

# ENGINE & SUSPENSION

*Parts Specialists*



## AUSTRAL

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# Pistons + Rings

All pistons available from Austral are manufactured under the highest standards and strict quality control procedures.

Where required, surface coatings are correctly applied to the piston crown or skirt.

Anodizing of the piston crown creates a hard surface, providing extra protection during fitting and long-term wear.

Pistons skirts, when Moly coated produce less frictional heat and reduces cylinder bore wear.



**CLEVITE**



# Rings

Austral stock five (5) brands of Piston Rings to cover petrol and diesel engines. Ring selection for the modern engines is critical, due to the variety of ring types, ring widths and radial depth (ring thickness) options.

The combination of the following International brands, gives Austral the ability to service the engine reconditioning industry.





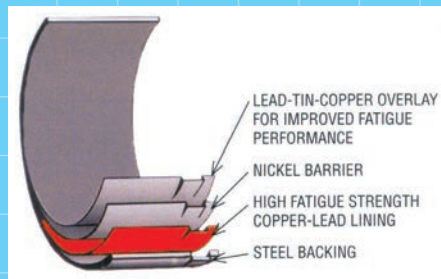
# Engine Bearings

Quality engine bearings are an essential replacement part of the engine. The OEM and Performance industry have set the benchmark quality standards for this product.



The new generation engine bearings are made from a combination of aluminium, tin and silicone mix which has proven to be a successful formula for both OEM and aftermarket application. They are able to maintain the load carrying capacity for modern engines and have excellent wear properties, to extend life.

Tri-metal bearings are still available and provide higher strength with the ability to withstand harsher operating conditions, under heavier loads. Tri-metal bearings are used in many O.E. applications and are still the preferred bearings for performance applications.



**CLEVITE**





# Gaskets & Gasket Sets

Austral market and sell five (5) quality brand Gasket sets from international manufacturers. The brands are Ajusa, Clevite, G-Torque, Permaseal and Stone.



are one of the largest independent gasket manufacturers in the world. They service an international market from their worldwide headquarters in Spain. They are supported with the Company owned distribution centres in Brazil, Mexico, North America and the United Kingdom. Austral is the authorised distributor for Australia.



brand gaskets are a long term and respected manufacturer in the United States with representation in 23 countries. They are at the forefront of the automotive industry in the USA as an OEM and aftermarket supplier. Austral source product for American and European models from Clevite.



gaskets are manufactured in Taiwan by the THG Gasket Company. They service world markets with gaskets and gasket sets. This gasket range is designed to service a specific need as a price point alternative. G-Torque is recognised as a quality brand by engine reconditioners and parts resellers.



Manufactured by AA Gaskets in Victoria, Australia, Permaseal offer high quality gaskets and gasket sets for standard applications to suit passenger cars, SUV and off road models.



brand gaskets are an OEM and aftermarket gasket supplier with world class manufacturing facilities in Japan and Singapore. Established in 1923, Stone gaskets specialise in gaskets and seals for Japanese and Korean engines.



# Gaskets & Gasket Sets

**G-TORQUE** gaskets are manufactured in Taiwan by THG gasket company who service world markets with quality gaskets and components. We market G-Torque in our unique packaging, which compliments the quality of the gaskets.

**Quality gaskets rarely fail in operation and the causes are usually impacted by other common factors, such as:**

- Soft or distorted cylinder head
- Non oiled, NEW head bolts
- Incorrect timing
- Faulty torque wrench
- Cylinder Head – over machined
- Reuse of OLD head bolts
- Faulty cooling system

The assembler should take extra care during dis-assembly to identify probable cause.



## **SINGLE GASKETS + OIL SEALS**

**CYLINDER HEAD, VALVE COVER, MANIFOLD – Intake, Exhaust, TIMING COVER, OIL PAN – Sump, THERMOSTAT, WATER PUMP.**

## **OIL SEAL RANGE**

**CAM SHAFT, CRANKSHAFT FRONT, CRANKSHAFT REAR, VALVE STEMS**

Not all engine repairs require a gasket set to effect an external repair and Austral carry a vast range of single gaskets and oil seals for this market.







# Cylinder Head Bolts

## TORQUE TO YIELD

Through education and the experience with gasket failures, the automotive industry has accepted this advanced technical process, that bolt replacement is necessary to ensure the cylinder head tensioning procedure is correct to prevent combustion and/or coolant leakage.

**Torque to Yield Bolts** – stretch and become elongated and will remain in that state.

AUSTRAL'S golden rule is – **NO BOLTS - NO WARRANTY**



are the primary supplier of the Torque to Yield Head Bolts supported by our own Austral brand Ford Bolts.

**CLEVITE** also supply a range of both T.T.Y. and Conventional Bolts for many American and global engines.

## CONVENTIONAL HEAD BOLTS

There are many old and new engines that still use conventional cylinder head bolts. Austral also cater for this market with a wide range of head bolts for many engines.

We recommend replacement of conventional head bolts for high stress and high mileage engines or, after multiple head removals. Replacement is also recommended for engines that have suffered overheating problems.

**Conventional Head Bolts** – Stretch and when relaxed [undone] return to their original length.



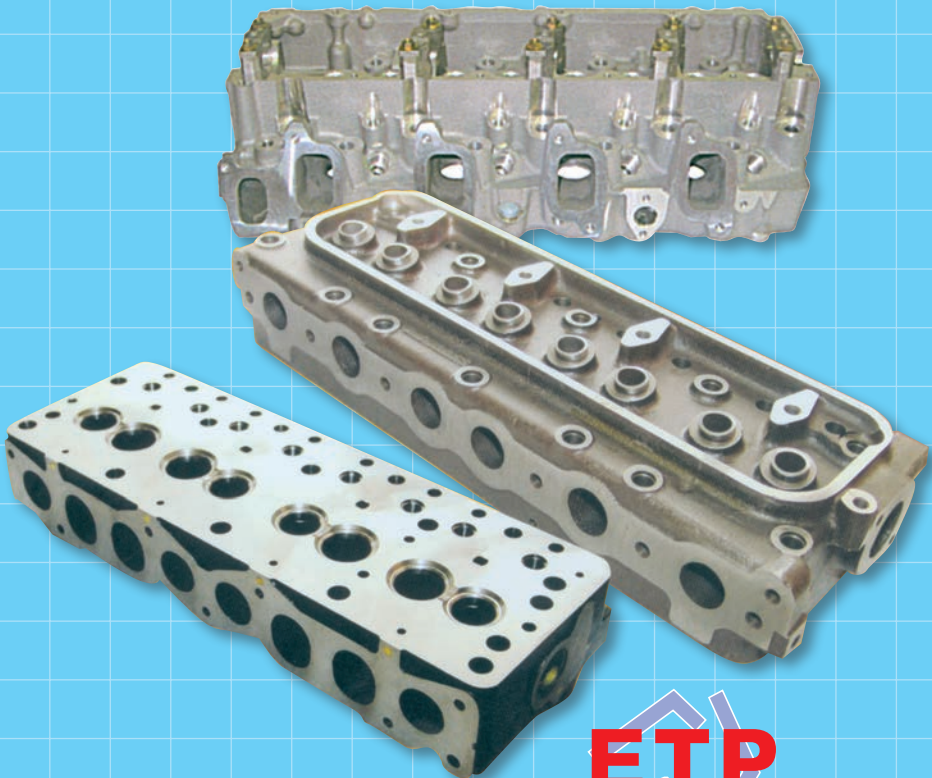


# Cylinder Heads

The market has seen big changes over the years and the move to ALLOY CYLINDER HEADS has provided the aftermarket with another opportunity, as many old or used heads are not suitable for reconditioning.

**ETP** brand is our chosen supplier, based on the integrity of the company who supply world markets with a large range of very high quality cylinder heads. Their manufacturing plant in China currently produces 130+ heads for the Australian market which covers Australian, European, Korean and Japanese applications.

Austral also market selected cylinder heads as a Package, containing the cylinder head, a set of engine valves and a valve regrind set which is more cost effective. Contact Austral for availability and price.





# Valve Lifters

The term VALVE LIFTERS covers hydraulic lifters, mechanical lifters and cam buckets.

We source our lifter range from several suppliers mindful of quality and price. The most common reason for lifter replacement is usually due to noisy operation caused by poor maintenance and neglect.







# Oil Pumps

## The Heart of the Engine

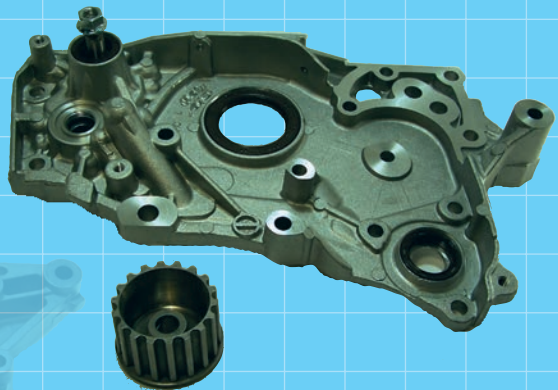


YSK<sup>®</sup> Taiwan are Quality Assured manufacturers of oil pumps. They are a major supplier to global markets with pump applications for a vast range of engines to suit American, Japanese, Korean and developing European models.

Oil pumps for engines were normally located in the oil pan or externally on the engine. Modern designs pumps are now an integral part of the front timing cover. YSK have been an industry leader in the development of this style of pump.

As an authorised agent for YSK pumps, Austral also has licencing arrangements with YSK to produce the still very popular Holden V8 oil pump.

We carry around 300 + pumps in stock with more models under development, including pumps for European models.



is the supplier for oil pumps which suit models from the USA.

The Clevite brand is a symbol of quality and performance, built on it's research and development over a long period, for the American domestic and race industry.

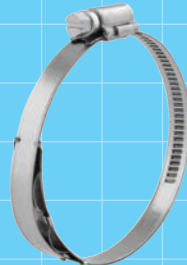
Clevite is also an active exporter to world markets including Australia.



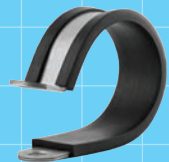
# NEW ADDITION TO RANGE

# kale

## HOSE CLAMPS



**QUALITY  
EUROPEAN  
DESIGN &  
ENGINEERING**





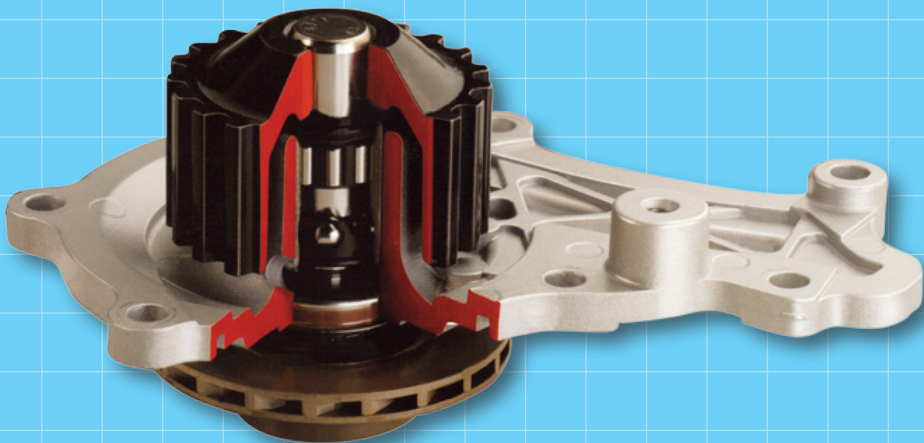
# Water Pumps

**AIRTEX** brand. Austral has been the official Australian agent for Airtex water pumps since 2008. Manufactured in Spain under strict quality assurance guidelines, the Airtex brand has now been developed to cover European, Japanese, Korean, American and some unique Australian model engines.

Airtex have reset the benchmark in manufacturing quality world wide with a 3 year warranty offer on all pumps. As an “OEM” supplier, Airtex have to achieve the highest standards in quality components, manufacturing and supply, to satisfy European vehicle manufacturers.

**NPW** [Japan] are also a supplier to Austral on selected pumps for our market. The brand is regarded as a high end quality product in a very competitive global market.

These two excellent brands give Austral an impressive water pump range at competitive prices.



**AIRTEX**  
water pumps

**IT'S WHAT'S INSIDE THAT  
COUNTS!**

**AIRTEX**  
water pumps

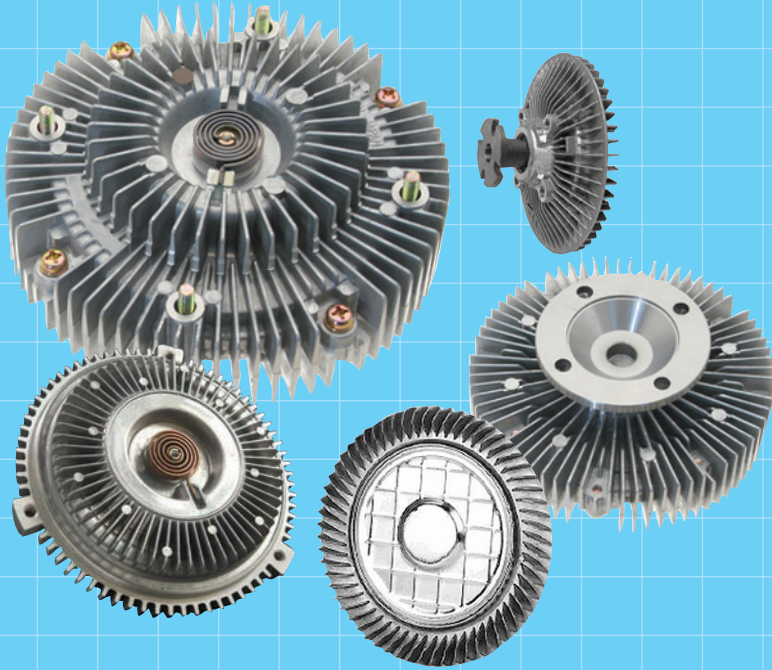
**NPW**



# Fan Clutches

Fan clutches are co-related products for water pumps, which we consider important for the growth of our “cooling” component range.

**NPW** are our primary source and we are continuing to increase this group as new models become available.



**WARNING!!** The major cause of failure in Water Pumps is not usually the pump or a component of the pump. It is more likely, other factors, which should be checked upon disassembly.

Factors to inspect – incorrect coolant mixture – rust – contaminants – cavitation electrolysis – thermal shock – over tightened drive belts – failed or leaking fan clutches and in some situations where the timing belt drives the water pump – faulty tensioners and idlers.

ANY OF THE ABOVE CAN AND WILL CONTRIBUTE TO THE FAILURE OF A WATER PUMP.





# POWERBOND

## Harmonic Balancers

We stock and sell the POWERBOND range of harmonic balancers. As an authorised distributor, we are proud to support this Australian manufacturer who has developed a range of balancers for the Australian market. Following the partnership with Dayco, POWERBOND have become a major exporter to many countries, including the USA.

**Powerbond** also services the performance industry worldwide with a range of balancers for -

Street and Race Performance, Supercharged Race Performance,  
Underdrive and Overdrive Race Performance.







# Engine Drive Pulleys

NULINE drive pulleys are designed to replace the moulded plastic type pulleys. Manufactured from SG iron or pressed steel, Nuline pulleys meet or exceed OE specification and are fitted with C3 rated, high speed bearings with high temperature lubrication. All pulleys contain heavy duty silicone seals for maximum service life at high RPMs.





# Engine Drive Belts – Multi-V

The Austral range of multi-V drive belts are mostly manufactured in Japan, to OE specifications. Multi-V belts have a limited service life and regular checks must be carried out to identify heat cracks and any telltale wear signs.

Product **QUALITY** on drive belts is very important, and our supplier, **SUN**, provides belts which meet the standards of Global car manufacturers.

Austral use the universal numbering system which nominates the belt size by the number of grooves [PK] by the overall length. For example: 4PK1030 – 4 groove x 1030mm overall length.

The following chart is an indicator of belt interchangeability, if the correct belt size is not available.

## Belt fitting tolerance

|                  |              |
|------------------|--------------|
| Less than 1000mm | 5.0mm (+/-)  |
| 1001 to 1200mm   | 6.0mm (+/-)  |
| 1201 to 1500mm   | 8.0mm (+/-)  |
| 1501 to 2000mm   | 9.0mm (+/-)  |
| 2001 to 2500mm   | 10.0mm (+/-) |
| 2501 to 3000mm   | 11.1mm (+/-) |

We also source belts for some European applications from **FAI**.





# Timing Belts

Austral timing belts are sourced from three suppliers. Our major supplier is **SUN** Company in Japan. The belts are manufactured in Japan and have the original tooth profiles to provide optimum performance.

The AUSTRAL/SUN belt is a well accepted brand in the Australian market and recognised by the industry as a quality belt.

We also source European belts from two suppliers, **FAI** in England and **SWAG** in Germany. Both are quality suppliers of timing belts and components.

Timing belts are an important maintenance item and **MUST** be changed at the factory recommended mileage. Many engines use the timing belt to drive the water pump which can increase stress on the belt and components if the service change is neglected.





# Timing Belt Kits & Components

- Comprehensive Range • Quality Components • Unique Packaging
- Competitive Pricing • National Distribution • Most Kits assembled by Austral
- User Friendly Identification (Example – Belt # T199 – Kit # T199AKT)

## KIT COMPONENTS

All Austral kit components are sourced from international manufacturers. Our major supplier of timing belts is **SUN** and made in Japan. The brand is now widely recognised and accepted by the repair industry as a quality product. We use **FAI** (UK) and **Swag** (Germany) as specialist suppliers for selected European applications. The tensioners and idlers used in our kits are industry names such as **KOYO**, **GMB**, **FAI**, **NSK** and **SWAG**. Most kits contain Japanese seal kits from **MUSASHI** to complete the repair.

### SPECIAL NOTE!!

The replacement of the timing belt is a necessary service item which may cause severe engine damage, if neglected. When replacing the timing belt, it is recommended to also replace the belt tensioners and idlers to prevent future component failure and the costly second repair. On many engines the timing belt is the driver for the water pump, which also must be checked or replaced during the repair to again, prevent a secondary failure.





# Timing Chain Kits

- Extensive Range • Late model petrol and diesel applications available
- Quality components from global markets • Selected European, Korean and Japanese models - under development • Many kits available with gears • Unique Austral packaging • All individual components available.

## TIMING CHAIN KIT COMPONENTS

One of the critical items in the Austral kits is obviously the timing CHAIN. We source our chains from MAXTOP in Taiwan, a company we have been associated with for almost 20 years. They manufacture a genuine TRUE roller chain for early models and a range of special heavy duty chains for late model engines. All chains are manufactured under strict quality control standards which provides a chain which can withstand high load, high RPM and extreme temperature changes without distortion.

The chain guides and tensioners are again sourced from selected suppliers in America, Germany, Japan, Taiwan and the UK.







# Engine Valves & Components

As a major supplier to the engine reconditioning industry, Austral carry a wide range of cylinder head and cylinder block components. We sell and recommend a number of brands as no single supplier/manufacturer covers the range for our market. Austral offer the following brands with **SHIN ICHI** (Taiwan) as our major source. We are the Australian agent for this brand, an association which commenced in the 80's. We also stock **Basso 3b** (Argentina), **FAI** (England) and **Dokuro** (Japan).

SHIN ICHI valves are one piece, high grade stainless steel. The intake valves are SUH3 magnetic, suitable for intake application, and the exhaust are 21-4N non magnetic, able to withstand extreme exhaust gas temperatures.

The Basso 3b, FAI and Dokuro valves are generally a two piece bi-metal valve, suitable for standard engine valve replacement.



OTHER – Bits and Pieces in the Austral engine parts range:

**Valve Guides and Liners - Valve Seat Inserts - Valve Locks - Valve Springs and Washers - Diesel Pre Chambers - Welsh Plugs and Kits - Heat Tabs & Adhesive - Sump Plugs - Crack Repair Plugs - Head Shims**



# Autolite Spark Plugs

**AUTOLITE** manufacture a wide range of spark plugs to suit automotive, marine, motorcycle, commercial, industrial, agricultural, lawn mowers and chain saws.

Manufactured by Honeywell International Inc. in the USA, the Autolite brand is the #1 selling plug in America. The first Autolite spark plug was manufactured in 1935 which was the start of this long and successful brand's history across world markets and against strong opposition from other plug manufacturers.

All spark plugs in the range have a wide range of features and benefits which suit each individual application and are detailed in the Autolite catalogue along with specific technical information and history of the brand. Copies are available from Austral.

## AUTOLITE RANGE

**COPPER CORE PLUGS** - deliver quick starts, good fuel economy and smooth acceleration. The core of each plug is FULL copper for better performance.



**PLATINUM PLUGS** - Available for both single and double platinum applications, they are designed and approved by OEM and can be used instead of a copper core type for improved engine performance.

**XP-IRIDIUM PLUGS** - have become the original equipment in many engines and are the ultimate replacement performance plug for extreme performance engines. XR-Iridium plugs are recognised as the BEST plug for most automotive engines. Refer Performance section.



**EXTREME SPORT PLUGS** - Specific for motorcycle, ATV, jet skis and outboard marine. Again Iridium enhanced for optimum performance.

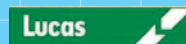
**RACING PLUGS** - Refer information under "Performance" section.



**IT'S TIME TO CHANGE YOUR PLUGS.®**

**Make AUTOLITE your #1 CHOICE**

Austral also carry a range of Diesel Glow Plugs for European, Korean and Japanese engines.





# Performance Parts

Austral has always had a range of Performance Products and our target market has only been to the street and mild performance engine market through our distribution network.

Our recent appointment as an Australian distributor for **WISECO** Pistons (USA) with **KI** Cranks and Rods, has given us the opportunity to expand our performance range with these two premium brand products. FORGED pistons has always been the crown jewels for performance engines and we have secured the Wiseco brand as the appointed factory agent for Australia. Wiseco also manufacture pistons for Australian applications which are now part of the Austral inventory and stocked at our Sydney warehouse.

The Austral Performance range is made up of the following engine components:

**Bearings - Con Rods and Mains**

**Camshafts + Cam Kits**

**Con Rod Sets - Forged**

**Crankshafts - Forged**

**Gasket Sets**

**Harmonic Balancers**

**Pistons - Forged + Rings**

**Spark Plugs - Performance + Race**

**Timing Chain Sets**

**Valves + Components**

The following information provides a broad outline of the performance products range, supplier and brands.



# Piston & Ring Sets

**WISECO** is a premium brand on world markets. Made in America, Wiseco manufacture a range of FORGED pistons to suit just about any and every engine that exists. This includes unique pistons for Australian performance engines which are an Austral shelf item.

WISECO market three (3) brands of forged pistons for the automotive market.

## ***"Professional" Series***

### Features:

- 2618 Alloy: High strength. Will not shatter like hypereutectic or cast pistons.
- Strong, strutted skirt is specially designed to run at as little as .004" clearance with excellent skirt wear and minimal noise or rock.
- Radius valve pockets for detonation resistance and increased flow around valves.
- Anti-detonation grooves help keep the top ring groove free of carbon.
- Pressure groove for enhanced ring seal.
- Multi-fit valve pockets for interchangeability of cylinder heads.
- Race Ready Domes don't require deburring by the engine builder.
- Wiseco ArmorGlide™ skirt coated for lower friction, reduced noise and superior life.



**[1] PROFESSIONAL SERIES** - is the #1 forged piston which is aimed directly at the race market for Chrysler, Chevrolet and Ford.

**[2] PRO-TRU SERIES** - [Sportsman] is the second brand and is identified as a high performance range to suit selected AMC, Buick, Chrysler, Chevrolet and Ford engines.

All pistons are weight balanced and supplied with high quality performance rings.

## ***"Pro-Tru" Series (Sportsman)***

### Features:

- Forged Pistons.
- Pressure fed pin oiling.
- Precision finished piston pin hole.
- CNC machined symmetrical domes.
- Oversized, symmetrical, radius valve pockets.
- Chromium Alloy Steel Piston Pins & Spirolox.
- Hi-Tensile Plasma Moly Rings.
- ArmorGlide Skirt Coating.



## ***"Sports Compact" Series***

### Features:

- Aerospace grade materials, forged for maximum strength.
- Precision tolerance CNC machining for quality repeatability and performance.
- Crown thickness and ring lands designed for power adders like - forced induction (turbo, blowers and nitrous oxide).
- Hones/Reamed pin bore holes for a precise tolerance fit between wrist pin and piston.
- Piston deburred for performance and reliability.
- Wrist Pins constructed of chrome moly steel material for the ultimate in strength.
- High Quality Piston Rings featuring positive twist nitride steel top ring, Napier 2nd ring, and nitrided rails on a specially designed expander for the best oil control.
- Wire Retainer Clip Lock, featuring chrome silicon material for the ultimate yield strength.
- World class forging facility that utilizes the latest technologies featuring complex forged shapes, advanced materials, and featured-aligned grain flow technology.

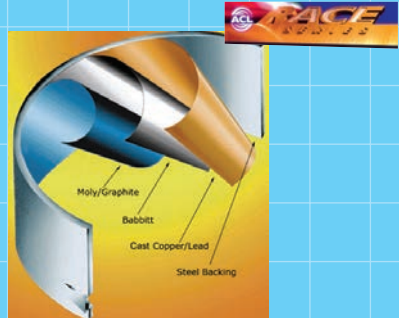


**[3] SPORTS COMPACT SERIES** - is specific Multi Valve for the 4 cylinder market, plus Nissan six cylinder models. Wiseco is renowned for their development of race winning pistons for compact engines for world performance applications.



# Bearings - Conrod + Mains

High performance driving demands the selection of quality brand parts for the engine. **ACL** Race Series engine bearings are designed to meet these demands and perform to the exact race standards expected by professionals. ACL bearings are manufactured to exacting tolerances with attention to wall thickness accuracy.



**CLEVITE CL77 TriMetal Engine Bearings** are designed specifically for the unique needs of aftermarket engine rebuilders and provide the best possible combination of bearing qualities for today's engines. There is no better choice for the engine builder who is serious about his work and his reputation.



**It takes Three Layers to be Number One.**

- **Seizure Resistance** - 40% greater seizure resistance than bi-metal
- **Load Capacity** - 60% higher load capacity than bi-metal
- **Embedability & Conformability** - Third layer provides far more forgiveness than bi-metal
- **Durability** - Far exceeds OE requirements for light vehicle and heavy duty
- **Tolerance** - TriMetal bearings hold wall sizes .0002" more than bi-metal

**NDC ENGINE BEARINGS** are original equipment on all Japanese performance engines. As an OEM supplier, NDC are high end quality bearings which are the choice of many race engine builders. They are copper lead style bearings designed to perform under extreme conditions.







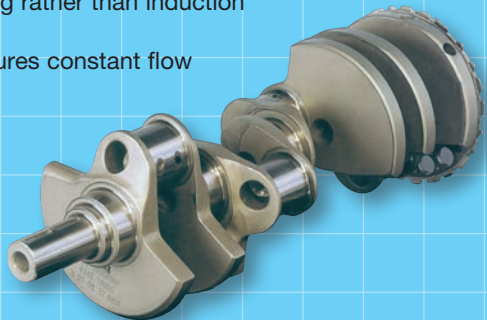
# Crankshafts - Forged Con Rods - Billet

We sell and recommend the K1 range of crankshafts and con rod sets. K1 Technologies are dedicated to providing world class energy-transfer technology at an affordable price. Austral embrace this commitment as the Australian agent for this leading brand.



## CRANKSHAFTS features:

- True 4340 forging
- Core hardened, tempered to reduce stress and optimise tensile strength
- Nitriding process for hardening rather than induction
- Magnetic particle inspection
- Straight oiling to journals ensures constant flow
- Excellent journal finish
- Stress relieved
- Internally balanced



## BILLET CON ROD features:

- 4340 steel forgings
- Pin oiling
- Thicker blades
- Heavy radii
- Double bridged caps reduce housing bore distortion
- Rod offset is designed to centre small end to bore centre
- Special bushing material for optimum friction reduction
- ARP Bolts to K1 specification with asymmetrical threads to equally load each thread under tension



Refer K1 catalogue for available models



# Alloy Cylinder Heads **ETP**

## CHEVROLET 350

Something special for the Chevrolet small block builder

**BOLT-ON 500+ Horsepower**



65.2cc Chamber Volume  
197.4cc Intake Port Volume  
74.7cc Exhaust Port Volume  
Offset Rockers Required  
Suit - 2.02" Intake Valves  
- 1.60" Exhaust Valves

### ROLLER ROCKERS 1.5 & 1.6 ratios available

#### Valve Adjusting Bolts

Heat Treated to  
Maximise Strength

#### Offset Pushrod

Allows Fitment to  
Big Port Heads

#### Oversized Japanese Quality Torrington Type Needle Roller Bearings

Fixed to Precision  
Ground Shafts to  
Minimise Friction and  
Maximise Power



**High Strength and  
Light Weight Alloy**  
Premium Quality  
Alloy Spec.

#### Roller Rocker

Reduces Heat and  
Friction and Minimises  
Valve & Valve Guide Wear



## PEP-PRO RACE VALVES

**Pep-Pro** engine valves are a very popular performance engine valve in the Australian market. Manufactured from 21-4N Stainless Steel, these single piece forged valves are designed to improve inlet and exhaust gas flow in modified engines.

### PEP-PRO FEATURES:

**RACE  
QUALITY  
21-4N  
STAINLESS**

**STELLITE TIPPED**

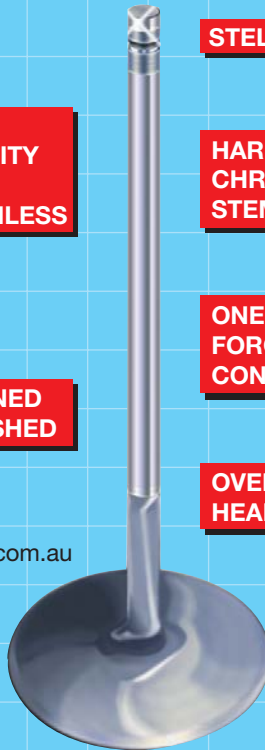
**HARD  
CHROME  
STEMS**

**MACHINED  
& POLISHED**

**ONE PIECE  
FORGED  
CONSTRUCTION**

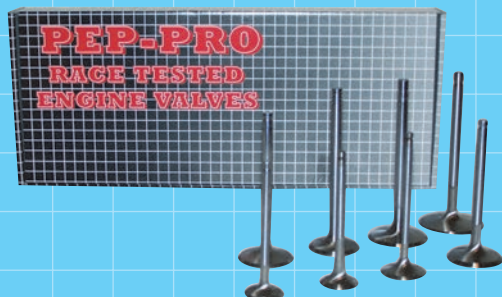
**OVERSIZE  
HEADS**

Check the  
Pep-Pro website  
[www.pepproracevalves.com.au](http://www.pepproracevalves.com.au)



### VALVE COMPONENTS

The range of valve components available from Austral is very comprehensive and are all quality brand products.





# Camshafts + Valve Train Components

Crow is the selected brand of camshafts, kits and associated components for our range. All camshafts and cam component development has been carried out in Australia over many years which provides Austral with a range of quality performance valve train products. The range covers most four, six and eight cylinder models.



A large range of CROW cams and related items are carried in stock with factory support across the whole product range, as follows:

**CAMSHAFTS - CAM KITS - LIFTERS - PUSHRODS - TIMING CHAIN KITS - GEAR DRIVES - VALVE SPRINGS - VALVE RETAINERS - VALVE LOCKS - GUIDE PLATES - LASH CAPS - STEM SEALS**



# Timing Chain Kits

We market two brands of Performance Timing Chain kits:

## **CROW and ROLLMASTER**

Both brands offer top end quality chain sets, using true roller chains. A large range is available for early 4, 6 and V8 engines for the Australian market.



## **ROLLMASTER**







# Spark Plugs - Autolite XP-Iridium

## **Autolite** **XP** XTREME PERFORMANCE **IRIDIUM** ENHANCED SPARK PLUGS



### **Benefits of IRIDIUM**

- Iridium is more thermally conductive than Platinum so it transfers heat better
- Iridium has a higher melting temperature than Platinum
- Iridium is more corrosion resistant than Platinum

### **Why IRIDIUM Enhanced?**

- While pure Iridium has a higher melting point (4449°F vs 3362°F Iridium Enhanced), electrode melting caused by high temperatures is not the dominant factor to electrode wear
- Oxidation and corrosion of the electrode are the biggest factors in electrode wear
- While pure Iridium is more corrosion resistant, it is less oxidation resistant than platinum
- Today's automotive fuels are cleaner and have less of a corrosive effect on the electrode, so pure Iridium is overkill
- Autolite XP Xtreme Performance® spark plugs are made up of the ideal combination of precious metals (18% Iridium, 81% Platinum and 1% Tungsten) for protection against ALL electrode wearing factors including temperature, corrosion and oxidation



**MORE BANG  
LESS BUCK**



# Autolite Race

## Autolite<sup>®</sup> RACING

### High Performance Spark Plugs

**Actual  
Racing Spark Plug  
used by Professional  
Race Car Drivers  
Today!**



- Cut Back Ground Electrode for Better Ignitability of the Flame Kernel
- Anti-Corrosive Nickel Plating for more Corrosion Resistance against rusting versus Black Oxide
- Large Ground Electrode for Better Heat Transfer



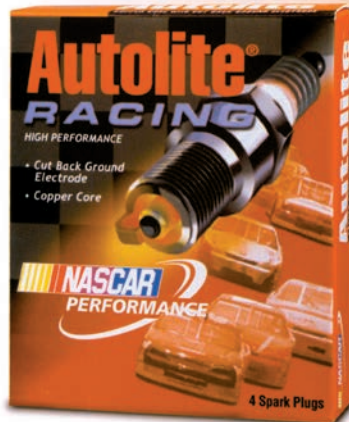
### Spark Plug: Heat Range Facts

Typically, engines which are stock or are only slightly modified, can use the original equipment (OE) recommended spark plug.

### Racing Modified Engines

Generally, any engine modification that alters the overall compression ratio of the engine will involve spark plug selection issues. One thing to consider is heat range.

- The heat range of a spark plug determines how much heat the spark plug is capable of removing from the combustion chamber; chamber range of the spark plug does not increase or decrease horsepower.
- If the heat range is too cold, the deposits will not burn off the tip and the spark plug will foul. If the heat range is too hot, pre-ignition can occur.
- If you are unsure of the correct heat range to use, always start with a colder spark plug. If the plug is too cold, it will eventually foul out, and misfire will occur. This will not hurt the engine. If a spark plug is too hot, pre-ignition and detonation can severely damage your engine. If you have made modifications to your engine, you should refer to your component manufacturer's specifications.



Honeywell International Inc. is not responsible for engine damage resulting from improper spark plug selection due to engine modifications or racing.

**Another good reason to make  
AUTOLITE RACING PLUGS your CHOICE!!!**

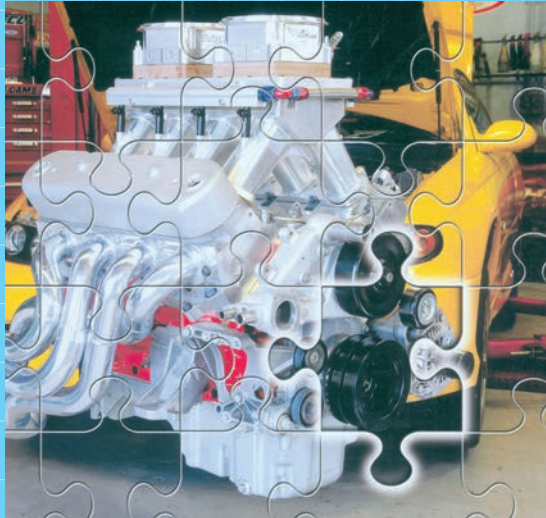


# Harmonic Balancers

Austral offer two brands of engine balancers – **POWERBOND** and **ROMAC**. Both balancers MADE in Australia and exported to many countries.

The **POWERBOND** brand balancer is available as

- [1] **STREET PERFORMANCE**
- [2] **SFI RACE**



**ROMAC** offer four types

- [1] **SPORTS SERIES**
- [2] **PERFORMANCE SERIES**
- [3] **PRO SERIES** and
- [4] **BLOWN / SUPERCHARGED**

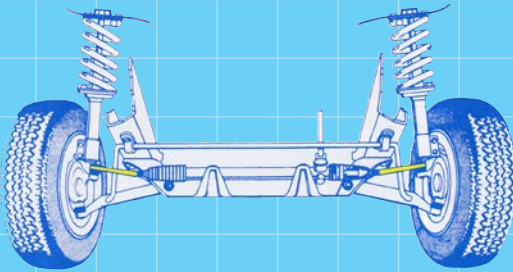


Please refer to manufacturers' catalogues for technical details



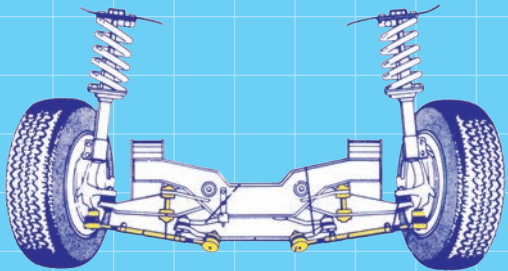


# STEERING



**RACK ENDS**

**TIE ROD ENDS  
SWAYBAR LINKS**



**PRODUCT TESTING**

**FOR**



**EVERY DAY PERFORMANCE**



**GAS STRUTS  
SHOCK ABSORBERS  
AWD • RWD • 4WD**



**FOR SAFETY SAKE**

Make **Gabriel®** your first choice!!

The Original  
**Gabriel®**

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

Ride the independent spirit™



# Gabriel®

Ultra™  
PLUS OFF ROAD

## ULTRA PLUS SHOCK ABSORBERS G41000 Series



- \* Large 40mm bore pistons to cope with hard Off Road driving
- \* Nitrogen gas charged for superior response and consistent control
- \* Four lip piston seal reduces oil by-pass for maximum shock control and performance
- \* High temperature hydraulic oil reduces friction and wear in extreme operating conditions
- \* Top dirt wiper oil seal stops dirt from entering inside shock
- \* The range includes shocks designed for fitment to vehicles with the original O.E. suspension height as well as for lift up to 50mm

## ULTRA PLUS SPRING SEAT SHOCKS G43000 Series



**SUIT - 4 WHEEL DRIVE MODELS  
FORD, HOLDEN, ISUZU, MAZDA,  
MITSUBISHI, NISSAN, TOYOTA, VOLKSWAGEN**

**A new product addition to the Gabriel range of  
Shock Absorbers, Strut Cushions and Strut Mounts**

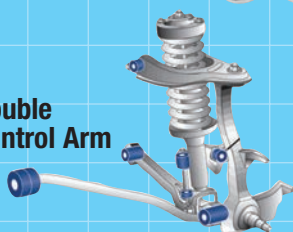




# BUSHES BUSHES BUSHES



**Double  
Control Arm**



- \* **Extensive Range**
- \* **Vehicle Kits**
- \* **Complete Assemblies**
- \* **Australian Made**
- \* **Bush & Bush Kits Available**



**Control Blade  
Multi Line**



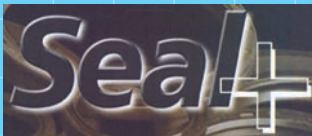
**MAKE  YOUR FIRST CHOICE FOR  Superpro**  
AUSTRALIAN SUSPENSION PARTS



## Chemicals / Engine Assembly

The true measure of a successful engine assembly is the use of quality gaskets and sealants. In our range of sealants we offer excellent brands such as **CLEVITE**, **SEAL+** and **SEALwel** products.

### CLEVITE



### Oil Seal Pre-Lube





# Permatex



# Products for Engine Assembly

**THREAD LOCKER  
GEL TWIST**



**THREAD LOCKER  
BLUE**



**THREAD LOCKER  
RED**



**THREAD  
LOCKER  
GREEN**



**CUP + CORE**



**LATEX GLOVES**



**NITRILE GLOVES**



# ThreeBond



**RTV SILICONE SEALERS**

•

**LIQUID GASKET MAKERS**

•



**GASKET REMOVERS**

•

**BRAKE & PARTS  
CLEANERS**

•



**DIESEL & PETROL  
FUEL CONDITIONERS**

•

**ADHESIVES**





## **WASP - Steering & Suspension**

**WASP** is the Austral brand of quality steering and suspension products. Formally introduced to the Australian market in 1994, WASP has become a major brand, sold nationally through high profile distributors in all states.

Steering and suspension components are **SAFETY** items and as such, our target for quality had to be set at a very high standard to meet or exceed OEM specifications. This has been achieved as our manufacturing factory in Taiwan, has QS9000 quality assurance, which is necessary to be accepted into the European, North American and Australian markets.

Austral also source product from FAI for European models which are not available through our manufacturer. Product from FAI meet all the safety and quality assurance requirements for the manufacture of steering and suspension components.

The **WASP** product range covers:

**CONTROL  
ARMS**

**BALL  
JOINTS**

**TIE ROD  
ENDS**

**TIE ROD END  
ASSEMBLIES**

**RACK  
ENDS**

**RACK BOOT  
KITS**

**IDLER  
ARMS**

**PITMAN  
ARMS**

**DRAG  
LINKS**

**RELAY  
RODS**

**CENTRE  
ARMS**

**SWAYBAR  
LINKS**

# **WASP**





# GABRIEL - Shock Absorbers

**GABRIEL** brand shock absorbers are the perfect fit to compliment the WASP range of steering and suspension components. Austral was appointed a GABRIEL distributor in 2010 and have experienced excellent growth with the Gabriel brand. The development of **"ULTRA G-FORCE"** technology has made the Gabriel brand widely accepted by front end specialists and the general trade.

Gabriel offer a wide range of product with optional type shocks and struts to suit the growing number of passenger vehicles, commercials and 4WD vehicles.

**STRUT  
ASSEMBLIES**

**SHOCK  
ABSORBERS**

**STEERING  
DAMPERS**

**STRUT  
CUSHIONS**

**\*\*Shock Absorbers are a safety item, inspection and replacement should be part of a regular maintenance programme. Faulty shocks effect the operation of brakes, tyre wear and steering control. Important to note that failure to replace any faulty strut cushion will result in premature failure of the strut assembly and rejection of any claim.**

# Gabriel®



# **STRONGARM**

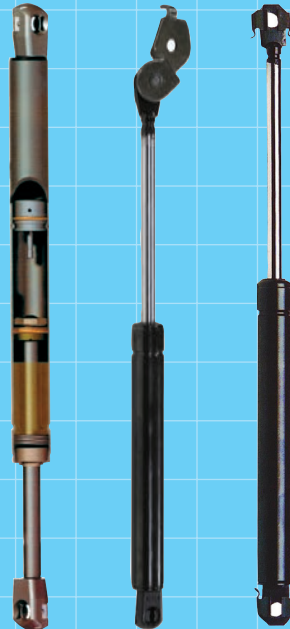
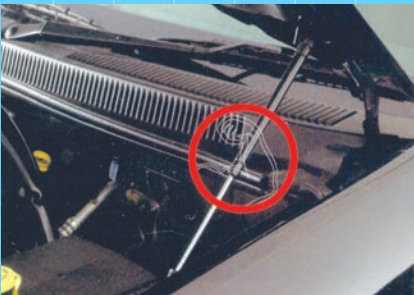
## **GAS LIFT STRUTS**

Manufactured in the USA, the **STRONGARM** brand have most comprehensive range to cater for world markets including Australia. Every unit is custom engineered for each specific vehicle application so no modification or adjustments are necessary. This makes STRONGARM the ideal D.I.Y. product.

All gas struts are manufactured from quality components including a patented temperature compensating module valve to provide consistent operation, even in extreme conditions. All O.E. mounting brackets where required are supplied.

**STRONGARM** manufacture and supply struts for:

**BONNETS - BOOT LIDS - TAIL GATES - GLASS LIFT  
GATES - HATCHES - CANOPIES - UNIVERSAL FIT**



**It's no wonder STRONGARM Gas Lift Struts are the #1 seller in the USA**  
**Website: [strongarm-struts.com.au](http://strongarm-struts.com.au)**

For **AUSTRAL**,  
**it's all about service!**

- We offer
- A comprehensive range
  - Quality
  - Excellent service
  - Reliable distribution
  - Developing product range
  - E-catalogue + online services
  - Technical support

All good reasons to make **AUSTRAL**  
**your first choice!**

