STOP	LN5	
320Ci							
E 46	09.00 - 05.06	6	2.2	22 6S 1 <M 54>		56638	574.068
320d							
E 90	03.05 - 09.07	4	2.0	20 4D 4 <M 47N> (Diesel)	START STOP	LN5	
	09.07 - 03.10	4	2.0	N47 D20... (Diesel)	SSN, BWD, START STOP	58014	LN5
F 30	02.12 - 06.16	4	2.0	N47 D20C (Diesel)		60038	
320d Cabriolet							
E 93	03.08 - 02.10	4	2.0	N47 D20... (Diesel)	BWD, START STOP	LN5	
320d Coupe							
E 92	03.07 - 02.10	4	2.0	N47 D20... (Diesel)	BWD, START STOP	LN5	
					SSN	60038	
	09.08 - 02.10	4	2.0	N47 D20C (Diesel)	BWD, START STOP	LN5	
320d Touring							
E 91	09.07 - 02.10	4	2.0	N47 D20... (Diesel); N47 D20C (Diesel)	BWD, START STOP	LN5	

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



								
<b>320i</b>								
E 30	12.85 - 12.91	6	2.0	20 6E E/20 6KA <M 20 B 20>			<b>56219</b>	
E 36	09.89 - 12.95	6	2.0	20 6S 1/2 <M 50 B 20>			<b>575.068</b>	
E 46	09.00 - 03.05	6	2.2	22 6S 1 <M 54>			<b>56638</b>	<b>574.068</b>
E 90	03.05 - 12.11	4	2.0	N46 B20... <NG4>			<b>55066</b>	
<b>320i Touring</b>								
E 46	09.00 - 09.05	6	2.2	22 6S 1 <M 54>			<b>56638</b>	<b>574.068</b>
E 91	09.05 - 05.12	4	2.0	N46 B20... <NG4>			<b>55066</b>	
<b>323Ci</b>								
E 46	04.98 - 09.00	6	2.5	25 6S 4 <M 52 B 25>			<b>56638</b>	<b>574.068</b>
<b>323Ci Cabriolet</b>								
E 46	03.00 - 09.00	6	2.5	25 6S 4 <M 52 B 25>			<b>58014</b>	
<b>323i</b>								
E 36	10.94 - 06.99	6	2.5	25 6S 3 <M 52 B 25>			<b>575.068</b>	
E 46	04.98 - 10.00	6	2.5	25 6S 4 <M 52 B 25>			<b>56638</b>	<b>574.068</b>
E 90	09.05 - 12.11	6	2.5	N52 B25... <NG6>		YQ4	<b>574.068</b>	
<b>323i Cabriolet</b>								
E 36	05.95 - 09.99	6	2.5	25 6S 3 <M 52 B 25>			<b>575.068</b>	
<b>323i Coupe</b>								
E 92	09.06 - 02.12	6	2.5	N52 B25A.. <NG6>		YQ4	<b>574.068</b>	
<b>323i Touring</b>								
E 91	09.05 - 05.12	6	2.5	N52 B25A.. <NG6>		YQ4	<b>574.068</b>	
<b>323ti</b>								
E 36	06.97 - 09.00	6	2.5	25 6S 3 <M 52 B 25>			<b>575.068</b>	
<b>325Ci</b>								
E 46	09.00 - 05.06	6	2.5	25 6S 5 <M 54>			<b>56638</b>	<b>574.068</b>
<b>325Ci Cabriolet</b>								
E 46	09.00 - 08.06	6	2.5	25 6S 5 <M 54>			<b>58014</b>	
<b>325i</b>								
E 30	12.86 - 12.91	6	2.5	25 6K 1 <M 20 B 25 Kat.>			<b>56638</b>	
						YQ4	<b>574.068</b>	
E 36	09.90 - 12.95	6	2.5	25 6S 1/2 <M 50 B 25>			<b>575.068</b>	
	03.92 - 12.95	6	2.5	25 6S 1/2 <M 50 B 25>			<b>56318</b>	<b>575.068</b>
E 46	09.00 - 03.05	6	2.5	25 6S 5 <M 54>			<b>56638</b>	<b>574.068</b>
E 90	03.05 - 12.11	6	2.5	N52 B25... <NG6>			<b>56638</b>	<b>574.068</b>
<b>325i Cabriolet</b>								
E 36	03.93 - 12.95	6	2.5	25 6S 2 <M 50 B 25>			<b>575.068</b>	
E 93	03.07 - 09.13	6	2.5	N52 B25... <NG6>		YQ4	<b>574.068</b>	
<b>325i Coupe</b>								
E 92	09.06 - 06.13	6	2.5	N52 B25... <NG6>		YQ4	<b>574.068</b>	





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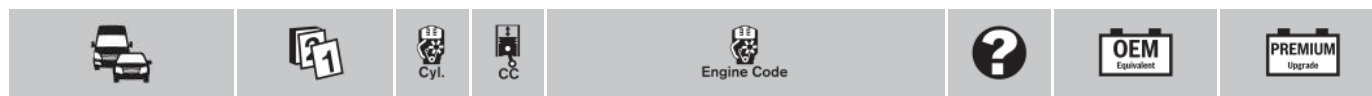
325ti Compact							
E 46	06.01 - 12.04	6	2.5	25 6S 5 <M 54>			56638 574.068
328 i GT							
F 34	06.13 - 06.16	4	2.0	N20 B20A	START STOP		LN5
328Ci							
E 46	04.98 - 09.00	6	2.8	28 6S 2 <M 52 B 28>			56638 574.068
328i							
E 36	10.94 - 06.99	6	2.8	28 6S 1 <M 52 B 28>			575.068
E 46	11.98 - 09.00	6	2.8	28 6S 2 <M 52 B 28>			55457 560.060
330 i							
F 30	07.15→	4	2.0	B48 B20B	START STOP		LN4
330 i Touring							
F 31	07.15→	4	2.0	B48 B20B	START STOP		LN4
330Ci							
E 46	05.00 - 05.06	6	3.0	30 6S 3 <M 54>			56638 574.068
330Ci Cabriolet							
E 46	05.00 - 08.06	6	3.0	30 6S 3 <M 54>			58014
330d							
E 90	09.08 - 12.11	6	3.0	N57 D30A (Diesel)	BWD, START STOP		LN5
330d Cabriolet							
E 93	03.09 - 09.13	6	3.0	N57 D30A (Diesel)	BWD, START STOP		LN5
330d Coupe							
E 92	09.08 - 06.13	6	3.0	N57 D30A (Diesel)	BWD, START STOP		LN5
330i							
E 46	05.00 - 04.05	6	3.0	30 6S 3 <M 54>			56638 574.068
E 90	03.05 - 12.11	6	3.0	N52 B30... <NG6>			56638 574.068
335i							
E 90	09.06 - 03.10	6	3.0	N54 B30A <NG6>			574.068
335i Cabriolet							
E 93	03.07 - 02.10	6	3.0	N54 B30A <NG6>	YQ4		574.068
	03.10 - 10.13	6	3.0	N55 B30A <NG6>			575.068
335i Coupe							
E 92	09.06 - 02.10	6	3.0	N54 B30A <NG6>	YQ4		574.068
	03.10 - 06.13	6	3.0	N55 B30A <NG6>			575.068
335i Touring							
E 91	09.06 - 02.10	6	3.0	N54 B30A <NG6>	YQ4		574.068
	03.10 - 05.12	6	3.0	N55 B30A <NG6>			575.068
340 i							
F 30	07.15→	6	3.0	B58 B30A	START STOP		LN4

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



								
<b>420 i Cabrio</b>								
F 33	06.14 - 02.16		4	2.0	N20 B20B		<b>LN5</b>	
<b>428 i Coupe</b>								
F 32	09.13 - 02.16		4	2.0	N20 B20A		<b>LN5</b>	
<b>518 d</b>								
F 10	07.13 - 06.14		4	2.0	N47 D20C <N47N> (Diesel)		<b>LN5</b>	
<b>520 d GT</b>								
F 07	07.12 - 02.17		4	2.0	N47 D20C (Diesel)		<b>LN5</b>	
<b>520d</b>								
E 60	09.07 - 02.10		4	2.0	N47 D20... (Diesel)	BWD, 	<b>LN5</b>	
						SSN	<b>60038</b>	
F 10	05.10 - 10.16		4	2.0	N47 D20C <N47N> (Diesel)		<b>LN3</b>	
<b>520i</b>								
E 34	09.89 - 12.95		6	2.0	20 6S 1/2 <M 50 B 20>		<b>55066</b>	<b>560.060</b>
							<b>55457</b>	<b>560.060</b>
E 60	09.07 - 02.10		4	2.0	N43 B20A <NG4>		<b>58014</b>	
							<b>58515</b>	
<b>523i</b>								
E 39	09.95 - 09.00		6	2.5	25 6S 3/4 <M 52 B 25>		<b>56638</b>	<b>574.068</b>
E 60	03.05 - 02.10		6	2.5	N52 B25... <NG6>; N53 B25A <NG6>		<b>58014</b>	
<b>525i</b>								
E 34	01.88 - 12.95		6	2.5	25 6K 1 <M 20 B 25>; 25 6S 1/2 <M 50 B 25>		<b>56638</b>	<b>574.068</b>
E 39	09.00 - 07.03		6	2.5	25 6S 5 <M 54>		<b>56638</b>	<b>574.068</b>
E 60	09.03 - 02.10		6	2.5	N52 B25... <NG6>; 25 6S 5 <M 54>		<b>58014</b>	
	03.07 - 02.10		6	3.0	N53 B30A <NG6>		<b>58014</b>	
<b>528i</b>								
E 39	09.95 - 09.00		6	2.8	28 6S 1/2 <M 52 B 28>		<b>56638</b>	<b>574.068</b>
<b>528i Touring</b>								
E 39	01.97 - 09.00		6	2.8	28 6S 1/2 <M 52 B 28>		<b>56638</b>	<b>574.068</b>
<b>530d</b>								
E 60	09.05 - 02.10		6	3.0	30 6D 3 <M 57N2> (Diesel)		<b>60038</b>	
F 10	03.10 - 08.11		6	3.0	N57 D30A <N57> (Diesel)		<b>LN5</b>	
<b>530i</b>								
E 34	09.92 - 12.95		8	3.0	30 8S 1 <M 60 B 30>		<b>56638</b>	<b>574.068</b>
E 39	09.00 - 07.03		6	3.0	30 6S 3 <M 54>		<b>60038</b>	
E 60	07.03 - 02.10		6	3.0	N52 B30... <NG6>; N53 B30A <NG6>; 30 6S 3 <M 54>		<b>58014</b>	
<b>530i Touring</b>								
E 39	09.00 - 05.04		6	3.0	30 6S 3 <M 54>		<b>60038</b>	
E 61	03.05 - 03.10		6	3.0	N52 B30... <NG6>		<b>58014</b>	
	03.07 - 08.10		6	3.0	N53 B30A <NG6>		<b>60038</b>	





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535i							
E 34	01.88 - 04.93	6	3.5	34 6K B <M 30 B 35>		56638	574.068
E 39	01.96 - 07.03	8	3.5	35 8S 1/2 <M 62 B 35>		60038	
540i							
E 34	09.92 - 09.95	8	4.0	40 8S 1 <M 60 B 40>		60038	
E 39	01.96 - 07.03	8	4.4	44 8S 1/2 <M 62 B 44>		60038	
E 60	09.05 - 02.10	8	4.0	N62 B40A <NGV8>		60038	
545i							
E 60	09.03 - 09.05	8	4.4	N62 B44A <NGV8>		60038	
550 i							
F 10	07.13 - 10.16	8	4.4	N63 B44B		LN5	
550i							
E 60	09.05 - 02.10	8	4.8	N62 B48B <NGV8>		60038	
640 d GC							
F 06	05.12→	6	3.0	N57 D30B <N57Z> (Diesel)		LN5	
640 i GC							
F 06	05.12→	6	3.0	N55 B30A		LN5	
645Ci							
E 63	01.04 - 09.05	8	4.4	N62 B44A <NGV8>		60038	
645Ci Cabriolet							
E 64	04.04 - 09.05	8	4.4	N62 B44A <NGV8>		60038	
650i							
E 63	09.05 - 07.10	8	4.8	N62 B48B <NGV8>		60038	
650i Cabriolet							
E 64	09.05 - 07.10	8	4.8	N62 B48B <NGV8>		60038	
730d							
F 01	11.08 - 06.12	6	3.0	N57 D30A (Diesel)	BWD,	LN5	
730i, 730iL							
E 32	09.86 - 06.94	6	3.0	30 6K A <M 30 B 30>		56638	574.068
	09.91 - 10.94	8	3.0	30 8S 1 <M 60 B 30>		56638	574.068
E 38	06.94 - 12.96	8	3.0	30 8S 1 <M 60 B 30>		60038	
735i							
E 65	11.01 - 03.05	8	3.6	N62 B36A <NGV8>		60038	
735i, 735iL							
E 32	09.86 - 12.92	6	3.4	34 6E C/K B <M 30 B 35>		58014	
E 38	09.94 - 10.01	8	3.5	35 8S 1/2 <M 62 B 35>		60038	
735Li							
E 66	03.02 - 03.05	8	3.6	N62 B36A <NGV8>		60038	

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740i, 740iL						
E 32	09.91 - 10.94	8	4.0	40 8S 1 <M 60 B 40>		58014
E 38	06.94 - 06.96	8	4.0	40 8S 1 <M 60 B 40>		60038
	01.96 - 08.01	8	4.4	44 8S 1/2 <M 62 B 44>		60038
745i						
E 65	11.01 - 03.05	8	4.4	N62 B44A <NGV8>		60038
745Li						
E 66	03.02 - 03.05	8	4.4	N62 B44A <NGV8>		60038
750i						
E 65	04.05 - 10.08	8	4.8	N62 B48B <NGV8>		LN5
750i, 750iL						
E 32	09.87 - 10.94	12	5.0	50 12A <M 70 B 50>		58014
E 38	06.94 - 07.01	12	5.4	54 12 1/2 <M 73 B 54>		60038
760Li						
E 66	12.02 - 10.08	12	6.0	N73 B60... <NGV12>		60038
840Ci						
E 31	09.94 - 12.99	8	4.4	44 8S 1 <M 62 B 44>		56318 575.068
840i						
E 31	04.93 - 03.96	8	4.0	40 8S 1 <M 60 B 40>		60038
850 CSi						
E 31	08.92 - 10.96	12	5.6	56 12 1 <M 70 B 56>		56318 575.068
850i, 850Ci						
E 31	07.89 - 12.94	12	5.0	50 12A <M 70 B 50>		56318 575.068
BUGATTI						
EB 110 GT						
	03.92 - 12.96	12	3.5	HH32E <V12 Quadroturbo>		60038
CHRYSLER						
Crossfire						
ZH	09.03 - 08.08	6	3.2	EGX; EGZ		574.068
Grand Voyager						
RS	09.07 - 12.15	4	2.8	ENS (Diesel)		S95R
		6	3.8	EGL		574.068R
Neon						
PL	06.94 - 12.05	4	2.0	ECB		56217
	09.97 - 12.00	4	1.8	EBD		56217
PT Cruiser						
PT	06.00 - 12.05	4	2.0	ECC		55457 560.060
	06.00 - 12.10	4	2.4	EDZ		55457 560.060





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PT	09.08 - 08.10	4	2.4	EDZ		560.060	
<b>Viper</b>							
	06.97→	10	8.0	EWB		574.068R	
<b>Voyager</b>							
GS	03.97 - 12.99	6	3.3	EG...		574.068R	
RS	08.00 - 12.08	6	3.3	EGA GAS		56640	574.068R
<b>300</b>							
LE	01.11→	6	3.0	EXL (Diesel)		60038	
LX	09.11 - 08.13	8	6.4	ESG		60038	
<b>300C</b>							
LX	09.04 - 08.10	8	6.1	ESF		60038	
LE	10.04 - 08.10	6	3.5	EGG		58014	
		8	5.7	EZ...		58014	
	01.05 - 08.10	8	6.1	ESF		58014	
	10.05 - 08.10	6	3.0	EXL (Diesel)		60038	

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<b>Berlingo</b>							
M59	07.05 - 10.11	4	1.6	9HW <DV6B> (Diesel)		574.068	
B9	05.08 - 11.11	4	1.6	NFR <TU5JP4B>; 9HX <DV6ATED4/DV6AUTED4> (Diesel)		LN3	
<b>Berlingo 1.6 VTi</b>							
B9	03.10→	4	1.6	5FK <EP6C B>		560.060	
<b>BX</b>							
X56	03.86 - 12.94	4	1.9	DFW Kat. <XU9J4/Z>; DFZ Kat. <XU9J1/Z>		56219	
<b>CX</b>							
	07.83 - 12.92	4	2.5	M25-659 <EN5L>		56638	574.068
<b>C2</b>							
A6	09.03 - 12.09	4	1.6	NFS <TU5JP4S>; NFU <TU5JP4>		56219	
<b>C3</b>							
A8	01.02 - 08.05	4	1.4	KFV <TU3JP>		55066	
			1.6	NFU <TU5JP4>		55066	
A42	05.03 - 10.12	4	1.6	NFU <TU5JP4>		55066	
A31	09.05 - 05.09	4	1.6	NFU <TU5JP4>		55066	
A51	09.09 - 12.16	4	1.6	5FS <EP6C>		LN3	
<b>C4</b>							
B5	11.04 - 01.10	4	2.0	RFJ <EW10A>; RHR <DW10BTED4> (Diesel)		56219	
	11.04 - 09.10	4	1.6	9H... <DV6TED4> (Diesel)		56219	
B58	02.07 - 12.11	4	1.6	9H... <DV6TED4> (Diesel)		LN3	
					SSN	574.068	

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<b>B5</b>	07.08 - 09.10	4	1.6	5FX <EP6DT>			<b>560.060</b>
<b>C4 Picasso</b>							
<b>B58</b>	10.06 - 12.11	4	2.0	RHR <DW10BTED4> (Diesel)		<b>LN3</b>	
					SSN		<b>574.068</b>
	10.06 - 12.13	4	2.0	RHH <DW10CTED4 FAP> (Diesel); RHJ <DW10BTED4> (Diesel)		<b>LN3</b>	
	02.07 - 10.08	4	2.0	RFJ <EW10A>		<b>LN3</b>	
					SSN		<b>574.068</b>
<b>C4 Picasso 1.6 THP</b>							
<b>B58</b>	03.10 - 12.13	4	1.6	5FV <EP6CDT>			<b>560.060</b>
<b>B78</b>	02.14->	4	1.6	5GZ <EP6FDT>			<b>560.060</b>
<b>C4 Picasso 2.0 HDi</b>							
<b>B58</b>	02.07 - 12.11	4	2.0	RHJ <DW10BTED4> (Diesel)			<b>575.068</b>
<b>C5</b>							
<b>X4</b>	03.01 - 09.04	4	2.0	RFN <EW10J4>			<b>56219</b>
				RHZ <DW10ATED> (Diesel)			<b>574.068</b>
		6	3.0	XFX <ES9J4S>			<b>574.068</b>
	06.01 - 09.04	6	3.0	XFX <ES9J4S>			<b>56219</b>
<b>X3</b>	10.04 - 09.05	4	2.2	4HX <DW12TED4> (Diesel)			<b>56638</b> <b>574.068</b>
	10.04 - 04.07	6	3.0	XFU <ES9A>			<b>56638</b> <b>574.068</b>
	10.04 - 03.08	4	2.0	RFJ <EW10A>; RHR... <DW10BTED4> (Diesel)			<b>56638</b> <b>574.068</b>
	03.06 - 03.08	4	2.2	4H... <DW12BTED4> (Diesel)			<b>56638</b> <b>574.068</b>
	04.06 - 03.08	4	2.2	4H ... <DW12BTED4> (Diesel)			<b>574.068</b>
<b>X7</b>	04.08 - 07.09	6	2.7	UHZ <DT17TED4> (Diesel)		<b>LN3</b>	
	04.08 - 05.15	4	2.0	RH... <DW10BTED4> (Diesel); RHH <DW10CTED4 FAP> (Diesel)		<b>LN3</b>	
	07.09 - 04.14	6	3.0	X8Z <DT20C> (Diesel)		<b>LN3</b>	
<b>C5 2.2 HDi</b>							
<b>X7</b>	07.10 - 05.15	4	2.2	4HL <DW12C> (Diesel)			<b>575.068</b>
<b>C6</b>							
<b>X6</b>	11.05 - 02.09	6	3.0	XFV <ES9A>			<b>575.068</b>
	11.05 - 07.09	6	2.7	UHZ <DT17TED4> (Diesel)			<b>575.068</b>
<b>Dispatch</b>							
<b>G9</b>	02.07->	4	2.0	RH... <DW10UTED4> (Diesel)			<b>574.068</b>
<b>DS3</b>							
<b>A55</b>	01.10 - 04.15	4	1.4	8F... <EP3C>		<b>LN3</b>	
			1.6	5FR <EP6DT>		<b>LN3</b>	
<b>DS3 1.6 THP</b>							
<b>A55</b>	04.14 - 04.15	4	1.6	5GZ <EP6FDT>			<b>560.060</b>
<b>DS3 1.6 THP Cabrio</b>							
<b>A56</b>	07.12 - 04.15	4	1.6	5FV <EP6CDT>			<b>560.060</b>











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DS4							
B75	03.11 - 09.15	4	1.6	5FU <EP6CDTX>; 5FV <EP6CDT>; 9HR <DV6C> (Diesel)		LN3	
DS4 1.6 THP							
B75	03.11 - 09.15	4	1.6	5FM <EP6CDTM>		560.060	
DS4 1.6 VTi							
B75	03.11 - 09.15	4	1.6	5FS <EP6C>		560.060	
DS4 2.0 HDi 16V							
B75	03.11 - 02.15	4	2.0	RHH <DW10CTED4 FAP> (Diesel)		575.068	
DS5 2.0 HDi							
B81	09.11 - 11.14	4	2.0	RHH <DW10CTED4 FAP> (Diesel)		575.068	
Xantia							
X2	12.97 - 12.01	4	1.9	DHX <XUD9BTF/L3> (Diesel)		56219	
Xantia Break							
X2	01.98 - 12.01	6	3.0	XFZ <ES9J4>		574.068	
XM							
Y3	05.89 - 06.93	6	3.0	SFZ,S6A <ZPJ>		56638	574.068
	06.93 - 06.94	6	3.0	UFZ <ZPJ>		574.068	
Y4	07.94 - 10.00	6	3.0	UFZ <ZPJ>; XFZ <ES9J4>		574.068	
Xsara							
N6	07.97 - 08.00	4	1.6	NFZ <TU5JP>		55066	
			1.8	LFZ <XU7JP>		55066	
			2.0	RFS <XU10J4RS>		55066	
N7	09.00 - 12.05	4	1.6	NFU <TU5JP4>		56219	
			2.0	RFN <EW10J4>; RFS <XU10J4RS>		56219	
DAEWOO							
Cielo							
	08.94 - 08.97	4	1.5	G15MF <SOHC>		56219	
Espero							
KLEJ	09.93 - 10.94	4	2.0	C20LE		56219	
	03.97 - 10.99	4	2.0	C20LE		56219	
Kalos							
T200	05.02 - 12.04	4	1.5	F15S3		22FR-550	22FR-680
Korando							
KJ	07.96 - 12.00	4	2.3	M161 E23 <MB-M 111.>		95D31R	105D31R
		6	3.2	M162 E32 <MB-M 104.>		95D31R	105D31R
Lanos							
T100	11.96 - 09.03	4	1.5	A15SMS <E-TEC>		55458	

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



							
<b>T100</b>	04.97 - 09.03	4	1.6	A16DMS <L44>		<b>55458</b>	
	04.00 - 05.03	4	1.5	A15SMS <SOHC Family I>		<b>55458</b>	
<b>Leganza</b>							
<b>KLAV, V100</b>	03.97 - 12.02	4	2.0	X20SED		<b>56217</b>	
<b>V100</b>	09.98 - 12.01	4	2.2	T22SED		<b>56217</b>	
<b>Matiz</b>							
<b>M100</b>	04.98 - 01.05	3	0.8	F8CV		<b>40B19R</b>	
<b>Musso</b>							
<b>MJ</b>	07.93 - 12.00	5	2.9	OM 662 D29 LA <OM 602.910> (Diesel); OM 662 D29 <OM 602.910> (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>FJ</b>	01.96 - 12.00	6	3.2	M162 E32 <MB-M 104.992>		<b>95D31R</b>	<b>105D31R</b>
	05.96 - 12.00	4	2.3	M161 E23 <MB-M 111.970>		<b>95D31R</b>	<b>105D31R</b>
<b>Tacuma</b>							
<b>U100</b>	09.00 - 01.05	4	2.0	T20SED		<b>110D26R</b>	
<b>DAIHATSU</b>							
<b>Applause</b>							
	06.89 - 04.00	4	1.6	HDE; HDE <Kat.>		<b>55B24L</b>	
<b>Charade</b>							
<b>G100</b>	03.87 - 12.92	3	1.0	CB23		<b>55B24L</b>	
<b>G102</b>	06.88 - 12.92	4	1.3	HCE; HCE <Kat.>		<b>55B24L</b>	
<b>G200</b>	01.93 - 09.00	4	1.3	HCE; HCE <Kat.>		<b>55B24L</b>	
<b>G202</b>	05.93 - 12.95	3	1.0	CB24		<b>40B19L</b>	
						<b>55B24L</b>	
<b>G203</b>	08.94 - 06.00	4	1.5	HEEG		<b>55B24L</b>	
<b>L500 Centro</b>	03.95 - 05.05	3	0.7	EFEL		<b>55B24L</b>	
<b>L251</b>	03.03 - 12.07	3	1.0	EJ		<b>40B19L</b>	
<b>Copen</b>							
<b>L880</b>	05.02 - 12.05	4	0.7	JB-DET		<b>40B19L</b>	
<b>Cuore</b>							
<b>L701</b>	10.98 - 12.02	3	1.0	EJDE		<b>55B24L</b>	
<b>Feroza</b>							
<b>F300</b>	10.88 - 10.99	4	1.6	HDE		<b>40B19R</b>	
<b>F310</b>	05.92 - 10.99	4	1.6	HDE <Kat.>		<b>40B19R</b>	
<b>Hijet</b>							
<b>S85</b>	05.86 - 11.92	3	1.0	CB		<b>40B19R</b>	
<b>Mira</b>							
<b>L201</b>	01.90 - 12.94	3	0.9	ED10		<b>40B19RS</b>	
<b>L200</b>	01.92 - 12.95	3	0.7	EFEL		<b>40B19RS</b>	
<b>Centro</b>	01.95 - 01.05	3	0.7	EFEL		<b>40B19LS</b>	





◀ DAIHATSU

Move						
L601	01.97 - 09.98	3	0.9	ED20		40B19LS
	06.97 - 12.00	3	0.9	ED20		40B19LS
Pyzar						
G303G	08.96 - 07.02	4	1.5	HEEG		40B19LS
	08.98 - 12.00	4	1.6	HD		40B19LS
Sirion						
M100	04.98 - 05.00	3	1.0	EJDE		55B24L
M101	08.00 - 07.04	4	1.3	K3VE		55B24L
M301	10.04→	4	1.3	K3VE		40B19L
Terios						
J100	03.97 - 05.00	4	1.3	HCEJ		55B24L
J102	05.00 - 12.05	4	1.3	K3VE		40B19LS
YRV						
M201G	08.00 - 04.05	4	1.3	K3VE		40B19LS
M201	08.00 - 07.05	4	1.3	K3		55B24L

**DAIMLER LTD.**

Double Six						
	01.81 - 12.92	12	5.3	V12 H.E		56219

**DODGE**

Avenger						
JS	09.07 - 08.11	4	2.0	ECD (Diesel); ECN		55066
Caliber						
P3	01.06 - 08.09	4	2.0	ECD <A> (Diesel)		574.068R
PM	09.06 - 08.10	4	1.8	EBA		55D23R 90D23R
	09.06 - 12.10	4	2.0	ECN		55D23R 90D23R
	09.06 - 08.11	4	2.4	ED...		55D23R 90D23R
Journey						
	08.08→	6	2.7	3D4P65F <DOHC>		22FR-550 22FR-680
JC	08.08→	4	2.0	BKP (Diesel)		55D26R 110D26R
Nitro						
KA	09.06 - 08.11	6	3.7	EKG		110D26R

**FERRARI**

California						
	01.09→	8	4.3			574.068

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



Model	Year Range	Cyl.	CC	Engine Code	START STOP	OEM Equivalent	PREMIUM Upgrade
<b>F12 Berlinetta 6.3</b>	09.12 - 08.17	12	6.3		START STOP	LN5	
<b>F50</b>	07.95 - 10.97	12	4.7			574.068	
<b>F430</b>	05.05 - 12.09	8	4.3			575.068	
<b>F430 Scuderia</b>	10.07 - 12.09	8	4.3			575.068	
<b>Mondial</b>	10.89 - 02.94	8	3.4	F 119D		56638	574.068
<b>348</b>	02.90 - 08.95	8	3.4	F 119F 000		574.068	
<b>355</b>	05.94 - 10.10	8	3.5	F129B/40; F129C/40		574.068	
<b>360</b>	03.99 - 12.05	8	3.6	F131; F131B		574.068	
<b>456 GT / GTA</b>	03.96 - 12.04	12	5.5	F 116V12		574.068	
<b>456GT</b>	01.93 - 03.96	12	5.5	F 116B 00		574.068	
<b>458 Italia</b>	03.10→	8	4.5	F 136 FB		575.068	
<b>458 Spider</b>	09.11→	8	4.5	F 136 FB		575.068	
<b>512</b>	01.92 - 10.94	12	5.0	F 113D 00/40		56638	574.068
<b>512M</b>	10.94→	12	5.0	F 110HB		56638	574.068
<b>550</b>	10.96 - 12.05	12	5.5	F 133		574.068	
<b>575</b>	02.02 - 12.06	12	5.7	F 133 48V		55D26R	110D26R
<b>599GTB</b>	01.06 - 12.12	12	6.0	6.0 48V		60038	
<b>612</b>	03.04 - 06.11	12	5.7			55D26R	110D26R





**FIAT**

**Doblo Cargo 1.4**

263	02.10→	4	1.4	843 A1.000 <M10>	575.068
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**Ducato**

244	04.02 - 08.06	4	2.3	F1AE0481C <M10> (Diesel)	58515
			2.8	8140.43S <M15> (Diesel)	60038

250	06.06 - 12.14	4	2.3	F1AE0481D <M94> (Diesel)	58515
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**Ducato Maxi 17 130 MultiJet**

250	06.06 - 12.14	4	2.3	F1AE0481N <M95> (Diesel)	60038
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**Ducato Maxi 20 130 MultiJet**

250	06.06 - 12.14	4	2.3	F1AE0481N <M95> (Diesel)	60038
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**Ducato 11 130 MultiJet**

250	06.06 - 12.14	4	2.3	F1AE0481N <M95> (Diesel)	60038
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**Ducato 15 130 MultiJet**

250	06.06 - 12.14	4	2.3	F1AE0481N <M95> (Diesel)	60038
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**Ducato 17 130 MultiJet**

250	06.06 - 12.14	4	2.3	F1AE0481N <M95> (Diesel)	60038
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**Ducato 130 MultiJet**

250	06.11 - 12.14	4	2.3	F1AE3481D (Diesel)	60038
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**Ducato 150 MultiJet**

250	06.11 - 12.14	4	2.3	F1AE3481E (Diesel)	60038
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**Freemont 2.0 Multijet**

345	06.11 - 12.15	4	2.0	939 B5.000 (Diesel)	575.068
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**Freemont 2.4 VVT**

345	02.13 - 12.15	4	2.4	ED3	575.068
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**Freemont 3.6 4x4**

345	08.11 - 12.15	6	3.6	ERB	575.068
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**Ritmo**

198	07.07 - 12.09	4	1.4	198 A1.000 <M21>	55066
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**Scudo**

270	01.07 - 04.16	4	2.0	RHK <M5> (Diesel)	574.068
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**500**

312	07.07 - 12.12	4	1.3	169 A1.000 <M73> (Diesel)	55066
			1.2	169 A4.000 <M8>	LN2
			1.4	169 A3.000 <M17>	LN2

**500C Abarth 1.4**

312	07.10→	4	1.4	312 A1.000	LN2
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**FORD**

**Capri Convertible**

<b>SA</b>	10.89 - 09.90	4	1.6	F	<b>40B19LS</b>	
<b>SA II</b>	10.90 - 03.92	4	1.6	D; T	<b>40B19LS</b>	
<b>SC</b>	04.92 - 07.93	4	1.6	D; T	<b>55D23L</b>	<b>90D23L</b>
<b>SE</b>	08.93 - 07.94	4	1.6	D	<b>40B19LS</b>	
				T	<b>55D23L</b>	<b>90D23L</b>

**Corsair**

<b>UA</b>	09.88 - 08.92	4	2.0	CA20E	<b>22F-550DF</b>	
			2.4	KA24E	<b>22F-550DF</b>	

**Cougar**

<b>SW/SX</b>	06.99 - 12.00	6	2.5	LCBC <MP25 Duratec-VE SEFI>	<b>55457</b>	<b>560.060</b>
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**Courier**

<b>PC</b>	06.85 - 05.96	4	2.2	R2 (Diesel)	<b>95D31R</b>	<b>105D31R</b>
	09.86 - 08.90	4	2.6	AM	<b>40B19RS</b>	
	09.88 - 08.93	4	2.2	F2	<b>22F-550DF</b>	
	11.89 - 02.95	4	2.0	FE	<b>22F-550DF</b>	
	01.90 - 04.95	4	2.2	R2 (Diesel)	<b>95D31L</b>	<b>105D31L</b>
<b>PC</b>	09.90 - 02.96	4	2.6	G6	<b>22F-550DF</b>	
	03.96 - 05.99	4	2.6	G6	<b>55D23L</b>	<b>90D23L</b>
<b>PD</b>	03.96 - 11.99	4	2.6	G6	<b>55D23L</b>	<b>90D23L</b>
	05.96 - 01.99	4	2.6	G6	<b>55D26L</b>	<b>110D26L</b>
	06.96 - 03.99	4	2.5	WL (Diesel)	<b>95D31R</b>	<b>105D31R</b>
<b>PE</b>	02.99 - 10.02	4	2.6	G6	<b>55D23R</b>	<b>90D23R</b>
	02.99 - 11.02	4	2.5	WLAT (Diesel)	<b>95D31R</b>	<b>105D31R</b>
	08.02->	4	2.5	(Diesel); WL (Diesel)	<b>95D31L</b>	<b>105D31L</b>
<b>PG</b>	11.02 - 08.04	4	2.5	WLAT (Diesel)	<b>95D31L</b>	<b>105D31L</b>
			2.6	G6	<b>55D23R</b>	<b>90D23R</b>
	03.04 - 12.06	6	4.0	Koeln	<b>55457</b>	<b>560.060</b>
<b>PH</b>	08.04 - 11.06	4	2.5	WLAT (Diesel)	<b>95D31R</b>	<b>105D31R</b>
	09.04 - 01.06	4	2.6	G6	<b>55D23R</b>	<b>90D23R</b>
	09.04->	4	2.5	WLAT (Diesel)	<b>95D31L</b>	<b>105D31L</b>

**Econovan**

	07.81 - 12.97	4	2.2	S2 (Diesel)	<b>95D31R</b>	<b>105D31R</b>
	01.84 - 02.97	4	1.8	F8	<b>40B19LS</b>	
	02.86 - 12.99	4	2.0	RF <Mazda> (Diesel)	<b>95D31R</b>	<b>105D31R</b>
<b>JG</b>	02.97 - 09.99	4	2.0	FE	<b>40B19LS</b>	
<b>JH</b>	10.99 - 11.05	4	2.0	FE	<b>40B19LS</b>	
	11.02 - 11.05	4	1.8	F8	<b>40B19LS</b>	

**EcoSport 1.5 Ti-VCT**

<b>JK8</b>	10.13 - 10.17	4	1.5	UEJ... <Euro 6>	<b>560.060</b>	
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**Escape**

<b>ZA</b>	09.00 - 01.04	6	3.0	Duratec	<b>55D23R</b>	<b>90D23R</b>
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## ◀ FORD









	09.00 - 08.08	6	3.0	Duratec		55D26L	110D26L
<b>BA</b>	12.00 - 01.04	6	3.0	Duratec <1>		55D26L	110D26L
<b>ZB</b>	09.04 - 05.06	6	3.0	Duratec		55D23R	90D23R
<b>Everest 3.2 TD 4x4</b>							
	03.15→	5	3.2	Duratorq <Euro 5 / L-6 (EGR)> (Diesel)		58014	
<b>Explorer</b>							
<b>UN/UP/UQ/US</b>	09.95 - 08.01	8	5.0			65-7MF	
	09.96 - 08.01	6	4.0			65-7MF	
<b>UT/UX/UZ</b>	09.01 - 08.05	8	4.6			65-7MF	
	09.01 - 01.08	6	4.0			65-7MF	
<b>Explorer 4.0</b>							
	09.96 - 08.01	6	4.0			575.068	
<b>Explorer 4.0 4x4</b>							
	09.96 - 08.01	6	4.0			65-7MF	
<b>Fairlane</b>							
<b>NA II</b>	10.89 - 06.91	6	3.9	P		22F-550DF	
<b>NC</b>	07.91 - 02.92	6	3.9	P		22F-550DF	
		8	5.0	Z		22F-550DF	
<b>NC II</b>	03.92 - 02.95	6	4.0	H		22F-550DF	
		8	5.0	Z		22F-550DF	
<b>NF</b>	03.95 - 09.95	6	4.0	H		AU22R-550	
		8	5.0	Z		AU22R-550	
<b>NF II</b>	10.95 - 08.96	6	4.0	H		AU22R-550	
		8	5.0	Z		AU22R-550	
<b>NL</b>	09.96 - 02.99	6	4.0	H; X		AU22R-550	
		8	5.0	Z		AU22R-550	
<b>AU</b>	02.99 - 06.00	6	4.0	Y		AU22R-550	
		8	5.0	Z		AU22R-550	
<b>AU II</b>	07.00 - 02.03	6	4.0	Y		AU22R-550	
		8	5.0	Z		AU22R-550	
<b>BA</b>	07.03 - 02.05	6	4.0	H <Barra 182>		AU22R-550	
		8	5.4	Z		AU22R-550	
<b>BA II</b>	03.05 - 09.05	6	4.0	H <Barra 182>		AU22R-550	
		8	5.4	Z		AU22R-550	
<b>BF</b>	10.05 - 12.07	6	4.0	H <Barra 190>		AU22R-550	
		8	5.4	Z		AU22R-550	
<b>Falcon</b>							
<b>FGII</b>	11.11→	6	4.0	H <Barra 190>; H <Barra 195>; S <Eco LPI>		AU22R-550	
<b>Falcon / Fairmont (inc G &amp; XR Series)</b>							
<b>EA II</b>	10.89 - 06.91	6	3.9	D <CFI>; P <MPFI>		22F-550DF	
<b>EB</b>	07.91 - 02.92	6	3.9	D <CFI>; P <MPFI>		22F-550DF	
		8	5.0	Z		22F-550DF	

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EB II	03.92 - 07.93	6	4.0	H; X	22F-550DF
		8	5.0	J; Z	22F-550DF
ED	08.93 - 08.94	6	4.0	H; X	22F-550DF
		8	5.0	T; Z	22F-550DF
EF	09.94 - 09.95	6	4.0	H; X	AU22R-550
		8	5.0	Z	AU22R-550
EF II	10.95 - 08.96	6	4.0	H; X	AU22R-550
		8	5.0	Z	AU22R-550
EL	09.96 - 08.98	6	4.0	H; X	AU22R-550
		8	5.0	Z	AU22R-550
AU	09.98 - 03.00	6	4.0	; H; X; Y	AU22R-550
		8	5.0	Z	AU22R-550
AU II	04.00 - 09.01	6	4.0	H; S; X; Y	AU22R-550
		8	5.0	Z	AU22R-550
AU III	04.01 - 09.02	6	4.0	H; S; X; Y	AU22R-550
		8	5.0	Z	AU22R-550
BA	10.02 - 09.04	6	4.0	H <Barra 182>; S <GAS>; Y <Barra 240T>	AU22R-550
		8	5.4	Z	AU22R-550
BA II	10.04 - 09.05	6	4.0	H <Barra 182>; S <GAS>; Y <Barra 240T>	AU22R-550
		8	5.4	Z	AU22R-550
BF	10.05 - 09.06	6	4.0	H <Barra 190>; S <Egas>; Y <Barra 245T>	AU22R-550
		8	5.4	Z	AU22R-550
BF II	10.06 - 05.08	6	4.0	H <Barra 190>; S <Egas>; Y <Barra 245T>	AU22R-550
		8	5.4	Z	AU22R-550
FG	04.08 →	6	4.0	H <Barra 195>; S <Egas>; Y <Barra 270T>	AU22R-550
		8	5.4	Z	AU22R-550
BF III	05.08 →	6	4.0	H <Barra 190>; S <Egas>	AU22R-550
FGII	03.12 →	4	2.0	F <EcoBoost>	AU22R-550
FG	02.15 →	8	5.0	BOSS 335	AU22R-550
<b>Falcon Utility</b>					
FGII	11.11 →	6	4.0	S <Eco LPI>	AU22R-550
<b>Falcon Utility / Van (inc XR Series)</b>					
XF	09.84 - 02.93	6	4.1	N	22F-550DF
XG	03.93 - 03.96	6	4.0	H	22F-550DF
	10.93 - 03.96	6	4.0	X	22F-550DF
XH	04.96 - 11.99	6	4.0	H	AU22R-550
AU	06.99 - 03.00	6	4.0	H <Intech>	AU22R-550
		8	5.0	Z	AU22R-550
AU II	04.00 - 09.01	6	4.0	H <Intech>; S <GAS>; X	AU22R-550
		8	5.0	Z	AU22R-550
AU III	10.01 - 09.02	6	4.0	H <Intech>; S <GAS>	AU22R-550
		8	5.0	Z	AU22R-550
BA	10.02 - 09.04	6	4.0	H <Barra 182>; S <GAS>; Y <Barra 240T>	AU22R-550
		8	5.4	Z	AU22R-550



								
<b>◀ FORD</b>								
<b>BA II</b>	10.04 - 09.05	6	4.0	H <Barra 182>; S <GAS>; Y <Barra 240T>			<b>AU22R-550</b>	
		8	5.4	Z			<b>AU22R-550</b>	
<b>BF</b>	10.05 - 09.06	6	4.0	H <Barra 190>; S <GAS>; Y <Barra 245T>			<b>AU22R-550</b>	
		8	5.4	Z			<b>AU22R-550</b>	
<b>BF II</b>	10.06 - 05.08	6	4.0	H <Barra 190>; S <GAS>; Y <Barra 245T>			<b>AU22R-550</b>	
		8	5.4	Z			<b>AU22R-550</b>	
<b>FG</b>	04.08→	6	4.0	H <Barra 195>; S <Egas>; Y <Barra 270T>			<b>AU22R-550</b>	
		8	5.4	Z			<b>AU22R-550</b>	
<b>Falcon Utility XR6</b>								
<b>FGII</b>	11.11→	6	4.0	H <Barra 195>			<b>AU22R-550</b>	
<b>Falcon Utility XR6 Turbo</b>								
<b>FGII</b>	11.11→	6	4.0	Y <Barra 270T>			<b>AU22R-550</b>	
<b>Festiva</b>								
<b>WA</b>	06.91 - 03.94	4	1.3	U			<b>40B19LS</b>	
<b>WB</b>	04.94 - 12.96	4	1.3	U			<b>55D23L</b>	<b>90D23L</b>
<b>WBII</b>	02.97 - 12.97	4	1.3	U			<b>55D23L</b>	<b>90D23L</b>
			1.5	E			<b>55D23L</b>	<b>90D23L</b>
<b>WF</b>	01.98 - 12.00	4	1.3	U			<b>55D23L</b>	<b>90D23L</b>
			1.5	E			<b>55D23L</b>	<b>90D23L</b>
<b>Fiesta</b>								
<b>JD, JH</b>	11.01 - 09.08	4	1.6	FYJ... <Euro4>			<b>54316</b>	
<b>WQ</b>	06.07 - 09.08	4	2.0	N4JB <Duratec 16V SFI>			<b>54316</b>	
<b>WS/WT</b>	07.08 - 11.12	4	1.6	HHJ... <Euro4> (Diesel)			<b>56318</b>	<b>575.068</b>
				HXJ... <Euro4>			<b>54316</b>	
<b>Fiesta ST 1.6 EcoBoost</b>								
<b>WZ</b>	01.13→	4	1.6	JTJ... <Euro 5>			<b>560.060</b>	
<b>Fiesta 1.0 EcoBoost</b>								
<b>JAB, JR8</b>	11.12→	3	1.0	M1J... <Euro 5>			<b>54316</b>	
<b>Fiesta 1.5 i</b>								
	08.08 - 01.14	4	1.5	ZY			<b>55458</b>	
<b>Focus</b>								
<b>LR</b>	06.02 - 05.05	4	1.8	EYDC <ZH18,Zetec-E,SFI>			<b>55457</b>	<b>560.060</b>
			2.0	ALDA <Duratec-ST>			<b>56318</b>	<b>575.068</b>
				EDDC <ZH20,Zetec-E,SFI>			<b>55457</b>	<b>560.060</b>
<b>LS</b>	06.04 - 07.10	4	2.0	AOD... <Euro4>; Duratec HE <DOHC 16v>			<b>55457</b>	<b>560.060</b>
<b>LS/LT</b>	04.06 - 01.08	5	2.5	HYDA <Euro4>			<b>55457</b>	<b>560.060</b>
<b>DA, HC</b>	12.07 - 12.11	4	2.0	G6D... <Euro4> (Diesel)			<b>56318</b>	<b>575.068</b>
<b>LV</b>	12.07 - 12.11	4	2.0	AOD... <Euro 5>			<b>56318</b>	<b>575.068</b>
	06.08 - 12.11	5	2.5	HYDA <Euro4>			<b>56318</b>	<b>575.068</b>
<b>DY, BK</b>	01.11 - 12.14	4	1.6	PND... <Euro 5>			<b>55457</b>	<b>560.060</b>
			2.0	TXDB <Euro5> (Diesel)			<b>575.068</b>	

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.





DY, BM	01.11 - 12.14	4	1.6	PND... <Euro 5>	55457	560.060
			2.0	TXDB <Euro5> (Diesel)	575.068	
	09.11 - 12.14	4	2.0	XQDA <Euro5>	56318	
<b>Focus RS</b>						
LV	01.09 - 12.11	5	2.5	JZDA <Euro4>	575.068	
<b>Focus ST 2.0 EcoBoost</b>						
DY, BK	06.12 - 12.14	4	2.0	R9DA <Euro5>	575.068	
<b>FPV Force 6</b>						
BF II	10.06 - 05.08	6	4.0	Y <F6 270>	AU22R-550	
<b>FPV Force 8</b>						
BF II	10.06 - 05.08	8	5.4	Z	AU22R-550	
<b>FPV F6</b>						
FG	05.08->	6	4.0	Y <F6 310>	AU22R-550	
<b>FPV F6 Tornado</b>						
BA II	01.05 - 09.05	6	4.0	Y <F6 270>	AU22R-550	
BF	10.05 - 09.06	6	4.0	Y <F6 270>	AU22R-550	
BF II	10.06 - 05.08	6	4.0	Y <F6 270>	AU22R-550	
<b>FPV F6 Typhoon</b>						
BA II	10.04 - 09.05	6	4.0	Y <F6 270>	AU22R-550	
BF	10.05 - 09.06	6	4.0	Y <F6 270>	AU22R-550	
BF II	10.06 - 05.08	6	4.0	Y <F6 270>	AU22R-550	
<b>FPV F6 UTE</b>						
FG	05.08->	6	4.0	Y <F6 310>	AU22R-550	
<b>FPV F6X</b>						
SY	02.08->	6	4.0	T <F6 270>	AU22R-550	
<b>FPV GT</b>						
BA	02.03 - 09.04	8	5.4	Z	AU22R-550	
BA II	10.04 - 09.05	8	5.4	Z	AU22R-550	
BF	10.05 - 09.06	8	5.4	Z	AU22R-550	
BF II	10.06 - 05.08	8	5.4	Z	AU22R-550	
FG	05.08->	8	5.4	Z	AU22R-550	
<b>FPV GT-P</b>						
BA	02.03 - 09.04	8	5.4	Z	AU22R-550	
BA II	10.04 - 09.05	8	5.4	Z	AU22R-550	
BF	10.05 - 09.06	8	5.4	Z	AU22R-550	
BF II	10.06 - 05.08	8	5.4	Z	AU22R-550	
<b>FPV Pursuit</b>						
BA	02.03 - 09.04	8	5.4	Z	AU22R-550	
BA II	10.04 - 09.05	8	5.4	Z	AU22R-550	
BF	10.05 - 09.06	8	5.4	Z	AU22R-550	
BF II	10.06 - 05.08	8	5.4	Z	AU22R-550	
FG	05.08->	8	5.4	Z	AU22R-550	





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FPV Super Pursuit							
BA II	06.05 - 09.05	8	5.4	Z		AU22R-550	
BF	10.05 - 09.06	8	5.4	Z		AU22R-550	
BF II	10.06 - 05.08	8	5.4	Z		AU22R-550	
FG	05.08→	8	5.4	Z		AU22R-550	
F250							
	03.99 - 03.06	6	4.2	6.07 TCA (Diesel)		65-7MF	
	09.00 - 08.03	8	7.3	(Diesel); <Power Stroke 7.3L> (Diesel)		65-7MF	
	01.01 - 09.07	8	5.4	<5,4L SOHC V8>		65-7MF	
Ka							
TA/TB	09.99 - 10.02	4	1.3	J4D <HCS,Endura-E SEFI>; J4M <HCS,Endura-E SEFI>		54316	
Kuga							
DM2	12.08 - 11.12	5	2.5	HYD... <Euro4>		575.068	
Kuga 1.6 EcoBoost							
DM2	11.12 - 09.14	4	1.6	JQM... <Euro 5>		56318	
						LN4	
Kuga 2.0 AWD							
	01.13→	4	2.0	TPBA <Euro5>		56318	
Kuga 2.0 TDCi 4x4							
DM2	11.12 - 09.14	4	2.0	TXMA <Euro 5> (Diesel)		575.068	
Laser							
KE	10.87 - 02.90	4	1.6	B		40B19LS	
KE II	02.90 - 09.94	4	1.6	B		40B19LS	
KF	03.90 - 09.91	4	1.6	B		40B19LS	
				1.8	C; H; N	55D23L	90D23L
KH	10.91 - 09.92	4	1.6	B		40B19LS	
				1.8	C; H; N	55D23L	90D23L
KH II	10.92 - 09.94	4	1.6	B		55D23L	
				1.8	C; H; N	55D23L	90D23L
KJ	10.94 - 11.96	4	1.6	B		55D23L	
				1.8	N	55D23L	90D23L
KJ II	12.96 - 12.97	4	1.6	B		55D23L	
				1.8	N	55D23L	90D23L
KJ III	12.97 - 03.99	4	1.6	B		55D23L	
				1.8	N	55D23L	90D23L
KN	03.99 - 02.01	4	1.6	ZM		55D23L	
				1.8	FP	55D23L	90D23L
KQ	03.01 - 12.03	4	1.6	ZM		55D23L	
				1.8	FP	55D23L	90D23L
				2.0	FS	55D23L	90D23L
LTD							
DA II	10.89 - 06.91	6	3.9	P		22F-550DF	

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DC	07.91 - 02.92	6	3.9	P	22F-550DF	
		8	5.0	Z	22F-550DF	
	03.92 - 02.95	6	4.0	H	22F-550DF	
DC II	03.92 - 02.95	8	5.0	Z	22F-550DF	
DF	03.95 - 09.95	6	4.0	H	AU22R-550	
		8	5.0	Z	AU22R-550	
DF II	10.95 - 08.96	6	4.0	H	AU22R-550	
		8	5.0	Z	AU22R-550	
DL	09.96 - 05.99	6	4.0	H	AU22R-550	
		8	5.0	Z	AU22R-550	
AU	05.99 - 05.00	8	5.0	Z	AU22R-550	
	10.99 - 09.00	6	4.0	Y	AU22R-550	
AU II	06.00 - 06.03	6	4.0	Y	AU22R-550	
		8	5.0	Z	AU22R-550	
BA	07.03 - 09.04	8	5.4	Z	AU22R-550	
BA II	03.05 - 09.05	8	5.4	Z	AU22R-550	
BF	10.05 - 12.07	8	5.4	Z	AU22R-550	
<b>Maverick</b>						
	04.88 - 12.94	6	4.2	TB42	22F-550DF	22F-610DF
				TDB42 (Diesel)	95D31L	105D31L
<b>Mondeo</b>						
HA/HB	03.95 - 07.96	4	2.0	NGA <ZH20, ZETEC-E>	55457	560.060
HC/HD/HE	08.96 - 09.00	4	2.0	NGB <ZH20, ZETEC-E>; NGD <ZH20, ZETEC-E>	55457	560.060
MA	02.07 - 02.10	4	2.0	AZBA <Euro4> (Diesel)	58014	
MA/MB	02.07 - 03.10	5	2.5	HU... <Euro4>	55457	560.060
MB	02.07 - 12.14	4	2.0	QXB... <Euro4> (Diesel)	58014	
	09.07 - 12.14	4	2.3	SEBA <Euro4>	56318	575.068
BE7	03.10 - 12.14	4	2.0	TNB... <Euro5>	575.068	
				TXB... <Euro5> (Diesel)	560.060	
BG7	03.10 - 12.14	4	2.0	TXB... <Euro5> (Diesel)	575.068	
<b>Mondeo ST24</b>						
HE	12.99 - 09.00	6	2.5	SEA <MP25, DURATEC-VE>	55457	560.060
<b>Mustang 2.3 EcoBoost</b>						
	04.15 - 09.17	4	2.3	<Euro 6>	560.060	
<b>Mustang 2.3 EcoBoost Convertible</b>						
	04.15 - 09.17	4	2.3	<Euro 6>	560.060	
<b>Mustang 5.0 Ti-VCT</b>						
	04.15 - 09.17	8	5.0	<Euro 6>	560.060	
<b>Mustang 5.0 Ti-VCT Convertible</b>						
	04.15 - 09.17	8	5.0	<Euro 6>	560.060	
<b>Probe</b>						
	04.94 - 07.97	6	2.5	KL	55457	560.060





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Ranger							
	03.06 - 12.11	4	3.0	WE... <Euro3/Euro4> (Diesel); WEC <DuraTORQ TDCi> (Diesel)		95D31R	105D31R
PJ, PK	03.06 - 12.11	4	2.5	WL... <Euro3/Euro4> (Diesel)		95D31R	105D31R
PX	09.11→	4	2.5	<Euro3/Euro4>		575.068	
	07.12→	5	3.2	P5AT (Diesel)		58014	
Ranger 2.2							
PX	09.11→	4	2.2	P4AT (Diesel)		575.068	
Ranger 2.2 4x4							
PX	09.11→	4	2.2	P4AT (Diesel)		575.068	
Ranger 3.2							
PX	09.11→	5	3.2	P5AT (Diesel)		LN4	
Ranger 3.2 4x4							
PX	09.11→	5	3.2	P5AT (Diesel)		58014	
Sierra							
	02.84 - 10.95	4	2.3	YYT		40B19LS	
Spectron							
	01.88 - 12.98	4	2.0	RF (Diesel)		95D31R	105D31R
Taurus							
	09.95 - 08.99	6	3.0	Duratec 30		575.068	
Telstar							
AV	01.90 - 10.91	4	2.2	T		40B19LS	
AX	01.92 - 08.94	4	2.0	N		40B19LS	
		6	2.5	U		55D23L	90D23L
AY	09.94 - 11.96	4	2.0	N		40B19LS	
		6	2.5	U		55D23L	90D23L
Telstar Turbo							
AV	01.90 - 10.91	4	2.2	T <Turbo>		40B19LS	
Territory							
SX	05.04 - 09.05	6	4.0	H <Barra 182>		AU22R-550	
SY	10.05 - 04.09	6	4.0	H <Barra 190>		AU22R-550	
SY II	05.09 - 04.11	6	4.0	H <Barra 190>		AU22R-550	
SZ	04.11→	6	2.7	D <Lion 140> (Diesel)		574.068	
			4.0	H <Barra 195>		574.068	
Territory Turbo							
SY	09.07 - 04.09	6	4.0	T <Barra 245T>		AU22R-550	
SY II	05.09 - 04.11	6	4.0	T <Barra 245T>		AU22R-550	
TE50							
AU	10.99 - 09.00	8	5.0	Z		AU22R-550	
AU II	10.00 - 10.01	8	5.0	Z		AU22R-550	

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<b>AU III</b>	11.01 - 12.02	8	5.6	Z		<b>AU22R-550</b>	
<b>TL50</b>							
<b>AU</b>	10.99 - 09.00	8	5.0	Z		<b>AU22R-550</b>	
<b>AU II</b>	10.00 - 10.01	8	5.0	Z		<b>AU22R-550</b>	
<b>AU III</b>	11.01 - 12.02	8	5.6	Z		<b>AU22R-550</b>	
<b>Trader</b>							
	10.80 - 12.95	0	4.1	ZB <T4.1> (Diesel)		<b>55D26R</b>	<b>110D26R</b>
<b>Transit</b>							
	08.91 - 07.94	4	2.5	4DA <D25P> (Diesel)		<b>55457</b>	<b>560.060</b>
	08.94 - 07.00	4	2.0	NSF <DOHC 8V SEFI>; NSG <DOHC 8V SEFI>		<b>56318</b>	<b>575.068</b>
	08.94 - 08.00	4	2.5	4EB <D25TP> (Diesel); 4EC <D25TP> (Diesel); 4GB <D25TN> (Diesel) 4HB <D25P> (Diesel)		<b>575.068</b>	
	01.00 - 07.06	4	2.4	DOFA <PD24PP> (Diesel); D2F... <PD24P> (Diesel); D4FA <PD24> (Diesel); FXFA <DuraTorq DI> (Diesel)		<b>56318</b>	<b>575.068</b>
	08.01 - 07.06	4	2.3	E5FC <DOHC 16V BI-FUEL>		<b>560.060</b>	
	03.04 - 07.06	4	2.4	H9FA <Duratorq TDCi> (Diesel)		<b>56318</b>	<b>575.068</b>
	04.06 - 06.10	4	2.2	QVFA <Euro4> (Diesel)		<b>56318</b>	<b>575.068</b>
						<b>58014</b>	
	07.06 - 09.11	4	2.4	H9F... <95EEC/Euro4> (Diesel)		<b>56318</b>	<b>575.068</b>
						<b>58014</b>	
<b>Transit Custom 290</b>							
	09.12 - 04.16	4	2.2	CYF... <Euro 4> (Diesel)		<b>575.068</b>	
<b>Transit Custom 330</b>							
	09.12 - 04.16	4	2.2	CYF... <Euro 4> (Diesel)		<b>575.068</b>	
<b>Transit FT 280 2.2 TDCi</b>							
	10.08 - 12.13	4	2.2	CYF... <Euro 5> (Diesel); SRF... <Euro4/Euro5> (Diesel)		<b>58014</b>	
<b>Transit FT 330 2.2 TDCi</b>							
	09.11 - 12.13	4	2.2	CVR... <Euro4/Euro5> (Diesel)		<b>58014</b>	
<b>Transit FT 350 2.2 TDCi</b>							
	09.11 - 12.13	4	2.2	CVR... <Euro4/Euro5> (Diesel)		<b>58014</b>	
<b>Transit FT 430 2.2 TDCi</b>							
	09.11 - 12.13	4	2.2	CVR... <Euro4/Euro5> (Diesel)		<b>58014</b>	
<b>Transit FT 460 2.2 TDCi</b>							
	09.11 - 12.13	4	2.2	CVR... <Euro4/Euro5> (Diesel)		<b>58014</b>	
<b>TS50</b>							
<b>AU</b>	10.99 - 09.00	8	5.0	Z		<b>AU22R-550</b>	
<b>AU II</b>	10.00 - 10.01	8	5.0	Z		<b>AU22R-550</b>	
<b>AU III</b>	11.01 - 12.02	8	5.6	Z		<b>AU22R-550</b>	





**GREAT WALL**

**V240**

12.06→ 4 2.4 4G69S4N 55D23L 90D23L

**X200**

04.09 - 09.13 4 2.0 GW4D20 (Diesel) 55D26R 110D26R

**X240**

10.09 - 09.13 4 2.4 4G69S4N 55D23L 90D23L

**HOLDEN**

**Adventra**

VY II 08.03 - 08.04 8 5.7 VF <LS1> 22F-550 22F-680

VZ 09.04 - 08.06 8 5.7 VF <LS1> 22F-550 22F-680

04.05 - 08.06 6 3.6 H7 22F-550 22F-680

**Apollo**

JK 08.89 - 07.91 4 2.0 3SFC <L4> 40B19LS

3SFE <L4> 55D23L 90D23L

JL 08.91 - 02.93 4 2.0 3SFE <L4> 55D23L 90D23L

JM 04.93 - 07.95 4 2.2 5SFE <LA4> 55D23L 90D23L

6 3.0 3VZFE <LA6> 55D23L 90D23L

JP 08.95 - 05.97 4 2.2 5SFE <LA4> 55D23L 90D23L

6 3.0 3VZFE <LA6> 55D23L 90D23L

**Astra**

TR 09.96 - 09.98 4 1.6 C16SE <L55> 55457 560.060

1.8 C18SEL <2HO> 55457 560.060

2.0 X20XEV <L34> 55457 560.060

TS 10.98 - 11.00 4 1.8 X18XE1 <2H9> 56318 575.068

09.00 - 12.05 4 2.2 Z22SE 56318 575.068

12.00 - 09.04 4 1.8 Z18XE <Ecotec> 56318 575.068

09.02 - 08.05 4 2.0 Z20LET <Turbo Ecotec> 55457 560.060

03.04 - 12.05 4 1.8 Z18XE <Ecotec> 575.068

AH 03.04 - 03.07 4 1.8 Z18XE <Ecotec> 54316

03.05 - 03.10 4 2.0 Z20LER <Turbo Ecotec> 55457 560.060

08.05 - 03.10 4 1.8 Z18XER <Ecotec> 560.060

06.06 - 03.08 4 1.9 Z 19 DTH <Turbo Ecotec> (Diesel) 55457 560.060

12.06 - 03.08 4 2.2 Z22YH <Ecotec> 55457 560.060

**Astra Convertible**

TS 09.00 - 08.05 4 2.2 Z22SE 56318 575.068

05.03 - 12.04 4 2.0 Z20LET <Turbo Ecotec> 55457 560.060

**Astra Coupe**

TS 09.00 - 08.05 4 2.2 Z22SE 56318 575.068

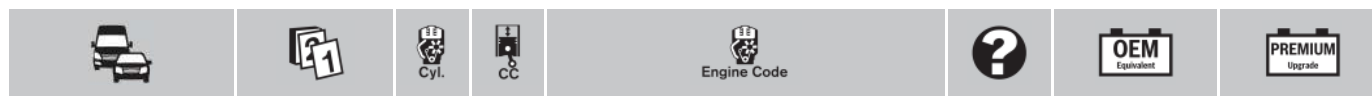


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Barina						
MF	01.89 - 08.91	4	1.3	G13B <LN5>		40B19RS
MH	09.91 - 04.94	4	1.3	G13B <LN5>		40B19RS
SB	04.94 - 07.97	4	1.2	C12NZ <L71>		55457 560.060
	04.94 - 09.98	4	1.6	C16XE <L91>; X16XE <L91>		55457 560.060
	04.94 - 03.01	4	1.4	C14NZ <2H6>; C14SE <L48>		55457 560.060
XC	04.01 - 10.05	4	1.4	Z14XE		55457 560.060
	09.01 - 10.05	4	1.8	Z18XE <Ecotec>		55457 560.060
	09.03 - 10.05	4	1.4	Z14XEP <Twinport ECO>		575.068
TK	11.05 - 10.11	4	1.6	F16D3		22FR-550 22FR-680
TM	11.11→	4	1.6	A16XER <LDE>	START STOP	LN3
					SSN	56219
	02.15→	4	1.4	A 14 NET		56219
Barina Spark						
MJ	10.10→	4	1.2	B12D1; B12D2		55066
Calibra						
YE	09.91 - 10.97	4	2.0	C20LET <M23>; C20NE <ML4>; C20XE <MT5>; X20XEV <L34>		55457 560.060
	08.95 - 10.97	6	2.5	C25XE, X25XE <MG4 F18>		55457 560.060
Caprice						
VQ	03.90 - 10.91	8	5.0	VU		22FR-550 22FR-680
VQ II	12.91 - 02.94	6	3.8	VH <LN3>		22FR-550 22FR-680
		8	5.0	VU		22FR-550 22FR-680
VR	03.94 - 08.94	6	3.8	VH <LN3>		22FR-550 22FR-680
		8	5.0	VU		22FR-550 22FR-680
VR II	09.94 - 04.95	6	3.8	VH <LN3>		22FR-550 22FR-680
		8	5.0	VU		22FR-550 22FR-680
VS	03.95 - 08.96	8	5.0	VU		22FR-550 22FR-680
	04.95 - 08.96	6	3.8	VH <LN3>		22FR-550 22FR-680
VS II	09.96 - 04.98	8	5.0	VU		22FR-550 22FR-680
	09.96 - 05.98	6	3.8	VH <LN3>; VS S/C <L67>		22FR-550 22FR-680
VS III	05.98 - 06.99	6	3.8	VH <LN3>; VS S/C <L67>		22FR-550 22FR-680
		8	5.0	VU		22FR-550 22FR-680
WH	06.99 - 07.01	6	3.8	VH <LN3>; VS S/C <L67>		22F-550 22F-680
		8	5.7	VF <LS1>		22F-550 22F-680
WH II	08.01 - 04.03	6	3.8	VH <LN3>		22F-550 22F-680
		8	5.7	VF <LS1>		22F-550 22F-680
WK	05.03 - 08.04	6	3.8	VH <LN3>		22FR-550 22FR-680
		8	5.7	VF <LS1>		22F-550 22F-680
WL	09.04 - 12.05	8	5.7	VF <LS1>		22F-550 22F-680
	09.04 - 08.06	6	3.6	H7 <Premium>		22F-550 22F-680
	01.06 - 08.06	8	6.0	6M		22F-550 22F-680
WM	09.06 - 05.13	6	3.6	H7 <Premium>		55457 560.060
		8	6.0	L98 <LS2>		55457 560.060
WN	06.13→	6	3.6	LWR		568.060





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<b>WN</b>	06.13→	8	6.0	L77	<b>568.060</b>	
<b>Captiva</b>						
<b>CG</b>	05.06 - 01.11	6	3.2	HMA <Alloytec>	<b>57013</b>	
	03.07 - 01.11	4	2.0	Z20S1 (Diesel)	<b>59095</b>	
<b>CGII</b>	02.11→	4	2.2	Z 22 D1 <LNQ> (Diesel)	<b>60038</b>	
			2.4	LE5	<b>56219</b>	
<b>Captiva AWD</b>						
<b>CGII</b>	02.11 - 12.13	6	3.0	LU1	<b>574.068R</b>	
	02.11→	4	2.2	Z 22 D1 <LNQ> (Diesel)	<b>60038</b>	
<b>Colorado</b>						
<b>RC</b>	07.08 - 06.12	4	2.4	Y24SE	<b>55B24LS</b>	
			3.0	4JJ1TCX (Diesel)	<b>95D31L</b>	<b>105D31L</b>
		6	3.6	H9 <HFV6 Euro3>	<b>110D26L</b>	
<b>RG</b>	06.12→	4	2.5	LVN (Diesel)	<b>60038</b>	
			2.8	LWH <APD> (Diesel)	<b>60038</b>	
<b>Colorado 7</b>						
<b>RG</b>	12.12→	4	2.8	LWH <APD> (Diesel)	<b>60038</b>	
<b>Combo</b>						
<b>SB</b>	02.96 - 06.97	4	1.4	C14NZ <2H6>	<b>55457</b>	<b>560.060</b>
	08.97 - 12.02	4	1.4	C14SE <L48>	<b>55457</b>	<b>560.060</b>
<b>XC</b>	10.01 - 04.05	4	1.6	Z16SE	<b>55457</b>	<b>560.060</b>
	09.04 - 04.12	4	1.4	Z14XEP	<b>54316</b>	
<b>Commodore</b>						
<b>VF</b>	06.13→	6	3.0	LFW <SIDI>	<b>574.068R</b>	
<b>Commodore / Calais</b>						
<b>VN</b>	08.88 - 09.91	6	3.8	VH <LN3>	<b>22FR-550</b>	<b>22FR-680</b>
		8	5.0	VU	<b>22FR-550</b>	<b>22FR-680</b>
<b>VN II</b>	03.90 - 09.91	6	3.8	VH <LN3>	<b>22FR-550</b>	<b>22FR-680</b>
		8	5.0	VU	<b>22FR-550</b>	<b>22FR-680</b>
<b>VP</b>	10.91 - 12.92	6	3.8	VH <LN3>	<b>22FR-550</b>	<b>22FR-680</b>
		8	5.0	VU	<b>22FR-550</b>	<b>22FR-680</b>
<b>VP II</b>	01.93 - 06.93	6	3.8	VH <LN3>	<b>22FR-550</b>	<b>22FR-680</b>
	02.93 - 06.93	8	5.0	VU	<b>22FR-550</b>	<b>22FR-680</b>
<b>VR</b>	07.93 - 08.94	6	3.8	VH <LN3>	<b>22FR-550</b>	<b>22FR-680</b>
		8	5.0	VU	<b>22FR-550</b>	<b>22FR-680</b>
<b>VR II</b>	09.94 - 03.95	6	3.8	VH <LN3>	<b>22FR-550</b>	<b>22FR-680</b>
		8	5.0	VU	<b>22FR-550</b>	<b>22FR-680</b>
<b>VS</b>	04.95 - 05.96	6	3.8	VH <LN3>	<b>22FR-550</b>	<b>22FR-680</b>
		8	5.0	VU	<b>22FR-550</b>	<b>22FR-680</b>
<b>VS II</b>	06.96 - 07.97	6	3.8	VH <LN3>; VS S/C <L67>	<b>22FR-550</b>	<b>22FR-680</b>
		8	5.0	VU	<b>22FR-550</b>	<b>22FR-680</b>
<b>VT</b>	09.97 - 05.99	6	3.8	VH <LN3>; VS S/C <L67>	<b>22F-550</b>	<b>22F-680</b>

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



								
<b>VT</b>	09.97 - 05.99	8	5.0	VM High Performance <LB9>; VM <LB9>			<b>22F-550</b>	<b>22F-680</b>
<b>VT II</b>	06.99 - 08.00	6	3.8	VH <LN3>; VS S/C <L67>			<b>22F-550</b>	<b>22F-680</b>
		8	5.7	VF <LS1>			<b>22F-550</b>	<b>22F-680</b>
<b>VX</b>	10.00 - 07.01	6	3.8	VH <LN3>; VS S/C <L67>			<b>22F-550</b>	<b>22F-680</b>
		8	5.7	VF <LS1>			<b>22F-550</b>	<b>22F-680</b>
<b>VX II</b>	08.01 - 09.02	6	3.8	VH <LN3>; VS S/C <L67>			<b>22F-550</b>	<b>22F-680</b>
		8	5.7	VF <LS1>			<b>22F-550</b>	<b>22F-680</b>
<b>VY</b>	10.02 - 07.03	6	3.8	VH <LN3>; VS S/C <L67>			<b>22F-550</b>	<b>22F-680</b>
		8	5.7	VF <LS1>			<b>22F-550</b>	<b>22F-680</b>
<b>VY II</b>	08.03 - 08.04	6	3.8	VH <LN3>; VS S/C <L67>			<b>22F-550</b>	<b>22F-680</b>
		8	5.7	VF <LS1>			<b>22F-550</b>	<b>22F-680</b>
<b>VZ</b>	09.04 - 08.06	8	5.7	VF <LS1>			<b>22F-550</b>	<b>22F-680</b>
	09.04 - 04.08	6	3.6	HB <Decontent>; H7 <Premium>			<b>22F-550</b>	<b>22F-680</b>
	01.06 - 08.06	8	6.0	L76			<b>22F-550</b>	<b>22F-680</b>
<b>VE</b>	09.06 - 05.13	6	3.6	HF LPG <LY7 (LPG)>; HNG H7; H7 <Premium>			<b>56219</b>	
		8	6.0	L98 <LS2>			<b>56219</b>	
<b>VE II</b>	09.06 - 06.13	6	3.6	LFX <SIDI>; LWR			<b>574.068R</b>	
<b>VE</b>	01.09 - 05.13	8	6.0	L76 AFM			<b>56638</b>	<b>574.068</b>
	09.09 - 05.13	6	3.0	HF <LF1 SIDI>			<b>56219</b>	
		3.6		HV <LLT SIDI>			<b>56219</b>	
						<b>56638</b>	<b>574.068</b>	
<b>VE II</b>	09.12 - 06.13	6	3.0	LFW <SIDI>			<b>574.068R</b>	
		8	6.0	L77			<b>574.068R</b>	
<b>VF</b>	06.13->	6	3.6	LFX <SIDI>; LWR			<b>56219</b>	
<b>Commodore SS</b>								
<b>VF</b>	06.13->	8	6.0	L77			<b>56219</b>	<b>568.060</b>
<b>Commodore Utility</b>								
<b>VG</b>	08.90 - 08.91	6	3.8	VH <LN3>			<b>22FR-550</b>	<b>22FR-680</b>
		8	5.0	VU			<b>22FR-550</b>	<b>22FR-680</b>
<b>VP</b>	09.91 - 06.93	6	3.8	VH <LN3>			<b>22FR-550</b>	<b>22FR-680</b>
		8	5.0	VU			<b>22FR-550</b>	<b>22FR-680</b>
<b>VR</b>	07.93 - 03.95	6	3.8	VH <LN3>			<b>22FR-550</b>	<b>22FR-680</b>
		8	5.0	VU			<b>22FR-550</b>	<b>22FR-680</b>
<b>VS</b>	04.95 - 05.96	6	3.8	VH <LN3>			<b>22FR-550</b>	<b>22FR-680</b>
		8	5.0	VU			<b>22FR-550</b>	<b>22FR-680</b>
<b>VS II</b>	06.96 - 07.97	6	3.8	VH <LN3>			<b>22FR-550</b>	<b>22FR-680</b>
		8	5.0	VU			<b>22FR-550</b>	<b>22FR-680</b>
<b>VS III</b>	05.98 - 12.00	6	3.8	VH <LN3>			<b>22F-550</b>	<b>22F-680</b>
		8	5.0	VU			<b>22F-550</b>	<b>22F-680</b>
<b>VU</b>	12.00 - 07.01	6	3.8	VH <LN3>			<b>22F-550</b>	<b>22F-680</b>
		8	5.7	VF <LS1>			<b>22F-550</b>	<b>22F-680</b>
<b>VU II</b>	08.01 - 09.02	6	3.8	VH <LN3>			<b>22F-550</b>	<b>22F-680</b>
		8	5.7	VF <LS1>			<b>22F-550</b>	<b>22F-680</b>





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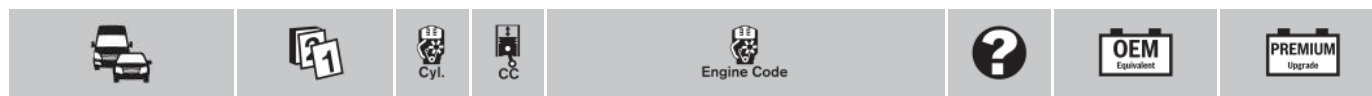
VY	10.02 - 07.03	6	3.8	VH <LN3>	22F-550	22F-680
		8	5.7	VF <LS1>	22F-550	22F-680
VY II	08.03 - 08.04	6	3.8	VH <LN3>	22F-550	22F-680
		8	5.7	VF <LS1>	22F-550	22F-680
VZ	09.04 - 08.07	6	3.6	HB <HFV6>	22F-550	22F-680
		8	5.7	VF <LS1>	22F-550	22F-680
	01.06 - 08.07	8	6.0	6M	22F-550	22F-680
	05.07 - 08.07	6	3.6	H7 <Premium>	22FR-550	22FR-680
VE	10.07 - 05.13	6	3.6	HB <HFV6>	22FR-550	22FR-680
				H7 <Premium>	22FR-550	22FR-680
		8	6.0	6M	22FR-550	22FR-680
	09.09 - 05.13	6	3.6	HV <LLT SIDI>; H7 LPG <LY7 (LPG)>	56219	
8		6.0	L76 AFM	56219		
VE II	09.12 - 06.13	6	3.6	LFX <SIDI>	574.068R	
		8	6.0	L77	574.068R	
VF	06.13→	6	3.6	LFX <SIDI>	56219	
<b>Commodore Utility SS</b>						
VF	06.13→	8	6.0	L77	56219	
<b>Crewman</b>						
VY II	08.03 - 08.04	6	3.8	VH <LN3>	22F-550	22F-680
		8	5.7	VF <LS1>	22F-550	22F-680
VZ	09.04 - 08.06	6	3.6	HB <HFV6>	22F-550	22F-680
		8	5.7	VF <LS1>	22F-550	22F-680
<b>Cruze</b>						
	12.03 - 06.06	4	1.5	M15A	40B19L	
					40B19R	
JG	05.09 - 02.11	4	1.8	Z18XER <Ecotec>	55457	560.060
			2.0	Z20DMH <LLW> (Diesel)	56638	574.068
JH	03.11→	4	1.8	F18D4 <2HO>; Z18XER <Ecotec>	56219	
			2.0	Z20DMH <LLW> (Diesel); Z20D1 <LNP> (Diesel)	59095	
	09.11→	4	1.4	A 14 NET <Ecotec>	56219	
	02.15→	4	1.6	A 16 LET <Ecotec>	568.060	
<b>Cruze 1.8</b>						
J300	05.09→	4	1.8	F18D4	56219	
<b>Epica</b>						
EP	10.07 - 06.08	6	2.0	X20D1	22FR-550	22FR-680
	10.07 - 02.11	6	2.5	X25D1	22FR-550	22FR-680
	05.08 - 02.11	4	2.0	Z20S1 (Diesel)	59095	
<b>Frontera</b>						
UT	01.95 - 03.99	4	2.0	X20SE OHC <Ecotec>	55D26L	110D26L
B	03.99 - 08.05	4	2.2	X22SE	55D26L	110D26L
		6	3.2	6VD1	55D26L	110D26L

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



Jackaroo						
UBS	07.88 - 12.90	4	2.6	4ZE1	22FR-550	22FR-680
	07.88 - 04.92	4	2.8	4JB1-T (Diesel)	95D31R	105D31R
	05.92 - 06.95	4	3.1	4JG2 (Diesel)	55D26R	110D26R
6		3.2	6VD1	55D26R	110D26R	
UBS II	07.95 - 12.97	4	3.1	4JG2 (Diesel)	55D26R	110D26R
		6	3.2	6VD1	55D26R	110D26R
L8	01.98 - 09.99	4	3.0	4JX1 (Diesel)	95D31R	105D31R
	01.98 - 01.04	6	3.5	6VE1	55D23R	90D23R
U8	10.99 - 09.04	4	3.0	4JX1 (Diesel)	95D31R	105D31R
Malibu 2.0 CDRi						
KL3G, V300	06.12→	4	2.0	LBS <Euro 5> (Diesel)	60038	
Malibu 2.4						
KL3G, V300	03.12→	4	2.4	LE9 <Euro 5>	56219	
Monaro						
V2	12.01 - 12.02	6	3.8	VS S/C <L67>	22F-550	22F-680
		8	5.7	VF <LS1>	22FR-550	22FR-680
V2 II	01.03 - 07.03	6	3.8	VS S/C <L67>	22F-550	22F-680
		8	5.7	VF <LS1>	22F-550	22F-680
V2 III	08.03 - 08.06	8	5.7	VF <LS1>	22F-550	22F-680
VZ	09.04 - 08.06	8	5.7	VF <LS1>	22F-550	22F-680
Nova						
LE	07.89 - 08.91	4	1.4	6AFC <L41>	22NF-330D	
			1.6	4AFC <LC9>	22NF-330D	
LF	09.91 - 11.92	4	1.4	6AFC <L41>	22NF-330D	
	09.91 - 10.94	4	1.6	4AFC <LC9>; 4AFE <L55>	22NF-330D	
	10.92 - 10.94	4	1.8	7AFE <LV6>	22NF-330D	
LG	09.94 - 09.96	4	1.6	4AFE <L55>	22NF-330D	
			1.8	7AFE <LV6>	22NF-330D	
Rodeo						
	07.88 - 12.90	4	2.6	4ZE1	22FR-550	22FR-680
TF	07.88 - 12.92	4	2.5	4JA1 (Diesel)	95D31R	105D31R
	04.90 - 03.03	4	2.8	4JB1 (Diesel)	95D31R	105D31R
	01.91 - 12.92	4	2.3	4ZD1	22NF-330D	
	01.91 - 12.96	4	2.6	4ZE1	22FR-550	22FR-680
	11.95 - 05.98	4	2.6	4ZE1	55D23L	90D23L
R7	01.97 - 05.98	4	2.6	4ZE1	55D23L	90D23L
TF	06.98 - 02.03	4	2.2	22NE	55D23L	90D23L
	06.98 - 03.03	6	3.2	6VD1	55D23L	90D23L
	12.01 - 02.03	4	2.8	4JB1 (Diesel)	95D31L	105D31L
3.0		4JH1 (Diesel)	95D31R	105D31R		
RA	03.03 - 01.06	6	3.5	6VE1	55D23L	90D23L
	03.03 - 01.07	4	3.0	4JH1TC (Diesel)	95D31L	105D31L





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RA	03.03 - 06.08	4	2.4	C24SE	55D23L	90D23L
			3.0	4JH1 (Diesel); 4JH1TC (Diesel)	95D31R	105D31R
	01.06 - 06.08	6	3.6	H9 <HFV6 Euro3>	55D23L	90D23L

**Statesman**

VQ	03.90 - 10.91	8	5.0	VU	22FR-550	22FR-680
VQ II	12.91 - 02.94	6	3.8	VH <LN3>	22FR-550	22FR-680
		8	5.0	VU	22FR-550	22FR-680
VR	03.94 - 04.95	6	3.8	VH <LN3>	22FR-550	22FR-680
		8	5.0	VU	22FR-550	22FR-680
VS	03.95 - 08.96	6	3.8	VH <LN3>	22FR-550	22FR-680
		8	5.0	VU	22FR-550	22FR-680
VS II	09.96 - 04.98	6	3.8	VH <LN3>; VS S/C <L67>	22FR-550	22FR-680
	09.96 - 05.98	8	5.0	VU	22FR-550	22FR-680
VS III	05.98 - 06.99	6	3.8	VH <LN3>; VS S/C <L67>	22FR-550	22FR-680
		8	5.0	VU	22FR-550	22FR-680
WH	06.99 - 07.01	6	3.8	VH <LN3>	22FR-550	22FR-680
				VS S/C <L67>	22F-550	22F-680
		8	5.7	VF <LS1>	22F-550	22F-680
WH II	08.01 - 04.03	6	3.8	VH <LN3>; VS S/C <L67>	22F-550	22F-680
		8	5.7	VF <LS1>	22F-550	22F-680
WK	05.03 - 08.04	6	3.8	VH <LN3>; VS S/C <L67>	22F-550	22F-680
	08.03 - 08.04	8	5.7	VF <LS1>	22F-550	22F-680
WL	09.04 - 12.05	8	5.7	VF <LS1>	22F-550	22F-680
	09.04 - 08.06	6	3.6	H7 <Premium>	22F-550	22F-680
	01.06 - 08.06	8	6.0	6M	22F-550	22F-680
WM	09.06 - 08.09	6	3.6	H7 <Premium>	22F-550	22F-680
	09.06 - 08.10	8	6.0	L98 <LS2>	22F-550	22F-680

**Suburban**

K8	01.98 - 08.05	8	5.7	L31	22FR-550	22FR-680
			6.5	L65 (Diesel)	22FR-550	22FR-680

**Tigra**

XC	09.04 - 09.07	4	1.8	Z18XE <Ecotec>	55457	560.060
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**Trax**

TJ	09.13 →	4	1.4	A 14 NET <Ecotec>	56219	
			1.8	F18D4 <2H0>	56219	

**Vectra**

JR	06.97 - 07.98	4	2.0	C20SEL <L34>	55457	560.060
		6	2.5	X25XE <L80>	55457	560.060
JS	08.98 - 06.99	4	2.0	C20SEL <L34>	55457	560.060
			2.2	C22SEL <LA9>	22F-550	22F-680
		6	2.5	X25XE <L80>	55457	560.060
JS II	07.99 - 08.00	6	2.5	X25XE <L80>	55457	560.060

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.

								
<b>JS II</b>	07.99 - 09.02	4	2.0	C20SEL <L34>			<b>55457</b>	<b>560.060</b>
				C22SEL <LA9>			<b>56318</b>	<b>575.068</b>
	09.00 - 09.02	6	2.6	Y26SE			<b>56318</b>	<b>575.068</b>
<b>ZC</b>	09.01 - 12.06	4	2.2	Z22SE			<b>55457</b>	<b>560.060</b>
	08.02→	6	3.2	Z32SE <Ecotec>			<b>56318</b>	<b>575.068</b>
<b>Viva</b>								
<b>JF</b>	10.05 - 05.09	4	1.8	F18D3			<b>22FR-550</b>	<b>22FR-680</b>
<b>Zafira</b>								
<b>TT</b>	09.00 - 08.05	4	2.2	Z22SE			<b>55457</b>	<b>560.060</b>
<b>HONDA</b>								
<b>Accord</b>								
<b>CA/CB/CD</b>	11.89 - 09.93	4	2.2	F22A5			<b>55B24RS</b>	
	01.93 - 01.02	4	2.2	F22A6; F22B1			<b>55D23L</b>	<b>90D23L</b>
				F22B3			<b>22F-550DF</b>	
<b>CG</b>	09.97 - 08.02	6	3.0	J30A1			<b>55D26R</b>	<b>110D26R</b>
<b>CA/CB/CD</b>	12.97 - 04.99	4	2.3	F23A1			<b>22F-550DF</b>	
	12.97 - 11.06	6	3.0	J30A1; J30A4			<b>55D26R</b>	<b>110D26R</b>
	01.99 - 05.03	4	2.3	F23A1			<b>55D23L</b>	<b>90D23L</b>
	08.03 - 10.06	4	2.4	K24A4			<b>55B24LS</b>	
	09.07→	4	2.4	K24K2 <DOHC i-VTEC>; K24Z2			<b>55D23L</b>	<b>90D23L</b>
04.08→	6	3.5	J35Z3 <SOHC i-VTEC>			<b>55D23L</b>	<b>90D23L</b>	
<b>Accord Aerodeck</b>								
<b>CA/CB/CD</b>	06.93 - 01.97	4	2.2	F22B1			<b>55D23L</b>	<b>90D23L</b>
<b>CB/CC/CD/CE</b>	10.93 - 06.96	4	2.2	F22B3			<b>55D23L</b>	<b>90D23L</b>
<b>Accord Euro</b>								
<b>CL9</b>	02.03 - 06.08	4	2.4	K24A3			<b>55B24LS</b>	
<b>CU</b>	07.08 - 12.15	4	2.4	K24Z3			<b>55D23L</b>	<b>90D23L</b>
<b>Accord Tourer</b>								
<b>CL/CN/CM</b>	02.03 - 08.08	4	2.4	K24A3			<b>55B24LS</b>	
<b>City</b>								
<b>2PS</b>	09.08 - 12.13	4	1.5	L15A7			<b>40B19L</b>	
<b>Civic</b>								
<b>EC/ED/EE</b>	10.87 - 10.91	4	1.5	D15B4			<b>55B24RS</b>	
<b>EG/EH</b>	10.91 - 09.93	4	1.3	D13B2			<b>55B24RS</b>	
	11.91 - 09.95	4	1.5	D15B4; D15B7; D15Z1; D15Z2			<b>40B19RS</b>	
				D16A6; D16Y1			<b>40B19RS</b>	
<b>EJ/EK</b>	10.95 - 10.98	4	1.6	B16A2			<b>55B24L</b>	
	10.95 - 09.00	4	1.6	D16A1; D16Y4			<b>55B24RS</b>	
	10.95 - 12.00	4	1.6	D16Y5			<b>55B24RS</b>	
	10.95 - 02.01	4	1.6	B16A2			<b>55B24RS</b>	
D16Y5						<b>55B24L</b>		





◀ HONDA

	09.96 - 08.00	4	1.6	B16A2; D16Y8 <VTEC>		55B24RS
<b>EJ</b>	04.99 - 04.00	4	1.6	D16Y7		55B24L
<b>EJ/EK</b>	10.00 - 01.06	4	1.7	D17A2		55B24RS
<b>ES</b>	10.00 - 01.06	4	1.7	D17A2; D17Z1		55B24RS
	02.01 - 12.02	4	1.4	D14Z5		40B19RS
	11.01 - 03.05	4	1.3	LDA1		55B24RS
<b>ES</b>	01.02 - 12.05	4	1.3	LDA1		55B24RS
<b>ET</b>	05.03 - 12.04	4	2.0	K20A3		55B24RS
<b>FD</b>	09.05 - 08.10	4	1.8	R18A1		55B24LS
	11.05 - 01.12	4	1.8	R18A1 <i-VTEC>		55B24LS
<b>FD</b>	11.05 - 01.12	4	2.0	K20Z2		55D23L 90D23L
	01.06 - 12.10	4	1.3	LDA2		55D26R 110D26R
	04.06 - 08.10	4	2.0	K20A		55B24RS
<b>UH</b>	06.06 - 01.12	4	1.8	R18A11 <i-VTEC>		55B24RS
	09.11 - 08.15	4	1.8	R18Z1		55B24L

**Civic Hatchback**

<b>FK/FN</b>	09.05 - 12.11	4	1.8	R18A2		55B24LS
	01.07 - 12.11	4	2.0	K20Z4		55B24RS

**Civic 1.6 i-DTEC Hatchback**

<b>FK/FN</b>	12.12 - 02.17	4	1.6	N16A1 (Diesel)		LN3
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**Civic 2.0**

<b>2HC</b>	07.12→	4	2.0	R20A1		56219
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**Civic 2.0 Sedan S**

	06.12→	4	2.0	R20A1		55B24L
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**Concerto**

	11.88 - 07.93	4	1.6	D16A6		55066
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**CR-V**

<b>RD</b>	09.96 - 12.01	4	2.0	B20B3		55B24LS
	01.03 - 12.11	4	2.4	K24A1; K24Z1		55B24LS

**CR-V 2.0i**

<b>RM</b>	11.11 - 08.16	4	2.0	R20A		55B24LS
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**CRX**

<b>ED/EE</b>	11.87 - 05.92	4	1.6	D16A8		40B19R
<b>EG/EH</b>	06.92 - 06.98	4	1.6	B16A2		40B19RS

**HR-V**

<b>GH</b>	12.98 - 07.02	4	1.6	D16W1; D16W2		55B24LS
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**HR-V 1.8**

	02.15→	4	1.8	R18ZF		55B24LS
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**Insight**

	01.89 - 01.99	5	2.0	G20A		40B19R
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\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.

							
<b>ZE</b>	01.00 - 12.06	3	1.0	ECA1		<b>40B19R</b>	
<b>Insight 1.3 Hybrid</b>							
<b>ZE</b>	03.09 - 02.14	4	1.3	LDA3 <MF6>		<b>40B19L</b>	
<b>Integra</b>							
<b>DA</b>	06.89 - 07.93	4	1.8	B18A1		<b>55D26R</b>	<b>110D26R</b>
<b>DC</b>	08.93 - 10.99	4	1.8	B18B2; B18C2		<b>55D26R</b>	<b>110D26R</b>
	07.01 - 07.06	4	2.0	K20A		<b>55B24RS</b>	
<b>Integra Type-R</b>							
<b>DC</b>	01.98 - 10.01	4	1.8	B18C6		<b>55B24LS</b>	
	02.02 →	4	2.0	K20A		<b>55B24LS</b>	
<b>Jazz</b>							
<b>GD</b>	03.02 - 12.08	4	1.3	L13A1		<b>40B19L</b>	
						<b>40B19R</b>	
	09.02 - 10.07	4	1.5	L15A		<b>40B19L</b>	
	06.04 - 01.08	4	1.5	L15A1		<b>40B19L</b>	
<b>GE/GG</b>	10.08 - 12.15	4	1.3	L13Z1		<b>40B19L</b>	
	10.08 →	4	1.5	L15A <SOHC>		<b>40B19L</b>	
<b>Jazz 1.3 Hybrid</b>							
<b>GP</b>	09.10 - 12.15	4	1.3	LDA3 <MF6>		<b>40B19L</b>	
<b>Legend</b>							
<b>KA</b>	01.87 - 02.91	6	2.7	C27A1		<b>55D26L</b>	<b>110D26L</b>
<b>KA3</b>	10.87 - 02.91	6	2.7	C27A1		<b>55D26L</b>	<b>110D26L</b>
<b>KA</b>	03.91 - 04.96	6	3.2	C32A3		<b>55D26R</b>	<b>110D26R</b>
<b>KA8</b>	03.91 - 04.96	6	3.2	C32A3		<b>110D26R</b>	
<b>KA/HS</b>	01.96 - 04.98	6	3.5	C35A2		<b>55B24RS</b>	
	04.98 - 12.04	6	3.5	C35A5		<b>55D26R</b>	<b>110D26R</b>
<b>KB</b>	10.04 - 09.08	6	3.5	J35A8		<b>55D26R</b>	<b>110D26R</b>
	09.08 - 06.12	6	3.7	J37A		<b>110D26R</b>	
<b>MDX</b>							
<b>YD1</b>	03.03 - 06.06	6	3.5	J35A		<b>55D23L</b>	<b>90D23L</b>
<b>NSX</b>							
<b>NA</b>	06.90 - 06.00	6	3.0	C30A3; C30A4		<b>40B19R</b>	
	09.90 - 12.05	6	3.0	C30A		<b>40B19R</b>	
<b>NA</b>	01.97 - 09.05	6	3.2	C32B2		<b>40B19R</b>	
<b>NSX-T</b>							
<b>NA</b>	01.95 - 01.05	6	3.0	C30A4		<b>40B19R</b>	
	01.97 - 09.05	6	3.2	C32B2		<b>40B19R</b>	
<b>Odyssey</b>							
<b>RA</b>	06.95 - 12.97	4	2.2	F22B6 <MPFI>		<b>55D23L</b>	<b>90D23L</b>
	01.98 - 02.00	4	2.3	F23A7		<b>55D26L</b>	<b>110D26L</b>
	03.00 - 06.04	4	2.3	F23Z4		<b>55D26R</b>	<b>110D26R</b>
		6	3.0	J30A3		<b>55D23R</b>	<b>90D23R</b>





◀ HONDA

	10.03 - 10.08	4	2.4	K24A		55D23L	90D23L
	10.08 - 11.13	4	2.4	K24A		55B24L	
RC	11.13→	4	2.4	K24W		Q85L	
<b>Prelude</b>							
BA	04.87 - 01.92	4	2.0	B20A5; B20A6		55D26R	110D26R
	10.87 - 12.90	4	2.0	B20A7		22NF-330D	
BB	09.91 - 12.96	4	2.3	H23A1		55D26L	110D26L
	12.91 - 07.02	4	2.2	F22A1; F22A6; H22A1; H22A4		55D26L	110D26L
<b>S2000</b>							
	04.99 - 06.09	4	2.0	F20C1 <S2A>		55B24LS	

**HSV (HOLDEN SPECIAL VEHICLES)**

<b>Avalanche Utility</b>							
VY II	03.04 - 09.04	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
VZ	10.04 - 12.05	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
<b>Avalanche Wagon</b>							
VY II	12.03 - 09.04	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
VZ	10.04 - 12.05	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
<b>Avalanche XUV</b>							
VZ	10.04 - 12.05	8	5.7	VF <LS1>		22F-550	22F-680
<b>Clubsport</b>							
VN	08.88 - 10.91	8	5.0	VU		22FR-550	22FR-680
VP	11.91 - 07.93	8	5.0	VU		22FR-550	22FR-680
VR	06.93 - 04.95	8	5.0	VU		22FR-550	22FR-680
VS	05.95 - 08.97	8	5.0	VU		22FR-550	22FR-680
VT	09.97 - 05.99	8	5.0	VM <LB9>		22F-550	22F-680
VT II	06.99 - 08.00	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
VX	09.00 - 08.02	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
VY	09.02 - 08.03	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
VY II	09.03 - 09.04	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
VZ	10.04 - 07.06	8	6.0	VF <LS2, Gen IV>		22F-550	22F-680
<b>Clubsport R8</b>							
VT II	06.99 - 08.00	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
VX	06.00 - 08.02	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
VY	09.02 - 08.03	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
VY II	09.03 - 09.04	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
VZ	10.04 - 07.06	8	6.0	VF <LS2, Gen IV>		22F-550	22F-680
VE	08.06 - 05.13	8	6.0	ZL <LS2 307>		22F-550	22F-680
	03.08 - 05.13	8	6.2	ZLF <LS3 317>		22F-550	22F-680
<b>Clubsport R8 Tourer</b>							
VE	08.06 - 05.13	8	6.0	ZL <LS2 307>		22F-550	22F-680

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.





VE	03.08 - 05.13	8	6.2	ZLF <LS3 317>		22F-550	22F-680
<b>Coupe GTO</b>							
V2	09.00 - 01.03	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
V2 II	02.03 - 08.03	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
V2 III	09.03 - 09.04	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
VZ	10.04 - 12.06	8	6.0	VF <LS1, Gen IV>		22F-550	22F-680
<b>Coupe GTS</b>							
V2	09.00 - 01.03	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
V2 II	02.03 - 02.04	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
V2 III	03.04 - 12.04	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
<b>Coupe4</b>							
V2 III	06.04 - 09.04	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
VZ	10.04 - 12.05	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
<b>Grange</b>							
VS	05.95 - 05.99	8	5.0	VU		22FR-550	22FR-680
			5.7	VF <LS1>		22FR-550	22FR-680
WH	06.99 - 08.01	8	5.7	VF <LS1, Gen III>		22FR-550	22FR-680
WH II	09.01 - 08.03	8	5.7	VF <LS1, Gen III>		22FR-550	22FR-680
WK	09.03 - 09.04	8	5.7	VF <LS1, Gen III>		22F-550	22F-680
WL	10.04 - 12.06	8	6.0	VF <LS1, Gen IV>		22F-550	22F-680
WM	08.06 - 05.13	8	6.0	ZL <LS2 307>		22F-550	22F-680
	03.08 - 05.13	8	6.2	ZLF <LS3 317>		22F-550	22F-680
<b>Group A</b>							
VN	06.91 - 12.91	8	5.0	VU		22FR-550	22FR-680
<b>GTS</b>							
VP	11.91 - 07.93	8	5.0	VU		22FR-550	22FR-680
VR	06.93 - 04.95	8	5.7	VF <LS1>		22FR-550	22FR-680
VS	05.95 - 08.97	8	5.7	VF <LS1>		22FR-550	22FR-680
VT	09.97 - 05.99	8	5.7	VF <LS1>		22FR-550	22FR-680
VT II	06.99 - 08.00	8	5.7	VF <LS1, Gen III>		22FR-550	22FR-680
VX	09.00 - 08.02	8	5.7	VF <LS1, Gen III>		22FR-550	22FR-680
VY	09.02 - 09.04	8	5.7	VF <LS1, Gen III>		22FR-550	22FR-680
VZ	10.04 - 07.06	8	6.0	VF <LS2, Gen IV>		22F-550	22F-680
VE	08.06 - 05.13	8	6.0	ZL <LS2 307>		22F-550	22F-680
	03.08 - 05.13	8	6.2	ZLF <LS3 317>		22F-550	22F-680
<b>Maloo</b>							
VG	08.88 - 10.91	8	5.0	VU		22FR-550	22FR-680
VR	06.93 - 04.95	8	5.0	VU		22FR-550	22FR-680
VS	05.95 - 12.00	8	5.0	VU		22FR-550	22FR-680
VU	03.01 - 08.01	8	5.7	VF <LS1, Gen III>		22FR-550	22FR-680
VU II	09.01 - 09.02	8	5.7	VF <LS1, Gen III>		22FR-550	22FR-680
VY	10.02 - 08.03	8	5.7	VF <LS1, Gen III>		22FR-550	22FR-680
VY II	09.03 - 09.04	8	5.7	VF <LS1, Gen III>		22F-550	22F-680





## ◀ HSV

VZ	10.04 - 08.07	8	6.0	VF <LS1, Gen IV>	22F-550	22F-680
VZ II	01.07 - 08.07	8	6.0	ZL <LS2 307>	22F-550	22F-680
VE	03.08 - 05.13	8	6.2	ZLF <LS3 317>	22F-550	22F-680

**Maloo R8**

VU	03.01 - 08.01	8	5.7	VF <LS1, Gen III>	22FR-550	22FR-680
VU II	09.01 - 09.02	8	5.7	VF <LS1, Gen III>	22FR-550	22FR-680
VY	10.02 - 08.03	8	5.7	VF <LS1, Gen III>	22FR-550	22FR-680
VY II	09.03 - 09.04	8	5.7	VF <LS1, Gen III>	22F-550	22F-680
VZ	10.04 - 08.07	8	6.0	VF <LS1, Gen IV>	22F-550	22F-680

**Senator**

VP	11.91 - 07.93	8	5.0	VU	22FR-550	22FR-680
VR	06.93 - 04.95	8	5.0	VU	22FR-550	22FR-680
			5.7	VF <LS1>	22FR-550	22FR-680
VS	05.95 - 08.97	8	5.0	VU	22FR-550	22FR-680
			5.7	VF <LS1>	22FR-550	22FR-680
VT	09.97 - 05.99	8	5.0	VM <LB9>	22FR-550	22FR-680
			5.7	VF <LS1>	22FR-550	22FR-680
VT II	06.99 - 08.00	8	5.7	VF <LS1, Gen III>	22FR-550	22FR-680
VX	09.00 - 08.02	8	5.7	VF <LS1, Gen III>	22FR-550	22FR-680
VY	09.02 - 08.03	8	5.7	VF <LS1, Gen III>	22FR-550	22FR-680
VY II	09.03 - 09.04	8	5.7	VF <LS1, Gen III>	22F-550	22F-680
VZ	10.04 - 07.06	8	6.0	VF <LS2, Gen IV>	22F-550	22F-680
VE	08.06 - 05.13	8	6.0	ZL <LS2 307>	22F-550	22F-680

**Senator Signature**

VE	03.08 - 05.13	8	6.2	ZLF <LS3 317>	22F-550	22F-680
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**SV6000**

VZ	10.04 - 07.06	8	6.0	VF <LS2, Gen IV>	22F-550	22F-680
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**VXR**

AH	10.06→	4	2.0	Z200LER	22F-550	22F-680
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**XU6**

VT	09.97 - 08.00	6	3.8	VS <L67>	22F-550	22F-680
VX	09.00 - 08.02	6	3.8	VS <L67>	22F-550	22F-680
VY	09.02 - 06.03	6	3.8	VS <L67>	22F-550	22F-680

**HYUNDAI****Accent**

LC	05.00 - 02.03	4	1.5	G4EC-G <DOHC Alpha>	56219	
	10.01 - 09.08	4	1.6	Alpha	56219	
LC	03.03 - 03.06	4	1.6	G4ED-G	56219	
MC, MCT	04.06 - 02.12	4	1.6	G4ED <(A7) 16AD>	22F-550	22FR-680

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.

								
<b>RB</b>	01.11→	4	1.6	D4FB <(1E) U162> (Diesel)			<b>55D26R</b>	<b>110D26R</b>
	09.11 - 08.16	4	1.6				<b>50D20L</b>	
<b>Accent 1.6</b>								
<b>RB</b>	11.10→	4	1.6	G4FC <(D2) 16GM>			<b>50D20L</b>	
<b>Coupe</b>								
<b>RD</b>	05.96 - 04.02	4	2.0	G4... <Beta>			<b>22FR-550</b>	<b>22FR-680</b>
	07.97 - 04.02	4	1.8	G4GM <Beta>			<b>22FR-550</b>	<b>22FR-680</b>
<b>Elantra</b>								
<b>XD</b>	06.00 - 08.06	4	1.8	G4GB			<b>22F-550DF</b>	
	08.00 - 09.03	4	1.8	G4GB			<b>22F-550</b>	<b>22F-680</b>
	08.00 - 09.06	4	2.0	G4GC... <(B2) 20BT>			<b>22F-550</b>	<b>22F-680</b>
<b>MD, UD</b>	02.11 - 11.15	4	1.8	G4NBB <(N3) 18N>			<b>56219</b>	
<b>Elantra GT 1.8 Hatchback</b>								
	09.12 - 08.13	4	1.8				<b>56219</b>	
<b>Elantra GT 2.0 Hatchback</b>								
	09.13→	4	2.0				<b>50D20L</b>	
<b>Excel</b>								
<b>X2</b>	02.90 - 07.94	4	1.5	G4DJ			<b>22F-550DF</b>	
<b>X3</b>	07.94 - 07.99	4	1.5	G4EK; G4FK <DOHC>			<b>22F-550DF</b>	
<b>Getz</b>								
<b>TB</b>	10.02 - 09.05	4	1.5	G4EC2 <DOHC Alpha II>			<b>22F-550</b>	<b>22F-680</b>
	03.03 - 08.05	4	1.3	G4E-A			<b>22F-550</b>	<b>22F-680</b>
	09.05 - 06.09	4	1.4	G4EE... <(A5) 14AD>			<b>55066</b>	
	10.05 - 06.09	4	1.6	G4ED...			<b>22F-550</b>	<b>22F-680</b>
<b>Grandeur</b>								
<b>XG</b>	09.98 - 03.02	6	2.5	G6BV <Delta>			<b>110D26L</b>	
	09.98→	6	3.0	G6CT <Sigma>; Sigma			<b>110D26L</b>	
<b>TG</b>	12.05 - 11.10	6	3.8	G6DA5 <DOHC>			<b>110D26L</b>	
	07.06 - 11.10	4	2.2	D4EB <(2D) D22> (Diesel)			<b>575.068</b>	
<b>iLoad</b>								
	03.08→	4	2.5	D4CB... <(6A) A25> (Diesel); D4CB... <(6A) A25/(6B) A25B> (Diesel)			<b>95D31R</b>	<b>105D31R</b>
<b>iMax</b>								
	03.08→	4	2.5	D4CB <(6A) A25> (Diesel)			<b>95D31R</b>	<b>105D31R</b>
	12.08→	4	2.5	D4CB... <(6A) A25/(6B) A25B> (Diesel)			<b>105D31R</b>	
<b>ix35</b>								
<b>LM, EL</b>	11.10→	4	2.4	G4KG <L4 Theta FR>			<b>110D26L</b>	
<b>iX35</b>								
<b>LM, EL</b>	01.10 - 08.13	4	2.0	G4KD <(L5) 20T2>			<b>55D23L</b>	<b>90D23L</b>
	01.10 - 07.15	4	2.0	D4HA <(2E) R20> (Diesel)			<b>95D31R</b>	<b>105D31R</b>





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ix35 2.4 4x4								
LM, EL	11.10 - 07.15	4	2.4	G4KE <(L6) 24T2>			110D26L	
i20								
PB, PBT	01.09 - 03.12	4	1.6	G4FC <(D2) 16GM>			50D20L	
	01.09 - 10.14	4	1.4	G4FA <(D1) 14GM>			50D20L	
i30								
FD, FDH	09.07 - 09.12	4	1.6	D4FB <(1C) U16/ (1E) U162> (Diesel)	START STOP		LN3	
	09.07 - 01.13	4	2.0	G4GC... <(B2) 20BT>			55D23L 90D23L	
	03.08 - 03.11	4	2.0	G4GC... <(B2) 20BT>			55066	
	03.08 - 09.12	4	1.6	G4FC <(D2) 16GM>			40B19L	
GD	12.11→	4	1.6	D4FB <(1E) U162> (Diesel)	START STOP		LN3	
	02.14→	4	1.8	G4NBB <(N3) 18N>			55D23L 90D23L	
i30 1.6 GDI								
GD	12.11→	4	1.6	G4FD <(D2) 16GM>			55066	
i30 1.6 GDI CW								
GD	03.12→	4	1.6	G4FD <(D2) 16GM>			55D23L 90D23L	
i40								
VF	04.11→	4	1.7	D4FD <(1F) U172> (Diesel)			55D26R 110D26R	
			2.0	G4NC <(2G) N20>			110D26L	
i45								
	04.10 - 01.13	4	2.0				55D26R 110D26R	
YF	09.10 - 03.14	4	2.4	G4K... <(L6) 24T2>			110D26L	
Lantra								
J1	10.90 - 04.95	4	1.6	G4CR <New Sirius>			22FR-550	
				G4DJ <New Sirius>			22F-550DF	
				06.92 - 04.95	4	1.8	G4CN <New Sirius>	
J2	08.95 - 02.01	4	1.8	G4GM			55D23L 90D23L	
Santa Fe								
SM	02.00 - 12.05	4	2.4	G4JSX			56219	
CM	03.06 - 11.09	4	2.2	D4EB <(2D) D22> (Diesel)			574.068	
			6	2.7	G6EA <(F1) 27MU>			574.068
	01.07 - 08.09	6	3.3					55D26L 110D26L
			3.5					55D26R 110D26R
DM	09.12→	4	2.2	D4HB <(2F) R22> (Diesel)			95D31R 105D31R	
Santa Fe 2.4 GDI 4WD								
DM	09.12→	4	2.4	<(L6) 24T2>			55D26R 110D26R	
Santa Fe 2.4 4x4								
DM	09.13→	4	2.4				55D26R 110D26R	

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



Model	Year Range	Cyl.	CC	Engine Code	Part Number	Part Number
<b>Scoupe</b>						
	02.90 - 05.95	4	1.5	G4DJ; G4DJ <New Orion>; G4EK <Alpha>; G4EK <SOHC>; G4EK-TC <Alpha>	<b>22FR-550</b>	
<b>Sonata</b>						
Y2	01.89 - 10.93	4	2.4	G4CS VIN-S <New Sirius 4G64>	<b>22FR-550</b>	<b>22FR-680</b>
	09.89 - 06.93	6	3.0	G6AT <6G72>	<b>22FR-550</b>	<b>22FR-680</b>
EF	01.02 - 12.05	6	2.4	Sirius I4 <DOHC>	<b>22F-550DF</b>	
	10.02 - 07.05	6	2.7	Delta V6	<b>110D26L</b>	
NF	10.05 - 12.11	4	2.4	G4JSY <VTVT>	<b>55457</b>	<b>560.060</b>
<b>Sonata II</b>						
Y3	07.93 - 04.96	4	2.0	G4CP <New Sirius>	<b>22FR-550</b>	<b>22FR-680</b>
	07.93 - 06.98	6	3.0	G6AT	<b>22FR-550</b>	<b>22FR-680</b>
<b>Sonata III</b>						
EF	03.98 - 03.01	6	2.5	G6AV	<b>574.068</b>	
<b>Sonata IV</b>						
EF	01.01 - 09.04	4	2.0	G4JP	<b>22F-550DF</b>	
	04.01 - 01.06	6	2.7	G6BA	<b>56219</b>	
<b>Sonata V</b>						
NF	12.04 - 12.08	6	3.3	G6DB <(J1) 33LD>	<b>22F-550DF</b>	
<b>Terracan</b>						
HP	01.01 - 07.08	6	3.5	G6CU <DOHC Sigma>	<b>110D26R</b>	
	07.01 - 10.06	6	3.5	G6CU1 <Sigma>	<b>55D26R</b>	<b>110D26R</b>
	11.03 - 10.06	4	2.9	J3 (Diesel)	<b>95D31R</b>	<b>105D31R</b>
<b>Tiburon</b>						
RD	04.96→	4	1.5	G4EK <DOHC Alpha>	<b>110D26L</b>	
GK	03.02 - 12.03	4	2.0	G4GC... <(B2) 20BT>	<b>110D26L</b>	
	03.02 - 08.09	6	2.7	G6BA...	<b>110D26L</b>	
<b>Trajet</b>						
FO	01.00 - 06.07	6	2.7	G6BA...	<b>56219</b>	
<b>Tucson</b>						
JM	08.04 - 03.10	4	2.0	G4GC	<b>110D26L</b>	
					<b>574.068</b>	
	09.04 - 03.10	6	2.7	G6BA...	<b>110D26L</b>	
<b>Tucson 1.6 T-GDI 4WD</b>						
TL	06.15→	4	1.6	G4FJ <D2 Gamma>	<b>560.060</b>	
<b>Tucson 2.0 CRDI 4WD</b>						
TL	06.15→	4	2.0	D4HA <(2E) R20> (Diesel)	<b>S95L</b>	
<b>Veloster</b>						
FS	06.11→	4	1.6	G4FD <(D2) 16GM>	<b>56219</b>	
<b>Veloster G 1.6 GDI</b>						
FS	03.11 - 05.17	4	1.6	G4FD	<b>574.068</b>	





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**Veloster G 1.6 T-GDI**

FS	04.12 - 05.17	4	1.6	G4FJ <D2 Gamma>	574.068
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**Veloster Turbo**

FS	02.12→	4	1.6	G4FJ <D2 Gamma>	55065
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**INFINITI**

**FX30d 3.0 4x4**

S51	03.10 - 12.13	6	3.0	V9X (Diesel)	58014
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**FX50 5.0 4x4**

S51	07.08 - 12.13	8	5.0	VK50VE	110D26L
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**M30d 3.0**

Y51	07.10 - 12.13	6	3.0	V9X (Diesel)	58014
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**M35h 3.5**

Y51	01.11 - 12.13	6	3.5	VQ35HR HM34	110D26L
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**M37 3.7**

Y51	05.10 - 12.13	6	3.7	VQ37VHR	110D26L
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**QX70 3.0 Turbo AWD**

S51	11.13 - 12.16	6	3.0	V9X (Diesel)	110D26L
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**QX70 5.0 AWD**

S51	11.13→	8	5.0	VK50VE	110D26L
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**Q50 2.2**

V37	07.13→	4	2.1	OM 651 LA <Euro 5 / P-7 (EGR)> (Diesel)	110D26L
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**Q50 3.5 Hybrid**

HV37	07.13→	6	3.5	VQ35HR	110D26L
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**Q50 3.5 Hybrid AWD**

HV37	07.13→	6	3.5	VQ35HR	110D26L
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**Q70**

Y51	10.13 - 12.15	6	3.0	V9X (Diesel)	110D26L
	10.13 - 08.16	6	3.7	VQ37VHR	110D26L

**Q70 Hybrid**

Y51	10.13→	6	3.5	VQ35HR	110D26L
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**ISUZU**









**D-Max**

	05.02→	4	3.0	4JH1-TC (Diesel); 4JJ1-TC <EPA 04> (Diesel)	95D31L	105D31R
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**Elf**

	02.86 - 04.95	4	3.6	4BE1 (Diesel)	55D23R	90D23R
					KZN,ZE 55D23R	90D23R

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	05.93→	4	3.1	4JG2 (Diesel)		<b>55D23R</b>	<b>90D23R</b>
	06.04→	4	3.1	4JG2 (Diesel)	AG,ZE	<b>55D23R</b>	<b>90D23R</b>
<b>Isuzu</b>							
	05.01→	6	7.8	6HK1 (Diesel); 6HK1-TC (Diesel)		<b>55D26R</b>	<b>110D26R</b>
<b>Mu</b>							
	04.89 - 10.93	4	2.6	4ZE1		<b>55D26R</b>	<b>110D26R</b>
	07.90 - 10.93	4	2.8	4JB1T (Diesel)		<b>55D26R</b>	<b>110D26R</b>
	10.93→	4	3.1	(Diesel); 4JG2 (Diesel)		<b>55D26R</b>	<b>110D26R</b>
	05.98 - 07.01	4	3.0	4JX1 (Diesel)		<b>55D26R</b>	<b>110D26R</b>
	05.00 - 05.02	6	3.2	6VD1		<b>55D26R</b>	<b>110D26R</b>
	10.04→	4	3.0	4JJ1TCX (Diesel)		<b>55D26R</b>	<b>110D26R</b>
<b>NHR</b>							
	01.85 - 12.95	4	2.5	4JA1AG (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>NKR</b>							
	02.86 - 12.96	4	3.3	4BC2 (Diesel)		<b>95D31R</b>	<b>105D31R</b>
	03.96 - 12.01	4	3.1	4JG2 (Diesel)		<b>95D31R</b>	<b>105D31R</b>
	09.08→	4	4.3	4HF1-S <JGFY3> (Diesel)		<b>110D26L</b>	
<b>NLR</b>							
<b>700N</b>	09.08→	4	3.0	4JJ1-TC (Diesel)		<b>110D26L</b>	
<b>NPR</b>							
	01.81→	4	3.9	4BD1 (Diesel); 4BD1T (Diesel); 4BD2TC (Diesel)		<b>95D31R</b>	<b>105D31R</b>
	03.96 - 06.06	4	3.1	4JG2 (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>NPR400</b>							
<b>700N</b>	09.08→	4	5.2	4HK1-TCN (Diesel)		<b>110D26R</b>	
<b>NPS300</b>							
<b>700N</b>	09.08→	4	5.2	4HK1-TCN (Diesel)		<b>110D26L</b>	
<b>N-Series</b>							
	06.93 - 09.02	4	3.0	4KH1 (Diesel)		<b>55D26R</b>	<b>110D26R</b>
<b>Trooper</b>							
<b>UB</b>	04.00 - 08.03	4	3.0	4JX1 (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>IVECO</b>							
<b>Daily A40-10 Turbo</b>							
	05.96 - 05.99	4	2.8	8140.23.37... <Euro 2> (Diesel)		<b>60038</b>	
<b>Daily 29 L 14</b>							
	09.04 - 03.06	4	2.3	F1AE0481M.. (Diesel)		<b>56318</b>	<b>575.068</b>
<b>Daily 35 C 14</b>							
	09.04 - 03.06	4	3.0	F1CE0481A.. (Diesel)		<b>60038</b>	
<b>Daily 35 C 17</b>							
	09.04 - 03.06	4	3.0	F1CE0481B (Diesel)		<b>60038</b>	





◀ IVECO











Daily 35 S 13						
	05.99 - 03.06	4	2.8	8140.43S... (Diesel)		60038
Daily 35 S 14						
	09.04 - 03.06	4	2.3	F1AE0481M.. (Diesel)	56318	575.068
Daily 35 S 17						
	09.04 - 03.06	4	3.0	F1CE0481B (Diesel)	56318	575.068
Daily 40 C 13						
	01.01 - 09.04	4	2.8	8140.43S... (Diesel)	56318	575.068
Daily 40 C 14						
	09.04 - 03.06	4	3.0	F1CE0481A.. (Diesel)	56318	575.068
Daily 40 C 17						
	09.04 - 03.06	4	3.0	F1CE0481B (Diesel)	56318	575.068
Daily 40-10 Turbo 4x4						
	05.96 - 05.99	4	2.8	8140.23.3801 <Euro 2> (Diesel)	60038	
Daily 49-10 Turbo						
	05.96 - 05.99	4	2.8	8140.23.3713 <Euro 2> (Diesel)	60038	
Daily 50 C 14						
	09.04 - 03.06	4	3.0	F1CE0481A.. (Diesel)	56318	575.068
Daily 50 C 15						
	05.01 - 09.04	4	2.8	8140.43N.43... (Diesel)	56318	575.068
Daily 50 C 17						
	09.04 - 03.06	4	3.0	F1CE0481B (Diesel)	56318	575.068
Daily 65 C 14						
	09.04 - 03.06	4	3.0	F1CE0481A.. (Diesel)	56318	575.068
Daily 65 C 15						
	05.00 - 09.04	4	2.8	8140.43N.43... (Diesel)	56318	575.068
Daily 65 C 17						
	09.04 - 03.06	4	3.0	F1CE0481B (Diesel)	56318	575.068

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Daimler						
	03.79 - 12.92	12	5.3	; 7P <Kat.>	60038	
	10.86 - 12.90	6	3.6	9 DPANA <AJ6>	55457	560.060
	09.89 - 10.98	6	4.0	9 EPCNA <AJ6 KAT>; 9 JPFBR <AJ16>	60038	
	12.93 - 12.94	12	6.0	8C	60038	
	09.97 - 08.02	8	4.0	DC <AJV8>	60038	
Sovereign						
	09.89 - 08.99	6	4.0	AJ6	574.068	
	03.93 - 12.95	12	6.0		60038	

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



							
	09.97 - 08.02	8	4.0	BC <AJ-V8>			<b>574.068</b>
<b>S-Type</b>							
	10.98 - 04.02	8	4.0	GC GB			<b>60038</b>
	10.98 - 03.08	6	3.0	FC FB			<b>60038</b>
	10.01 - 07.05	6	2.5	JV6			<b>60038</b>
	10.01 - 03.08	8	4.2	HB; 1B			<b>60038</b>
	06.04 - 03.08	6	2.7	276DT 7B/7G (Diesel)			<b>60038</b>
<b>XF</b>							
<b>X250</b>	03.08 - 02.09	6	2.7	AJD (Diesel)			<b>60038</b>
	03.08 - 10.10	8	4.2	SV82G			<b>60038</b>
	02.09 - 08.12	8	5.0	508PN			<b>60038</b>
	03.09 - 10.15	6	3.0	AJV6D (Diesel)			<b>60038</b>
<b>XF 3.0 S</b>							
<b>X260</b>	10.15→	6	3.0	AJ 126			<b>LN4</b>
<b>XF 20d</b>							
<b>X260</b>	10.15→	4	2.0	204DTD (Diesel)			<b>LN4</b>
<b>XJR</b>							
<b>X350</b>	03.03 - 07.10	8	4.2	AJ-V8			<b>60038</b>
<b>XJR8</b>							
<b>X308</b>	09.97 - 09.02	8	4.0	DC <AJV8>			<b>60038</b>
<b>XJS</b>							
	03.92 - 09.96	12	6.0				<b>574.068</b>
<b>XJ6</b>							
	09.89 - 09.94	6	4.0	AJ6 <Kat.>			<b>574.068</b>
	10.90 - 09.94	6	3.2	9BPMNA <AJ6>			<b>574.068</b>
<b>X300</b>	10.94 - 12.98	6	4.0	AJ16			<b>574.068</b>
<b>X350</b>	10.05 - 07.10	6	2.7	AJD (Diesel)			<b>574.068</b>
<b>XJ8</b>							
<b>X308</b>	09.97 - 08.02	8	3.2	AC <AJV8>			<b>60038</b>
			4.0	BC <AJV8>			<b>60038</b>
<b>X350</b>	03.03 - 07.10	8	3.5	AJ-V8			<b>60038</b>
			4.2	AJ-V8			<b>60038</b>
<b>XJ12</b>							
	10.93 - 12.99	12	6.0	8D			<b>574.068</b>
<b>XK</b>							
	02.09→	8	5.0	508PN			<b>60038</b>
<b>XKR</b>							
	02.09 - 07.15	8	5.0	508PS			<b>60038</b>
<b>XKR-S</b>							
	01.11 - 07.14	8	5.0	AJ-V8			<b>60038</b>

















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XKR8						
	03.98 - 09.02	8	4.0	EC <AJV8>		60038
	03.03 - 02.09	8	4.2	(A34) <AJ-V8>		60038
XK8						
	03.96 - 09.02	8	4.0	CE,CC,NC,NB <AJV8>		60038
	03.03 - 02.06	8	4.2	5G <AJ-V8>		60038
X-Type						
	03.01 - 11.09	6	2.5	XB		574.068
			3.0	WB		574.068
	03.02 - 10.07	6	2.0	YB		574.068
	09.05 - 11.09	4	2.2	QJBA BG (Diesel)		58014









JEEP

Cherokee							
XJ	09.93 - 08.01	6	4.0	ERH		574.068	
	10.95 - 12.01	4	2.5	ENC,ENO <VM HR 425 CLIRX> (Diesel)		574.068R	
KJ	03.01 - 12.04	4	2.5	ENJ, ENO (Diesel)		574.068R	
			4	2.4	ED1,EDO	55457	560.060
		6	3.7	EKG <K>	55457	560.060	
	03.03 - 12.07	4	2.8	ENR (Diesel)		56217	
KK	01.08 - 12.13	4	2.8	ENS (Diesel)		110D26R	
KL	01.14→	4	2.0	(Diesel)		LN3	
			2.4	B <SOHC>		LN3	
		6	3.2	EHB		LN3	
Cherokee 3.7 4x4							
KK	01.08 - 12.13	6	3.7	EKG		58014	
Commander							
XH	01.06 - 08.11	6	3.0	EXL (Diesel)		60038	
			8	4.7	EVA <N>		574.068
			5.7	EZ... <2>		574.068	
Compass							
MK	10.06 - 12.17	4	2.0	EC... (Diesel)		55457	
			2.4	ED...		55457	
		09.08 - 08.15	4	2.0	ECN	22FR-550	22FR-680
Grand Cherokee							
ZG	09.92 - 04.99	6	4.0	ERH <6L <S MPI>>		574.068R	
WJ	09.98 - 08.04	6	4.0	ERH		574.068R	
		8	4.7	EVA		574.068R	
WG	09.00 - 12.04	6	4.0	ERH,ERO <Power Tech>		574.068	
			8	4.7	EVA <Power Tech>; EVC-HO,V8, MPI <High-Output>		574.068
		10.01 - 12.04	5	2.7	ENF (Diesel)		60038

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.

									
<b>WK</b>	09.04→	6	3.7	EKG			<b>58014</b>		
<b>WH</b>	03.05 - 09.10	8	4.7	EVA,EVO <Power TechV8>			<b>574.068</b>		
			5.7	EZB,EZO <Hemi V8>			<b>574.068</b>		
	03.05 - 10.11	6	3.0	EXL (Diesel)			<b>60038</b>		
	01.06 - 09.10	8	6.1	ESF			<b>58014</b>		
<b>WK</b>	01.06 - 09.10	8	6.1	ESF			<b>58014</b>		
	09.08 - 08.15	8	5.7	EZH			<b>LN4</b>		
<b>WK2</b>	10.10 - 08.15	6	3.6	ERB			<b>LN4</b>		
	04.11→	6	3.0	VM-23D (Diesel)			<b>60038</b>		
<b>Grand Cherokee 3.6 FFV</b>									
<b>WK2</b>	09.10→	6	3.6	ERB			<b>LN4</b>		
<b>Grand Cherokee 6.4 SRT8 4x4</b>									
<b>WK2</b>	07.11→	8	6.4	ES...			<b>LN4</b>		
<b>Patriot</b>									
<b>MK</b>	10.06 - 12.09	4	2.0	EC... (Diesel)			<b>56217</b>		
	10.06→	4	2.4	; ED...			<b>22FR-550</b>	<b>22FR-680</b>	
	09.08 - 08.15	4	2.0	ECN			<b>22FR-550</b>	<b>22FR-680</b>	
<b>Wrangler</b>									
<b>TJ</b>	01.97 - 02.07	6	4.0	ERH			<b>56217</b>		
<b>JK</b>	01.07 - 12.11	6	3.8	EGT			<b>55458</b>		
	01.07→	4	2.8	ENS (Diesel)			<b>95D31R</b>	<b>105D31R</b>	
	10.11→	6	3.6	ERB			<b>56318</b>		
<b>KIA</b>									
<b>Carens</b>									
<b>FC</b>	04.99 - 05.02	4	1.8	TB <TED>			<b>56219</b>		
<b>Carnival</b>									
	01.98 - 12.01	6	2.5	KV6 <DOHC>			<b>110D26L</b>		
<b>UP</b>	09.99 - 09.01	6	2.5	K5			<b>110D26L</b>		
	10.01 - 06.06	6	2.5	K5			<b>105D31L</b>		
<b>MB</b>	04.06 - 12.12	6	2.7	G6EA <2.7L-MU>			<b>55D26L</b>	<b>110D26L</b>	
	07.06→	6	3.8				<b>110D26L</b>		
<b>Carnival / Grand Carnival 2.2 CRDi</b>									
<b>MB</b>	01.10 - 06.14	4	2.2	D4HB <(2F) R22> (Diesel)			<b>95D31L</b>		
<b>Cerato</b>									
<b>FE</b>	04.04 - 01.09	4	2.0	G4GC			<b>55D23L</b>	<b>90D23L</b>	
<b>TD</b>	09.09 - 08.13	4	2.0				<b>55D23L</b>	<b>90D23L</b>	
<b>Cerato Koup</b>									
	07.10→	4	2.0	2.0 Theta II <2.0 Theta II>			<b>55D23L</b>	<b>90D23L</b>	
<b>Ceres</b>									
	11.94 - 12.03	4	2.2	SC (Diesel)			<b>95D31R</b>	<b>105D31R</b>	



							
<b>◀ KIA</b>							
	06.99→	4	2.4	SC (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>Credos</b>							
	02.98 - 07.00	4	2.0	FE <DOHC FED>		<b>55457</b>	<b>560.060</b>
<b>Forte 2.0</b>							
	09.13→	4	2.0			<b>55D23L</b>	<b>90D23L</b>
<b>Grand Carnival</b>							
<b>VQ</b>	04.06 - 12.12	4	2.9	J3 (Diesel)		<b>55D26L</b>	<b>110D26L</b>
<b>K 2700</b>							
<b>SD</b>	04.98 - 08.04	4	2.7	J2 (Diesel)		<b>95D31R</b>	<b>105D31R</b>
	08.04 - 12.06	4	2.7	J2 (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>K 2900</b>							
	01.04→	4	2.9	D4BH <CRDI> (Diesel)		<b>105D31L</b>	
<b>Mentor</b>							
<b>FA</b>	09.96 - 12.97	4	1.5	B5		<b>55D23L</b>	<b>90D23L</b>
<b>FX</b>	01.98 - 12.00	4	1.5	B5D		<b>55457</b>	<b>560.060</b>
			1.8	TE <B5D>		<b>55457</b>	<b>560.060</b>
<b>Optima</b>							
	07.00 - 04.02	6	2.5	G6B <DOHC>		<b>55D26L</b>	<b>110D26L</b>
	03.03 - 05.06	6	2.7	G6BA		<b>110D26L</b>	
<b>TF</b>	09.10 - 08.13	4	2.4			<b>55D26R</b>	<b>110D26R</b>
<b>Pregio</b>							
<b>TB</b>	02.97 - 12.06	4	2.7	J2 (Diesel)		<b>95D31L</b>	<b>105D31L</b>
<b>Rio</b>							
<b>DC</b>	07.00 - 02.05	4	1.5	A5D		<b>55D23L</b>	<b>90D23L</b>
<b>JB, DE</b>	03.05 - 09.11	4	1.4	G4EE		<b>55D23L</b>	<b>90D23L</b>
	03.05 - 09.12	4	1.6	G4ED		<b>55D23L</b>	<b>90D23L</b>
<b>UB</b>	06.11→	4	1.4	G4FA <1400 Gamma>		<b>55B24LS</b>	
<b>Rio 1.6</b>							
<b>UB</b>	09.11 - 08.15	4	1.6	Gamma 1.6 GDI		<b>50D20L</b>	
<b>Rio 1.6 Hatchback</b>							
<b>UB</b>	09.13 - 08.15	4	1.6	G4FC		<b>55D23L</b>	<b>90D23L</b>
<b>Rondo CRDi</b>							
<b>RP</b>	01.13→	4	1.7	D4FD (Diesel)		<b>110D26L</b>	
<b>Rondo GDI</b>							
<b>RP</b>	01.13→	4	2.0	G4NC <(2G) N20>		<b>560.060</b>	
<b>Shuma</b>							
<b>FB</b>	01.00 - 12.00	4	1.8	TE <T8D>		<b>56318</b>	<b>575.068</b>
<b>Sorento</b>							
<b>JC,BL</b>	03.03 - 05.08	6	3.5	G6CU		<b>105D31R</b>	

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



<b>JC,BL</b>	03.06 - 08.09	4	2.5	D4CB (Diesel)	<b>105D31R</b>	
	12.06 - 08.08	6	3.8	G6DA	<b>110D26R</b>	
	12.06 - 08.09	6	3.3	G6DB	<b>110D26R</b>	
<b>XM</b>	09.09→	4	2.2	D4HB <2.2L-R> (Diesel)	<b>95D31R</b>	<b>105D31R</b>
<b>Sorento 3.5</b>						
<b>JC,BL</b>	09.10 - 08.13	6	3.5	G6DC <J4 Lambda2>	<b>110D26L</b>	
<b>Soul</b>						
<b>AM</b>	02.09 - 12.14	4	1.6	D4FB <1600 U2> (Diesel); G4FC <1600 Gamma>	<b>560.060</b>	
<b>Spectra</b>						
<b>FB</b>	01.01 - 12.09	4	1.8	TE	<b>55457</b>	<b>560.060</b>
	04.01 - 06.04	4	1.8	TE <T8D>	<b>56219</b>	
<b>Sportage</b>						
<b>AL</b>	01.97 - 03.04	4	2.0	FED	<b>55458</b>	
<b>KM</b>	09.04 - 04.07	6	2.7	G6BA	<b>55458</b>	
	01.06 - 04.07	4	2.0	D4EA... (Diesel)	<b>95D31L</b>	<b>105D31L</b>
				D4EA-V (Diesel)	<b>55458</b>	
	05.07 - 05.10	4	2.0	G4GC	<b>55D23L</b>	<b>90D23L</b>
<b>SL</b>	01.11→	4	2.0	D4HA (Diesel)	<b>95D31L</b>	<b>105D31L</b>
<b>Sportage 2.0 CRDi AWD</b>						
<b>SL</b>	07.10→	4	2.0	D4HA (Diesel)	<b>95D31R</b>	<b>105D31R</b>
<b>Sportage 2.4 4x4</b>						
	09.10 - 08.13	4	2.4		<b>55D26R</b>	<b>110D26R</b>
<b>LADA</b>						
<b>Niva</b>						
	07.83 - 12.96	4	1.6	2121	<b>56217</b>	
	01.93 - 12.99	4	1.7	2121.3	<b>56217</b>	
<b>Samara</b>						
	07.88 - 09.90	4	1.3	2108	<b>56217</b>	
	09.91 - 02.96	4	1.5	21083	<b>22FR-550</b>	<b>22FR-680</b>
<b>LAMBORGHINI</b>						
<b>Diablo</b>						
	01.90 - 12.97	12	5.7		<b>574.068</b>	
	01.98 - 12.01	12	5.7		<b>56638</b>	<b>574.068</b>
	10.99 - 12.01	12	6.0		<b>56638</b>	<b>574.068</b>
<b>Murcielago</b>						
	01.02 - 02.06	12	6.2	V12 48V	<b>574.068</b>	
	09.06 - 08.10	12	6.5	V12 48V	<b>574.068</b>	





**LAND ROVER GROUP**

**Defender**

	08.90 - 12.01	4	2.5	Gemini TCI D.I. 23L <200/300 Tdi> (Diesel)	<b>95D31R</b>	<b>105D31R</b>
<b>Series 110</b>	08.90 - 12.01	4	2.5	Gemini TCI D.I. 23L <200/300 Tdi> (Diesel)	<b>22FR-550</b>	<b>22FR-680</b>
	06.98 - 07.07	5	2.5	Td5 (Diesel); Td5 10P (Diesel)	<b>31-1000</b>	
	05.07 - 08.11	4	2.4	Td4 244DT (Diesel)	<b>110D26R</b>	

**Defender 90 2.2 Td4 AWD**

	08.11 - 02.16	4	2.2	Td4 (Diesel)	<b>110D26R</b>	
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**Defender 110 2.2 Td4 AWD**

	08.11 - 02.16	4	2.2	Td4 (Diesel)	<b>110D26R</b>	
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**Defender 130 2.2 Td4 AWD**


	09.11 - 02.16	4	2.2	Td4 (Diesel)	<b>110D26R</b>	
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**Discovery**

	09.89 - 12.98	4	2.5	19L 21L 22L 23L 300 (Diesel); 200 Tdi (Diesel)	<b>55D26R</b>	<b>110D26R</b>
		8	3.5	22D <V8F-EFI-KAT>	<b>55D26R</b>	<b>110D26R</b>
	10.93 - 12.99	8	3.9	V8 3.9 <Efi>	<b>55D26R</b>	<b>110D26R</b>

<b>LT,LJ</b>	10.98 - 08.04	5	2.5	15P 10P (Diesel)	<b>31-1000</b>	
		8	4.0	36D 94D 56D <OHV>	<b>31-1000</b>	


<b>TAA</b>	09.04 - 08.09	6	2.7	276DT (Diesel)	<b>60038</b>	
			4.0	406PN	<b>31-1000</b>	

<b>LA</b>	09.09 - 08.10	6	2.7	276DT (Diesel)	<b>60038</b>	
	09.09 - 08.14	8	5.0	AJ133 <508PN>	<b>60038</b>	
	09.09→	6	3.0	306DT (Diesel)	 <b>LN5</b>	

**Discovery IV 3.0 TDV6 AWD**

<b>LA</b>	09.10→	6	3.0	306DT (Diesel)	<b>60038</b>	
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**Discovery IV 3.0 4X4**

<b>LA</b>	09.13 - 08.16	6	3.0	AJ 126	 <b>LN5</b>	
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**Discovery Sport SD4 AWD**

<b>B5,L550</b>	09.14 - 08.17	4	2.2	224DT (Diesel)	<b>58014</b>	
					 <b>LN4</b>	

**Discovery Sport Si4**

<b>B5,L550</b>	09.14→	4	2.0	204PT	<b>58014</b>	
					 <b>LN4</b>	

**Discovery Sport TD4**

<b>B5,L550</b>	09.14→	4	2.2	224DT (Diesel)	<b>58014</b>	
					 <b>LN4</b>	

**Freelander**

<b>LN</b>	09.97 - 10.06	4	2.0	TD4 204D3 (Diesel); 20T2N <L-Serie> (Diesel)	<b>56638</b>	<b>574.068</b>
	09.01 - 10.06	6	2.5	25 K4F <KV6>	<b>56318</b>	<b>575.068</b>
<b>LF</b>	10.06 - 11.12	6	3.2	B6324S	<b>574.068</b>	

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Freelander II						
LF	10.06 - 10.14	4	2.2	224DT (Diesel)		574.068
Freelander 2 SD4 AWD						
LF	09.10 - 11.14	4	2.2	224DT (Diesel)		574.068
Freelander 2 Si4 AWD						
LF	10.12 - 11.14	4	2.0	204PT		110D26R
Land Rover 90						
	11.83 - 08.90	8	3.5	V8		55D26R 110D26R
Land Rover 110						
	10.83 - 07.90	0	3.9	(Diesel)		22FR-550 22FR-680
	11.83 - 07.90	8	3.5	V8		55D26R 110D26R
Range Rover						
	11.88 - 08.94	8	3.9	37D,38D <V8-EFi-KAT>		22FR-550 22FR-680
LP	09.94 - 08.02	8	4.0	42D		31-1000
			4.6	...		110D26R
LM,L322	03.02 - 07.05	8	4.4	M62B44 V8		60038
	03.02 - 09.06	6	2.9	M57 D30 <30 6D 1> (Diesel)		60038
	03.05 - 08.09	8	4.2	AJ-V8		60038
LS,L320	03.05 - 08.09	6	2.7	276DT (Diesel)		60038
		8	4.2	428 PS		60038
	08.05 - 08.09	8	4.4	448 PN		60038
	01.07 - 08.09	8	3.6	(Diesel)		60038
LG,L405	09.09 - 01.13	8	5.0	508PN		60038
LS,L320	09.09 - 08.13	6	3.0	306DT (Diesel)		60038
Range Rover Evoque 2.0 Si4 AWD						
LV	09.11->	4	2.0	204PT		LN3
Range Rover Evoque 2.0 T						
LV	11.14->	4	2.0	204PT		LN4
Range Rover Evoque 2.2 eD4						
LV	09.12 - 08.16	4	2.2	224DT (Diesel)		LN3
Range Rover Evoque 2.2 SD4 AWD						
LV	09.11 - 08.15	4	2.2	224DT (Diesel)		LN3
Range Rover Evoque 2.2 TD4 AWD						
LV	09.11 - 08.15	4	2.2	224DT (Diesel)		LN3
Range Rover III 4.4 TDV8 AWD						
LM,L322	09.10 - 01.13	8	4.4	4,4 (Diesel)		60038
Range Rover Sport 3.0 AWD						
LW,L494	09.13->	6	3.0	AJ 126		LN5
Range Rover Sport 3.0 SD AWD						
LS,L320	06.11 - 08.13	6	3.0	306DT (Diesel)		60038





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**Range Rover Sport 3.0 SDV6 AWD**

LW,L494	09.13→	6	3.0	306DT (Diesel)		LN5
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**Range Rover Sport 3.0 SDV6 Hybrid AWD**

LW,L494	10.13→	6	3.0	306DT (Diesel)		60038
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**Range Rover Sport 3.0 TDV6 AWD**

LW,L494	09.13→	6	3.0	306DTX (Diesel)		LN5
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**Range Rover Sport 4.4 SDV8 AWD**

LW,L494	01.14→	8	4.4	448DT (Diesel)		60038
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**Range Rover Sport 5.0 AWD**

LW,L494	09.13→	8	5.0	508PS		LN5
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**Ranger Rover Sport**

LS,L320	09.09 - 08.13	8	5.0	5.0 SGM <AJ133>		60038
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**LEXUS**

**CT200h**

ZWA10	01.11→	4	1.8	2ZRFXE		55B24R
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**ES 300h 2.5 i**

AVV60L	06.12→	4	2.5	2ARFXE		55B24R
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**ES 350 3.5 i**

GSV60L	06.12→	6	3.5	2GRFE		110D26L
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**ES300**

VCV10	03.92 - 08.96	6	3.0	3VZFE		55D23L	90D23L
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MCV20	08.96 - 07.01	6	3.0	1MZFE		55D26L	110D26L
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MCV30	07.01 - 05.04	6	3.0	1MZFE		55D23L	90D23L
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**GS 300h 2.5 i**

AWL10	09.13→	4	2.5	2ARFSE		110D26R
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**GS 450h 3.5 i**

GWL10	03.12→	6	3.5	2GRFXE		55D26L	110D26L
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**GS300**

JZS160	08.97 - 01.05	6	3.0	2JZGE		55D26L	110D26L
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GRS190	01.05 - 12.11	6	3.0	3GRFSE		110D26L
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**GS430**

UZS161	07.00 - 01.07	8	4.3	3UZFE		55D26L	110D26L
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**GS450**











GWS191	02.06 - 02.12	6	3.5	2GRFSE		110D26L
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**GS460**

URS190	09.07 - 12.11	8	4.6	1URFSE		55D26L	110D26L
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<b>IS 250 2.5i</b>							
GSE30	04.13-08.15	6	2.5	4GR-FSE			575.068
<b>IS 300h 2.5i</b>							
AVE30	04.13→	4	2.5	2ARFSE			S95R
<b>IS 350C 3.5i</b>							
GSE31	05.13→	6	3.5	2GRFSE			Q85L
<b>IS200</b>							
GXE10	01.99-07.05	6	2.0	1GFE			55D23L 90D23L
<b>IS250</b>							
GSE20	08.05-04.13	6	2.5	4GR-FSE			55B24R
<b>IS250C</b>							
GSE20	05.09-05.13	6	2.5	4GR-FSE			110D26L
<b>IS300</b>							
JCE10	07.01-07.05	6	3.0	2JZGE			55D26L 110D26L
<b>LFA 4.8i</b>							
LFA10	12.10-12.12	10	4.8	1LRGUE			575.068
<b>LS400</b>							
UCF10	12.89-09.94	8	4.0	1UZFE			95D31L 105D31L
UCF20	10.94-08.00	8	4.0	1UZFE			55D26L 110D26L
<b>LS430</b>							
UCF30	08.00-08.06	8	4.3	3UZFE			55D26R 110D26L
<b>LS460</b>							
USF40 /41	08.06→	8	4.6	1URFE			110D26L
<b>LX470</b>							
UZJ100	01.98-08.07	8	4.7	2UZFE			55D26L 110D26L
<b>LX570</b>							
URJ201L	11.07→	8	5.7	3URFE			55D26L 110D26L
<b>NX 300h</b>							
AYZ10	07.14→	4	2.5	2ARFXE			Q85R
AYZ15	07.14→	4	2.5	2ARFXE			Q85R
<b>RX330</b>							
MCU38	02.03-08.06	6	3.3	3MZFE			55D23L 90D23L
<b>RX350</b>							
GSU35	01.06-12.08	6	3.5	2GRFE			55D26R 110D26L
GGL15	12.08-09.15	6	3.5	2GRFE			110D26L
<b>RX400</b>							
MHU38	03.05-12.08	6	3.3	3MZFE			55D26R 110D26R





◀ LEXUS

**RX450H**

<b>GYL15</b>	12.08 - 10.15	6	3.5	2GRFXE		<b>110D26L</b>
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**SC430**

<b>UZZ40</b>	05.01 - 08.10	8	4.3	3UZFE		<b>575.068</b>
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**LOTUS**

**Esprit**

	02.80 - 01.93	4	2.2	910; 910 S		<b>560.060</b>
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**Evora**

	05.09 - 04.14	6	3.5	2GRFE		<b>110D26L</b>
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**Evora S**

	12.10 - 04.14	6	3.5	2GRFE		<b>110D26L</b>
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**Excel**

	10.85 - 07.92	4	2.2	912 S		<b>56219</b>
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**Exige**

	10.01 - 10.04	4	1.8	2ZZ-GE		<b>55457</b>	<b>560.060</b>
	04.06 →	4	1.8	2ZZ-GE		<b>54316</b>	

**Exige S**

	06.12 →	6	3.5	2GR-FE		<b>110D26L</b>
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**MASERATI**

**Ghibli**

<b>M157</b>	01.13 →	6	3.0	M 15746 D (Diesel)		<b>LN5</b>
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**Gran Cabrio Sport**

	03.11 →	8	4.7			<b>LN3</b>
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**GranCabrio MC 4.7 V8**

	05.12 →	8	4.7			<b>575.068</b>
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**GranCabrio 4.7 V8**

	03.10 →	8	4.7			<b>575.068</b>
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**GranTurismo Convertible 4.7**

	09.11 →	8	4.7			<b>575.068</b>
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**Quattroporte**

<b>M156</b>	11.12 →	6	3.0	M 156; M 15746 D (Diesel)		<b>LN5</b>
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**Quattroporte GT S**

<b>M156</b>	11.12 →	8	3.8	M 156 A		<b>575.068</b>
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**Spyder**

	12.01 →	8	4.2			<b>574.068</b>
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\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



## MAYBACH

<b>57</b>	09.02→	12	5.5	M 285.950 <E 55>	<b>60038</b>
<b>57 S</b>	09.05→	12	6.0	M 285.980 <E 60>	<b>60038</b>
<b>62</b>	09.02→	12	5.5	M 285.950 <E 55>	<b>60038</b>

## MAZDA

<b>AZ-1 0.7i Turbo</b>	10.92 - 05.96	3	0.7	F6A (DOHC)	<b>40B19L</b>
<b>Bravo</b>	09.93 - 08.00	6	4.0		<b>95D31R</b> <b>105D31R</b>
<b>BT-50</b>					
<b>UN</b>	03.06→	4	2.5	WLC <DuraTORQ TDCi> (Diesel); WL3 <DuraTORQ TDCi> (Diesel)	<b>105D31R</b>
			3.0	WEC <DuraTORQ TDCi> (Diesel)	<b>105D31R</b>
<b>BT-50 3.2 4WD</b>	01.13→	5	3.2	Duratorq <Euro 5 / L-6 (EGR)> (Diesel)	<b>105D31R</b>
<b>BT-50 4WD 3.2</b>					
<b>J26E</b>	01.12→	5	3.2	MZ-CD (Diesel)	<b>58014</b>
<b>B2200</b>	09.87 - 06.99	4	2.2	R2 (Diesel)	<b>55D23L</b> <b>90D23L</b>
<b>UF</b>	01.90 - 04.95	4	2.2	R2 (Diesel)	<b>95D31R</b> <b>105D31R</b>
	08.91 - 03.96	4	2.2		<b>40B19RS</b>
<b>B2500</b>	03.96 - 05.99	4	2.5	WL (Diesel)	<b>95D31R</b> <b>105D31R</b> <b>56318</b> <b>575.068</b>
	09.96 - 07.02	4	2.5	WL (Diesel)	<b>22FR-550</b> <b>22FR-680</b>
<b>UN</b>	02.99 - 03.06	4	2.5	WLT (Diesel)	<b>574.068</b>
<b>B2600</b>	08.89 - 05.99	4	2.6	G6	<b>22FR-550</b> <b>22FR-680</b>
<b>UN</b>	02.99 - 03.06	4	2.6	G6	<b>95D31R</b> <b>105D31R</b>
<b>CX-3 1.5 Diesel Turbo</b>	02.15→	4	1.5	S5DPDS (Diesel)	<b>Q85L</b>
<b>CX-3 1.5 Diesel Turbo 4WD</b>	02.15→	4	1.5	S5DPDS (Diesel)	<b>Q85L</b>
<b>CX-3 2.0</b>	02.15→	4	2.0	PE <Skyactiv-G>	<b>Q85L</b>





◀ MAZDA

**CX-3 2.0 4x4**

DK	02.15→	4	2.0	PE <Skyactiv-G>		<b>Q85L</b>
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**CX-5**

KE	02.12 - 02.17	4	2.0	PEVPS	JBR,	<b>Q85L</b>
			2.2	SH-VPTS (Diesel)		<b>T110L</b>
	09.13 - 08.15	4	2.5	PY <Skyactiv-G>		<b>T110L</b>

**CX-7**

	12.06 - 12.11	4	2.3	L3VDT		<b>55D23L</b>	<b>90D23L</b>
ER	06.09→	4	2.2	R2 (Diesel)		<b>55D26L</b>	<b>110D26L</b>
	09.09→	4	2.5			<b>55D23L</b>	<b>90D23L</b>

**CX-9**

	09.07→	6	3.7			<b>55D26L</b>	<b>110D26L</b>
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**Eunos 30X**

EC	12.91 - 01.98	6	1.8	K8		<b>55D23L</b>	<b>90D23L</b>
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**Eunos 500**

CA	04.94 - 09.96	6	2.0	KF		<b>55457</b>	<b>560.060</b>
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**Eunos 800**

TA	09.93 - 06.96	6	2.5	KL		<b>55D26R</b>	<b>110D26R</b>
	02.94 - 05.96	6	2.3	KJ		<b>55457</b>	<b>560.060</b>
	06.96→	6	2.5			<b>55457</b>	<b>560.060</b>

**E2000**

	11.86 - 08.93	4	2.0	RF (Diesel)		<b>55D23L</b>	<b>90D23L</b>
	07.89 - 03.95	4	2.0	FEET		<b>110D26L</b>	
	09.96 - 02.03	4	2.0	FE		<b>55D26R</b>	<b>110D26R</b>

**E2200**

	07.89 - 04.97	4	2.2	R293 (Diesel); R296 (Diesel)		<b>55D26L</b>	<b>110D26L</b>
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**Millenia**

TA	08.00→	6	2.3	KJ		<b>55D23L</b>	<b>90D23L</b>
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**MPV**

LV	08.93 - 04.96	6	3.0	E		<b>55D26L</b>	<b>110D26L</b>
	04.96 - 07.99	6	3.0	JE		<b>55D26L</b>	<b>110D26L</b>
	05.99 - 04.02	6	2.5	GY		<b>55D26L</b>	<b>110D26L</b>
LW	06.99→	6	2.5	G		<b>55D26L</b>	<b>110D26L</b>
	03.02 - 06.04	4	2.3	L3		<b>55D26L</b>	<b>110D26L</b>
	03.02 - 12.05	6	3.0	AJ/AJDE		<b>55D26L</b>	<b>110D26L</b>
LW	05.02 - 08.04	6	3.0	AJ		<b>55D26L</b>	<b>110D26L</b>

**MX-5**

NA	08.89 - 08.93	4	1.6	B64F		<b>22NF-330D</b>	
	09.93 - 11.97	4	1.8	BP		<b>22NF-330D</b>	

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.

								
<b>NB</b>	01.98 - 07.05	4	1.8	BPD; BPZE			<b>22NF-330D</b>	
<b>NC</b>	07.05 - 03.15	4	2.0	LF			<b>55B24LS</b>	
<b>MX-6</b>								
<b>GD</b>	09.89 - 06.91	4	2.2	F2			<b>40B19LS</b>	
<b>GE</b>	07.94 - 06.97	6	2.5	KL			<b>40B19LS</b>	
<b>Premacy</b>								
<b>CP</b>	02.00 - 05.03	4	1.8	FP			<b>55D23L</b>	<b>90D23L</b>
	11.01 - 05.03	4	2.0	FS			<b>55D23L</b>	<b>90D23L</b>
<b>RX-7</b>								
<b>FC</b>	03.89 - 11.91	2	1.3	13B; 13B <Kat.>			<b>55D23L</b>	<b>90D23L</b>
<b>FD</b>	01.92 - 02.96	2	1.3	RE13B; 13B			<b>55D23L</b>	<b>90D23L</b>
<b>RX-8</b>								
<b>SE</b>	04.03 - 04.08	2	1.3	13B			<b>55D23L</b>	<b>90D23L</b>
<b>Tribute</b>								
	12.00 - 12.03	4	2.0	YF			<b>55D23L</b>	<b>90D23L</b>
	12.00 - 01.08	6	3.0	AJ			<b>110D26L</b>	
	03.04 ->	4	2.3	L3			<b>55D26L</b>	<b>110D26L</b>
<b>2</b>								
<b>DY</b>	06.02 - 05.07	4	1.5	ZYVE			<b>55B24L</b>	
<b>DE</b>	05.07 - 10.14	4	1.5	ZY; ZYVE			<b>55D23L</b>	<b>90D23L</b>
<b>2 1.5</b>								
<b>DJ</b>	10.14 ->	4	1.5	P5... <Skyactiv-G>			<b>Q85L</b>	
<b>3</b>								
<b>BK</b>	07.03 - 12.08	4	2.0	LF			<b>50D20L</b>	
	07.06 - 12.08	4	2.3	L3			<b>50D20L</b>	
	12.06 - 12.08	4	2.0	RF7J (Diesel)			<b>55D23L</b>	<b>90D23L</b>
<b>BL</b>	12.08 - 10.13	4	2.0	LF5...			<b>50D20L</b>	
	01.09 - 10.13	4	2.2	R2 (Diesel)			<b>95D31L</b>	<b>105D31L</b>
	09.09 - 10.13	4	2.3	L3 DISI			<b>50D20L</b>	
	09.09 - 08.14	4	2.5				<b>Q85L</b>	
<b>BM</b>	07.13 ->	4	2.0	PE <Skyactiv-G>			<b>Q85L</b>	
			2.2	SH <Skyactiv-D> (Diesel)			<b>T110L</b>	
	08.13 ->	4	2.0	PE <Skyactiv-G>			<b>Q85L</b>	
<b>3 SP25</b>								
<b>BM</b>	09.13 - 08.17	4	2.5				<b>Q85L</b>	
<b>6</b>								
<b>GG/GY</b>	02.02 - 08.08	4	2.3	L3; L3 DISI			<b>55D23L</b>	<b>90D23L</b>
	06.02 - 08.07	4	2.0	RF (Diesel)			<b>110D26L</b>	
	06.02 - 12.07	4	2.0	RF (Diesel)			<b>105D31L</b>	
<b>GH</b>	08.07 - 12.12	4	2.5	L5			<b>55D23L</b>	<b>90D23L</b>





◀ MAZDA

GJ	08.12→	4	2.2	SH <Skyactiv-D> (Diesel)		T110L	
			2.5	PY <Skyactiv-G>		Q85L	
	10.12→	4	2.2	SH <Skyactiv-D> (Diesel)		T110L	
<b>6 2.2 MZR-CD Fastback</b>							
GH	01.09 - 04.10	4	2.2	R2 (Diesel)		110D26L	
<b>6 2.2 MZR-CD Wagon</b>							
GH	10.08 - 04.10	4	2.2	R2 (Diesel)		110D26L	
<b>6 2.3i</b>							
GK	04.02→	4	2.3	L3		55D23L	90D23L
<b>6 2.5</b>							
GJ	10.12→	4	2.5	PY <Skyactiv-G>		Q85L	
<b>121</b>							
DA	04.89 - 10.90	4	1.3	B3A6		55B24L	
DB	11.90 - 10.93	4	1.3	B3		55B24L	
	11.93 - 12.95	4	1.3	B3		55B24LS	
			1.5	B5M1		55B24L	
	11.95 - 11.97	4	1.3	B3		55B24L	
1.5			B5		55D23L	90D23L	
DW	08.96 - 12.99	4	1.3	B3		55D23L	90D23L
			1.5	B5		55D23L	90D23L
	01.00 - 12.02	4	1.3	B3		40B19LS	
			1.5	B5		40B19LS	
<b>323</b>							
BF	10.85 - 12.91	4	1.6	B6		40B19LS	
BG	06.89 - 07.94	4	1.8	BP <DOHC Kat.>		40B19LS	
	07.89 - 04.92	4	1.8	BP		40B19LS	
	07.89 - 12.95	4	1.6	B6		55D23L	90D23L
	04.91 - 05.94	4	1.8	BP		55D23L	90D23L
BA	05.94 - 07.95	6	2.0	KF		55D23L	90D23L
	05.94 - 09.95	6	2.0	KF/F		55D23L	90D23L
	05.94 - 06.98	4	1.8	BP		55D23L	90D23L
	08.95 - 06.98	4	1.6	B6		55D23L	90D23L
	10.96 - 07.98	6	2.0	KF		55D23L	90D23L
BJ	05.98 - 09.03	4	1.8	FP		55D23L	90D23L
	07.98 - 12.03	4	1.6	ZM		55D23L	90D23L
	12.00 - 12.03	4	2.0	FS		55D23L	90D23L
<b>626</b>							
GD	09.89 - 09.91	4	2.2	F2		40B19LS	
GE	09.91 - 06.97	6	2.5	KL		55D23L	90D23L
	01.92 - 06.97	4	2.0	FS		55D23L	90D23L
	11.92 - 05.94	6	2.5	KL		40B19LS	
GF	06.97 - 08.02	4	2.0	FSD; FSD DOHC		55D23L	90D23L

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<b>626 Turbo</b>						
GD	09.89 - 09.91	4	2.2	F2		40B19LS
<b>929</b>						
HC	02.87 - 08.91	6	3.0	JE; JED		55D26R 110D26R
HD	05.91 - 12.95	6	3.0	JE		55D23L 90D23L
HE	11.95 - 09.97	6	3.0	JE		55D23L 90D23L

**MERCEDES-BENZ**

<b>A 45 AMG 4MATIC</b>						
W176	06.13 - 06.15	4	2.0	M 133.980 <E20>		LN4
<b>A 180</b>						
W176	06.12→	4	1.6	M 270.910 <E 16>		LN3
<b>A 200</b>						
W176	06.12→	4	1.6	M 270.910 <E 16>		LN3
<b>A 200 CDI</b>						
W176	06.12 - 12.14	4	1.8	OM 651.901 <18 LHD> (Diesel)		LN3
<b>A140</b>						
W168	10.97 - 08.04	4	1.4	M 166.940 <E 14>		56219
<b>A150</b>						
W169	09.04 - 04.09	4	1.5	M 266.920 <E 15>		LN3
<b>A160</b>						
W168	10.97 - 08.04	4	1.6	M 166.960 <E 16>		56219
<b>A170</b>						
W169	09.04 - 04.09	4	1.7	M 266.940 <E 17>		LN3
<b>A190</b>						
W168	03.99 - 08.04	4	1.9	M 166.990 <E 19>		56219
<b>B 180</b>						
W246	09.11→	4	1.6	M 270.910 <E 16>		LN4
<b>B 200</b>						
W246	09.11→	4	1.6	M 270.910 <E 16>		LN3
<b>B 200 CDI</b>						
W246	09.11 - 05.15	4	1.8	OM 651.901 <18 LHD> (Diesel)		LN4
<b>B 250</b>						
W246	05.12→	4	2.0	M 270.920 <E 20>		LN3
<b>B180</b>						
W245	09.09→	4	1.7			LN3
<b>B180 CDI</b>						
W245	04.05 - 04.11	4	2.0	OM 640.940 <DE 20 LA> (Diesel)		574.068





◀ MERCEDES-BENZ

C 63 AMG Coupe							
W204	03.11 - 12.14	8	6.2	M 156.985 <E 63>		LN4	
C 180 CGI Coupe							
W204	03.11 - 04.12	4	1.8	M 271.820 <DE 18 EVO>		LN4	
	04.12 - 12.14	4	1.6	M 274.910 <E 16>		LN4	
C 200 CDI							
W204	04.08 - 12.14	4	2.1	OM 651.913 <D 22 LHD RED> (Diesel)		58515	
C 200 CDI T-Modell							
W204	01.11 - 12.14	4	2.1	OM 651.913 <D 22 LHD RED> (Diesel)		58014	
C 200 CGI							
W204	04.09 - 12.14	4	1.8	M 271.8... <DE 18 EVO>		58515	
C 200 KOMPRESSOR							
W203	05.00 - 08.02	4	2.0	M 111.955 <E 20 EVO ML>		56638	574.068
C 200 KOMPRESSOR Sportcoupe							
W203	01.01 - 08.02	4	2.0	M 111.955 <E 20 EVO ML>		56638	574.068
C 200 KOMPRESSOR T-Modell							
W202	04.00 - 02.01	4	2.0	M 111.956 <E 20 EVO ML>		56638	574.068
C 250 CDI							
W204	09.08 - 12.14	4	2.2	OM 651.911 <D 22 LHD> (Diesel)		LN3	
C 250 CDI Coupe							
W204	03.11 - 12.14	4	2.1	OM 651.911 <D 22 LHD> (Diesel)		LN4	
C 250 CDI T-Modell							
W204	04.09 - 12.14	4	2.1	OM 651.911 <D 22 LHD> (Diesel)		LN3	
C 250 CGI Coupe							
W204	03.11 - 12.14	4	1.8	M 271.860 <DE 18 EVO>		LN4	
C 300							
W204	09.07 - 01.11	6	3.0	M 272.947 <KE 30>		58515	
C 300 CGI							
W204	08.12 - 12.14	6	3.5	M 276.957 <DE 35>		LN4	
C 350 CDI							
W204	02.11 - 12.14	6	3.0	OM 642.834 (Diesel)		610.095	
C 350 CGI Coupe							
W204	03.11 - 12.14	6	3.5	M 276.957 <DE 35>		LN4	
CL 500 CGI Coupe							
W216	07.10 - 12.14	8	4.7	M 278.920 <DE 46 LA>		LN5	
CL 600 Coupe							
W140	06.96 - 08.99	12	6.0	M 120.982		60038	



\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.





CLA 200							
W117	12.12→	4	1.6	M 270.910 <E 16>		LN3	
CLA 250							
W117	12.12 - 06.15	4	2.0	M 270.920 <E 20>		LN3	
CLK55 AMG							
W208	05.99 - 04.02	8	5.4	M 113.984 <E55>		60038	
W209	08.01 - 08.06	8	5.4	M 113.987 <E 55>		60038	
	09.01 - 08.06	8	5.4	M 113.987 <E 55>		574.068	
CLK63 AMG							
W209	09.06 - 12.09	8	6.2	M 156.982 <E 63>		60038	
CLK200							
W208	06.97 - 06.00	4	2.0	M 111.945 <E20>		56219	
CLK200 Kompressor							
W208	06.00 - 01.03	4	2.0	M 111.956 <E 20 EVO ML>		56219	
W209	09.02 - 09.06	4	1.8	M 271.940 <KE 18 ML>		56638	574.068
CLK230 Kompressor							
W208	06.97 - 04.02	4	2.3	M 111.975 <E 23 ML>; M 111.982 <EVO ML>		56219	
CLK240							
W209	05.02 - 03.05	6	2.6	M 112.912 <E 26>		60038	
CLK280							
W209	04.05 - 12.09	6	3.0	M 272.940 <E 30>		574.068	
CLK320							
W208	06.98 - 01.03	6	3.2	M 112.940 <E32>		56638	574.068
W209	05.02 - 03.05	6	3.2	M 112.955 <E 32>		56638	574.068
	02.03 - 03.05	6	3.2	M 112.955 <E 32>		574.068	
CLK350							
W209	04.05 - 12.09	6	3.5	M 272.960 <E 35>		574.068	
CLK430							
W208	09.98 - 01.03	8	4.3	M 113.943 <E43>		60038	
CLK500							
W209	05.02 - 07.06	8	5.0	M 113.968 <E 50>		60038	
	02.03 - 07.06	8	5.0	M 113.968 <E 50>		574.068	
	09.06 - 12.09	8	5.5	M 273.967 <E 55>		574.068	
CLS 63 AMG Coupe							
W218	10.10→	8	5.5	M 157.981 <DELA 55>		LN5	
CLS 250							
W218	07.10 - 12.14	4	2.1	OM 651.924 <D 22 LHD> (Diesel)		LN4	
CLS 350 Shooting Brake							
W218	06.12 - 12.14	6	3.5	M 276.952 <DE 35>		LN5	





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CL500							
W218	02.11→	8	4.7	M 278.922 <DE 46 LA>		LN5	
CL500 Shooting Brake							
W218	06.12→	8	4.7	M 278.922 <DE 46 LA>		LN5	
CL55 AMG							
W215	09.99 - 08.02	8	5.4	M 113.986 <E 55>		60038	
CL55 AMG Kompressor							
W215	09.02 - 08.06	8	5.4	M 113.991 <E 55 ML AMG>		60038	
CL63 AMG							
W216	01.07 - 07.10	8	6.2	M 156.984 <E 63>		60038	
CL65 AMG							
W215	09.03 - 08.06	12	6.0	M 275.980 <E60>		60038	
W216	09.07 - 07.10	12	6.0	M 275.982 <E 60>		60038	
CL500							
W215	09.99 - 05.06	8	5.0	M 113.960 <E50>		60038	
W216	06.06 - 07.10	8	5.5	M 273.961 <E 55>		60038	
CL600							
W215	09.99 - 08.02	12	5.8	M 137.970 <E 58>		60038	
	09.02 - 08.06	12	5.5	M 275.950 <E55>		60038	
W216	09.06 - 12.14	12	5.5	M 275.953 <E 55>		60038	
C32 AMG Kompressor							
W203	01.01 - 01.04	6	3.2	M 112.961 <E 32 AMG>		60038	
C36 AMG							
W202	01.94 - 05.97	6	3.6	M 104.941 <AMG>		56638	574.068
C43 AMG							
W202	11.97 - 04.00	8	4.3	M 113.944		60038	
C55 AMG							
W203	02.04 - 08.07	8	5.4	M 113.988 <E 55>		60038	
C63 AMG							
W204	02.08 - 12.14	8	6.2	M 156.985 <E 63>		58014	
C63 AMG T-Model							
W204	02.08 - 12.14	8	6.2	M 156.985 <E 63>		60038	
C180							
W202	03.93 - 04.00	4	1.8	M 111.920 <E 18>; M 111.921 <E 18>		58515	
W203	10.00 - 08.02	4	2.0	M 111.951 <E 20 EVO>		56638	574.068
C180 Kompressor							
W203	09.02 - 02.08	4	1.8	M 271.946 <KE 18 ML>		56638	574.068
C180 T-Model							
W202	05.96 - 02.01	4	1.8	M 111.920 <E 18>		56638	574.068

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



Model	Year Range	Cyl.	CC	Engine Code	Start/Stop	OEM Equivalent	Premium Upgrade
<b>C200</b>							
W202	01.94 - 04.00	4	2.0	M 111.941 <E 20>		56219	
<b>C200 CGI T-Model</b>							
W204	04.09 - 12.14	4	1.8	M 271.8... <DE 18 EVO>	START STOP	LN2	
<b>C200 Kompressor</b>							
W203	09.02 - 02.07	4	1.8	M 271.940 <KE 18 ML>; M 271.942 <DE 18 ML>		56638	574.068
W204	03.07 - 04.10	4	1.8	M 271.950 <KE 18 ML>	START STOP	LN3	
<b>C200 Kompressor Sportcoupe</b>							
W203	09.02 - 02.08	4	1.8	M 271.940 <KE 18 ML>		56638	574.068
<b>C200 Kompressor T-Model</b>							
W203	01.01 - 08.02	4	2.0	M 111.955 <E 20 EVO ML>		56638	574.068
	09.02 - 08.07	4	1.8	M 271.940 <KE 18 ML>		56638	574.068
<b>C200 T-Model</b>							
W202	05.96 - 02.01	4	2.0	M 111.941 <E 20>		60038	
<b>C220</b>							
W202	03.93 - 09.96	4	2.2	M 111.961 <E 22>		56219	
W203	05.00 - 02.07	4	2.2	OM 611.962 <DE LA> (Diesel); OM 646.963 <DE 22 LA> (Diesel)		60038	
W204	03.07 - 04.09	4	2.2	OM 646.811 <DE 22 LALL> (Diesel)		58014	
<b>C220 CDI T-Model</b>							
W204	04.09 - 12.14	4	2.1	OM 651.911 <D 22 G> (Diesel)		58014	
<b>C230</b>							
W202	09.96 - 08.97	4	2.3	M 111.974 <E 23>		56219	
W203	06.05 - 07.07	6	2.5	M 272.920 <E 25>		56638	574.068
<b>C230 Kompressor Sportcoupe</b>							
W203	08.03 - 05.05	4	1.8	M 271.948 <KE 18 ML>		56638	574.068
<b>C230 Sportcoupe</b>							
W203	06.05 - 02.08	6	2.5	M 272.920 <E 25>		56638	574.068
<b>C230 T-Model</b>							
W202	05.96 - 05.97	4	2.3	M 111.974 <E 23>		56219	
W203	06.05 - 08.07	6	2.5	M 272.920 <E 25>		56638	574.068
<b>C240</b>							
W202	06.97 - 04.00	6	2.4	M 112.910 <E 24>		56219	
W203	05.00 - 05.05	6	2.6	M 112.912 <E 26>		56638	574.068
<b>C240 T-Model</b>							
W202	06.97 - 02.01	6	2.4	M 112.910 <E 24>		56638	574.068
W203	01.01 - 05.05	6	2.6	M 112.912 <E 26>		56638	574.068
<b>C250</b>							
W202	05.93 - 04.00	5	2.5	OM 605.910 (Diesel); OM 605.960 <AD 25 LA> (Diesel)		60038	





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C250 CGI							
W204	04.09 - 12.14	4	1.8	M 271.860 <DE 18 EVO>		LN3	
C280							
W202	05.93 - 04.00	6	2.8	M 104.941; M 112.920 <E 28>		60038	
C320							
W203	05.00 - 05.05	6	3.2	M 112.946 <E 32>		60038	
W204	06.07 - 04.09	6	3.0	OM 642.960 <D 30> (Diesel)		58014	
C320 Sportcoupe							
W203	09.02 - 05.05	6	3.2	M 112.946 <E 32>		60038	
C350							
W203	06.05 - 02.07	6	3.5	M 272.960 <E 35>		60038	
C350 CDI							
W204	10.09 - 01.11	6	3.0	OM 642.830 <D 30> (Diesel)		60038	
E 200 Coupe							
W207	01.13→	4	2.0	M 274.920 <E20>		LN5	
E 200 T-Modell							
W212	08.12 - 08.16	4	2.0	M 274.920 <E20>		LN5	
E 250 Coupe							
W207	01.13→	4	2.0	M 274.920 <E20>		LN5	
E 300 BlueTec Hybrid							
W212	04.12 - 08.16	4	2.1	OM 651.924 <D 22 LHD> (Diesel)		LN5	
E 400 Coupe							
W207	02.13 - 08.17	6	3.0	M 276.820 <DE 30 LA>		LN5	
E 400 T-Modell							
W212	01.13 - 08.15	6	3.0	M 276.820 <DE 30 LA>		LN5	
E 500 CGI Coupe							
W207	02.11→	8	4.7	M 278.922 <DE 46 LA>		LN4	
E36 AMG							
W124	03.94 - 06.98	6	3.6	M 104.992		60038	
E55 AMG							
W210	09.97 - 03.03	8	5.5	M 113.980 <E55>		60038	
E200 Kompressor							
W210	09.00 - 03.02	4	2.0	M 111.957 <E20 EVO ML>		56638	574.068
E220							
W124	07.93 - 06.95	4	2.2	M 111.960		56638	574.068
E220 Cabriolet							
W124	07.93 - 06.98	4	2.2	M 111.960		56638	574.068



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Model	Year Range	Cyl.	CC	Engine Code	Start/Stop	OEM Equivalent	Premium Upgrade
<b>E220 Coupe</b>							
W124	07.93 - 06.97	4	2.2	M 111.960		56638	574.068
<b>E220 T-Model</b>							
W124	07.93 - 05.96	4	2.2	M 111.960		56638	574.068
<b>E230</b>							
W210	06.95 - 08.97	4	2.3	M 111.970 <E23>		56219	
<b>E230 T-Model</b>							
W210	05.96 - 08.97	4	2.3	M 111.970 <E23>		56638	574.068
<b>E240</b>							
W210	09.97 - 04.00	6	2.4	M 112.911 <E24>		56638	574.068
W211	03.02 - 03.05	6	2.6	M 112.913 <E 26>	START STOP	LN5	
<b>E240 T-Model</b>							
W210	09.97 - 07.99	6	2.4	M 112.911 <E24>		56638	574.068
	08.99 - 01.03	6	2.6	M 112.914 <E26>		56638	574.068
<b>E250 CDI</b>							
W212	04.09 - 04.13	4	1.8	M 271.860 <DE 18 EVO>		60038	
<b>E270</b>							
W210	08.99 - 03.02	5	2.7	OM 612.961 <DE LA> (Diesel)		60038	
<b>E280</b>							
W124	07.93 - 06.95	6	2.8	M 104.942		56638	574.068
W210	06.95 - 01.03	6	2.8	M 112.921 <E28>		60038	
<b>E280 T-Model</b>							
W124	07.93 - 05.96	6	2.8	M 104.942		56638	574.068
<b>E300</b>							
W124	07.93 - 06.95	6	3.0	OM 606.910 (Diesel)		60038	
W210	03.97 - 07.99	6	3.0	OM 606.962 <D 30> (Diesel)		60038	
<b>E320</b>							
W124	07.93 - 06.95	6	3.2	M 104.992		56638	574.068
W210	06.95 - 07.99	6	3.2	M 104.995; M 112.941 <E32>		56638	574.068
W211	03.02 - 03.05	6	3.2	M 112.949 <E 32>		60038	
<b>E320 Cabriolet</b>							
W124	05.93 - 06.98	6	3.2	M 104.992		60038	
<b>E320 Coupe</b>							
W124	07.93 - 06.98	6	3.2	M 104.992		574.068	
<b>E350 T-Model</b>							
W212	08.09 - 07.11	6	3.5	M 272.980 <M272 E35>	START STOP	LN5	
<b>E430</b>							
W210	09.97 - 06.99	8	4.3	M 113.940 <E43>		60038	
	08.99 - 03.02	8	4.3	M 113.940 <E43>		60038	





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E500						
W124	09.93 - 08.94	8	5.0	M 119.974		60038
G 55 AMG KOMPRESSOR						
W463	04.04 - 08.11	8	5.4	M 113.993 <E 55>		60038
G 63 AMG						
W463	04.12 - 05.15	8	5.5	M 157.984 <DELA 55>		LN5
G 350 BlueTec						
W463	07.10 - 12.15	6	3.0	OM 642.886 (Diesel)		LN5
GL 350 BlueTec 4MATIC						
W166	08.12 - 12.15	6	3.0	OM 642.826 <D 30> (Diesel)		LN5
GL 350 CDI 4MATIC						
W164	09.10 - 12.12	6	3.0	OM 642.822 <D 30> (Diesel)		LN5
GL 500 4MATIC						
W166	08.12 - 12.15	8	4.7	M 278.928 <DE 46 LA>		LN5
GL320						
W164	02.06 - 04.09	6	3.0	OM 642.940 <D 30> (Diesel)		60038
GL350 CDI						
W204	04.09 - 03.12	6	3.0	OM 642.832 <D 30> (Diesel)		LN5
GL500						
W164	02.06 - 12.12	8	5.5	M 273.963 <E 55>		60038
G320						
W463	12.97 - 08.06	6	3.2	M 112.945 <E 32>		60038
MB100						
	01.96→	4	2.3	M 161.971; OM 661.911 (Diesel)		56318 575.068
		5	2.9	OM 662.911 (Diesel)		56318 575.068
MB140						
	11.96→	5	2.9	OM 662.911 (Diesel)		56318 575.068
ML 63 AMG 4MATIC						
W166	08.11 - 08.15	8	5.5	M 157.982 <DELA 55>		LN5
ML 250						
W166	06.11 - 08.15	4	2.1	OM 651.960 <D 22 LHD> (Diesel)		LN5
ML 350						
W166	06.11 - 08.15	6	3.0	OM 642.826 <D 30> (Diesel)		LN5
			3.5	M 276.955 <DE 35>		LN5
ML 500 4MATIC						
W166	02.12 - 08.15	8	4.7	M 278.928 <DE 46 LA>		LN5
ML63 AMG						
W164	02.06 - 08.11	8	6.2	M 156.980 <E 63>		LN5

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ML320							
W163	03.98 - 08.03	6	3.2	M 112.942 <E 32>			60038
W164	03.05 - 04.09	6	3.0	OM 642.940 <D 30> (Diesel)	START STOP		LN5
ML350							
W163	08.02 - 01.03	6	3.7	M 112.970 <E 37>			60038
W164	09.05 - 06.11	6	3.5	M 272.967 <E 35>	START STOP		LN5
ML430							
W163	09.98 - 07.02	8	4.3	M 113.942 <E 43>			60038
ML500							
W163	09.01 - 06.05	8	5.0	M 113.965 <E 50>			58014
R 350 CDI 4MATIC							
W251	05.10 - 10.12	6	3.0	OM 642.872 <D 30> (Diesel)	START STOP		LN5
S 350 BlueTec							
W222	05.13 - 08.15	6	3.0	OM 642.861 <D 30> (Diesel)	START STOP		LN5
S 350 CGI							
W221	09.10 - 12.13	6	3.5	M 276.950 <DE 35>	START STOP		LN5
S 500							
W222	07.13 - 04.17	8	4.7	M 278.929 <DE 46 LA>	START STOP		LN5
SL 63 AMG							
W231	01.12 - 08.14	8	5.5	M 157.983 <DE 55 LA>	START STOP		LN5
SL 65 AMG							
W231	03.12→	12	6.0	M 279.981 <E 60>	START STOP		LN5
SL 350							
W231	02.12 - 12.13	6	3.5	M 276.954 <DE 35>	START STOP		LN5
SL 500							
W231	02.12 - 08.14	8	4.7	M 278.927 <DE 46 LA>	START STOP		LN5
SLK 250							
W172	01.11 - 08.15	4	1.8	M 271.861 <DE 18 EVO>	START STOP		LN4
SLK32 AMG							
W170	06.99 - 03.04	6	3.2	M 112.960 <E32 ML>		56638	574.068
SLK55 AMG							
W171	04.04 - 11.10	8	5.4	M 113.989 <E 55>		574.068	
SLK200							
W170	09.96 - 01.00	4	2.0	M 111.946 <E20>		56638	574.068
SLK200 Kompressor							
W170	09.96 - 03.04	4	2.0	M 111.943 <E20 ML>; M 111.958 <E20 EVO ML>		56638	574.068
W171	04.04 - 11.10	4	1.8	M 271.944 <KE 18 ML>; M 271.954 <KE 18 ML>		574.068	
SLK230 Kompressor							
W170	09.96 - 03.04	4	2.3	M 111.973 <E23 ML>; M 111.983 <E23 EVO ML>		56638	574.068





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**SLK280**

<b>W171</b>	05.05 - 02.09	6	3.0	M 272.942 <E 30>	<b>574.068</b>
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**SLK300**

<b>W171</b>	03.09 - 11.10	6	3.0	M 272.942 <E 30>	<b>574.068</b>
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**SLK320**

<b>W170</b>	06.99 - 03.04	6	3.2	M 112.947 <E32>	<b>56638</b>	<b>574.068</b>
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**SLK350**

<b>W171</b>	04.04 - 02.11	6	3.5	M 272.963 <E 35>; M 272.969 <E 35>	<b>574.068</b>
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**SLS AMG 6.2 Coupe**

<b>W197</b>	11.09 - 12.14	8	6.2	159.980 <M159 E63>		<b>LN5</b>
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**SL280**

<b>W129</b>	07.93 - 08.01	6	2.8	M 104.943; M 112.923	<b>60038</b>
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**SL320**

<b>W129</b>	06.98 - 08.01	6	3.2	M 112.943	<b>60038</b>
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**SL500**

<b>W129</b>	09.93 - 08.01	8	5.0	M 113.961; M 119.972; M 119.982	<b>60038</b>
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**SL600**

<b>W129</b>	07.93 - 08.01	12	6.0	M 120.981; M 120.983	<b>60038</b>
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**Sprinter**

<b>WT1N</b>	02.95 - 03.00	4	2.3	OM 601.943 (Diesel)	<b>574.068</b>
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5	2.9	OM 602.980 D LA (Diesel)	<b>574.068</b>
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				<b>60038</b>
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	04.00 - 05.06	4	2.1	OM 611.981 D LA (Diesel)	<b>60038</b>
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				<b>60038</b>
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5	2.7	OM 612.981 D LA (Diesel)	<b>60038</b>
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<b>WNCV3</b>	04.06 - 12.11	4	2.1	OM 646.9... <Euro 4> (Diesel); OM 646.984	<b>574.068</b>
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				D 22 LA <Euro 4> (Diesel); OM 646.985 D 22 LA
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				<Euro 4> (Diesel)
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**Sprinter CDI**

	06.01 - 05.12	4	2.2	OM 611 LA (Diesel)	<b>575.068</b>
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<b>WNCV3</b>	04.06 - 03.09	6	3.0	OM 642... <Euro 4> (Diesel)	<b>574.068</b>
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	04.06 - 09.11	4	2.1	OM 646.9... <Euro 4> (Diesel)	<b>574.068</b>
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**S280**

<b>W140</b>	06.93 - 09.98	6	2.8	M 104.944	<b>60038</b>
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**S320**

<b>W220</b>	10.98 - 08.02	6	3.2	M 112.944 <E32>	<b>60038</b>
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**S350**

<b>W220</b>	09.02 - 08.06	6	3.7	M 112.972 <E37>	<b>60038</b>
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S420						
W140	06.93 - 09.98	8	4.2	M 119.971;981		60038
S430						
W220	10.98 - 08.06	8	4.3	M 113.941 <E43>		60038
S500						
W140	06.93 - 09.98	8	5.0	M 119.970;980		60038
W220	06.00 - 08.05	8	5.0	M 113.960 <E50>		60038
S600						
W140	06.93 - 09.98	12	6.0	M 120.98...; M 120.98... <M 120>		60038
W220	09.02 - 01.06	12	5.5	M 275.950 <E55>		60038
Viano						
W639	09.03 - 12.10	4	2.1	OM 646.98... <OM 646 DE22LA> (Diesel)		60038
	06.04 - 08.07	6	3.7	M 112.976 <M 112.E37>		60038
Viano CDI 2.2						
W639	07.10 - 12.14	4	2.1	OM 651.940 <OM 651 DE22LA> (Diesel)		575.068
Viano CDI 3.0						
W639	07.10 - 12.14	6	3.0	OM 642.890 <OM 642 DE 30 LA> (Diesel)		LN4
Vito						
W638	11.95 - 09.03	4	2.0	M 111.950 <E20>		60038
			2.3	OM 601.942 (Diesel)		60038
	04.99 - 09.03	4	2.2	OM 611.980 (Diesel)		60038
W639	10.03 - 10.06	4	2.1	OM 646.983 <OM 646 DE22LA> (Diesel)		60038
	10.03 - 12.10	6	3.2	M 112.951 <M 112.E32>		60038
Vito CDI						
W639	10.03 - 07.10	4	2.1	OM 646.98... <OM 646 DE22LA> (Diesel); OM 646.980 <OM 646 DE22LA> (Diesel); OM 646.982 <OM 646 DE22LA> (Diesel)		60038
				04.06 - 07.10	6	3.0
Vito 110 CDI						
W639	07.10 - 12.14	4	2.1	OM 651.940 <OM 651 DE22LA> (Diesel)		575.068
Vito 113 CDI						
W639	07.10 - 12.14	4	2.1	OM 651.940 <OM 651 DE22LA> (Diesel)		575.068
Vito 116 CDI						
W639	07.10 - 12.14	4	2.1	OM 651.940 <OM 651 DE22LA> (Diesel)		575.068
Vito 122 CDI						
W639	07.10 - 12.14	6	3.0	OM 642.890 <OM 642 DE 30 LA> (Diesel)		LN4
180E						
W201	09.91 - 04.94	4	1.8	M 102.910		56219
190E						
W201	08.84 - 08.93	4	2.3	M 102.985		56219
	09.86 - 09.93	4	2.0	M 102.962		56219
















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<b>W201</b>	03.90 - 08.93	4	1.8	M 102.910		<b>56219</b>	
<b>220E</b>							
<b>W124</b>	09.92 - 06.93	4	2.2	M 111.960		<b>56638</b>	<b>574.068</b>
<b>230E</b>							
<b>W124</b>	12.84 - 06.93	4	2.3	M 102.982		<b>56219</b>	
<b>230TE</b>							
<b>W124</b>	09.85 - 08.93	4	2.3	M 102.982		<b>56638</b>	<b>574.068</b>
<b>260E</b>							
<b>W124</b>	09.85 - 10.92	6	2.6	M 103.940		<b>56638</b>	<b>574.068</b>
<b>300CE</b>							
<b>W124</b>	03.87 - 06.93	6	3.0	M 103.983; M 104.980		<b>56638</b>	<b>574.068</b>
<b>300D</b>							
<b>W124</b>	01.85 - 06.93	6	3.0	OM 603.912 (Diesel)		<b>56638</b>	<b>574.068</b>
<b>300E</b>							
<b>W124</b>	01.85 - 08.93	6	3.0	M 103.98...		<b>56638</b>	<b>574.068</b>
	09.92 - 06.93	6	2.8	M 104.942		<b>60038</b>	
<b>300GD</b>							
<b>W460</b>	12.79 - 08.91	5	3.0	OM 617.931 (Diesel)		<b>60038</b>	
<b>300SE</b>							
<b>W126</b>	09.85 - 06.91	6	3.0	M 103.981		<b>56638</b>	<b>574.068</b>
	09.89 - 06.91	6	3.0	M 103.981		<b>574.068</b>	
<b>W140</b>	03.91 - 05.93	6	3.2	M 104.99...		<b>60038</b>	
<b>300TD</b>							
<b>W124</b>	09.89 - 06.93	6	3.0	OM 603.912 (Diesel)		<b>60038</b>	
<b>300TE</b>							
<b>W124</b>	01.86 - 08.92	6	3.0	M 103.983		<b>56638</b>	<b>574.068</b>
<b>310 CDI Sprinter</b>							
<b>WNCV3</b>	03.09→	4	2.1	OM 651.955 D 22 LA (Diesel)		<b>575.068</b>	
<b>313 CDI Sprinter</b>							
<b>WNCV3</b>	03.09→	4	2.1	OM 651.95... (Diesel)		<b>575.068</b>	
<b>316 CDI Sprinter</b>							
<b>WNCV3</b>	03.09→	4	2.1	OM 651.95... (Diesel)		<b>60038</b>	
<b>316 NGT Sprinter</b>							
<b>WNCV3</b>	09.08→	4	1.8	M 271.951 <M 271 E 18 ML>		<b>60038</b>	
<b>319 CDI Sprinter</b>							
<b>WNCV3</b>	03.09→	6	3.0	OM 642... <Euro 5> (Diesel)		<b>LN5</b>	
<b>320CE</b>							
<b>W124</b>	09.92 - 06.93	6	3.2	M 104.992		<b>56638</b>	<b>574.068</b>

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.

							
<b>320E</b>							
<b>W124</b>	09.92 - 06.93	6	3.2	M 104.992		<b>56638</b>	<b>574.068</b>
<b>400SE</b>							
<b>W140</b>	02.91 - 05.93	8	4.2	M 119.971;981		<b>60038</b>	
<b>416 CDI Sprinter</b>							
	06.06→	5	2.7	OM 612.981 D LA (Diesel)		<b>LN5</b>	
<b>419 CDI Sprinter</b>							
<b>WNCV3</b>	03.09→	6	3.0	OM 642... <Euro 5> (Diesel)		<b>LN5</b>	
<b>420SEL</b>							
<b>W126</b>	09.85 - 06.91	8	4.2	M 116.965		<b>60038</b>	
<b>500SE</b>							
<b>W140</b>	02.91 - 05.93	8	5.0	M 119.970;980		<b>60038</b>	
<b>500SEC</b>							
<b>W140</b>	10.92 - 05.93	8	5.0	M 119.970;980		<b>60038</b>	
<b>500SL</b>							
<b>W129</b>	09.89 - 08.92	8	5.0	M 119.960		<b>60038</b>	
<b>513 CDI Sprinter</b>							
<b>WNCV3</b>	03.09→	4	2.1	OM 651.95... (Diesel)		<b>575.068</b>	
<b>519 CDI Sprinter</b>							
<b>WNCV3</b>	03.09→	6	3.0	OM 642... <Euro 5> (Diesel)		<b>LN5</b>	
<b>560SEC</b>							
<b>W126</b>	10.85 - 06.91	8	5.6	M 117.968		<b>60038</b>	
<b>560SEL</b>							
<b>W126</b>	10.85 - 06.91	8	5.6	M 117.968		<b>60038</b>	
<b>600SL</b>							
<b>W129</b>	07.92 - 06.93	12	6.0	M 120.981;983		<b>60038</b>	
							<b>MG</b>
<b>MGF</b>							
	10.95 - 03.02	4	1.8	18 K4F <K-Serie K 1.8>; 18 K4K <MPI VVC K-Serie>		<b>560.060</b>	
<b>MGTF</b>							
	03.02→	4	1.8	18 K4F K-Serie <DOHC>; 18 K4F K-Serie- VVC- <DOHC>		<b>560.060</b>	
<b>ZR</b>							
	10.01 - 05.05	4	1.8	18 K4K <MPI VVC K-Serie>		<b>560.060</b>	
<b>ZS</b>							
	10.01 - 05.05	6	2.5	25 K4F <KV6>		<b>55066</b>	
<b>ZT</b>							
	10.01 - 05.05	6	2.5	25 K4F <KV6>		<b>56638</b>	<b>574.068</b>
	01.03 - 05.05	6	2.5	25 K4F <KV6>		<b>560.060</b>	





**MINI (BMW)**

**Cooper**

R 50	06.01 - 11.07	4	1.6	W10 B16A...		56219
R 56	11.06 - 08.10	4	1.6	N12 B16...		56219
	03.10 - 11.13	4	1.6	N16 B16A	BWD,	LN3
F 55	10.14→	3	1.5	B3... <SULEV>		LN3

**Cooper Cabrio**

R 52	07.04 - 07.08	4	1.6	W10 B16A...		56219
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**Cooper Clubman**

R 55	11.07 - 07.10	4	1.6	N12 B16...		LN3
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**Cooper Countryman ALL4**

R 60	07.13 - 10.16	4	1.6	N18 B16A		575.068
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**Cooper Coupe**

R 58	09.11 - 04.15	4	1.6	N16 B16A		575.068
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**Cooper D**

R 56	03.11 - 11.13	4	2.0	N47 C20A (Diesel)		58014
F 55	10.14→	3	1.5	B37 C15A (Diesel)		LN3

**Cooper Paceman**

R 61	03.13 - 09.16	4	1.6	N16 B16A		LN3
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**Cooper S**

R 53	03.02 - 11.06	4	1.6	W11 B16A		56219
R 56	11.06 - 07.10	4	1.6	N14 B16A...		56219
						LN3
F 55	10.14→	4	2.0	B4... <SULEV>		LN3

**Cooper S Cabrio**

R 52	08.04 - 07.08	4	1.6	W11 B16A		56219
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**Cooper S Clubman**

R 55	11.07 - 07.10	4	1.6	N14 B16AB		LN3
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**Cooper S Coupe**

R 58	09.11 - 04.15	4	1.6	N18 B16A		LN3
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**Cooper S Paceman**

R 61	03.13 - 06.14	4	1.6	N18 B16A		LN3
	07.14 - 09.16	4	1.6	N18 B16A		575.068

**Cooper S Roadster**

R 59	02.12 - 04.15	4	1.6	N18 B16A		LN3
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**John Cooper Works**

R 53	08.04 - 11.06	4	1.6	W11 B16A		56219
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\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



**John Cooper Works Cabrio**

R 52	08.04 - 07.08	4	1.6	W11 B16A		56219
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**John Cooper Works Clubman**

R 55	07.08 - 06.12	4	1.6	N14 B16C		56219
					BWD,	LN3

**John Cooper Works Coupe**

R 58	09.11 - 07.12	4	1.6	N14 B16C		LN3
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**John Cooper Works Roadster**

R 59	02.12 - 06.12	4	1.6	N14 B16C		LN3
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**MITSUBISHI**

**ASX**

GA	05.13→	4	2.3	4N14 (Diesel)		95D31L
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**ASX 1.8 DI-D 4WD**

GA	04.10 - 12.16	4	1.8	4N13 (Diesel)	SSN	574.068
						LN3

**ASX 2.0 4x4**

GA	05.10→	4	2.0	4B11		56219
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**Canter**

	10.93 - 05.99	4	2.8	4M40 (Diesel)		130E41 (N100)
	07.04→	4	4.9	4M50 (Diesel)		110D26R

**Challenger**

	05.96 - 07.97	4	2.5	4D56 (Diesel)		55D26R	110D26R
	05.96 - 05.99	4	2.8	4M40 (Diesel)		55D26R	110D26R
	08.97 - 08.01	6	3.5	6G74 (DOHC)		55D26R	110D26R
PA	02.98→	6	3.0	6G72		55D26R	110D26R
KH	10.09 - 11.15	4	2.5	4D56 (Diesel)		95D31L	105D31L

**Colt**

RE	09.88 - 12.90	4	1.4	4G33		40B19LS
			1.6	4G32		40B19LS
CZ	04.04 - 06.10	4	1.5	4A91		55066
	10.04 - 05.06	4	1.5	4G15 (DOHC)		55D23R
CZ	01.05 - 04.13	4	1.5	4G15		575.068
	05.06 - 07.11	4	1.5	4G15 (DOHC)		55D23L

**Delica**

	04.86 - 08.99	4	2.5	4D56 (Diesel)		40B19RS
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**Express / Starwagon L300**

SF	01.86 - 12.90	4	2.0	4G63		40B19LS
			2.4	4G64		40B19LS
SF, SG	01.86 - 12.90	4	2.0	4G63		40B19LS
			2.4	4G64		40B19LS





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<b>SG</b>	01.90 - 12.91	4	2.0	4G63	<b>40B19LS</b>		
			2.4	4G64	<b>40B19LS</b>		
<b>SH</b>	09.91→	4	2.4	4G64	<b>40B19LS</b>		
			01.92 - 08.94	4	2.0	4G63	<b>40B19LS</b>
					2.5	4D56 (Diesel)	<b>95D31R</b>
<b>WA</b>	09.94 - 06.06	4	2.4	4G64	<b>40B19LS</b>		
<b>SJ</b>	09.94→	4	2.0	4G63	<b>40B19LS</b>		
			2.5	4D56 (Diesel)	<b>95D31R</b>	<b>105D31R</b>	

<b>FTO</b>						
	09.94 - 07.00	4	1.8	4G93 (SOHC)	<b>55B24RS</b>	
		6	2.0	6A12 (DOHC)	<b>55B24RS</b>	

<b>Galant</b>						
<b>HG</b>	01.89 - 12.90	4	2.0	4G63 SOHC	<b>55D23R</b>	<b>90D23R</b>
<b>HG/HH</b>	01.89 - 12.93	4	2.0	4G63 DOHC	<b>55D23R</b>	<b>90D23R</b>
<b>HH</b>	01.90 - 12.93	4	2.0	4G63 SOHC	<b>55D23R</b>	<b>90D23R</b>
<b>HJ</b>	11.92 - 05.96	4	2.0	4G63 Kat.; 4G63 SOHC Kat.	<b>55D23R</b>	<b>90D23R</b>
		6	2.0	6A12 Kat.	<b>55D23R</b>	<b>90D23R</b>

<b>Galant VR4</b>						
<b>HH</b>	01.90 - 12.93	4	2.0	4G63 DOHC	<b>55D23R</b>	<b>90D23R</b>

<b>Grandis</b>						
	01.04 - 11.10	4	2.4	4G69	<b>95D31L</b>	<b>105D31L</b>

<b>i-MiEV</b>						
	04.10 - 11.13	0	0.0	Y4F1	<b>40B19L</b>	

<b>Lancer</b>						
<b>CA</b>	04.88 - 05.90	4	1.6	4G61	<b>40B19RS</b>	
	08.88 - 09.90	4	1.5	4G15	<b>40B19RS</b>	
<b>CB</b>	10.90 - 09.92	4	1.5	4G15 SOHC	<b>40B19RS</b>	
			1.6	4G61 DOHC	<b>40B19RS</b>	
<b>CC</b>	05.92 - 12.96	4	1.8	4G93 Kat.	<b>40B19RS</b>	
	06.92 - 12.96	4	1.6	4G92 Kat.; 4G92 MVV	<b>40B19RS</b>	
	06.92 - 12.97	4	1.5	4G15; 4G15 <MPI>	<b>40B19RS</b>	
<b>CE</b>	11.95 - 09.00	4	1.6	4G92 Kat.	<b>40B19LS</b>	
	11.95 - 02.03	4	1.5	4G15	<b>40B19LS</b>	
	05.96 - 05.01	4	1.8	4G93 Kat.	<b>40B19LS</b>	
<b>CH</b>	06.02 - 06.08	4	2.0	4G63	<b>55D23L</b>	<b>90D23L</b>
	06.03 - 06.08	4	1.3	4G13	<b>40B19LS</b>	
			2.0	4G63	<b>40B19LS</b>	
	01.05 - 06.07	4	2.0	4G94	<b>55D23L</b>	<b>90D23L</b>
<b>CJ</b>	07.07→	4	2.0	4B11 <DOHC MIVEC 16v>	<b>55D23L</b>	<b>90D23L</b>
	08.07 - 12.09	4	2.0	4B11	<b>22FR-550</b>	<b>22FR-680</b>
<b>CJ</b>	09.08 - 08.15	4	2.4	4B12	<b>55D23L</b>	<b>90D23L</b>
	12.08 - 12.09	4	2.0	4B11	<b>55D23L</b>	<b>90D23L</b>

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Lancer Evo IV							
CK/CP/CN	08.96 - 06.97	4	2.0	4G63 Kat.		40B19LS	
Lancer Evo IX							
CS/CT	08.05 - 06.07	4	2.0	4G63 MIVEC		55D23L	90D23L
Lancer Evo VII							
CS/CT	12.00 - 12.03	4	2.0	4G63		55D23L	90D23L
Lancer Evo VIII							
CS/CT	09.02 - 07.05	4	2.0	4G63		40B19LS	
Lancer Evo VII/VIII/IX							
	01.01 - 01.07	4	2.0	4G63 (DOHC)		55D23L	90D23L
Lancer Evo V/VI							
CK/CP/CN	01.98 - 09.00	4	2.0	4G63 Kat.		40B19LS	
Lancer Evo X							
CY/CZ	08.07 - 06.14	4	2.0	4B11 <T/C MIVEC 14>		110D26L	
Lancer GSR							
	10.92 - 10.95	4	1.8	4G93 (DOHC)		90D23R	
	10.95 - 05.96	4	1.8	4G93 (DOHC)		55B24LS	
Lancer Ralliart							
CJ	03.07 - 06.12	4	2.0	4B11		55D23L	90D23L
L200							
K0/K1/K2/K3	06.90 - 05.91	6	3.0	6G72		40B19R	
L300							
P	11.88 - 05.96	4	2.4	4G64 Kat.		40B19R	
Magna / Verada							
TP	06.89 - 04.92	4	2.6	4G54 <Astron II>; 4G54 EFI <Astron II>		22NF-330D	
TR	04.91 - 02.94	4	2.6	4G54; 4G54 EFI <Astron II>		22FR-550	22FR-680
KR	07.91 - 02.94	6	3.0	6G72		22FR-550	22FR-680
TR	04.93 - 02.94	6	3.0	6G72		22FR-550	22FR-680
KS	03.94 - 09.96	6	3.0	6G72 <E32>		22FR-550	22FR-680
TS	03.94 - 02.97	4	2.6	4G54		22FR-550	22FR-680
		6	3.0	6G72		22FR-550	22FR-680
TE	04.96 - 05.97	4	2.4	4G64		22FR-550	22FR-680
		6	3.0	6G72		22FR-550	22FR-680
KE	10.96 - 05.97	6	3.0	6G72		22FR-550	22FR-680
			3.5	6G74 <E35>		22FR-550	22FR-680
KF	06.97 - 03.99	6	3.0	6G72		22FR-550	22FR-680
			3.5	6G74 <E35>		22FR-550	22FR-680
TF	06.97 - 03.99	4	2.4	4G64		22FR-550	22FR-680
		6	3.0	6G72		22FR-550	22FR-680
KW	01.98 - 03.07	6	3.5	6G74 <E35>		22FR-550	22FR-680
KH	04.99 - 07.00	6	3.5	6G74 <E35>		22FR-550	22FR-680





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TH	04.99 - 07.00	6	3.0	6G72 <E32>		22FR-550	22FR-680
			3.5	6G74 <E35>		22FR-550	22FR-680
KJ	08.00 - 06.02	6	3.5	6G74 <E35>		22FR-550	22FR-680
TJ	08.00 - 06.02	6	3.0	6G74 <E32>		22FR-550	22FR-680
			3.5	6G74 <E35>		22FR-550	22FR-680
KJ II	07.02 - 07.03	6	3.5	6G74 <E35>		22FR-550	22FR-680
TJ II	07.02 - 01.04	6	3.5	6G74 <E35>		22FR-550	22FR-680
KL	06.03 - 09.04	6	3.5	6G74 <E35>		22FR-550	22FR-680
TL	06.03 - 09.04	6	3.5	6G74 <E35>		22FR-550	22FR-680
TW	10.04 - 09.05	6	3.5	6G74 <E35>; 6G74 <E40>		22FR-550	22FR-680
KL	08.08 →	6	3.5	6G74 <E35>		22FR-550	22FR-680
<b>Mirage</b>							
	01.93 - 12.03	4	1.5	4G15 <SOHC Kat.>		40B19RS	
CE	06.96 - 12.03	4	1.5	4G15 S3		40B19RS	
<b>Nimbus</b>							
UC	09.87 - 11.91	4	2.0	4G63		40B19LS	
UF	01.92 - 11.98	4	2.4	4G64 SOHC		22NF-330D	
UG	12.98 - 05.04	4	2.4	4G64		55B24LS	
<b>Outlander</b>							
ZE	05.03 - 07.04	4	2.4	4G64S4M		55D23L	90D23L
ZF	08.04 - 10.06	4	2.4	4G69 MIVEC		55D23L	90D23L
ZG/ZH	11.06 →	4	2.4	4B12		90D23L	
ZG	10.07 - 09.09	6	3.0	6B31		55D23L	90D23L
GF	04.12 →	4	2.0	4J11		Q85L	
			2.3	4N14 (Diesel)		110D26R	
<b>Outlander 2.4i 4WD</b>							
GF	10.12 →	4	2.4	4J12		Q85L	
<b>Pajero</b>							
NA-NG	12.82 - 04.91	4	2.6	4G54		55D26R	110D26R
NF/NG	09.88 - 04.91	6	3.0	6G72		55D26R	110D26R
NF-NH	09.88 - 04.91	6	3.0	6G72 (SOHC)		55D26R	110D26R
NG-NL	10.90 - 09.99	6	3.0	6G72 (SOHC)		55D26R	110D26R
NF/NG	12.90 - 06.00	4	2.5	4D56 (Diesel)		105D31R	
NH-NG	04.91 - 07.93	4	2.5	4D56 (Diesel)		105D31R	
NH	05.91 - 10.93	4	2.6	4G54		55D26R	110D26R
NH-NL	05.91 - 08.97	6	3.0	6G72		55D26R	110D26R
NJ-NL	07.93 - 05.97	6	3.5	6G74 (DOHC)		95D31R	105D31R
	07.93 - 09.99	4	2.8	4M40 (Diesel)		95D31R	105D31R
NJ-NM	11.93 - 02.00	6	3.5	6G74 Kat.		95D31R	105D31R
NF-NJ	11.93 - 04.00	4	2.8	4M40 (Diesel)		105D31R	
NJ-NL	06.94 - 05.99	4	2.8	4M40 (Diesel)		105D31R	
NK/NL	04.96 - 09.99	4	2.4	4G64 (SOHC)		55D23L	90D23L
NL	05.97 - 09.99	6	3.5	6G74 (DOHC)		55D26R	110D26R

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NL	08.97 - 09.99	6	3.5	6G74 (DOHC)	WW	55D23R	90D23R
NL-NW	09.97→	6	3.0	6G72 OHC Kat.		110D26R	
NL/NM	06.99 - 07.00	6	3.5	6G74 (DOHC)		55D23L	90D23L
NG-NP	06.99 - 11.04	4	3.2	4M41 (Diesel)		95D31L	105D31R
NM-NW	01.00→	6	3.5	6G74 DOHC 24V		55D23R	90D23R
NM-NS	02.00 - 08.06	4	3.2	4M41 (Diesel)		105D31L	
NM-NP	07.00 - 10.05	6	3.5	6G74 (DOHC)		55D23L	
NM-NS	07.00 - 09.06	6	3.0	6G72 (SOHC)		95D31R	105D31R
NP-NW	01.03→	4	3.2	4M41 (Diesel)		95D31L	105D31L
		6	3.8	6G75		95D31L	105D31L
NS,NT	10.06→	6	3.8	6G75		95D31L	105D31L
NT	10.08 - 08.10	4	3.2	4M41 (Diesel)		110D26L	
<b>Pajero DI-D</b>							
NT	07.09→	4	3.2	4M41 (Diesel)		110D26L	
<b>Pajero iO</b>							
QA	03.99 - 09.01	4	1.6	4G18 <6-T1>		55D23L	90D23L
			1.8	4G93 Kat.		55D23L	90D23L
	10.99 - 08.01	4	1.8	4G93 DOHC		56219	
	07.00 - 01.04	4	2.0	4G94		56219	
<b>RVR</b>							
	01.91 - 09.92	4	2.0	4G63 (DOHC)		90D23R	
	06.91 - 11.97	4	1.8	4G93 (SOHC)		90D23R	
	09.92 - 11.97	4	2.0	4D68 (Diesel)		95D31R	105D31R
				4G63 (DOHC)		40B19R	
	09.94 - 11.97	4	2.0	4G63 (DOHC)		90D23R	
	09.97 - 08.02	4	1.8	4G93 (DOHC)		55D23L	90D23L
						55D23R	90D23R
				2.0	4G63 (DOHC)		55D23L
			2.4	4G64 (DOHC)		55D23L	90D23L
<b>Starion</b>							
	06.86 - 03.90	4	2.6	G54B Kat.		55D23R	90D23R
<b>Triton</b>							
MH	09.90 - 07.92	4	2.5	4D56 (Diesel)		55D26R	110D26R
			2.6	4G54		55D26R	110D26R
MJ	10.90 - 09.96	6	3.0	6G72		55D26R	110D26R
	08.92 - 09.96	4	2.5	4D56 (Diesel)		55D26R	110D26R
			2.6	4G54		55D26R	110D26R
MK	10.96 - 12.03	4	2.4	4G64		22FR-550	22FR-680
	10.96 - 04.07	6	3.0	6G72		55D26R	110D26R
	10.96→	4	2.8	4M40 (Diesel)		95D31R	105D31R
ML	08.05→	4	3.2	4M41 <DOHC DI-D> (Diesel)		95D31L	105D31L
MN	08.05→	4	2.5	4D56 <DOHC DI-D> (Diesel)		95D31R	105D31R
ML	02.07 - 08.11	6	3.5	6G74 (SOHC)		95D31L	105D31L
MK/MN	10.07→	4	2.4	4G64		55B24RS	





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<b>MN</b>	08.08 - 08.19	4	2.4	4G64 Kat.		<b>110D26R</b>	
	01.11→	4	2.5	4D56TVG (Diesel)		<b>95D31L</b>	<b>105D31L</b>
<b>Triton 2.4TD MIVEC VG 4x4</b>							
<b>MQ</b>	10.14→	4	2.4	4N15 (Diesel)		<b>95D31L</b>	<b>105D31L</b>
<b>380</b>							
<b>DL I</b>	10.05 - 03.06	6	3.8	6G75		<b>55D23R</b>	<b>90D23R</b>
<b>DL II</b>	04.06 - 06.07	6	3.8	6G75		<b>55D23R</b>	<b>90D23R</b>
<b>DL III</b>	07.07 - 03.08	6	3.8	6G75		<b>55D23R</b>	<b>90D23R</b>
<b>3000 GT</b>							
	10.92 - 09.97	6	3.0	6G72		<b>110D26R</b>	

**MORGAN**

<b>Plus 8</b>							
	01.90 - 09.03	8	3.9	V8 KAT Rover		<b>40B19R</b>	

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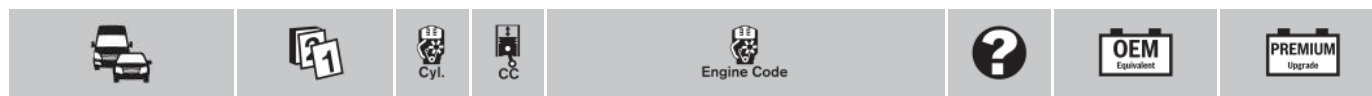
<b>Altima</b>							
<b>L33</b>	12.12→	4	2.5	QR25		<b>55D23L</b>	<b>90D23L</b>
<b>Bluebird</b>							
	09.91 - 11.95	4	2.0	SR20DET		<b>22FR-550</b>	<b>22FR-680</b>
<b>U13</b>	07.93 - 09.97	4	2.4	KA24DE		<b>22FR-550</b>	<b>22FR-680</b>
<b>Cefiro</b>							
	09.88 - 08.02	6	2.0	RB20DE; RB20DET; RB20E; VQ20DE		<b>55D23L</b>	<b>90D23L</b>
	06.92 - 08.02	6	2.5	RB25DE; VQ25DD; VQ25DE		<b>55D23L</b>	<b>90D23L</b>
	08.94 - 12.98	6	3.0	VQ30DE		<b>55D23L</b>	<b>90D23L</b>
<b>A32</b>	01.98 - 06.01	6	3.0	VQ30DE		<b>55D23L</b>	<b>90D23L</b>
<b>Civilian</b>							
	05.88 - 01.99	6	4.2	TD42 (Diesel)		<b>105D31R</b>	
	02.99 - 12.04	6	4.2	TD42 (Diesel)		<b>105D31L</b>	
<b>Dualis</b>							
<b>J10</b>	12.06 - 12.13	4	2.0	MR20DE		<b>56219</b>	<b>560.060</b>
	07.11 - 12.13	4	1.6	R9M (Diesel)		<b>S95L</b>	
<b>Dualis 4WD</b>							
	05.07 - 03.14	4	2.0	MR20DE		<b>56219</b>	
<b>Exa 1.8i</b>							
<b>KEN13</b>	10.87 - 10.90	4	1.8	CA18DE		<b>40B19LS</b>	
<b>Fairlady</b>							
	07.89 - 08.00	6	3.0	VG30DE; VG30DETT		<b>90D23L</b>	

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GT-R						
	01.91 - 12.93	6	2.6	RB26DETT		40B19L
Juke						
F15	11.10→	4	1.6	MR16DDT		Q85L LN2
Largo						
	05.93 - 08.95	4	2.0	CD20TI (Diesel)		105D31L
Laurel						
	12.88 - 01.93	4	1.8	CA18I		40B19R
Leaf						
ZE0	10.10 - 02.13	0	0.0	EM61		55B24L
Maxima						
J30	02.90 - 06.94	6	3.0	VG30E		55D23L 90D23L
A32	10.94 - 01.00	6	3.0	VQ30DE		55D23L 90D23L
CA33	01.00 - 01.06	6	3.0	VQ30DE		574.068
A34	09.03 - 05.08	6	3.5	VQ35DE		55D23L 90D23L
J32	06.08 - 02.14	6	3.5	VQ35DE		90D23L
Micra						
K11E	05.95 - 12.97	4	1.3	CG13DE		55B24LS
K12E	06.05 - 10.10	4	1.4	CR14DE		54316
K13K	07.10 - 10.15	3	1.2	HR12DE		55066
Murano						
Z50	11.04 - 12.08	6	3.5	VQ35DE		55D23L 90D23L
Z51	01.09 - 06.15	6	3.5	VQ35DE		55D23L 90D23L
Navara						
D21	09.85 - 09.95	4	2.0	Z20		95D31R 105D31R
	09.85 - 01.97	4	2.4	KA24E; Z24		55D23R 90D23R
	08.87 - 02.92	4	2.5	TD25 (Diesel)		95D31R 105D31R
	08.87 - 03.97	4	2.7	TD27 (Diesel)		95D31R 105D31R
	08.87 - 02.98	4	2.5	TD25 (Diesel)		105D31R
	06.92 - 03.97	6	3.0	VG30E		55D23L 90D23L
D22	02.97 - 12.05	4	2.4	KA24E		55D23R 90D23R
	02.97 - 11.11	4	2.7	TD27 (Diesel)		95D31R 105D31R
	06.00 - 11.01	4	3.2	QD32 (Diesel)		95D31R 105D31R
	06.00 - 11.05	6	3.0	VG30E		55D23L 90D23L
	11.01 - 01.08	4	2.5	YD25 (Diesel)		95D31R 105D31R
	11.01 - 04.15	4	3.0	ZD30 (Diesel)		95D31R 105D31R
D40	01.05 - 08.13	6	4.0	VQ40DE		56219
	05.05 - 04.15	4	2.5	YD25DDTI (Diesel)		574.068
	06.06 - 04.15	6	4.0	VQ40DE		55D23R 90D23R
D40	05.10 - 04.15	6	3.0	V9X (Diesel)		60038
Nomad						
	12.86 - 12.92	4	2.4	Z24		40B19LS






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NX							
<b>B13</b>	08.90 - 09.93	4	2.0	SR20DE		<b>40B19LS</b>	
Pathfinder							
<b>D21</b>	08.86 - 07.92	4	2.4	Z24S		<b>55D26R</b>	<b>110D26R</b>
	09.90 - 12.92	4	2.4	Z24		<b>55D23R</b>	<b>90D23R</b>
<b>D21</b>	07.92 - 07.95	6	3.0	VG30E		<b>22FR-550</b>	<b>22FR-680</b>
<b>R50</b>	09.95 - 06.05	6	3.3	VG33E		<b>22FR-550</b>	<b>22FR-680</b>
<b>R51</b>	01.05 - 11.14	4	2.5	YD25DDTI (Diesel)		<b>574.068</b>	
	05.10 - 11.14	6	3.0	V9X (Diesel)		<b>55D23R</b>	
	09.12 - 08.19	6	3.5	VQ35DE		<b>22FR-550</b>	<b>22FR-680</b>
Patrol							
<b>Y60</b>	08.87 - 09.97	6	4.2	TD42 (Diesel)		<b>95D31L</b>	<b>105D31L</b>
<b>GU</b>	02.88 - 12.95	6	4.2	TB42S		<b>55D26R</b>	<b>110D26R</b>
	04.90 - 11.97	6	3.0	RB30S		<b>95D31L</b>	<b>105D31L</b>
<b>Y60</b>	04.90 - 11.97	6	3.0	RB30S		<b>55D26L</b>	<b>110D26L</b>
	01.92 - 12.95	6	4.2	TB42E		<b>55D26L</b>	<b>110D26L</b>
	02.92 - 11.97	6	4.2	TB42E		<b>95D31L</b>	<b>105D31L</b>
<b>GU</b>	09.93 - 06.00	6	4.2	TD42T (Diesel)		<b>95D31L</b>	<b>105D31L</b>
<b>Y60</b>	10.94 - 09.97	6	2.8	RD28T (Diesel)		<b>55D26L</b>	<b>110D26L</b>
<b>Y61</b>	08.97 - 10.01	6	4.5	TB45E		<b>95D31L</b>	<b>105D31L</b>
	10.97 - 02.00	6	2.8	RD28Ti (Diesel)		<b>55D26R</b>	<b>110D26R</b>
	10.97 - 09.07	6	4.2	TD42 (Diesel); TD42T (Diesel); TD42Ti (Diesel)		<b>95D31L</b>	<b>105D31L</b>
	02.00 - 03.10	4	3.0	ZD30DDTI (Diesel)		<b>55D26R</b>	<b>110D26R</b>
	03.00 →	4	3.0	ZD30DDTI (Diesel)		<b>95D31L</b>	<b>105D31L</b>
	11.02 - 06.07	6	4.8	TB48DE		<b>95D31L</b>	<b>105D31L</b>
<b>Y61</b>	08.04 →	6	4.8	TB48DE		<b>55D26L</b>	<b>110D26L</b>
Patrol 5.6 4x4							
<b>Y62</b>	03.10 →	8	5.6	VK56VD		<b>58014</b>	
Pintara							
<b>R31</b>	06.86 - 12.90	4	2.0	CA20E		<b>22FR-550</b>	<b>22FR-680</b>
<b>U12</b>	08.89 - 10.92	4	2.0	CA20E		<b>22F-550</b>	<b>22F-680</b>
						<b>22F-550DF</b>	
			2.4	KA24E		<b>22F-550DF</b>	
Pulsar							
<b>N13</b>	08.87 - 10.91	4	1.6	16LF		<b>40B19LS</b>	
			1.8	18LE		<b>40B19LS</b>	
	08.90 - 12.94	4	2.0	SR20DET		<b>40B19LS</b>	
<b>N14</b>	08.91 - 05.95	4	1.6	GA16DE		<b>40B19LS</b>	
			2.0	SR20DE		<b>40B19LS</b>	
<b>N15</b>	08.95 - 06.00	4	1.6	GA16DE	SCR	<b>40B19RS</b>	
					SED	<b>40B19LS</b>	
					2.0	SR20DE	<b>40B19RS</b>
<b>N16</b>	07.00 - 02.03	4	1.6	QG16DE		<b>40B19L</b>	

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<b>N16</b>	07.00 - 01.06	4	1.8	QG18DE <DOHC-16V-EFI>			<b>40B19L</b>	
<b>Serena</b>								
	07.92 - 12.95	4	2.0	SR20DE			<b>55D26R</b>	<b>110D26R</b>
<b>Silvia</b>								
	05.88 - 01.91	4	1.8	CA18DE; CA18DET			<b>40B19LS</b>	
	01.91 - 08.02	4	2.0	SR20DE; SR20DET			<b>40B19LS</b>	
<b>S15</b>	11.01 - 08.03	4	2.0	SR20DE			<b>40B19LS</b>	
<b>Skyline</b>								
<b>R31</b>	07.86 - 12.90	6	3.0	RB30E			<b>22FR-550</b>	<b>22FR-680</b>
	08.91 - 05.98	6	2.5	RB25DE			<b>40B19L</b>	
	08.93 - 05.98	6	2.5	RB25DET			<b>40B19L</b>	
	08.93 - 01.99	6	2.0	RB20E			<b>40B19L</b>	
	11.93 - 05.98	6	2.5	RB25DE			<b>40B19R</b>	
	06.01 - 10.06	6	2.5	VQ25DD			<b>55D23L</b>	<b>90D23L</b>
	01.02 - 09.07	6	3.5	VQ35DE			<b>55D23L</b>	<b>90D23L</b>
<b>Skyline GT-R</b>								
	01.95 - 08.02	6	2.6	RB26DETT			<b>40B19L</b>	
<b>Sunny 1.5i</b>								
	01.11→	4	1.5	HR15			<b>55D23L</b>	<b>90D23L</b>
<b>Sylphy</b>								
<b>B17</b>	12.12→	4	1.8	MRA8DE			<b>Q85L</b>	
<b>Terrano</b>								
<b>WD21</b>	08.86 - 11.95	4	2.4	Z24			<b>55D23R</b>	<b>90D23R</b>
	08.86 - 02.99	4	2.7	TD27 (Diesel); TD27T (Diesel); TD27Ti (Diesel)			<b>55D26R</b>	<b>110D26R</b>
<b>WD21</b>	08.87 - 12.05	4	2.7	TD27 (Diesel); TD27ETi (Diesel)			<b>105D31R</b>	
	10.89 - 08.95	6	3.0	VG30E			<b>55D23R</b>	<b>90D23R</b>
<b>WD21</b>	09.95 - 12.05	6	3.3	VG33E			<b>95D31R</b>	<b>105D31R</b>
	08.96 - 02.99	4	3.2	QD32ETi (Diesel)			<b>55D26R</b>	<b>110D26R</b>
<b>R20</b>	11.96 - 12.99	4	2.4	KA24E			<b>55D23R</b>	<b>90D23R</b>
	11.96 - 12.06	4	2.7	TD27Ti (Diesel)			<b>55D26R</b>	<b>110D26R</b>
	02.99 - 08.02	4	3.0	ZD30DDTi (Diesel)			<b>55D26R</b>	<b>110D26R</b>
<b>Tiida</b>								
<b>C12</b>	01.05 - 08.12	4	1.8	MR18DE			<b>55B24LS</b>	
	01.05 - 10.12	4	1.8	MR18DE			<b>55B24L</b>	
<b>C11</b>	02.07 - 03.10	4	1.8	MR18DE			<b>55B24L</b>	
<b>C12</b>	06.13→	4	1.6	MR16DDT			<b>55B24L</b>	
<b>UD 1200</b>								
	02.96 - 11.01	4	4.6	FD46TA (Diesel)			<b>105D31R</b>	
<b>Urvan</b>								
	11.80→	4	1.6	J16			<b>95D31R</b>	<b>105D31R</b>





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E24	11.86 - 06.97	4	2.4	Z24S		95D31R	105D31R
			2.7	TD27 (Diesel)		95D31R	105D31R

## Vanette

GC22	05.86 - 04.93	4	2.0	Z20S		40B19RS	
	06.86 - 10.91	4	2.4	Z24S		40B19RS	
	09.86 - 04.93	4	2.0	Z20		40B19RS	90D23R

## X-Trail

	09.01 - 11.07	4	2.5	QR25DE		90D23R	
T30	09.02 - 03.07	4	2.5	QR25DE		55D23L	90D23L
T31	04.07 - 04.14	4	2.0	M9R (Diesel)		55D23L	90D23L
	08.07 - 04.14	4	2.0	MR20DE		55D23L	90D23L
2.5			QR25DE		55D23L	90D23L	

## X-Trail 1.6 dCi

T32	04.14→	4	1.6	R9M (Diesel)		LN3	
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## X-Trail 1.6 dCi 4X4

T32	04.14→	4	1.6	R9M (Diesel)		LN3	
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## 180SX

	03.89 - 01.91	4	1.8	CA18DET		22FR-550	22FR-680
	01.91 - 01.99	4	2.0	SR20DE; SR20DET		22FR-550	22FR-680

## 200SX

S13	09.88 - 12.93	4	1.8	CA18DT <CA18ET>		22FR-550	22FR-680
S14	04.94 - 12.99	4	2.0	SR20DET		22FR-550	22FR-680

## 300ZX

Z32	01.90 - 11.95	6	3.0	VG30DE		55D26L	110D26L
	01.90 - 08.96	6	3.0	VG30DE <VG30DETT>; VG30DETT		95D31R	105D31R

## 350Z

Z33	09.02 - 01.07	6	3.5	VQ35DE		55D23L	90D23L
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## 350Z Cabriolet

Z33	09.03 - 01.07	6	3.5	VQ35DE		55D23L	90D23L
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## OPEL

## Astra

J	09.12→	4	2.0	A 20 DTH <ecoFlex> (Diesel)		575.068	
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## Astra Sports Tourer

J	09.12→	4	1.4	A 14 NET <Ecotec>		560.060	
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## Astra 1.6 Turbo GTC

J	04.13→	4	1.6	A 16 XHT		560.060	
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## Insignia

A	09.12→	4	2.0	A 20 DTH <ecoFlex> (Diesel); A 20 NFT <Ecotec>		575.068	
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\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



**Insignia Sports Tourer**

A	09.12→	4	2.0	A 20 DTH <ecoFlex> (Diesel)	<b>58014</b>
				A 20 NFT <Ecotec>	<b>575.068</b>

**Insignia 2.8 Turbo 4x4**

A	09.09→	6	2.8	A 28 NER <Ecotec>	<b>58014</b>
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**Zafira 1.6 Turbo**

C	04.13→	4	1.6	A 16 XHT	 <b>LN3</b>
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**Zafira 2.0 CDTI**

C	01.12→	4	2.0	A 20 DTH <ecoFlex> (Diesel)	<b>575.068</b>
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**PEUGEOT**


**Expert**

G9	02.07→	4	2.0	RH... <DW10UTED4> (Diesel); RHR <DW10BTED4> (Diesel)	<b>574.068</b>
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**Expert 2.0 HDi**

G9	04.10→	4	2.0	RHH <DW10CTED4 FAP> (Diesel)	<b>575.068</b>
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**Partner**

B9	05.08 - 02.12	4	1.6	NFR <TU5JP4B>; 9HT <DV6B/DV6BUTED4> (Diesel); 9HX <DV6ATED4/DV6AUTED4> (Diesel)	 <b>LN3</b>
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**RCZ R**

T75	09.13→	4	1.6	5FG <EP6CDTR>	<b>560.060</b>
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**RCZ 1.6 THP**

T75	01.10→	4	1.6	5FU <EP6CDTX>	<b>560.060</b>
				5FV <EP6CDT>	<b>575.068</b>

**RCZ 2.0 HDi**

T75	01.10→	4	2.0	RHH <DW10CTED4 FAP> (Diesel)	<b>575.068</b>
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**205**

	10.87 - 09.98	4	1.9	D6B <XU9JA>	<b>54316</b>
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**205 GTi**

	10.87 - 04.94	4	1.9	DFY,DKZ <XU9JAZ Kat.>; DFZ <XU9J1 Kat.>	<b>54316</b>
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**205 Si**

	04.91 - 04.94	4	1.6	BDY <XU5M Kat.>	<b>54316</b>
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**206**

T1	06.98 - 08.07	4	1.6	NFU <TU5JP4>; NFZ <TU5JP>	<b>55066</b>
	03.00 - 02.09	4	1.4	KF... <TU3JP/L4>	<b>55066</b>
	06.01 - 02.07	4	1.6	NGA <TU5JP4>	<b>55457</b>
	02.04 - 12.05	4	1.4	KFW <TU3JP>	<b>55457</b>

**206CC**

T1	09.00 - 03.07	4	1.6	NFU <TU5JP4>	<b>55066</b>
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## ◀ PEUGEOT

207							
A7	05.06 - 06.09	4	1.4	KF... <TU3A>; KF... <ET3J4>	START STOP	LN3	
					SSN	55066	
	05.06 - 04.10	4	1.6	9H... <DV6TED4> (Diesel)	START STOP	LN3	
	07.06 - 04.10	4	1.6	5FW <EP6>; 5FX <EP6DT>	START STOP	LN3	
					SSN	55066	
	07.09 - 09.12	4	1.6	5FS <EP6C>	START STOP	LN3	
207 GTi							
A7	04.07 - 02.11	4	1.6	5FY <EP6DTS>	START STOP	LN3	
					SSN	55066	
207CC							
A7	03.07 - 09.12	4	1.6	5FS <EP6C>; 5FW <EP6>; 5FX <EP6DT>	START STOP	LN3	
208 1.2 THP							
	01.14→	3	1.2	HNZ <EB2DT>		560.060	
208 1.6 THP							
	01.12 - 01.15	4	1.6	5FV <EP6CDT>		560.060	
208 1.6 THP GTi							
	09.12 - 04.15	4	1.6	5FU <EP6CDTX>		560.060	
306							
N3	01.93 - 04.97	4	1.8	LFZ <XU7JP KAT.>		55065	
	05.93 - 04.97	4	1.9	D8A <XUD9TE> (Diesel)		56219	
	08.93 - 04.97	4	2.0	RFX <XU10J2 Kat.>; RFY <XU10J4>; R6D <XU10J2>		54316	
N5	05.97 - 10.03	4	1.8	LFY <XU7JP4>; LFZ <XU7JP KAT.>; L6A <XU7JP>		54316	
				1.9	DHY <XUD9TE> (Diesel)		56219
		2.0	RFS <XU10J4RS>; RFV <XU10J4R> R6E <XU10J4R>		54316		
	12.97 - 12.07	4	1.8	<XU7JP4>		55066	
N5	06.99 - 10.03	4	2.0	RHY <DW10TD> (Diesel)		56219	
306CC							
N3	01.93 - 04.97	4	1.8	LFZ <XU7JP KAT.>		54316	
N5	05.97 - 10.03	4	1.8	LFY <XU7JP4>		54316	
				2.0	RFV <XU10J4R>		54316
307							
T5	08.00 - 05.05	4	1.6	NFU <TU5JP4>		55066	
				2.0	RFK <EW10J4S>; RFN <EW10J4> RHR <DW10BTED4/FAP> (Diesel); RHY <DW10TD> (Diesel)		574.068
T6	06.05 - 05.08	4	2.0	RHR <DW10BTED4/FAP> (Diesel)		574.068	

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.





308							
T7	09.07 - 03.10	4	1.6	9H... <DV6TED4> (Diesel)		LN3	
					SSN	574.068	
	09.07 - 06.13	4	2.0	RH... <DW10BTED4> (Diesel)		LN3	
					SSN	574.068	
	09.07 - 12.13	4	1.6	5FW <EP6>; 5FX <EP6DT>		LN3	
	05.08 - 04.10	4	1.6	5FT <EP6DT>		56219	
	05.08 - 01.14	4	2.0	RH... <DW10BTED4> (Diesel)		574.068	
	03.09 - 06.11	4	2.0	RHR <DW10BTED4> (Diesel)		LN3	
308 1.2 THP SW							
T9	01.14→	3	1.2	HNY <EB2DTS>		560.060	
308 1.6 THP							
T9	07.13→	4	1.6	5FV <EP6CDT>		575.068	
308 1.6 THP SW							
T7	04.10 - 01.14	4	1.6	5FV <EP6CDT>		560.060	
308 2.0 HDi							
T7	03.10 - 06.13	4	2.0	RHH <DW10CTED4 FAP> (Diesel)		575.068	
308 2.0 HDi SW							
T7	09.09 - 01.14	4	2.0	RHH <DW10CTED4 FAP> (Diesel)		575.068	
308CC							
T7	03.09 - 06.11	4	1.6	5FT <EP6DT>		LN3	
405							
15	04.88 - 12.92	4	1.9	DFV <XU9J2 Kat.>; DFW <XU9J4Z Kat.>; DFZ <XU9J1 Kat.>; DKZ,DFY <XU9JAZ Kat.>		56219	
4	06.92 - 04.97	4	1.9	D8A <XUD9TE> (Diesel)		574.068	
			2.0	RFT <XU10J4>; RFX <XU10J2 Kat.>; RFY <XU10J4>		56219	
406							
D8	10.95 - 03.99	4	2.0	RFV <XU10J4R>		55066	
	12.95 - 03.99	4	2.1	P8C <XUD11BTE> (Diesel)		574.068	
	08.96 - 03.99	6	3.0	XFZ <ES9J4>		574.068	
D9	04.99 - 06.04	4	1.8	LFY <XU7JP4>		55066	
			2.0	RHZ <DW10ATED> (Diesel)		56219	
	04.99 - 02.05	4	2.0	RFN <EW10J4>; RFR <EW10J4>; RFV <XU10J4R>		55066	
			6	3.0	XFV <ES9J4S>; XFZ <ES9J4>		574.068
	03.00 - 06.04	4	2.2	4HX <DW12TED4> (Diesel)		574.068	
407							
D2	05.04 - 10.05	4	2.2	3FZ <EW12J4>		56219	
	05.04 - 11.05	4	2.0	RFN <EW10J4>		56219	
	05.04 - 12.06	6	3.0	XFV <ES9A>		56219	
	05.04 - 02.11	4	2.0	RH... <DW10BTED4> (Diesel)		574.068	
	10.05 - 06.09	6	2.7	UHZ <DT17TED4> (Diesel)		574.068	





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<b>505</b>						
	03.86 - 12.93	4	2.2	851X <ZDJL Kat.>		<b>56219</b>
<b>508</b>						
<b>W2</b>	10.10→	4	2.0	RHH <DW10CTED4 FAP> (Diesel)		<b>575.068</b>
			2.2	4HL <DW12C> (Diesel)		<b>575.068</b>
						<b>LN3</b>
<b>508 1.6 THP SW</b>						
<b>W2</b>	11.10→	4	1.6	5FV <EP6CDT>		<b>560.060</b>
<b>605</b>						
<b>Y30</b>	07.93 - 05.99	6	3.0	UFZ <ZPJ KAT.>		<b>56219</b>
<b>607</b>						
<b>Z8</b>	03.00 - 11.04	6	3.0	XFX <ES9J4S>		<b>56638</b> <b>574.068</b>
<b>Z9</b>	12.04 - 01.09	6	3.0	XFV <ES9A>		<b>574.068</b>
<b>2008 1.2 VTi</b>						
<b>A94</b>	03.13→	3	1.2	HMZ <EB2>		<b>560.060</b>
<b>2008 1.6 VTi</b>						
<b>A94</b>	03.13→	4	1.6	5FS <EP6C>		<b>560.060</b>
<b>3008</b>						
<b>T8</b>	05.09 - 12.16	4	1.6	5FV <EP6CDT>; 9HZ <DV6TED4/FAP> (Diesel)		<b>LN3</b>
			2.0	RHH <DW10CTED4 FAP> (Diesel)		<b>LN3</b>
<b>4007</b>						
<b>I3</b>	09.07 - 11.12	4	2.2	4HN <DW12METED4 /FAP> (Diesel)		<b>95D31L</b>
<b>5008 2.0 HDi</b>						
<b>T8</b>	09.09→	4	2.0	RHH <DW10CTED4 FAP> (Diesel)		<b>575.068</b>

**PORSCHE**

<b>Boxster</b>						
<b>986</b>	10.96 - 08.99	6	2.5	M96.20		<b>58014</b>
	09.99 - 08.04	6	2.7	M96.22; M96.23		<b>58014</b>
<b>987</b>	09.04 - 12.08	6	2.7	M96.25; M97.20		<b>58014</b>
	02.09 - 09.12	6	2.9	MA1.20		<b>58014</b>
<b>Boxster GTS</b>						
<b>981</b>	02.14 - 08.16	6	3.4	MA1.23		<b>LN4</b>
<b>Boxster S</b>						
<b>986</b>	09.99 - 08.04	6	3.2	M96.21; M96.24		<b>58014</b>
<b>987</b>	09.04 - 08.06	6	3.2	M96.26		<b>58014</b>
	09.06 - 09.12	6	3.4	MA1.21; M97.21		<b>58014</b>
<b>Boxster Spyder</b>						
<b>987</b>	09.10 - 09.12	6	3.4	MA1.21C		<b>58014</b>

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**Carrera GT**

980	10.04 - 04.06	10	5.7	M80.01		58014
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**Carrera GT 5.7 Convertible**

980	09.03 - 08.05	10	5.7	M80.01		58014
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**Cayenne**

92A	09.10 - 08.11	6	3.0	M05.9E (Diesel)		LN5
	09.10 - 08.14	6	3.6	M55.02		LN5
	09.14 - 08.17	6	3.0	MCV.VA <DD7> (Diesel)		LN5
	09.14->	6	3.6	MCE.YA <D34>		575.068

**Cayenne S**

9PA	09.02 - 01.07	8	4.5	M48.00		60038
	02.07 - 09.10	8	4.8	M48.01		60038

**Cayenne Turbo**

9PA	02.07 - 08.10	8	4.8	M48.51		60038
92A	09.14->	8	4.8	MCF.TB <DT1>		LN5

**Cayenne Turbo S**

92A	02.13 - 08.14	8	4.8	M48.52 <D58>		LN5
	09.14->	8	4.8	MCY.XA <DT5>		LN4

**Cayenne 3.6 GTS**

92A	09.14->	6	3.6	MCX.ZA <DU3>		LN4
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**Cayenne 3.6 S**

92A	09.14->	6	3.6	MCU.RA <DU2>		LN5
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**Cayman**

987C	09.06 - 01.09	6	2.7	M97.20		58014
	02.09 - 12.12	6	2.9	MA1.20C		58014

**Cayman GTS**

981C	02.14 - 08.16	6	3.4	MA1.23		LN4
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**Cayman R**

987C	02.10 - 12.12	6	3.4	MA1.21C		58014
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**Cayman S**

987C	02.09 - 12.12	6	3.4	MA1.21C		58014
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**Cayman 2.7**

981C	03.13 - 08.16	6	2.7	MA1.22		LN4
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**Cayman 3.4 S**

981C	03.13 - 08.16	6	3.4	MA1.23		LN4
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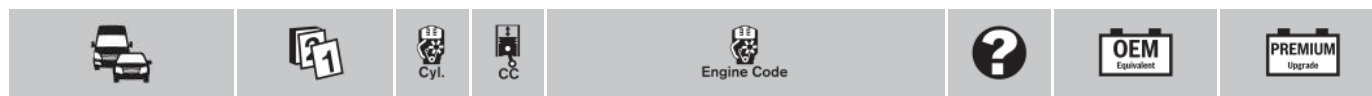
**Macan 3.0 Diesel S**

95B	03.14->	6	3.0	MCT.BA <DD7> (Diesel)		60038
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**Macan 3.0 S**

95B	03.14->	6	3.0	MCT.MA <DU0>		60038
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Macan 3.6 Turbo						
95B	03.14→	6	3.6	MCT.LA <DU1>		60038
Panamera						
970	05.10 - 09.13	6	3.6	M46.20; M46.40		LN5
	03.11 - 09.13	8	4.8	M48.70		LN5
Panamera S						
970	03.09 - 09.13	8	4.8	M48.20		LN5
Panamera Turbo						
970	03.09 - 09.13	8	4.8	M48.70		LN5
Panamera 3.0						
970	07.13 - 10.16	6	3.0	MCW.JA <DJ5> (Diesel)		60038
Panamera 3.0 4S						
970	07.13 - 08.16	6	3.0	MCW.DA		LN5
Panamera 3.6						
970	07.13 - 08.16	6	3.6	MC...		LN5
Panamera 3.6 4						
970	07.13 - 08.16	6	3.6	MC...		LN5
Panamera 4S						
970	03.09 - 09.13	8	4.8	M48.40		LN5
Panamera 4.8 GTS						
970	07.13 - 08.16	8	4.8	MCX...		LN5
Panamera 4.8 Turbo						
970	07.13 - 08.16	8	4.8	MCW.BA		LN5
911						
997	08.06 - 05.08	6	3.8	M97.01		575.068
	08.06 - 08.09	6	3.6	M96.05; M97.70		575.068
911 Carrera						
964	09.89 - 08.93	6	3.6	M64.0...		56638 574.068
993	09.93 - 08.97	6	3.6	M64.0...; M64.2...		56638 574.068
	09.94 - 08.97	6	3.8	M64.20		56638 574.068
996	09.97 - 09.01	6	3.4	M96.01; M96.04		56638 574.068
	09.01 - 08.05	6	3.6	M96.03		56638 574.068
997	08.04 - 05.08	6	3.6	M96.05		574.068
	04.05 - 05.08	6	3.8	M97.01		574.068
997 GT3	03.06 - 12.08	6	3.6	M97.76		574.068
997	06.08 - 09.12	6	3.6	MA1.02		58014
911 Carrera Cab						
997	06.08 - 09.12	6	3.6	MA1.02		58014

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<b>911 Carrera Cab 4</b>						
997	06.08 - 09.12	6	3.6	MA1.02		58014
<b>911 Carrera S</b>						
997	08.04 - 05.08	6	3.8	M97.01		574.068
<b>911 Carrera S Cab</b>						
997	06.08 - 09.12	6	3.8	MA1.01		575.068
<b>911 Carrera 4</b>						
964	09.89 - 08.93	6	3.6	M64.01		56638 574.068
993	09.94 - 08.97	6	3.6	M64.05; M64.21		56638 574.068
996	09.98 - 08.99	6	3.4	M96.02		56638 574.068
	09.01 - 08.05	6	3.6	M96.03		56638 574.068
997	10.05 - 05.08	6	3.8	M97.01		574.068
	06.08 - 09.12	6	3.6	MA1.02		58014
<b>911 Carrera 4S</b>						
997	06.08 - 09.12	6	3.8	MA1.01		575.068
<b>911 Carrera 4S Cab</b>						
997	06.08 - 09.12	6	3.8	MA1.01		575.068
<b>911 GTS</b>						
997	10.10 - 09.12	6	3.8	MA1.01		575.068
<b>911 GTS Cab</b>						
997	10.10 - 09.12	6	3.8	MA1.01		575.068
<b>911 GT2</b>						
996T/GT2/GT3	06.01 - 09.04	6	3.6	M96.70S		574.068
997	09.07 - 09.09	6	3.6	M97.70S		574.068
<b>911 GT2 RS</b>						
997	09.10 - 08.11	6	3.6	M97.70		60038
<b>911 GT3</b>						
996T/GT2/GT3	03.99 - 08.01	6	3.6	M96.76		56638 574.068
997 GT3	08.09 - 08.11	6	3.8	M97.77		575.068
<b>911 GT3 RS</b>						
997 GT3	08.10 - 08.11	6	3.8	M97.77		575.068
<b>911 Targa 4</b>						
997	06.08 - 09.12	6	3.6	MA1.02		58014
<b>911 Targa 4S</b>						
997	06.08 - 09.12	6	3.8	MA1.01		575.068
<b>911 Turbo</b>						
964	12.90 - 08.92	6	3.3	M30.69		56638 574.068
	01.93 - 08.93	6	3.6	M64.50		56638 574.068
993	03.95 - 09.97	6	3.6	M64.60		56638 574.068
996T/GT2/GT3	06.00 - 09.05	6	3.6	M96.70		56638 574.068
	02.03 - 09.05	6	3.6	M96.70E		574.068





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<b>996T/GT2/GT3</b>	10.03 - 09.05	6	3.6	M96.70	<b>574.068</b>	
<b>997</b>	03.06 - 08.09	6	3.6	M97.70	<b>575.068</b>	
	10.09 - 08.13	6	3.8	MA1.70	<b>575.068</b>	
<b>911 Turbo Cab</b>						
<b>997</b>	10.09 - 08.13	6	3.8	MA1.70	<b>575.068</b>	
<b>911 Turbo S</b>						
<b>997</b>	05.10 - 08.13	6	3.8	MA1.70	<b>575.068</b>	
<b>911 Turbo S Cab</b>						
<b>997</b>	05.10 - 08.13	6	3.8	MA1.70	<b>575.068</b>	
<b>911 3.8 Turbo Cabriolet</b>						
<b>991</b>	09.13 - 08.16	6	3.8	MA1.71	<b>60038</b>	
<b>928S</b>						
	08.86 - 07.91	8	5.0	M28.4...	<b>56638</b>	<b>574.068</b>
	08.91 - 11.95	8	5.4	M28...	<b>56638</b>	<b>574.068</b>
<b>944</b>						
	09.87 - 07.91	4	2.5	M44.52	<b>56318</b>	<b>575.068</b>
	12.88 - 07.91	4	3.0	M44.41	<b>56318</b>	<b>575.068</b>
<b>968</b>						
	08.91 - 11.95	4	3.0	M44.4...	<b>56318</b>	<b>575.068</b>

**PROTON**

<b>GEN2</b>						
	02.04→	4	1.6	S4PH <Campro>	<b>55D23L</b>	<b>90D23L</b>
<b>Persona</b>						
<b>C90 CC0</b>	01.93 - 12.97	4	1.5	4G15 Euro I	<b>22FR-550</b>	<b>22FR-680</b>
<b>C90 CC1</b>	12.95 - 06.99	4	1.6	4G92 Euro II <SOHC>	<b>22FR-550</b>	<b>22FR-680</b>
	12.95→	4	1.3	4G13 Euro II	<b>22FR-550</b>	<b>22FR-680</b>
			1.5	4G15 <Euro II>; 4G15 Euro II	<b>22FR-550</b>	<b>22FR-680</b>
<b>CM</b>	08.07 - 11.15	4	1.6	S4PH <Campro>	<b>55D23R</b>	<b>90D23R</b>
<b>Preve</b>						
<b>P3-21</b>	04.12→	4	1.6	S4PH <Campro>	<b>90D23L</b>	
<b>Preve 1.6</b>						
<b>P3-21</b>	04.12→	4	1.6	S4PH <Campro>	<b>90D23L</b>	
<b>Satria</b>						
<b>C90</b>	03.95→	4	1.6	4G92	<b>22FR-550</b>	<b>22FR-680</b>
	05.96→	4	1.5	4G15	<b>22FR-550</b>	<b>22FR-680</b>
	11.98→	4	1.8	4G93	<b>22FR-550</b>	<b>22FR-680</b>
<b>Satria Neo</b>						
<b>C90</b>	11.06→	4	1.6	<Campro DOHC 16v>	<b>55D23R</b>	<b>90D23R</b>

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.

**Waja**

<b>CF1</b>	09.00→	4	1.6	4G18 S4	<b>55D23L</b>	<b>90D23L</b>
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**Wira**

	05.95 - 11.96	4	1.5	4G15	<b>55D23R</b>	<b>90D23R</b>
<b>C90</b>	05.95 - 12.96	4	1.6	4G92	<b>55458</b>	

**RENAULT****Clio**

<b>BB/CB/SB</b>	06.98 - 10.07	4	1.6	K4M 708; K4M 742; K4M 744; K4M 748	<b>55066</b>	
	03.99 - 10.07	4	2.0	F4R 730; F4R 732; F4R 736; F4R 738	<b>55066</b>	
	10.99 - 10.07	4	1.4	K4J 710; K4J 711; K4J 712; K4J 713	<b>55066</b>	
<b>LB</b>	06.01 - 10.07	4	1.4	K4J 712	<b>55066</b>	
	11.01 - 10.07	4	1.4	K4J 713	<b>54316</b>	
<b>BR/CR</b>	06.05 - 12.15	4	1.4	K4J 780	<b>55457</b>	<b>560.060</b>
	12.05 - 12.15	4	2.0	F4R 830	<b>55457</b>	<b>560.060</b>

**Clio IV 1.6 R.S. 200**

<b>BH</b>	12.12→	4	1.6	M5M 400		<b>LN3</b>
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**Kangoo**

<b>FC./KC.</b>	01.03 - 12.07	4	1.6	K4M 732	<b>55066</b>	
	04.05 - 12.07	4	1.5	K9K 718 (Diesel)	<b>56638</b>	<b>574.068</b>
<b>FW/KW</b>	03.11→	4	1.5	K9K 816 (Diesel)	<b>560.060</b>	

**Kangoo II 1.5 dCi**

<b>FW/KW</b>	01.08→	4	1.5	K9K 800 (Diesel)	<b>575.068</b>	
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**Koleos**

<b>HY</b>	09.08 - 12.16	4	2.0	M9R 86... (Diesel); M9R 833 (Diesel)	<b>575.068</b>	
			2.5	2TR 700	<b>110D26L</b>	

**Laguna**

<b>B56</b>	01.94 - 02.01	4	2.0	F3R 722; F3R 723	<b>56219</b>	
		6	3.0	Z7X 760	<b>56219</b>	
<b>BG.</b>	03.01 - 09.07	4	2.0	F4R 712	<b>56219</b>	
		6	3.0	L7X 731	<b>56219</b>	
	06.01 - 09.07	4	2.0	F4R 713	<b>55457</b>	<b>560.060</b>
	07.05 - 09.07	4	2.2	G9T 605 (Diesel)	<b>56318</b>	<b>575.068</b>
<b>BT</b>	10.07 - 12.16	4	2.0	M9R 742 (Diesel)	<b>58014</b>	
<b>KT</b>	10.07 - 12.16	4	2.0	M9R 742 (Diesel)	<b>58014</b>	

**Latitude 2.0 dCi**

<b>L7</b>	09.10 - 12.16	4	2.0	M9R 8... (Diesel)	<b>575.068</b>	
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**Latitude 2.5**

<b>L7</b>	09.10 - 12.16	6	2.5	2ZV 604	<b>60038</b>	
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**Master**

	11.06 - 04.10	4	2.5	G9U 650 (M1) <120BO, Euro 4> (Diesel)	<b>574.068</b>	
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## ◀ RENAULT

**Master II**

10.03 - 01.10	4	2.5	G9U 750 (Diesel)	60038
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**Master III 2.3 dCi 150 FWD**

10.12→	4	2.3	M9T 880 (Diesel)	60038
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**Master III 2.3 dCi 150 RWD**

10.12→	4	2.3	M9T 898 (Diesel)	60038
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**Megane**

<b>X64</b>	03.99 - 09.03	4	1.6	K4M 700	56219
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<b>LM</b>	09.02 - 10.09	4	2.0	F4R 770; F4R 771	560.060
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<b>BM./CM./GM./SM.</b>	11.02 - 10.08	4	2.0	F4R 770; F4R 774; M9R 724 (Diesel)	560.060
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<b>KM.</b>	10.03 - 05.09	4	2.0	F4R 770	560.060
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<b>EM</b>	10.03 - 03.10	4	1.6	K4M 760; K4M 761	560.060
			2.0	F4R 770; F4R 771	560.060

<b>BM./CM./GM./SM.</b>	05.05 - 10.08	4	1.6	K4M 812	560.060
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<b>KM.</b>	05.05 - 05.09	4	1.9	F9Q 803 (Diesel)	560.060
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<b>LM</b>	05.05 - 10.09	4	1.9	F9Q 803 (Diesel)	55457	560.060
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<b>KZ</b>	06.09 - 12.15	4	1.5	K9K 836 (Diesel)	560.060
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**Megane III 1.5 dCi Coupe**

<b>DZ</b>	01.09 - 12.16	4	1.5	K9K 836 (Diesel)	560.060
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**Megane III 2.0 CC**

<b>EZ</b>	10.10 - 12.16	4	2.0	M4R 713	560.060
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**Megane III 2.0 Grandtour**

<b>KZ</b>	06.09 - 12.15	4	2.0	M4R 711	560.060
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**Megane III 2.0 Hatchback**

<b>BZ</b>	11.08→	4	2.0	M4R 711	560.060
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**Megane RS**

<b>DZ</b>	11.09 - 12.16	4	2.0	F4R 874	574.068
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**R 19**

<b>X53</b>	09.88 - 12.95	4	1.7	F3N 742 Kat.; F3N 743 Kat.	56219
	05.92 - 12.95	4	1.8	F3P 682 Kat.; F3P 700 Kat.; F3P 765 Kat.	56219

**R 21**

<b>L48</b>	07.86 - 12.94	4	2.2	J7T 754,755 Kat.	56219
	10.86 - 03.93	4	2.0	J7R 750,751	56219

**R 25**










	10.86 - 12.92	4	2.2	J7T 732,733 Kat.	56219
	05.88 - 12.92	6	2.9	Z7W 701	56219

**Scenic**

<b>JA</b>	03.99 - 04.03	4	1.6	K4M 700	55457	560.060
	06.99 - 04.03	4	2.0	F4R 744	56219	
	06.00 - 04.03	4	2.0	F4R 746	560.060	

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.



								
<b>JA</b>	11.00 - 04.03	4	2.0	F4R 744			<b>560.060</b>	
<b>JM</b>	05.03 - 04.09	4	2.0	F4R 770; F4R 771			<b>55457</b>	<b>560.060</b>
<b>Scenic II</b>								
<b>JM</b>	05.05 - 04.09	4	1.9	F9Q 803 (Diesel)			<b>55457</b>	<b>560.060</b>
<b>Trafic</b>								
<b>EL/FL/JL</b>	06.01 - 12.06	4	1.9	F9Q 760 (Diesel)			<b>574.068</b>	
	01.06 - 12.14	4	2.0	M9R 780 (Diesel)			<b>574.068</b>	
<b>Trafic III</b>								
<b>EG/FG/JG</b>	05.14→	4	1.6	R9M 450 (Diesel)			<b>LN3</b>	
<b>ROLLS-ROYCE</b>								
<b>Corniche</b>								
	04.93 - 08.94	8	6.8	L 410 M			<b>55D26R</b>	<b>110D26R</b>
	01.00 - 12.02	8	6.8	OHV V8			<b>55D26R</b>	<b>110D26R</b>
<b>Ghost</b>								
<b>RR4</b>	12.09→	12	6.6	N74 B66A			<b>60038</b>	
<b>Park Ward</b>								
	03.00 - 12.02	12	5.4	<M 73 B 54>			<b>55D26R</b>	<b>110D26R</b>
<b>Phantom</b>								
<b>RR1</b>	03.03→	12	6.8	N73 B68A			<b>60038</b>	
<b>Phantom Coupe</b>								
<b>RR3</b>	09.08→	12	6.8	N73 B68A			<b>60038</b>	
<b>Phantom Drophead</b>								
<b>RR2</b>	06.07→	12	6.8	N73 B68A			<b>60038</b>	
<b>Silver Dawn</b>								
	09.94 - 08.97	8	6.8	OHV V8			<b>55D26R</b>	<b>110D26R</b>
<b>Silver Seraph</b>								
	03.98 - 12.02	12	5.4	<M 73 B 54>			<b>55D26R</b>	<b>110D26R</b>
<b>Silver Spirit</b>								
	01.89 - 03.93	8	6.8	OHV V8			<b>55D26R</b>	<b>110D26R</b>
	03.94 - 05.98	8	6.8	L 410 MN 1T			<b>55D26R</b>	<b>110D26R</b>
<b>Silver Spur</b>								
	07.89 - 12.98	8	6.8	OHV V8; OHV V8 <Kat.>			<b>55D26R</b>	<b>110D26R</b>
<b>ROVER</b>								
<b>75</b>								
	01.99 - 05.05	6	2.5	25 K4F <KV6>			<b>574.068</b>	
	01.03 - 05.05	4	2.0	20 4D 2 <M 47 D 20> (Diesel)			<b>574.068</b>	
<b>827</b>								
	02.88 - 10.91	6	2.7	C27A V6			<b>56219</b>	





**SAAB (SAAB AUTOMOBILE AB)**

**9-3**

9400	02.98 - 08.02	4	2.3	B234I; B235R	55457	560.060
	03.98 - 09.02	4	2.0	B 204 E <Turbo- Katalysator>; B204I; B204L; B205E <(Ecopower)>; B205L; B205R <Turbo>	55457	560.060
9440	09.02 - 02.11	4	2.0	B207E; B207L	56318	575.068
	02.03 - 02.11	4	2.0	B207R	56318	575.068
	09.05 - 06.12	6	2.8	B284L <Turbo>	56318	575.068
	07.07 - 06.12	4	2.0	B207R	560.060	
	04.08 - 06.12	6	2.8	B284L <Turbo>	560.060	

**9-3 Cabriolet**

9440	08.03 - 02.11	4	2.0	B207E; B207L; B207R	56318	575.068
	09.05 - 02.11	6	2.8	B284L <Turbo>	56638	574.068
	01.06 - 02.11	4	1.9	Z 19 DTH (Diesel); Z 19 DTR (Diesel)	574.068	

**9-3 Cabriolet**

9440	09.08 - 06.12	6	2.8	B284L	560.060	
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**9-3 Kombi**

9440	03.05 - 02.11	4	2.0	B207R	56318	575.068
	03.05 - 06.12	4	2.0	B207L	56318	575.068
		6	2.8	B284L <Turbo>	56638	574.068
	03.08 - 06.12	6	2.8	B284L	560.060	
	03.09 - 06.12	4	2.0	B207R	560.060	

**9-5**

9600	09.01 - 02.10	4	2.3	B235R	56638	574.068
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**9-5 Kombi**

9600	09.01 - 02.10	4	2.3	B235R	56638	574.068
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**900**

900	09.83 - 08.92	4	2.0	B 201 I Kat.; B 202 I Kat.	55D26R	110D26R
	09.90 - 08.94	4	2.1	B 212 I Kat.	55D26R	110D26R
	09.93 - 08.98	4	2.0	B 204 I Kat.; B 206 I Kat.	56638	574.068
	09.93 - 10.98	6	2.5	B 258 I	56638	574.068

**900 Turbo**

	08.84 - 08.93	4	2.0	B 202 L Kat.	56219	
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**900 Turbo Cabriolet**

	08.86 - 09.93	4	2.0	B 202 L Kat.	56219	
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**9000**

9000	08.86 - 08.93	4	2.0	B 202 I; B 202 L <Turbo- Katalysator>	56219	
	09.89 - 12.98	4	2.3	B 234 I <Kat>; B 234 L <Kat>; B 234 L <Turbo- Katalysator>	56638	574.068

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09.94 - 12.98	6	3.0	B 308 I <Kat>	<b>575.068</b>	<b>56638</b>	<b>574.068</b>
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**SEAT****Cordoba**

<b>6K2</b>	09.93 - 04.96	4	2.0	2E	<b>55457</b>	<b>560.060</b>
	07.94 - 12.02	4	1.8	ADZ	<b>55457</b>	<b>560.060</b>
	12.95 - 11.02	4	1.6	AFT	<b>55457</b>	<b>560.060</b>
	03.97 - 12.98	4	1.6	AEE	<b>54316</b>	

**Ibiza**

<b>6K1</b>	03.93 - 04.96	4	2.0	2E	<b>54316</b>	
	09.93 - 12.97	4	1.4	ABD; AEX	<b>54316</b>	
	06.96 - 10.99	4	2.0	ABF	<b>54316</b>	

**Toledo**

<b>1L2</b>	05.91 - 03.99	4	2.0	ABF; AGG; 2E	<b>55457</b>	<b>560.060</b>
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**SKODA****Fabia**

<b>5J2</b>	03.10 - 12.14	4	1.2	CBZB <DB0>	<b>560.060</b>	
<b>NJ3</b>	08.14->	4	1.2	CJZC <DB7>; CJZD <DB8>	<b>560.060</b>	



**Fabia Combi**

<b>5J5</b>	03.10 - 12.14	4	1.2	CBZB <DB0>	<b>560.060</b>	
<b>NJ5</b>	08.14->	4	1.2	CJZC <DB7>; CJZD <DB8>	<b>560.060</b>	

**Fabia 1.4**

<b>5J2</b>	03.10 - 12.14	4	1.4	CGGB <D22>		<b>LN2</b>
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**Octavia**

<b>1Z3</b>	05.04 - 05.10	4	2.0	BKD <D7N> (Diesel)	<b>574.068</b>	
	03.06 - 03.11	4	1.9	BXE <D3W> (Diesel)	<b>574.068</b>	
	06.07 - 06.13	4	1.8	BZB <D67>; CDAA <D67>	<b>560.060</b>	
	05.08 - 05.13	4	2.0	CCZA <DL2>; CEGA <D93> (Diesel); CFHC <D91> (Diesel)	<b>575.068</b>	
<b>1Z5</b>	05.08 - 05.13	4	2.0	CCZA <DL2>; CEGA <D93> (Diesel); CFHC <D91> (Diesel)	<b>575.068</b>	
	11.08 - 06.13	4	1.8	CDAA <D67>	<b>575.068</b>	
<b>1Z3</b>	06.09 - 04.13	4	1.6	CAYC <D38> (Diesel)		<b>LN3</b>
<b>1Z5</b>	06.09 - 04.13	4	1.6	CAYC <D38> (Diesel)		<b>LN3</b>
<b>5E3</b>	11.12 - 05.15	4	1.4	CHPA <DF6>	<b>560.060</b>	
	11.12->	4	1.8	CJSA <DF4>	<b>560.060</b>	

**Octavia Combi**

<b>1U5</b>	08.00 - 12.10	4	1.8	AUM	<b>56219</b>	
<b>1Z5</b>	05.04 - 05.10	4	2.0	BKD <D7N> (Diesel); BMM <D7N> (Diesel); BWA <D2L>	<b>574.068</b>	



							
<b>◀ SKODA</b>							
<b>1Z5</b>	11.04 - 03.11	4	1.9	BXE <D3W> (Diesel)		<b>574.068</b>	
	06.07 - 10.08	4	1.8	BZB <D67>		<b>575.068</b>	
<b>5E5</b>	11.12 - 05.15	4	1.4	CHPA <DF6>		<b>560.060</b>	
<b>Octavia Scout</b>							
<b>1Z5</b>	05.10 - 05.13	4	2.0	CFHC <D91> (Diesel)		<b>575.068</b>	
<b>Octavia Scout 110TDI</b>							
<b>5E5</b>	05.13 - 05.15	4	2.0	CKFC <DN4> (Diesel)		<b>560.060</b>	
<b>Octavia Scout 132TSI</b>							
<b>5E5</b>	11.12→	4	1.8	CJSA <DF4>		<b>560.060</b>	
<b>Octavia Scout 135TDI</b>							
<b>5E5</b>	09.14 - 05.15	4	2.0	CUPA <DK7> (Diesel)		<b>560.060</b>	
<b>Octavia 1.8 RS</b>							
<b>1U2</b>	08.00 - 09.04	4	1.8	AUQ		<b>560.060</b>	
<b>Octavia 2.0 FSI</b>							
<b>1Z3</b>	11.04 - 11.05	4	2.0	BLR <D2Z>		<b>560.060</b>	
<b>Rapid TSI Spaceback</b>							
<b>NH1</b>	05.15→	4	1.2	CJZD <DB8>		<b>560.060</b>	
			1.4	CZCA <D33>		<b>560.060</b>	
<b>Rapid 1.2 TSI Spaceback</b>							
<b>NH1</b>	10.13 - 05.15	4	1.2	CBZB <DB0>		<b>LN3</b>	
<b>Rapid 1.4 TSI Spaceback</b>							
<b>NH1</b>	10.13 - 06.15	4	1.4	CAXA <D4X>		<b>560.060</b>	
<b>Roomster</b>							
<b>5J7</b>	05.06 - 07.10	4	1.6	BTS <D3H>		<b>55066</b>	
<b>Roomster 1.2 TSI</b>							
<b>5J7</b>	03.10 - 05.15	4	1.2	CBZB <DB0>		<b>560.060</b>	
<b>Superb</b>							
<b>3T4</b>	06.08 - 05.10	4	2.0	CBBB <D93> (Diesel)		<b>575.068</b>	
	09.08 - 05.15	4	1.8	CDAA <D67>		<b>560.060</b>	
	11.08 - 05.13	6	3.6	CDVA <D04>		<b>58014</b>	
<b>Superb Combi</b>							
<b>3T5</b>	05.10 - 05.15	4	2.0	CFGB <D93> (Diesel)		<b>575.068</b>	
<b>Superb Kombi</b>							
<b>3T5</b>	09.09 - 05.10	4	2.0	CBBB <D93> (Diesel)		<b>575.068</b>	
	09.09 - 05.15	4	1.8	CDAA <D67>		<b>560.060</b>	
		6	3.6	CDVA <D04>		<b>560.060</b>	
<b>Yeti</b>							
<b>5L7</b>	11.09 - 12.17	4	2.0	CFHC <D91> (Diesel)		<b>575.068</b>	
	06.10 - 11.15	4	1.4	CAXA <D4X>		<b>560.060</b>	

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<b>5L7</b>	05.15 - 12.17	4	1.2	CYVB <DB8>	<b>560.060</b>
<b>Yeti 112</b>					
<b>5L7</b>	11.09 - 12.17	4	1.8	CDAB <M92>	<b>575.068</b>
<b>Yeti 118</b>					
<b>5L7</b>	05.09 - 12.17	4	1.8	CDAА <D67>	<b>560.060</b>
<b>120 L</b>					
	08.76 - 12.90	4	1.2		<b>54316</b>

**SMART (MCC)**

<b>FORFOUR</b>					
<b>454</b>	01.04 - 06.07	4	1.3	135.930	<b>55066</b>
			1.5	122.950; 135.950	<b>55066</b>
<b>FORTWO</b>					
<b>450</b>	02.04 - 03.07	3	0.7	160.910	<b>55066</b>
<b>451</b>	04.07 - 09.07	3	1.0	132.910 <RA1>	<b>LN2</b>
					SSN <b>55066</b>
	04.07 - 12.15	3	1.0	132.910 <RA1>	<b>55066</b>
<b>Roadster</b>					
<b>452</b>	04.03 - 11.05	3	0.7	160.922	<b>55066</b>
<b>Smart</b>					
<b>450</b>	01.03 - 01.04	3	0.7	160.910	<b>55066</b>

**SSANGYONG**

<b>Chairman</b>					
	09.03 - 01.08	6	3.2	<DOHC M104>	<b>60038</b>
<b>Korando</b>					
<b>KJ</b>	07.96 - 12.05	4	2.3	M161 E23 <M 111>	<b>95D31R</b> <b>105D31R</b>
		5	2.9	OM 662 LA <OM 602> (Diesel)	<b>105D31R</b>
		6	3.2	M 104.995	<b>95D31R</b> <b>105D31R</b>
<b>Musso</b>					
<b>MJ</b>	07.93 - 12.05	5	2.9	OM 662 D29 <OM 602.910> (Diesel)	<b>95D31R</b> <b>105D31R</b>
	01.96 - 12.05	6	3.2	M162 E32 <M 104.>	<b>95D31R</b> <b>105D31R</b>
	05.96 - 12.05	4	2.3	M161 E23 <M 111.970>	<b>95D31R</b> <b>105D31R</b>
	05.97 - 12.05	5	2.9	OM 662 D29 LA <OM 602.910> (Diesel)	<b>105D31R</b>
	09.02 - 04.06	5	2.9	OM 662 LA <OM 602> (Diesel)	<b>95D31R</b> <b>105D31R</b>
<b>Rexton</b>					
	09.02 - 12.09	5	2.9	662 LA <(OM 662.925 LA)> (Diesel)	<b>105D31R</b>
		6	3.2	E32(M162.995.)	<b>105D31R</b>
	08.04 - 12.09	5	2.7	D 27 DT <OM 665.925> (Diesel)	<b>95D31R</b> <b>105D31R</b>

**S**



**SUBARU**

**Forester**

SF	01.97 - 05.02	4	2.0	EJ20J; EJ202; EJ205		55D23L	90D23L
	07.98 - 05.02	4	2.5	EJ25		55D23L	90D23L
SG	06.02 - 11.07	4	2.5	EJ251; EJ253; EJ255		55D23L	90D23L
S12	12.07 - 12.12	4	2.0	EE20Z (Diesel)		110D26L	
				2.5	EJ253; EJ255		55D23L
B14	06.09 - 12.12	4	2.5	EJ253		55D23L	90D23L
	10.10 - 11.12	4	2.5	EJ25 (DOHC)		55D23L	90D23L
S13	11.12→	4	2.0	EE20D (Diesel)		110D26L	
				FB20		Q85L	
	06.14→	4	2.5	FB25		Q85L	

**Forester XT**

S13	11.12→	4	2.0	FA20		110D26L	
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**Forester 2.5 4X4**

S13	09.12 - 08.15	4	2.5	FB25		Q85L	
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**Impreza**

	01.93 - 12.95	4	1.6	EJ16		55B24LS	
GF	01.93 - 12.95	4	1.8	EJ18S		40B19LS	
GC	01.93 - 07.96	4	1.8	EJ18E; EJ18S		55B24LS	
GC,GF	10.93 - 09.00	4	1.6	EJ16E; EJ16J		40B19LS	
	08.95 - 07.98	4	2.0	EJ20E		40B19LS	
GD,GG	10.00 - 06.07	4	2.0	EJ201; EJ204		40B19LS	
	07.01 - 05.05	4	2.5	EJ251		40B19LS	
G12	06.07 - 12.11	4	2.0	EJ204		40B19LS	
GJ	11.11 - 10.16	4	2.0	FB20		Q85L	

**Impreza Coupe 2.0i Turbo 4WD**

	09.96 - 07.99	4	2.0	EJ20 (DOHC)	GS	90D23L	
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**Impreza Sport**

GP	11.11 - 10.16	4	2.0	FB20		Q85L	
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**Impreza WRX**

GC,GF	12.93 - 09.00	4	2.0	EJ20G; EJ205		40B19LS	
GD,GG	10.00 - 05.05	4	2.0	EJ205		40B19LS	
	06.05 - 06.07	4	2.5	EJ255		40B19LS	
	02.09 - 11.11	4	2.5	EJ25 (DOHC)		55D23L	90D23L

**Impreza WRX STi**

GD,GG	10.01 - 05.05	4	2.0	EJ207		40B19LS	
	09.03 - 06.07	4	2.5	EJ257		40B19LS	

**Impreza 2.0i Turbo 4WD**

	10.94 - 07.00	4	2.0	EJ20 (DOHC)		55D23L	90D23L
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Impreza 2.5 WRX							
G22	09.10 - 01.14	4	2.5	EJ255		START STOP	Q85L
Impreza 2.5 WRX Hatchback							
G22	09.10 - 01.14	4	2.5	EJ255		START STOP	Q85L
Impreza 2.5 WRX STI							
G22	09.10 - 01.14	4	2.5	EJ257		START STOP	Q85L
Legacy							
	05.03 - 05.09	4	2.0	EJ20 (DOHC)			90D23L
Liberty							
	01.89 - 12.94	4	2.2	EJ22			40B19L
BC,BF,BJ	01.89 - 08.95	4	2.2	EJ22			40B19L
	05.92 - 12.93	4	2.0	EJ20G			40B19L
	01.94 - 12.95	4	2.2	EJ22			40B19L
BD,BG	01.94 - 05.97	4	2.2	EJ22E			40B19L
	01.96 - 11.98	4	2.5	EJ25D <4CAM>			40B19L
BE	10.98 - 06.03	4	2.5	EJ251			40B19L
BE,BH	10.98 - 06.03	4	2.0	EJ201; EJ208			40B19L
BH	10.98 - 06.03	4	2.5	EJ251			40B19L
BL,BP	07.03 - 05.09	6	3.0	EZ30D			55D23L 90D23L
	09.03 - 06.05	4	2.0	EJ202			40B19L
	09.03 - 06.06	4	2.5	EJ25			40B19L
B14	06.09 - 11.14	4	2.5	EJ253			55D23L 90D23L
MV							
	11.84 - 12.94	4	1.8	EA81			40B19R
Outback							
BD,BG	06.96 - 12.99	4	2.5	EJ25D <4CAM>			40B19R
BE,BH	10.98 - 06.03	4	2.5	EJ251			40B19L
	07.00 - 06.03	6	3.0	EZ30D			55D23L 90D23L
BL,BP	07.03 - 05.09	6	3.0	EZ30D			55D23L 90D23L
	07.03 - 06.09	4	2.5	EJ25			40B19L
	10.03 - 05.09	4	2.5	EJ25 (SOHC)			40B19L
	05.09 - 10.14	6	3.6	EZ36			110D26R
B14	06.09 - 04.15	4	2.0	EE20Z (Diesel)			55D23L 90D23L
			2.5	EJ253			55D23L 90D23L
Outback 3.6							
B14	06.09 - 04.15	6	3.6	EZ36D			110D26R
Sherpa							
	10.83 - 12.93	2	0.7	EK42			55B24L
M80	04.89 - 02.92	4	0.8	EN08			40B19R
SVX							
	09.92 - 12.96	6	3.3	EG33			40B19R





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**Tribeca**

<b>B9</b>	04.06 - 11.07	6	3.0	EZ30D		<b>55D23L</b>	<b>90D23L</b>
<b>W10</b>	11.07 - 01.14	6	3.6	EZ36D		<b>55D23L</b>	<b>90D23L</b>

**WRX STI 2.5**

<b>V10</b>	05.14→	4	2.5	EJ257		<b>Q85L</b>	
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**WRX 2.0**

<b>V10</b>	05.14→	4	2.0	FA20		<b>55B24RS</b>	
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**XV 2.0 AWD**

<b>G33</b>	09.12 - 08.16	4	2.0	FB20		<b>55B24LS</b>	
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**SUZUKI**

**Alto**

<b>EF</b>	10.94 - 02.02	4	1.0	G10B		<b>40B19R</b>	
<b>AMF</b>	12.08 - 12.14	3	1.0	K10B		<b>40B19R</b>	

**Alto 800**

<b>EC</b>	01.86 - 11.93	3	0.8	F8B		<b>40B19R</b>	
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**APV**

	09.04→	4	1.6	G16A <SOHC MPI>		<b>40B19R</b>	
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**Baleno**

	05.95 - 11.01	4	1.6	G16B		<b>55B24L</b>	
	09.95 - 08.06	4	1.8	G18A; J18A		<b>55B24L</b>	

**Carry**

<b>ED</b>	10.85 - 12.90	4	1.0	F10A		<b>40B19RS</b>	
<b>FD</b>	03.99 - 03.09	4	1.3	G13BB		<b>40B19R</b>	<b>40B19RS</b>

**Grand Vitara**

<b>FT</b>	03.98 - 12.05	4	2.0	J20A		<b>55D23L</b>	<b>90D23L</b>
<b>GT</b>	03.98 - 03.08	4	1.6	G16B		<b>40B19R</b>	
<b>FT</b>	04.98 - 12.05	6	2.5	H25A		<b>55D23L</b>	<b>90D23L</b>
	10.00 - 06.08	4	2.0	J20A		<b>55D23L</b>	<b>90D23L</b>
<b>HT</b>	06.01 - 08.08	6	2.7	H27A		<b>55D26L</b>	<b>110D26L</b>
	10.02→	6	2.7	H27A		<b>55D26L</b>	<b>110D26L</b>
<b>JT</b>	10.05 - 12.14	4	1.9	F9Q (Diesel)		<b>55D26L</b>	<b>110D26L</b>
	06.08 - 05.09	6	3.2	N32A		<b>55D26L</b>	<b>110D26L</b>
	06.08 - 07.17	4	2.4	J24B		<b>55D23L</b>	<b>90D23L</b>
<b>JT</b>	09.08→	4	2.4	J24B		<b>55D23L</b>	<b>90D23L</b>
						<b>55D26L</b>	<b>110D26L</b>









**Ignis**

	10.00 - 09.03	4	1.3	M13A		<b>54316</b>	
	12.03 - 02.05	4	1.5	M15A		<b>54316</b>	

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<b>Jimny</b>								
FJ	10.98 - 10.08	4	1.3	G13BB			40B19R	
	10.00 - 10.05	4	1.3	M13A			40B19L	
<b>Kizashi</b>								
	10.09→	4	2.4	J24B			55D23L	90D23L
<b>Kizashi AWD</b>								
	10.09→	4	2.4	J24B			55D23L	90D23L
<b>Kizashi 2.4i</b>								
	06.10 - 12.14	4	2.4	J24B			110D26L	
<b>Kizashi 2.4i 4WD</b>								
	06.10 - 12.14	4	2.4	J24B			110D26L	
<b>Liana</b>								
	03.01 - 04.08	4	1.6	M16A			55B24L	
	04.05 - 12.07	4	1.8	M18A			55B24L	
<b>Sierra</b>								
	01.90 - 12.95	4	1.3	G13BA			40B19RS	
	11.95 - 12.97	4	1.3	G13B (SOHC)			40B19R	
<b>Swift</b>								
SF	10.89 - 04.95	3	1.0	G10			40B19R	
	09.91 - 09.95	4	1.3	G13B			40B19R	
			1.6	G16B			40B19R	
	06.96 - 03.01	4	1.3	G13BA			40B19R	
EZ	11.04 - 02.11	4	1.5	M15A			55B24R	
	09.05 - 09.10	4	1.6	M16A			55B24R	
	10.07→	4	1.5	M15A			55B24R	
AZH	01.11→	4	1.4	K14B			55B24R	
<b>Swift GTi</b>								
SF	01.89 - 09.95	4	1.3	G13B			40B19R	
<b>SX4</b>								
	07.06 - 11.14	4	2.0	J20A			55B24R	
<b>SX4 S-Cross 1.6</b>								
	10.13 - 07.16	4	1.6	M16A			55B24LS	
<b>SX4 S-Cross 1.6 4WD</b>								
	10.13 - 07.16	4	1.6	M16A			55B24LS	
<b>Vitara</b>								
ET	03.88 - 03.98	4	1.6	G16A; G16B			40B19R	
	12.94 - 03.98	6	2.0	H20A			40B19R	
			2.5	H25A			40B19R	
	12.96 - 03.98	4	2.0	J20A			40B19R	
<b>Wagon R+</b>								
EM	10.96 - 05.00	3	1.0	G10			40B19R	





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**Wagon R Wide**

02.97 - 06.99    4    1.0    K10A    **55B24LS**

**X90**

09.95 - 05.98    4    1.6    G16B    **55B24L**

**TOYOTA**

**Aurion**

**GSV40R**    06.06 - 03.12    6    3.5    2GRFE    **55D23L**    **90D23L**

**GSV50R**    04.12→    6    3.5    2GRFE    **55D23L**    **90D23L**

**Auris 1.8i**

**ZRE186H**    08.12→    4    1.8    2ZRFAE    **55B24L**

**Avalon**

**MCX10R**    04.00 - 06.05    6    3.0    1MZFE    **55D23L**    **90D23L**

**Avensis**

**AZT220**    07.00 - 01.03    4    2.0    1AZFSE    **55B24LS**

**ACM20**    05.01 - 11.03    4    2.0    1AZFE    **22NF-330D**

**ACM21**    10.03 - 12.09    4    2.4    2AZFE    **55D23L**    **90D23L**

**Blade 2.4i**

**AZE156H**    12.06 - 04.12    4    2.4    2AZFE    **90D23L**

**Camry / Vienta**

**SV21**    01.87 - 11.92    4    2.0    3SFE    **40B19LS**

**VZV21**    06.88 - 02.93    6    2.5    2VZFE    **55D23L**    **90D23L**

**SV22**    07.89 - 06.91    4    2.0    3SFC    **40B19LS**

**SDV10**    02.93 - 06.95    4    2.2    5SFE    **40B19LS**

**VDV10**    02.93 - 06.95    6    3.0    3VZFE    **55D23L**    **90D23L**

**VCV10**    07.95 - 06.97    6    3.0    3VZFE    **55D23L**    **90D23L**

**SXV10**    07.95 - 04.98    4    2.2    5SFE    **55D23L**    **90D23L**

**MCV20**    07.97 - 08.02    6    3.0    1MZFE    **55D23L**    **90D23L**

**SXV20**    05.98 - 02.02    4    2.2    5SFE    **55D23L**    **90D23L**

**ACV36**    09.02 - 05.06    4    2.4    2AZFE    **55D23L**    **90D23L**

**MCV36**    09.02 - 06.06    6    3.0    1MZFE    **55D23L**    **90D23L**

**ACV40**    06.06 - 12.11    4    2.4    2AZFE    **55D23L**    **90D23L**

**ASV50**    12.11→    4    2.5    2ARFE    **55D26R**    **110D26R**

**Camry Hybrid**

**AVV50**    12.11→    4    2.5    2ARFXE    **55D26R**    **110D26R**

**Celica**

**ST185**    10.87 - 08.93    4    2.0    3SGTE    **55D23L**    **90D23L**









**ST184**    10.89 - 09.97    4    2.2    5SFE    **55D23L**    **90D23L**

**ST182**    10.90 - 11.93    4    2.0    3SGE    **40B19LS**

**ST204**    11.93 - 08.99    4    2.2    5SFE    **55D23L**    **90D23L**

**ST205**    02.94 - 08.99    4    2.0    3SGTE    **55D23L**    **90D23L**

**\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.**

								
<b>ST202</b>	08.94 - 05.99	4	2.0	3SGE			<b>40B19LS</b>	
<b>ST202C</b>	12.97 - 08.99	4	2.0	3SGE			<b>55D23L</b>	<b>90D23L</b>
<b>ZZT231</b>	08.99 - 04.06	4	1.8	2ZZGE			<b>55B24LS</b>	
	08.00 - 08.05	4	1.8	2ZZGE			<b>22NF-330D</b>	
<b>Chaser</b>								
<b>GX90</b>	10.92 - 09.96	6	2.0	1GFE			<b>55D23L</b>	<b>90D23L</b>
<b>JZX90</b>	10.92 - 09.96	6	2.5	1JZGE; 1JZGTE			<b>55D23L</b>	<b>90D23L</b>
<b>JZX91</b>	10.92 - 09.96	6	3.0	2JZGE			<b>55D23L</b>	<b>90D23L</b>
<b>LX90</b>	10.92 - 09.96	4	2.4	2LTE (Diesel)			<b>95D31L</b>	<b>105D31L</b>
<b>SX90</b>	10.92 - 09.96	4	1.8	4SFE			<b>55D23L</b>	<b>90D23L</b>
<b>LX100</b>	09.96 - 08.99	4	2.4	2LTE (Diesel)			<b>95D31L</b>	<b>105D31L</b>
<b>GX100</b>	09.96 - 06.01	6	2.0	1GFE			<b>55D23L</b>	<b>90D23L</b>
<b>JZX100</b>	09.96 - 06.01	6	2.5	1JZGE; 1JZGTE			<b>55D23L</b>	<b>90D23L</b>
<b>JZX101</b>	09.96 - 06.01	6	3.0	2JZGE			<b>55D23L</b>	<b>90D23L</b>
<b>JZX105</b>	09.96 - 06.01	6	2.5	1JZGE			<b>55D23L</b>	<b>90D23L</b>
<b>SX100</b>	04.97 - 06.01	4	1.8	4SFE			<b>55D23L</b>	<b>90D23L</b>
<b>GX105</b>	08.98 - 06.01	6	2.0	1GFE			<b>55D23L</b>	<b>90D23L</b>
<b>Coaster</b>								
<b>BB21/BB31/BB40</b>	02.83 - 07.99	4	3.4	3B (Diesel)			<b>110D26R</b>	
<b>HZB30/HZB31/HZB40/ HZB41/HZB50</b>	01.90 - 07.99	6	4.2	1HZ (Diesel)			<b>90D23R</b>	
<b>HZB40/HZB41/HZB50</b>	07.99 - 08.04	6	4.2	1HZ (Diesel)		<b>ZE</b>	<b>90D23R</b>	
<b>XZB40/XZB50/XZB51</b>	08.04 →	4	4.0	N04C (Diesel)				<b>105D31R</b>
<b>Corolla</b>								
<b>AE92</b>	05.87 - 06.91	4	1.6	4AGE			<b>22NF-330D</b>	
	01.88 - 06.94	4	1.6	4AFE			<b>22NF-330D</b>	
	01.89 - 04.92	4	1.6	4AFC			<b>22NF-330D</b>	
<b>AE90</b>	01.89 - 05.92	4	1.4	6AF; 6AFC			<b>40B19LS</b>	
<b>AE92</b>	02.89 - 06.94	4	1.6	4AF			<b>22NF-330D</b>	
<b>AE93</b>	08.89 - 05.91	4	1.6	4AGE			<b>40B19LS</b>	
<b>AE92</b>	01.91 - 12.92	4	1.6	4AFC			<b>40B19LS</b>	
<b>AE94</b>	01.91 - 12.92	4	1.8	4AFE			<b>22NF-330D</b>	
<b>AE92</b>	06.91 - 08.92	4	1.6	4AGE			<b>40B19LS</b>	
<b>CE100</b>	06.91 - 05.95	4	2.0	2C (Diesel)			<b>110D26L</b>	
<b>AE94</b>	07.91 - 06.94	4	1.6	4AFE			<b>22NF-330D</b>	
<b>AE96</b>	10.92 - 06.94	4	1.8	7AFE			<b>22NF-330D</b>	
<b>AE102</b>	11.92 - 08.97	4	1.8	7AFE			<b>50D20L</b>	
<b>AE101</b>	07.94 - 08.98	4	1.6	4AFE			<b>22NF-330D</b>	
<b>AE102</b>	07.94 - 12.99	4	1.8	7AFE			<b>22NF-330D</b>	
							<b>55D23L</b>	<b>90D23L</b>
<b>AE112R</b>	10.98 - 10.01	4	1.8	7AFE			<b>40B19LS</b>	
<b>ZZE122G</b>	12.01 - 01.06	4	1.8	1ZZFE			<b>40B19LS</b>	
<b>ZZE122</b>	12.01 - 10.06	4	1.8	1ZZFE			<b>40B19LS</b>	
<b>ZZE122R</b>	09.02 - 04.07	4	1.8	1ZZFE			<b>560.060</b>	
<b>ZZE122</b>	01.06 - 04.07	4	1.8	1ZZFE			<b>40B19L</b>	













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ZRE152R	09.07 - 03.10	4	1.8	2ZRFE		55B24LS
ZRE182	06.13→	4	1.8	2ZRFE		55B24LS
<b>Corolla 4WD</b>						
AE95	02.88 - 07.95	4	1.6	4AFE		40B19LS
<b>Cressida</b>						
LX80	08.88 - 08.96	4	2.4	2L (Diesel)		55D23L 90D23L
MX83	09.88 - 08.92	6	3.0	7MGE		55D23L 90D23L
<b>Cresta</b>						
GX90	10.92 - 09.96	6	2.0	1GFE		55D23L 90D23L
JZX90	10.92 - 09.96	6	2.5	1JZGE; 1JZGTE		55D23L 90D23L
LX90	10.92 - 09.96	4	2.4	2LTE (Diesel)		55D23L 90D23L
SX90	10.92 - 09.96	4	1.8	4SFE		55D23L 90D23L
GX100	09.96 - 08.98	6	2.0	1GFE		55D23L 90D23L
JZX100	09.96 - 06.01	6	2.5	1JZGE; 1JZGTE		55D23L 90D23L
JZX101	09.96 - 06.01	6	3.0	2JZGE		55D23L 90D23L
JZX105	09.96 - 06.01	6	2.5	1JZGE		55D23L 90D23L
<b>Dyna</b>						
YH81	08.87 - 03.92	4	1.8	2Y		55D26R 110D26R
LH80	08.87 - 05.95	4	2.5	2L (Diesel)		95D31R 105D31R
BU60	08.88 - 05.95	4	3.0	B (Diesel)		95D31R 105D31R
BU61	08.88 - 05.95	4	3.0	11B (Diesel)		95D31R 105D31R
LY61	08.88 - 05.95	4	2.8	3L (Diesel)		95D31R 105D31R
YU62	08.88 - 05.95	4	2.2	4Y		95D31R 105D31R
YY100L	05.95 - 05.99	4	1.8	2Y		55D26R 110D26R
LY211L	05.95 - 07.01	4	2.8	3L (Diesel)		55D26R 110D26R
LY212R,LY230R	11.99→	4	3.0	5L (Diesel)		55D23L 90D23L
<b>Echo</b>						
NCP10	08.99 - 12.02	4	1.3	2NZFE	AG	55B24RS
					GS	40B19RS
	09.99 - 02.05	4	1.3	2NZFE		55B24RS
NCP12	09.99 - 10.05	4	1.5	1NZFE		55B24RS
NCP13	06.03 - 10.05	4	1.5	1NZFE	AG	55B24RS
					GS	40B19RS
<b>FJ Cruiser</b>						
GSJ15W	12.10→	6	4.0	1GRFE		110D26L
<b>Harrier</b>						
MCU10W	12.97 - 02.03	6	3.0	1MZFE		22F-550DF
	03.98→	6	3.0	1MZFE		22F-550DF
<b>Hiace</b>						
LH103V/LH113K/ LH113V/LH123V	08.89 - 08.98	4	2.8	3L (Diesel)		110D26L

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.

								
<b>LH115B/LH125B</b>	08.89 - 08.98	4	2.8	3L (Diesel)			<b>110D26L</b>	
<b>RZH103</b>	08.89 - 08.98	4	2.4	2RZ			<b>55D23R</b>	<b>90D23R</b>
<b>LH103</b>	08.89 - 08.00	4	2.8	3L (Diesel)			<b>95D31R</b>	<b>105D31R</b>
<b>LH105</b>	08.89 - 08.00	4	2.8	3L (Diesel)			<b>95D31R</b>	<b>105D31R</b>
<b>LH113/115</b>	08.89 - 08.00	4	2.8	3L (Diesel)			<b>95D31R</b>	<b>105D31R</b>
<b>RZH113</b>	08.89 - 02.05	4	2.4	2RZE			<b>55D23R</b>	<b>90D23R</b>
<b>RZH103</b>	08.93 - 02.05	4	2.4	2RZE			<b>90D23L</b>	
<b>RCH12R/S.B.V</b>	08.95 - 12.03	4	2.4	2RZE			<b>55D23R</b>	<b>90D23R</b>
<b>RCH22</b>	03.97 - 12.03	4	2.4	2RZE			<b>55D23R</b>	<b>90D23R</b>
<b>LH162V/LH172K/ LH172V/LH182K</b>	08.98 - 10.04	4	3.0	5L (Diesel)			<b>110D26L</b>	
<b>LH174/184</b>	08.98 - 02.05	4	3.0	5L (Diesel)			<b>95D31R</b>	<b>105D31R</b>
<b>KLH12/22</b>	08.01 →	4	2.5	2KDFTV (Diesel)			<b>95D31R</b>	<b>105D31R</b>
<b>KDH200K/KDH200V/ KDH220K</b>	08.04 - 09.07	4	2.5	2KDFTV (Diesel)			<b>95D31R</b>	<b>105D31R</b>
	01.05 →	4	3.0	1KDFTV (Diesel)			<b>95D31R</b>	<b>105D31R</b>
<b>TRH223B</b>	01.05 →	4	2.7	2TRFE			<b>55D23R</b>	<b>90D23R</b>
<b>TRH 201, 221, 223</b>	03.05 →	4	2.7	2TRFE			<b>55D23R</b>	<b>90D23R</b>
<b>KDH201V/01K/11K/21K</b>	08.07 →	4	3.0	1KDFTV (Diesel)				<b>105D31R</b>
<b>Hiace Commuter</b>								
<b>RZH124B</b>	08.93 - 07.03	4	2.0	1RZE			<b>55D23R</b>	<b>90D23R</b>
<b>RZH125B</b>	08.98 - 07.03	4	2.4	2RZE			<b>55D23R</b>	<b>90D23R</b>
<b>LH184B/LH186B</b>	08.98 - 10.04	4	3.0	5L (Diesel)			<b>95D31R</b>	<b>105D31R</b>
<b>KDH222B</b>	01.05 - 09.07	4	2.5	2KDFTV (Diesel)			<b>95D31R</b>	<b>105D31R</b>
	01.05 →	4	3.0	1KDFTV (Diesel)			<b>95D31R</b>	<b>105D31R</b>
<b>Highlander 3.5</b>								
	09.09 →	6	3.5	2GRFE			<b>55D26R</b>	<b>110D26R</b>
<b>Highlander 4x4 3.5 i</b>								
	02.09 →	6	3.5	2GR			<b>55D26R</b>	<b>110D26R</b>
<b>Hilux</b>								
<b>LN51/56/60/61/65</b>	08.84 - 07.98	4	2.4	2L (Diesel)			<b>55D26R</b>	<b>110D26R</b>
<b>RN50/55/58/61/67</b>	01.86 - 07.98	4	2.4	22R			<b>40B19RS</b>	
<b>YN67R</b>	02.86 - 08.98	4	2.2	4Y			<b>55D23L</b>	<b>90D23L</b>
<b>YN50/55</b>	08.86 - 07.98	4	1.6	1Y			<b>55D26R</b>	<b>110D26R</b>
<b>YN58/62/63/67</b>	08.86 - 07.98	4	2.2	4Y			<b>40B19RS</b>	
<b>YN51R</b>	11.86 - 08.98	4	1.8	2Y			<b>55D23L</b>	<b>90D23L</b>
<b>YN85</b>	08.88 - 08.94	4	1.8	2Y			<b>55D26R</b>	<b>110D26R</b>
<b>YN106</b>	08.88 - 08.94	4	2.2	4Y			<b>55D26R</b>	<b>110D26R</b>
<b>YN110</b>	08.88 - 08.94	4	2.2	4Y			<b>55D26R</b>	<b>110D26R</b>
<b>LN85</b>	08.88 - 08.97	4	2.4	2L (Diesel)			<b>95D31R</b>	<b>105D31R</b>
<b>RN110R</b>	08.88 - 08.97	4	2.4	22R			<b>95D31R</b>	<b>105D31R</b>
<b>YN80/YN85</b>	09.88 - 08.94	4	1.8	2Y			<b>105D31R</b>	
<b>LN105</b>	09.88 - 08.97	4	2.4	2L (Diesel)			<b>95D31R</b>	<b>105D31R</b>
<b>RN110</b>	09.88 - 08.97	4	2.4	22RE			<b>55D26R</b>	<b>110D26R</b>





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<b>LN86R</b>	10.88 - 12.97	4	2.8	3L (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>LN106R, 107R, 111R</b>	10.88 - 12.97	4	2.8	3L (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>YN85</b>	01.89 - 10.94	4	1.8	2Y		<b>55D23L</b>	<b>90D23L</b>
<b>VZN130</b>	08.89 - 11.95	6	3.0	3VZE		<b>55D23L</b>	<b>90D23L</b>
<b>LN130</b>	01.90 - 11.95	4	2.4	2LT (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>LN57/67</b>	08.95 - 07.98	4	2.8	3L (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>LN67R</b>	10.95 - 08.98	4	2.8	3L (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>RZN147/RZN152H</b>	08.97 - 12.02	4	2.0	1RZE		<b>55D23L</b>	<b>90D23L</b>
<b>LN147R</b>	10.97 - 02.05	4	3.0	5L (Diesel)		<b>105D31R</b>	
<b>LN167R, 172R</b>	10.97 - 02.05	4	3.0	5L (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>RZN147R, 149R, 154R</b>	10.97 - 02.05	4	2.7	3RZFE		<b>55D23L</b>	<b>90D23L</b>
<b>RZN169R, 174R</b>	10.97 - 02.05	4	2.7	3RZFE		<b>55D23L</b>	<b>90D23L</b>
<b>LN192R</b>	01.98 - 12.02	4	3.0	5L (Diesel); 5LE (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>LN167R</b>	10.98 - 06.00	4	3.0	5L (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>RZN169H/RZN174H</b>	08.99 - 07.04	4	2.7	3RZFE		<b>55D23L</b>	<b>90D23L</b>
<b>KZN16R</b>	12.99 - 04.05	4	3.0	1KZTE (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>KNZ165R</b>	07.00 - 05.05	4	3.0	1KZTE (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>LN167R</b>	11.00 - 05.02	4	3.0	5LE (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>RZN169R, 174R</b>	10.02 - 04.05	6	3.4	5VZFE		<b>55D23L</b>	<b>90D23L</b>
<b>VZN210W</b>	11.02 - 08.05	6	3.4	5VZFE		<b>95D31R</b>	<b>105D31R</b>
<b>TGN16</b>	02.05 - 08.11	4	2.7	2TRFE		<b>55D23L</b>	<b>90D23L</b>
<b>GGN25R</b>	03.05 - 08.11	6	4.0	1GRFE		<b>55D26L</b>	<b>110D26L</b>
<b>KUN16R</b>	03.05→	4	3.0	1KDFTV (Diesel)		<b>95D31L</b>	<b>105D31L</b>
<b>KUN26R</b>	03.05→	4	3.0	1KDFTV (Diesel)		<b>95D31L</b>	<b>105D31L</b>
	01.06 - 08.16	4	2.7	2TRFE		<b>55D23L</b>	<b>90D23L</b>
<b>KUN26</b>	07.11→	4	3.0	1KDFTV (Diesel); 1KD-FTV <D4D> (Diesel)		<b>95D31L</b>	
<b>GUN126</b>	06.15→	4	2.8	1GDFTV (Diesel)		<b>568.060</b>	
<b>Hilux Surf</b>							
<b>YN130G</b>	04.89 - 08.91	4	2.0	3YE		<b>55D23L</b>	<b>90D23L</b>
<b>LN131V</b>	04.89 - 08.93	4	2.8	3L (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>LN130G/LN130W</b>	08.90 - 08.93	4	2.4	2LTE (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>VZN130G</b>	08.90 - 11.95	6	3.0	3VZE		<b>55D23L</b>	<b>90D23L</b>
<b>KZN130G/KZN130W</b>	08.93 - 11.95	4	3.0	1KZTE (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>KZN185G/KZN185W</b>	11.95 - 08.00	4	3.0	1KZTE (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>RZN185W</b>	11.95 - 11.02	4	2.7	3RZFE		<b>55D23L</b>	<b>90D23L</b>
<b>VZN185W</b>	11.95 - 11.02	6	3.4	5VZFE		<b>95D31R</b>	<b>105D31R</b>
<b>KZN185W</b>	07.96 - 08.00	4	3.0	1KZTE (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>KDN185G/KDN185W</b>	06.00 - 11.02	4	3.0	1KDFTV (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>RZN215W</b>	11.02 - 08.04	4	2.7	3RZFE	AA	<b>90D23L</b>	
<b>KDN215W</b>	11.02 - 08.05	4	3.0	1KDFTV (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>Hilux 4x4</b>							
<b>D4D</b>	11.15→	4	2.8	1GDFTV (Diesel)		<b>95D31L</b>	

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Kluger						
MCU28R	10.03 - 08.07	6	3.3	3MZFE		55D26L 110D26L
GSU40R	09.07 - 08.16	6	3.5	2GRFE		55D26L 110D26L
GSU45R	09.07 - 08.16	6	3.5	2GRFE		55D26L 110D26L
Land Cruiser						
BJ70	11.84 - 01.90	4	3.4	3B (Diesel)		95D31R 105D31R
BJ73	11.84 - 02.94	4	3.4	3B (Diesel)		95D31R 105D31R
BJ71	10.85 - 01.90	4	3.4	13BT (Diesel)		95D31R 105D31R
LJ70	10.85 - 01.95	4	2.4	2LT (Diesel)		95D31R 105D31R
FJ75RP	02.86 - 04.92	6	4.0	3F		95D31R 105D31R
HJ60	08.87 - 01.90	6	4.0	2H (Diesel)		95D31R 105D31R
HJ61	08.87 - 01.90	6	4.0	12HT (Diesel)		95D31R 105D31R
FJ62, 70, 73, 75	09.87 - 12.92	6	4.0	3F		95D31R 105D31R
RJ70	12.88 - 12.90	4	2.4	22R		55D26R 110D26R
	12.88 - 04.96	4	2.4	22RE		55D23L 90D23L
FJ80	01.90 - 08.92	6	4.0	3FE		95D31R 105D31R
PZJ70	01.90 - 08.92	5	3.5	1PZ (Diesel)		95D31R 105D31R
PZJ73	01.90 - 08.92	5	3.5	1PZ (Diesel)		95D31R 105D31R
HDJ80	01.90 - 01.98	6	4.2	1HDFT (Diesel); 1HDT (Diesel)		95D31L 105D31L
HZJ80	01.90 - 01.98	6	4.2	1HZ (Diesel)		95D31L 105D31L
HZJ70	01.90 - 08.99	6	4.2	1HZ (Diesel)		95D31R 105D31R
HZJ73	01.90 - 08.99	6	4.2	1HZ (Diesel)		95D31R 105D31R
FZJ80	08.92 - 01.98	6	4.5	1FZFE		95D31L 105D31L
HZJ75	08.92 - 08.99	6	4.2	1HZ (Diesel)		95D31R 105D31R
KZJ90/95	04.96 - 09.02	4	3.0	1KZTE (Diesel)		95D31L 105D31L
UZJ100W	01.98 - 08.07	8	4.7	2UZFE		95D31L 105D31L
HDJ100	01.98 - 07.08	6	4.2	1HDFTE (Diesel)		95D31L 105D31L
UZJ100	01.98 - 07.08	8	4.7	2UZFE		95D31L 105D31L
HZJ78, 79, 105	03.99 - 02.07	6	4.2	1HZ (Diesel)		95D31L 105D31L
HZJ78	08.99 - 08.01	6	4.2	1HZ (Diesel)		95D31L 105D31R
HZJ79	08.99 - 08.01	6	4.2	1HZ (Diesel)		95D31L 105D31R
FZJ75, 78, 79, 105	11.99 - 07.01	6	4.5	1FZFE		95D31R 105D31R
HDJ78, 79	06.01 - 02.07	6	4.2	1HDFTE (Diesel)		95D31L 105D31L
VDJ 76, 78	03.07→	8	4.5	1VDFTV (Diesel)		95D31R 105D31R
VDJ 79	03.07→	8	4.5	1VDFTV (Diesel)		95D31R 105D31R
UZJ200	09.07 - 01.12	8	4.7	2UZFE		110D26L
URJ202	02.12→	8	4.6	1URFE		110D26L
Land Cruiser Prado						
LJ71G/LJ78G/LJ78W	04.90 - 05.93	4	2.4	2LTE (Diesel)		55D23L 90D23L
KZJ71G/KZJ71W/ KZJ78G/KZJ78W	05.93 - 04.96	4	3.0	1KZTE (Diesel)		55D26L 110D26L
RZJ90W/RZJ95W	04.96 - 09.02	4	2.7	3RZFE		55D23L 90D23L
VZJ90W/VZJ95W	04.96 - 09.02	6	3.4	5VZFE		55D26L 110D26L
VZJ90/95	04.96 - 01.03	6	3.4	5VZFE		55D26L 110D26L
RZJ90/95	10.96 - 08.04	4	2.7	3RZFE		55D23L 90D23L













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<b>KZJ95</b>	03.00 - 09.02	6	3.0	1KZTE (Diesel)	<b>95D31R</b>	<b>105D31R</b>
<b>RZJ120W/RZJ125W</b>	09.02 - 08.04	4	2.7	3RZFE	<b>55D23L</b>	<b>90D23L</b>
<b>KZJ120R</b>	09.02 - 10.06	4	3.0	1KDFTV (Diesel)	<b>95D31R</b>	<b>105D31R</b>
<b>KDJ120W/KDJ121W/ KDJ125W</b>	11.02 - 07.07	4	3.0	1KDFTV (Diesel)	<b>95D31L</b>	<b>105D31L</b>
<b>GRJ120</b>	03.03 - 08.09	6	4.0	1GRFE	<b>110D26L</b>	
<b>KZJ120L</b>	01.05 - 10.09	4	3.0	1KZTE (Diesel)	<b>95D31L</b>	<b>105D31L</b>
<b>GRJ150</b>	08.09 - 12.17	6	4.0	1GRFE	<b>110D26L</b>	
<b>KDJ150 / KDJ155</b>	08.09 - 12.17	4	3.0	1KDFTV (Diesel)	<b>95D31L</b>	<b>105D31L</b>
<b>Lexcen</b>						
<b>VN19, VN35</b>	06.89 - 08.91	6	3.8	VH	<b>22FR-550</b>	<b>22FR-680</b>
<b>VP19, VP35</b>	09.91 - 05.93	6	3.8	VH	<b>22FR-550</b>	<b>22FR-680</b>
<b>VR19, VR35</b>	06.93 - 04.95	6	3.8	VH	<b>22FR-550</b>	<b>22FR-680</b>
<b>VS19, VS35</b>	05.95 - 04.97	6	3.8	VH	<b>22FR-550</b>	<b>22FR-680</b>
<b>Liteace</b>						
<b>YM30G</b>	09.85 - 01.92	4	1.8	2YU	<b>55D26R</b>	<b>110D26R</b>
<b>YM40G</b>	10.85 - 01.92	4	2.0	3YU	<b>55D26R</b>	<b>110D26R</b>
<b>KM30</b>	08.88 - 01.92	4	1.5	5K	<b>55B24RS</b>	
<b>M3</b>	01.90 - 01.92	4	2.0	2YC	<b>55D26R</b>	<b>110D26R</b>
<b>Mark II</b>						
<b>GX81</b>	08.88 - 08.90	6	2.0	1GGTE; 1GGZE	<b>55D23L</b>	<b>90D23L</b>
<b>GX70G</b>	10.88 - 04.97	6	2.0	1GFE	<b>55D23L</b>	<b>90D23L</b>
<b>SX80/SX80Y</b>	08.90 - 12.95	4	1.8	4SFE	<b>55D23L</b>	<b>90D23L</b>
<b>JZX90</b>	10.92 - 09.96	6	2.5	1JZGE; 1JZGTE	<b>55D23L</b>	<b>90D23L</b>
<b>JZX91</b>	10.92 - 09.96	6	3.0	2JZGE	<b>55D23L</b>	<b>90D23L</b>
<b>LX90</b>	10.92 - 09.96	4	2.4	2LTE (Diesel)	<b>95D31L</b>	<b>105D31L</b>
<b>SX90</b>	10.92 - 09.96	4	1.8	4SFE	<b>55D23L</b>	<b>90D23L</b>
<b>LX100</b>	09.96 - 08.99	4	2.4	2LTE (Diesel)	<b>95D31L</b>	<b>105D31L</b>
<b>GX100</b>	09.96 - 10.00	6	2.0	1GFE	<b>90D23L</b>	
<b>JZX100</b>	09.96 - 10.00	6	2.5	1JZGE; 1JZGTE	<b>55D23L</b>	<b>90D23L</b>
<b>JZX101</b>	09.96 - 10.00	6	3.0	2JZGE	<b>55D23L</b>	<b>90D23L</b>
<b>JZX105</b>	09.96 - 10.00	6	2.5	1JZGE	<b>55D23L</b>	<b>90D23L</b>
<b>GX105</b>	08.98 - 10.00	6	2.0	1GFE	<b>55D23L</b>	<b>90D23L</b>
<b>GX110</b>	10.00 - 11.04	6	2.0	1GFE	<b>90D23R</b>	
<b>GX115</b>	10.00 - 11.04	6	2.0	1GFE	<b>90D23R</b>	
<b>JZX110</b>	10.00 - 11.04	6	2.5	1JZGTE	<b>90D23R</b>	
<b>JZX110W</b>	01.02 - 06.07	6	2.5	1JZFSE	<b>55D23R</b>	<b>90D23R</b>
				1JZGTE	<b>90D23R</b>	
<b>Masterace</b>						
<b>CR21G/CR28G</b>	08.87 - 01.92	4	2.0	2CT (Diesel)	<b>110D26R</b>	
<b>CR30G/CR37G</b>	08.87 - 01.92	4	2.0	2CT (Diesel)	<b>110D26R</b>	
<b>MR-S</b>						
<b>ZZW30</b>	10.99 - 07.07	4	1.8	1ZZFE	<b>55B24LS</b>	

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<b>MR2</b>								
SW20	12.89 - 08.99	4	2.0	3SGE; 3SGTE			55B24LS	
ZZW30	12.99 - 05.06	4	1.8	1ZZFE			55B24LS	
<b>Paseo</b>								
EL44	09.91 - 08.95	4	1.5	5EFE			22FR-550	22FR-680
EL54R	08.95 - 07.99	4	1.5	5EFE			22FR-550	22FR-680
<b>Prius</b>								
NHW11	09.00 - 08.03	4	1.5	1NZFXE			40B19L	
NHW20	09.03 - 03.09	4	1.5	1NZFXE			55B24R	
ZVW30	04.09 - 12.15	4	1.8	2ZRFXE			55B24R	
<b>Prius C</b>								
NHP10	09.11 - 08.16	4	1.5	1NZFXE			40B19R	
<b>Prius V</b>								
ZVW40	03.12→	4	1.8	2ZRFXE			55B24R	
<b>RAV4</b>								
SXA 11	04.94 - 08.00	4	2.0	3SFE		AG	55B24RS	
						GS	40B19RS	
ACA 20/21	05.00 - 07.03	4	2.0	1AZFE		AG	55B24RS	
						GS	40B19RS	
ACA 22/23	07.03 - 01.06	4	2.4	2AZFE			55D23R	90D23R
ACA33/38	11.05 - 11.12	4	2.4	2AZFE			55D23L	90D23L
ALA35	11.05 - 11.12	4	2.2	2ADFTV (Diesel)			95D31L	105D31L
GSA33/38	11.05→	6	3.5	2GRFE			55D26L	110D26L
ALA49	12.12→	4	2.2	2ADFTV (Diesel)			105D31L	
ZSA42	12.12→	4	2.0	3ZRFE			55D23L	90D23L
<b>RAV4 2.2 D-CAT 4X4</b>								
ALA49	12.12→	4	2.2	2ADFHV (Diesel)			110D26L	
<b>RAV4 2.4i</b>								
ACA36W	01.08 - 07.13	4	2.4	2AZFE			55D23L	90D23L
<b>Rukus</b>								
ZRE152N	10.07 - 01.16	4	1.8	2ZRFE			55B24L	
<b>Soarer</b>								
UZZ30/UZZ31/UZZ32	05.91 - 09.97	8	4.0	1UZFE			95D31L	105D31L
Z3	05.91 - 12.01	8	4.0	1UZFE			95D31L	105D31L
JZZ31	01.94 - 12.00	6	3.0	2JZGE			55D23L	90D23L
UZZ40	04.01 - 07.05	8	4.3	3UZFE			574.068	
<b>Soarer Turbo</b>								
JZZ30	05.91 - 12.00	6	2.5	1JZGTE			55D23L	90D23L
<b>Soarer Twin Turbo</b>								
Z3	05.91 - 12.01	6	2.5	1JZGTE			95D31L	105D31L
<b>Spacia</b>								
YR22	10.93 - 08.96	4	2.2	4YEC			40B19R	





◀ TOYOTA

<b>SR40G</b>	02.98 - 11.01	4	2.0	3SFE		<b>55D26R</b>	<b>110D26R</b>
<b>Starlet</b>							
<b>EP82</b>	12.89 - 01.96	4	1.3	4Efte		<b>40B19RS</b>	
<b>EP91</b>	01.96 - 07.99	4	1.3	4EFE	AG	<b>55B24RS</b>	
					GS	<b>40B19RS</b>	
				4Efte		<b>40B19RS</b>	
<b>Supra</b>							
<b>MA70</b>	08.88 - 04.93	6	3.0	7MGE; 7MGTE		<b>95D31R</b>	<b>105D31R</b>
<b>MA71</b>	10.88 - 04.93	6	3.0	7MGTE		<b>95D31R</b>	<b>105D31R</b>
<b>JZA80</b>	05.93 - 01.96	6	3.0	2JZGTE		<b>95D31R</b>	<b>105D31R</b>
	05.93 - 08.02	6	3.0	2JZGE		<b>55D23L</b>	<b>90D23L</b>
				2JZGTE		<b>55D23L</b>	<b>90D23L</b>
<b>Tarago</b>							
<b>YR31</b>	01.86 - 04.90	4	2.2	4YEC		<b>55D23R</b>	<b>90D23R</b>
<b>TCR10W/TCR11W</b>	05.90 - 01.98	4	2.4	2TZFE		<b>55B24LS</b>	
<b>TCR20W/TCR21W</b>	05.90 - 01.98	4	2.4	2TZFE		<b>55B24LS</b>	
<b>TCR10R</b>	05.90 - 12.00	4	2.4	2TZFE		<b>55D23L</b>	<b>90D23L</b>
<b>ACR30W</b>	02.00 - 01.06	4	2.4	2AZFE		<b>55D23L</b>	<b>90D23L</b>
<b>ACR50W</b>	01.06→	4	2.4	2AZFE		<b>55B24LS</b>	
<b>GSR50W</b>	01.06→	6	3.5	2GRFE		<b>55D26L</b>	<b>110D26L</b>
<b>Townace</b>							
<b>CR21G/CR28G</b>	08.87 - 09.93	4	2.0	2CT (Diesel)		<b>22FR-550</b>	<b>22FR-680</b>
<b>CR30G/CR37G</b>	08.87 - 09.93	4	2.0	2CT (Diesel)		<b>22FR-550</b>	<b>22FR-680</b>
<b>YR39</b>	04.92 - 12.96	4	2.0	3YC		<b>22FR-550</b>	<b>22FR-680</b>
<b>KR42V</b>	11.96 - 12.98	4	1.8	7K		<b>40B19RS</b>	
	12.98 - 12.03	4	1.8	7KE		<b>22FR-550</b>	<b>22FR-680</b>
<b>Yaris</b>							
<b>NCP92</b>	01.06 - 08.13	4	1.3	2NZFE		<b>40B19LS</b>	
<b>NCP93</b>	01.06 - 08.13	4	1.5	1NZFE		<b>55B24LS</b>	
<b>NCP131</b>	12.10→	4	1.5	1NZFE		<b>55B24LS</b>	
<b>NCP130</b>	08.11→	4	1.3	2NZFE		<b>55B24LS</b>	
<b>4-Runner</b>							
<b>YN63</b>	08.89 - 12.90	4	2.2	4YE		<b>55D23R</b>	<b>90D23R</b>
<b>RN130</b>	08.89 - 11.95	4	2.4	22R		<b>55D23R</b>	<b>90D23R</b>
<b>LN130</b>	10.89→	4	2.8	3L (Diesel)		<b>95D31R</b>	<b>105D31R</b>
<b>VZN130</b>	01.90 - 11.95	6	3.0	3VZE		<b>55D23R</b>	<b>90D23R</b>
<b>RN130</b>	08.90 - 08.95	4	2.4	22RE		<b>55D23L</b>	<b>90D23L</b>
<b>86</b>							
<b>ZN6</b>	04.12 - 12.16	4	2.0	FA20		<b>55B24RS</b>	

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## TVR

Cerbera						
	01.96 - 12.01	8	4.2	AJP8		110D26R
	01.97 - 12.01	8	4.5	AJP8		110D26R
Chimaera						
	03.92 - 12.96	8	3.9	Rover-V8 MPI-Lucas		110D26R
	01.97 - 12.02	8	4.5	Rover V8		110D26R
Griffith						
	03.90 - 12.02	8	5.0	J8T <Rover-V8 MPI-Lucas>		110D26R

## VOLVO

C30						
P14	10.06 - 07.07	5	2.5	B5254T3		LN3
					SSN	55457
	10.06 - 07.10	5	2.4	B5244S4		LN3
					SSN	55457
				D5244T13 (Diesel)		LN3
					SSN	58014
	10.06 - 09.10	4	2.0	D4204T (Diesel)		LN3
	10.06 - 07.11	4	1.6	D4164TDRIVE (Diesel)	BWD,	LN3
08.07 →	5	2.5	B5254T7		LN3	
C70						
	09.97 - 03.06	5	2.3	B5234T3; B5234T9		56638 574.068
	03.99 - 07.02	5	2.4	B5244S; B5244T		56638 574.068
C70 II						
	03.06 - 07.07	5	2.5	B5254T3		LN3
	03.06 - 07.10	5	2.4	B5244S4		LN3
	08.07 - 12.13	5	2.5	B5254T7	BWD,	LN3
S40						
	02.97 - 01.04	4	2.0	B4204S; B4204S2; B4204T; B4204T3; B4204T5		56318 575.068
	05.97 - 07.00	4	1.9	B4194T; B4194T2; B4204T2		56318 575.068
	08.99 - 01.04	4	1.8	B4184S2		56318 575.068
P11	12.03 - 07.07	5	2.5	B5254T3		575.068
	03.06 - 07.10	5	2.4	D5244T13 (Diesel)		58014
S40 II						
P11	12.03 - 07.10	5	2.4	B5244S4		575.068
	01.04 - 07.10	4	2.0	D4204T (Diesel)		58014
	08.07 - 12.12	5	2.5	B5254T7		575.068
S60						
	11.00 - 03.04	5	2.3	B5234T3		56638 574.068
	11.00 - 07.09	5	2.4	B5244S; B5244T3		56638 574.068
	03.03 - 07.09	5	2.5	B5254T2; B5254T4		56638 574.068















◀ VOLVO

S60 II D4						
	08.11 - 07.15	5	2.0	D5204T3 (Diesel)		58014
S60 II T6 AWD						
	08.10 - 07.16	6	3.0	B6304T4		575.068
S70						
	01.97 - 07.00	5	2.3	B5234T3		56318
			2.4	B5244S2; B5254S; B5254T		56318
S80						
	06.98 - 07.99	6	2.9	B6304S3		56638
	09.98 - 08.01	6	2.8	B6284 T		56318
	08.01 - 07.06	6	2.9	B6294T		60038
	08.03 - 07.06	5	2.5	B5254T2		56638
S80 II						
	03.06 - 12.10	8	4.4	B8444S		574.068
	03.06 - 07.11	5	2.4	D5244T4 (Diesel); D5244T10 (Diesel)		58014
	08.06 - 07.10	6	3.2	B6324S		574.068
						575.068
	01.07 - 08.16	6	3.0	B6304T2; B6304T4		575.068
S90						
	01.97 - 05.98	6	2.9	B6304S		574.068
V40						
	02.97 - 04.04	4	2.0	B4204S; B4204S2; B4204T		56318
	05.97 - 07.00	4	1.9	B4194T; B4194T2; B4204T2		56318
	08.99 - 04.04	4	1.8	B4184S2		56318
	08.01 - 04.04	4	2.0	B4204T3		574.068
V40 II T4						
	09.12 - 08.15	5	2.0	B5204T8	START STOP	LN3
V50						
P12						
	04.04 - 07.10	4	2.0	D4204T (Diesel)		58014
		5	2.4	B5244S4		575.068
	04.04 - 12.12	5	2.5	B5254T3; B5254T7		575.068
	04.06 - 07.10	5	2.4	D5244T13 (Diesel)		58014
V60 D4						
	09.11 - 08.15	5	2.0	D5204T3 (Diesel)		58014
V60 D5 AWD						
	09.10 - 08.11	5	2.4	D5244T10 (Diesel)		58014
V60 3.0 T6 AWD						
	09.10 - 08.16	6	3.0	B6304T4; B6304T5		575.068

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<b>V70</b>								
	01.97 - 03.00	5	2.3	B5234T3			<b>56318</b>	<b>575.068</b>
			2.4	B5254S; B5254T			<b>56318</b>	<b>575.068</b>
<b>V70 II</b>								
	03.00 - 07.03	5	2.4	B5244T3			<b>56219</b>	
	03.00 - 07.04	5	2.3	B5234T3			<b>574.068</b>	
	03.00 - 07.07	5	2.4	B5244S			<b>574.068</b>	
	03.03 - 07.07	5	2.5	B5254T2; B5254T4			<b>574.068</b>	
<b>V70 III</b>								
	08.07 - 07.10	6	3.0	B6304T2			<b>58014</b>	
<b>V70 III T6 AWD</b>								
	08.10 - 07.15	6	3.0	B6304T4			<b>58014</b>	
<b>V90</b>								
	01.97 - 07.98	6	2.9	; B6304S			<b>574.068</b>	
<b>XC60</b>								
	03.09 - 07.10	6	3.0	B6304T2			<b>574.068</b>	
	03.09 - 07.11	5	2.4	D5244T4 (Diesel); D5244T10 (Diesel)			<b>574.068</b>	
	08.10 - 09.13	6	3.2	B6324S4			<b>LN3</b>	
	08.13 - 02.17	4	2.0	B4204T11			<b>LN3</b>	
<b>XC60 D4 AWD</b>								
	08.15 - 02.17	5	2.4	D5244T21 (Diesel)			<b>575.068</b>	
<b>XC60 D5 AWD</b>								
	08.14 - 02.17	5	2.4	D5244T2... (Diesel); D5244T23 (Diesel)			<b>575.068</b>	
<b>XC60 T6 AWD</b>								
	08.14 - 02.17	6	3.0	B6304T3			<b>575.068</b>	
<b>XC70</b>								
	08.02 - 07.07	5	2.5	B5254T2			<b>574.068</b>	
	08.04 - 07.07	5	2.4	B5244T4			<b>574.068</b>	
	08.07 - 07.09	5	2.4	D5244T4 (Diesel)			<b>58014</b>	
<b>XC70 II</b>								
	08.07 - 07.10	6	3.2	B6324S			<b>58014</b>	
	08.09 - 07.15	5	2.4	D5244T10 (Diesel); D5244T15 (Diesel)			<b>58014</b>	
	08.10 - 07.15	6	3.0	B6304T4			<b>58014</b>	
<b>XC70 II 3.2 AWD</b>								
	08.10 - 07.15	6	3.2	B6324S5			<b>58014</b>	
<b>XC90</b>								
	10.02 - 08.12	5	2.5	B5254T2			<b>56638</b>	<b>574.068</b>
	01.03 - 07.06	6	2.9	B6294T			<b>56638</b>	<b>574.068</b>
	03.05 - 12.10	8	4.4	B8444S			<b>56638</b>	<b>574.068</b>
	05.05 - 07.15	5	2.4	D5244T4 (Diesel); D5244T18 (Diesel)			<b>60038</b>	
	08.06 - 07.15	6	3.2	B6324S; B6324S5			<b>60038</b>	













◀ VOLVO

XC90 II D5 AWD						
	06.15 - 07.16	4	2.0	D4204T11 (Diesel)		60038
XC90 II T6 AWD						
	06.15→	4	2.0	B4204T27		575.068
240 Series						
	08.88 - 07.93	4	2.3	B230F; B230F Kat.	55D26R	110D26R
440						
	10.93 - 12.96	4	2.0	B20F Kat.	55457	560.060
740						
	08.84 - 10.92	4	2.3	B230E; B230F Kat.; B230FT Kat.; B234F Kat.	56219	
760						
	05.86 - 11.90	6	2.8	B280F Kat.	56638	574.068
850						
	09.91 - 07.97	5	2.4	B5252S Kat.; B5254S Kat.; B5254T Kat.	56638	574.068
	09.93 - 07.97	5	2.3	B5234FT Kat.; B5234T5	56638	574.068
940						
	12.90 - 12.93	4	2.3	B230FT Kat.; B234F Kat.	56638	574.068
	06.91 - 12.96	4	2.3	B230F Kat.; B230FK Kat.	56219	
960						
	09.90 - 07.91	6	2.8	B280F Kat.	56638	574.068
	12.91 - 02.97	6	3.0	B6304FS Kat.	56638	574.068

**VW (VOLKSWAGEN)**

Amarok						
2H, S1	09.10 - 10.12	4	2.0	CDBA <D45> (Diesel); CDCA <D46> (Diesel)		60038
	12.10 - 10.16	4	2.0	CFPA <DF0>		575.068
	11.11 - 10.16	4	2.0	CSHA <D49> (Diesel)		575.068
	06.12 - 10.16	4	2.0	CNFB <D91> (Diesel)		60038
Amarok 4Motion						
2H, S1	11.11 - 10.16	4	2.0	CSHA <D49> (Diesel)		60038
						LN5
Beetle						
5C1	07.12 - 06.16	4	1.4	CTHD <D4L>		560.060
Bora						
1J2	09.98 - 05.05	4	2.0	APK		56219
		5	2.3	AGZ; AQN		56219
		6	2.8	AUE; BDE		56219
1J6	05.00 - 02.01	5	2.3	AGZ		56219

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<b>Bus</b>							
24, 25	08.85 - 07.92	4	2.1	MV		55457	560.060
<b>Caddy</b>							
2K	02.04 - 08.10	4	1.9	BJB <D3W> (Diesel); BLS <D3W> (Diesel)		574.068	
	06.04 ->	4	1.6	BGU		55457	560.060
<b>Caddy 1.4 TSI</b>							
SA	05.15 ->	4	1.4	CZCB <D33>		560.060	
<b>Caddy 1.6 TDI</b>							
2C	08.10 - 05.15	4	1.6	CAYD <D27> (Diesel)		560.060	
<b>Caddy 2.0 TDI</b>							
2C	11.10 - 05.15	4	2.0	CFHC <D91> (Diesel)		575.068	
<b>Caddy 2.0 TDI 4Motion</b>							
2C	11.10 - 05.15	4	2.0	CFHC <D91> (Diesel)		560.060	
<b>California</b>							
7H	06.03 - 11.09	4	2.0	AXA <MOR>		58014	
<b>Caravelle</b>							
256	06.87 - 12.91	5	2.1	DJ		55457	560.060
70, 7D	09.90 - 06.03	4	2.0	AAC		55457	560.060
	11.90 - 12.93	5	2.5	AAF		55457	560.060
	07.93 - 05.05	5	2.5	AET		58014	
70, 7D	07.94 - 10.96	5	2.5	ACU		55457	560.060
	07.95 - 06.03	5	2.5	ACV (Diesel)		60038	
	08.96 - 06.03	5	2.5	AET		58014	
	05.00 - 06.03	6	2.8	AMV		58014	
7H	01.06 - 11.09	5	2.5	BNZ (Diesel); BPC (Diesel)		58014	
7E	09.09 - 08.15	4	2.0	CCHA <D91> (Diesel)		58014	
<b>Crafter 35</b>							
2E, 2F	04.06 - 05.13	5	2.5	BJK <D5L> (Diesel); BJL <D5M> (Diesel); BJM <D5N> (Diesel)		574.068	
<b>Crafter 35 2.0 BiTDI</b>							
2E, 2F	07.11 - 12.16	4	2.0	CKUB <D92> (Diesel); CKUC <D46> (Diesel)		575.068	
<b>Crafter 35 2.0 TDI</b>							
2E, 2F	05.11 - 12.16	4	2.0	CKTB <DK2> (Diesel)		575.068	
<b>Crafter 35 2.5 TDI</b>							
2E, 2F	04.06 - 05.13	5	2.5	BJJ <D5K> (Diesel); CECA <D5M> (Diesel)		575.068	
<b>Crafter 50</b>							
2E, 2F	04.06 - 05.13	5	2.5	BJK <D5L> (Diesel); BJL <D5M> (Diesel); BJM <D5N> (Diesel)		574.068	
<b>Crafter 50 2.0 BiTDI</b>							
2E, 2F	10.11 - 12.16	4	2.0	CKUC <D46> (Diesel)		575.068	





◀ VW

**Crafter 50 2.5 TDI**

**2E, 2F**      05.09 - 05.13      5      2.5      CECA <D5M> (Diesel)      **575.068**

**Eos**

**1F7**      05.08 - 11.10      4      2.0      CAWB <D2L>; CCZB <D2D>      **560.060**

**Eos 2.0 TDI**

**1F8**      11.10 - 08.15      4      2.0      CFFB <D91> (Diesel)      **560.060**

**Eos 2.0 TSI**

**1F8**      11.10 - 08.15      4      2.0      CCZB <D2D>      **560.060**

**Golf II**

**19, 1G**      07.90 - 11.92      4      1.8      RV      **55457**      **560.060**

**Golf III**

**1H1**      09.93 - 07.96      4      1.9      1Z (Diesel)      **56318**      **575.068**

04.94 - 12.97      4      2.0      ADY; 2E      **55457**      **560.060**

6      2.8      AAA      **56318**      **575.068**

**1E7**      02.95 - 04.98      4      2.0      ADY; AGG      **55457**      **560.060**

**1H1**      10.95 - 12.97      4      1.8      ADZ      **55457**      **560.060**

**Golf IV**

**1J1**      08.97 - 05.03      4      1.8      AGN; AGU      **56219**

10.97 - 05.04      4      1.6      AEH; AKL; AVU      **56219**

**1E7**      04.98 - 12.01      4      2.0      AGG      **55457**      **560.060**

**1J1**      08.98 - 05.04      4      2.0      APK      **56219**

09.98 - 08.01      4      2.0      AEG      **54316**

10.03 - 05.04      6      3.2      BML      **55457**      **560.060**

**Golf Plus 2.0 FSI**

**5M1**      05.05 - 11.05      4      2.0      BLR      **560.060**

**Golf V**

**1K1**      10.03 - 11.08      4      1.9      BKC (Diesel); BXE <D3W> (Diesel)      **574.068**

2.0      AXX; BKD (Diesel); BMM <D7N> (Diesel); BMN (Diesel)      **574.068**

01.04 - 05.05      4      1.6      BGU      **55066**

05.05 - 07.07      4      1.6      BGU      **55457**      **560.060**

11.05 - 07.07      6      3.2      BUB <D6D>      **58014**

11.05 - 11.08      4      1.4      BLG      **55066**

**1K5**      05.07 - 03.09      4      2.0      BWA <D2L>      **574.068**

**Golf VI**

**5K1**      10.08 - 11.12      4      1.4      CAVD <D4L>      **574.068**

CAXA <D4X>      SSN      **574.068**

2.0      CBAB <D91> (Diesel); CFFB <D91> (Diesel)      **56219**

12.08 - 11.12      4      1.6      CAYC <D38> (Diesel)      **BWD, <sup>START</sup> LN3**

SSN      **56219**

05.09 - 11.12      4      1.2      CBZB <DB0>      **BWD, <sup>START</sup> LN3**

**\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.**





Model	Year Range	Cyl.	CC	Engine Code	Start/Stop	Price
<b>Golf VI GTD</b>						
5K1	04.09 - 05.10	4	2.0	CBBB <D93> (Diesel)		560.060
	11.09 - 11.12	4	2.0	CFGB <D93> (Diesel)		56219
<b>Golf VI GTI</b>						
5K1	04.09 - 11.12	4	2.0	CCZB <D2D>		574.068
<b>Golf VI GTI 35</b>						
5K1	05.11 - 11.12	4	2.0	CDLG <DP8>		560.060
<b>Golf VI R</b>						
5K1	11.09 - 11.12	4	2.0	CDLC <D81>		574.068
<b>Golf VI Variant</b>						
AJ5	07.09 - 04.13	4	1.6	CAYC <D38> (Diesel)	START/STOP	LN3
				SSN		56219
			2.0	CBDA <D94> (Diesel); CFHC <D91> (Diesel)		56219
<b>Golf VI 2.0 TDI Variant</b>						
AJ5	07.09 - 04.13	4	2.0	CBDB <D91> (Diesel)		575.068
<b>Golf VII</b>						
5G1	11.12 - 12.13	4	1.4	CMBA <D4X>	START/STOP	LN3
BA5	04.13 - 03.17	4	2.0	CRBC <DN4> (Diesel)	START/STOP	LN3
	05.13 - 03.17	4	1.4	CXSA <D4X>	START/STOP	LN3
<b>Golf VII GTI</b>						
5G1	04.13 - 03.17	4	2.0	CHHB <D60>	START/STOP	LN3
<b>Golf VII R</b>						
5G1	11.13 - 03.17	4	2.0	CJXB <DF5>	START/STOP	LN3
<b>Golf VII TDI</b>						
5G1	11.12 - 05.15	4	2.0	CRBC <DN4> (Diesel)	START/STOP	LN3
<b>Golf VII 1.4 TSI</b>						
5G1	05.14 - 03.17	4	1.4	CZCA <D33>; CZDA <DG6>		575.068
<b>Golf VII 1.4 TSI Variant</b>						
BA5	05.14 - 03.17	4	1.4	CZCA <D33>; CZDA <DG6>	START/STOP	LN3
<b>Golf 1.8 TFSI Alltrack 4Motion</b>						
BA5	12.14 - 03.17	4	1.8	CJSB <DF4>		560.060
<b>Jetta</b>						
1K2	08.05 - 06.08	4	2.0	BKD (Diesel); BMM <D7N> (Diesel)		574.068
1K6	03.06 - 07.11	4	2.0	AXX; BKD (Diesel); BVX		574.068
1K2	04.08 - 10.10	4	2.0	CCTA <D2L>		560.060
				CAVD <D4L>		560.060
					CEGA <D93> (Diesel)	
	07.09 - 10.10	4	1.6	CAYC <D38> (Diesel)		560.060
163	08.14 - 12.17	4	1.4	CTHD <D4L>		575.068
<b>Jetta V</b>						
1K6	03.06 - 07.11	4	2.0	BVZ		574.068



◀ VW

**Jetta VI**

162	10.10 - 07.14	4	2.0	CFFB <D91> (Diesel)	575.068	
	04.11 - 12.12	4	1.4	CAVD <D4L>	568.060	574.068
					56638	574.068
					LN3	



**Jetta 2.0 FSI**

1K2	12.05 - 06.08	4	2.0	BVY	560.060	
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**Jetta 2.0 TDI**

1K2	07.08 - 10.10	4	2.0	CBDB <D91> (Diesel)	575.068	
163	08.14 - 12.17	4	2.0	CFFB <D91> (Diesel)	575.068	

**LT**

2D, 2H	05.99 - 04.06	5	2.5	ANJ (Diesel)	60038	
	02.02 - 04.06	4	2.8	AUH (Diesel)	58014	

**Multivan**

7H	02.03 - 11.09	5	2.5	AXE (Diesel)	60038	
	05.03 - 11.09	6	3.2	BKK	574.068	
7E	09.09 - 08.15	4	2.0	CAAC <D94> (Diesel); CFCA <D49> (Diesel)	575.068	

**Multivan T5 2.0 TDI**

7E	09.09 - 08.15	4	2.0	CCHA <D91> (Diesel)	575.068	
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**Multivan T5 2.0 TSI**

7E	05.11 - 08.15	4	2.0	CJKA <DF9>	58014	
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**Multivan 4Motion**

7E	09.09 - 08.15	4	2.0	CFCA <D49> (Diesel)	575.068	
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**New Beetle**

1C1, 9C1	01.98 - 06.05	4	2.0	AEG; AQY	55457	560.060
1Y7	01.03 - 06.06	4	2.0	BGD	56219	
1C1, 9C1	07.05 - 12.10	4	1.9	BSW <D3W> (Diesel)	574.068	














**New Beetle Cabriolet**

1Y7	01.03 - 09.10	4	2.0	AZJ <MR4>	56219	
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**Passat**

312,35I,3A2	07.95 - 03.97	4	2.0	AGG	55457	560.060
	08.95 - 03.97	6	2.8	AAA	58014	
3B2	10.96 - 11.00	4	1.8	ADR; AEB; ANB; APT; APU; ARG	56219	
		5	2.3	AGZ	56318	575.068
	01.97 - 11.00	6	2.8	ACK; ALG	56318	575.068
3B5	06.97 - 11.00	6	2.8	ACK; ALG	574.068	
	09.97 - 11.00	5	2.3	AGZ	574.068	
	01.99 - 11.00	4	1.8	ANB; APT; APU; ARG	56219	
3B3	10.00 - 05.05	4	1.8	AWT	56219	
		5	2.3	AZX	56219	
		6	2.8	AMX	56219	

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.

									
<b>3B3</b>	10.00 - 05.05	6	2.8	BBG			<b>574.068</b>		
							<b>56219</b>		
	05.02 - 09.04	8	4.0	BDN			<b>58014</b>		
<b>3C2</b>	03.05 - 07.10	4	2.0	BKP (Diesel); BMR (Diesel); CBAB <D91> (Diesel); CBBB <D93> (Diesel)			<b>574.068</b>		
<b>3C5</b>	08.05 - 06.08	4	2.0	BKP (Diesel)			<b>574.068</b>		
	11.05 - 02.08	4	2.0	BWA <D2L>			<b>55066</b>		
<b>362</b>	01.11 - 12.14	6	3.6	BWS <D34>			<b>58014</b>		
<b>Passat Alltrack</b>									
<b>365</b>	01.13 - 12.14	4	2.0	CFGC <DE2> (Diesel)			<b>LN3</b>		
<b>Passat CC</b>									
<b>357</b>	08.08 - 11.10	4	2.0	CBBB <D93> (Diesel)			<b>LN3</b>		
<b>Passat R36</b>									
<b>3C2</b>	04.07 - 07.10	6	3.6	BWS <D34>			<b>574.068</b>		
<b>Passat R36 Variant</b>									
<b>3C5</b>	04.07 - 11.10	6	3.6	BWS <D34>			<b>575.068</b>		
<b>Passat Variant</b>									
<b>3C5</b>	08.05 - 06.08	4	2.0	BMR (Diesel)			<b>574.068</b>		
	05.07 - 11.10	4	1.8	BZB <D67>			<b>575.068</b>		
	01.08 - 11.10	4	2.0	CBAB <D91> (Diesel); CBBB <D93> (Diesel)			<b>575.068</b>		
<b>Passat Variant 4Motion</b>									
<b>3C5</b>	11.05 - 11.10	6	3.2	AXZ <D6F>			<b>60038</b>		
<b>Passat 2.0 TDI</b>									
<b>362</b>	08.10 - 12.14	4	2.0	CFGB <D93> (Diesel)			<b>LN3</b>		
<b>Passat 2.0 TDI Variant</b>									
<b>365</b>	08.10 - 12.14	4	2.0	CFGB <D93> (Diesel)			<b>LN3</b>		
<b>Passat 4Motion</b>									
<b>3C2</b>	09.05 - 07.10	6	3.2	AXZ <D6F>			<b>574.068</b>		
<b>Polo</b>									
<b>6N1</b>	10.96 - 12.99	4	1.6	AEE			<b>54316</b>		
<b>6N2</b>	01.99 - 09.01	4	1.4	AHW			<b>56219</b>		
<b>9N1</b>	09.01 - 05.04	4	1.4	BBY			<b>55066</b>		
<b>9N2</b>	07.03 - 05.07	4	1.4	BBY			<b>55066</b>		
<b>9N3</b>	04.05 - 12.09	4	1.4	BBZ; BUD <D4W>			<b>55066</b>		
				1.9	AXR (Diesel)			<b>574.068</b>	
	05.06 - 12.09	4	1.6	BTS			<b>55066</b>		
	08.06 ->	4	1.6	BAH <EA111>			<b>54316</b>		
<b>6R1</b>	06.09 - 02.14	4	1.2	CBZB <DB0>			<b>560.060</b>		
				1.4	CGGB <D22>			<b>56219</b>	
				1.6	CAYB <D36> (Diesel)			<b>LN3</b>	
<b>Polo GTI</b>									
<b>9N3</b>	09.05 - 11.09	4	1.8	BJX			<b>574.068</b>		



								
◀ VW								
<b>6R1</b>	05.10 - 09.12	4	1.4	CAVE <D32>			<b>LN3</b>	
<b>Polo 1.2 TSI</b>								
<b>6C1</b>	02.14 - 10.17	4	1.2	CJZC <DB7>			<b>560.060</b>	
				CJZD <DB8>			<b>575.068</b>	
<b>Polo 1.4 GTI</b>								
<b>6R1</b>	09.12 - 05.14	4	1.4	CTHE <D32>			<b>LN2</b>	
<b>Polo 1.8 GTI</b>								
<b>6C1</b>	11.14 - 10.17	4	1.8	DAJB <D10>			<b>560.060</b>	
<b>Scirocco R</b>								
<b>137</b>	11.09 - 05.14	4	2.0	CDLC <D81>			<b>56219</b>	
<b>Tiguan</b>								
<b>5N1</b>	11.07 - 05.11	4	2.0	CCTA <D2L>			<b>560.060</b>	
<b>5N2</b>	05.11 - 09.12	4	1.4	CAVD <D4L>			<b>LN3</b>	
	09.12 - 12.16	4	1.4	CTHD <D4L>			<b>LN4</b>	
<b>Tiguan 2.0 TDI</b>								
<b>5N2</b>	05.11 - 12.16	4	2.0	CFFB <D91> (Diesel)			<b>LN3</b>	
<b>Tiguan 2.0 TSI 4Motion</b>								
<b>5N2</b>	05.11 - 12.16	4	2.0	CAWA <D6G>			<b>560.060</b>	
<b>Tiguan 4Motion</b>								
<b>5N1</b>	11.07 - 05.11	4	2.0	CBAB <D91> (Diesel)			<b>574.068</b>	
	03.08 - 11.09	4	2.0	CAWA <D6G>			<b>56219</b>	
	11.09 - 05.11	4	2.0	CCZA <D2L>; CCZC <D6G>			<b>56219</b>	
<b>5N2</b>	05.11 - 12.16	4	2.0	CCZB <D2D>; CCZD <D64>			<b>560.060</b>	
				CFFB <D91> (Diesel)			<b>DIN LN3</b>	
<b>Touareg</b>								
<b>7LA</b>	11.02 - 11.06	6	3.2	AZZ; BMV			<b>58014</b>	
		10	5.0	AYH (Diesel); BLE (Diesel)			<b>60038</b>	
	12.02 - 11.06	8	4.2	AXQ; BHX			<b>60038</b>	
	01.03 - 11.06	5	2.5	BAC (Diesel)			<b>60038</b>	
	11.04 - 11.06	6	3.0	BKS (Diesel)			<b>LN5</b>	
	08.05 - 11.06	6	3.6	BHK			<b>58014</b>	
	01.06 - 11.06	5	2.5	BPE (Diesel)			<b>575.068</b>	
<b>7L6</b>	12.06 - 05.08	6	3.0	BKS (Diesel)			<b>LN5</b>	
	12.06 - 05.10	5	2.5	BPE (Diesel)			<b>575.068</b>	
		6	3.6	BHK			<b>58014</b>	
		10	5.0	BLE (Diesel)			<b>60038</b>	
	01.08 - 05.10	6	3.0	CASC (Diesel)			<b>574.068</b>	
<b>7P5</b>	05.11 - 12.14	6	3.0	CJMA (Diesel)			<b>LN5</b>	
				CRCA <D43> (Diesel)			<b>60038</b>	
<b>Touareg R50</b>								
<b>7L6</b>	08.07 - 05.10	10	5.0	CBWA (Diesel)			<b>60038</b>	

\* Bosch recommend the use of a diagnostic tool (E.g.. Bosch KTS Series) when replacing the Batteries in vehicles with Electronic Battery Management systems.

**Touareg 3.0 TDI**

<b>7P6</b>	08.14→	6	3.0	CRCA <D43> (Diesel)		<b>LN5</b>
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**Touran 2.0 FSI**


<b>1T1</b>	05.04 - 11.05	4	2.0	BLR; BLX		<b>560.060</b>
<b>1T2</b>	11.06 - 01.07	4	2.0	BVY		<b>560.060</b>

**Transporter**









<b>70, 7D</b>	09.90 - 09.98	5	2.4	AAB (Diesel)		<b>60038</b>
	09.90 - 06.03	4	2.0	AAC		<b>55457</b> <b>560.060</b>
	11.90 - 10.96	5	2.5	AAF; ACU		<b>56318</b> <b>575.068</b>
	07.95 - 06.03	5	2.5	ACV (Diesel)		<b>60038</b>
	08.96 - 06.03	5	2.5	AET		<b>58014</b>
	05.99 - 06.03	5	2.5	AUF (Diesel); AXL (Diesel); AYC (Diesel)		<b>60038</b>
<b>7H</b>	02.03 - 11.09	5	2.5	AXD (Diesel)		<b>58014</b>
				AXE (Diesel)		<b>58014</b>
	04.03 - 11.09	4	1.9	AXB (Diesel); AXC (Diesel)		<b>58014</b>
<b>7J</b>	04.03 - 11.09	4	1.9	AXB (Diesel)		<b>58014</b>
		5	2.5	AXD (Diesel); AXE (Diesel)		<b>60038</b>
<b>7H</b>	05.03 - 11.09	6	3.2	BKK		<b>574.068</b>
	07.04 - 11.09	5	2.5	AXE (Diesel)		<b>60038</b>
<b>7E</b>	09.09 - 08.15	4	2.0	CAAB <D55> (Diesel); CAAC <D94> (Diesel); CFCA <D49> (Diesel)		<b>58014</b>
<b>7F</b>	09.09 - 08.15	4	2.0	CFCA <D49> (Diesel)		<b>58014</b>
<b>Transporter T5 2.0 TDI</b>						
<b>7F</b>	09.09 - 08.15	4	2.0	CAAC <D94> (Diesel)		<b>58014</b>
<b>up!</b>						
<b>121</b>	12.11 - 07.16	3	1.0	CHYB <DG2>		<b>55065</b>
<b>Vento</b>						
<b>1H2</b>	07.95 - 03.97	4	2.0	AGG		<b>56219</b>



# B136 Special Cases

<b>AA</b>	All-wheel drive
<b>AG</b>	For vehicles with automatic transmission
<b>AGM</b>	Only use AGM (Absorbent Glass Mat) battery for this vehicle
<b>BWD</b>	Attention: Battery replacement must be entered in control unit with diagnostic tester, e.g. KTS Series.
<b>GS</b>	For vehicles with manual transmission
<b>JBR</b>	Confirmation of the tray size is necessary
<b>KZN</b>	Not for cold climates
<b>SCR</b>	Hatchback
<b>SED</b>	For SEDAN model
<b>SSJ</b>	 For vehicles with Start-Stop function
<b>SSN</b>	For vehicles without Start-Stop function
<b>TW</b>	The product fitted must be identified on the vehicle or engine
<b>WW</b>	Optional
<b>YQ4</b>	74 A
<b>ZE</b>	Two required

## Logos

	No requirement for checking electrolyte fluid
	Passenger Vehicles
	For engines with Start-Stop technology
	Trucks and Buses
	Deep Cycle and Reserve Power
	Marine
	Light Commercial Vehicles
	4x4 and SUVs

Find out more at:

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

#### Disclaimer

For exact fitment, always check specifications against original battery prior to installation.

Whilst every care has been taken in the preparation of this content, Bosch cannot guarantee the accuracy of this information. This serves as an application reference only and is not a full representation of all Start-Stop vehicles in the country.



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