## HOTBRAY

Distributors of quality spare parts throughout the world.


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## НОТВДАҮ

## Distributors of quality spare parts throughout the world.

Since 1972 Hotbray Ltd has been building a worldwide reputation as a competitive and reliable source of automotive spare parts.

Our considerable experience in this field has resulted in comprehensive contacts throughout the Automotive Industry, which allow us to offer an unrivalled range of high quality spare parts.

Our trading history and in-depth knowledge of dealing with a wide variety of requirements and customers has resulted in a fully flexible and tailored approach to your export needs.

From the Independent specialist and Importer to Government departments and internationally funded projects - We are able to draw on our expertise to assist and deliver products that match your specific criteria.

Hotbray Ltd is the only Authorised Exporter for Land Rover, MG Rover and Jaguar spare parts.

Hotbray Ltd are proprietors of the eurospare brand of quality replacement spare parts for British 4x4 and P -Stige Vehicles

Hotbray Ltd specialise in the whblesale of automotive spare parts, our service can provide a variety of delivery options, from air and sea/freigh to urgent courier or Truck/Trailer despatch.

Our service is to provide you with the options that work for your market and customers.

## eurospare

## wWW.eurospare.com

## Your route to quality parts for 4X4 and prestige vehicles.

The eurospare range of products for $4 \times 4$ and prestige vehicles is designed to offers workshops a high quality, competitively priced range of spare parts.

The eurospare commitment is to supply you the right part of Original Equipment or higher quality. We will not be led by our competitors in supplying 'cheaper', inferior quality parts.
eurospare has recognised the requirements of modern workshops and end users in needing to locate a source for parts of a consistently high standard...
eurospare offers parts of consistent OEM and above quality.
eurospare offers a price that is competitive with all other aftermarket sources for parts of equivalent specification

eurospare parts are frequently sourced from original equipment suppliers to ensure that the parts have been built to at least and in many cases higher than the specification required during original vehicle build.

eurospare range reflects the need of the modern prestige car and $4 \times 4$.
eurospare works closely with its worldwide distribution partners to ensure total customer satisfaction. We have furthered this commitment and are proud to achieve trade mark status for the eurospare brand.

You can be sure if the part is not up to the required standard it will not receive the eurospare endorsement.

To take the guesswork out of buying parts contact us at eurospare@hotbray.net


XPart, the original source of genuine replacement MG Rover parts for the two British marques, always has millions of pounds worth of stock available in the UK at any one time.

What's more, XPart has an official Export Trading House for MG Rover parts - Hotbray Ltd.

## Hotbray is ready to deliver

all the original parts you could want, whenever and wherever you need them. And they can do it all at prices that make perfect sense.

So next time you need to work on an MG or a Rover, you know what to do. Contact Hotbray. We'll give you the facts AND provide you with all the parts you need - now and in the future.

XPart is a wholly owned division of Caterpillar Logistics Services (UK) Ltd.

## Contact :

Tel: +44 (0) 2085450011
Fax: +44 (0) 2085450020

## You CAN get Genuine MG Rover Spare Parts！



Hotbray are the leading exporter of MG Rover Genuine spare parts with over 35 years experience．

Since August 2003 MG Rover Genuine spare parts have been owned and operated by XPart（a division of Caterpillar Inc）who continue the worldwide sourcing and supply Genuine MG Rover spare parts．

With the demise of the MG Rover Group in 2005 XPart has continued to strive ahead with sourcing of MG Rover spare parts．

This includes many parts for the later Rover built cars that are being sourced off the original Longbridge factory tooling．

This production rights of Rover are now owned by Chinese car giant Shanghai Automotive Industry Corporation（SAIC），the Longbridge tooling and ownership of the MG Brand by Nanjing Automobile company（NAC）．

The commercial relationship between XPart and the new owners is paramount in securing late model MG \＆Rover parts for the aftermarket，this relationship has been further enhanced by the planned merger of SAIC \＆NAC during 2008 －finally re－ uniting the brands．

With planned shipping of parts from the original tooling now fully underway there is no doubt that availability of parts to keep these vehicles on the road will not be an issue for any repair．

XPart are committed to carrying on the supply and distribution of MG Rover parts and we receive daily deliveries from their global distribution centre．


With an instant computer link and ordering facility we can provide a service to match whatever your current requirements may be．


XPart are the only source for Genuine MG Rover spare parts．

Hotbray are proud to be part of their global supply strategy to keep MG Rover vehicles maintained，serviced or repaired as their owners require．

## HERITAGE



ORIGINAL EQUIPMENT


## MINII WINI

Hotbrays involvement with MG Rover spare parts over the years has led to considerable experience in sourcing and supplying parts for Classic Mini vehicles.

Along with Genuine labeled products we are also able to offer the complete range of body parts from British Motor Heritage Ltd.


British Motor Heritage Limited (Heritage) has evolved over 33 years, always with the objective of supporting British classic car owners. It has sought to provide genuine components, using original tooling, materials and processes wherever possible, but also exploiting improved technology where appropriate.

Heritage has full access to authentic tooling, engineering drawings and production information, enabling it to provide previously unobtainable parts such as body panels for British classic cars. No other company in the world can offer complete factory-standard body shells for cars up to 45 years old. Since production of the MGB body shell began in 1988, Heritage has produced over 6000 body shells in a range of 42 derivatives (MGB, MGB GT, MG Midget, Austin Healey Sprite, TR6, original Mini and Mini Clubman/1275GT).

Heritage body shells and panels are produced using original press tools and assembly jigs, by a traditionally skilled workforce. Where beneficial, modern materials, equipment and processes are also applied. For example, many zinc-coated panels are used, and all shells and panels have the superior corrosion protection of today's pre-treatment and cathodic electroprimer.

Heritage is based in Oxfordshire, and occupies a modern building with $51,500 \mathrm{sq} \mathrm{ft}$ working area. It is a fully integrated facility, with administration, manufacture and high-bay parts storage all under one roof. The parts inventory, of around 10,000 product references, totals over $£ 2$ million, and the company's annual turnover is around $£ 4$ million. It is a British Standard ISO 9001-2000 accredited supplier to Jaguar, Land Rover, Unipart and XPart.

# ORIGINAL TECHNICAL PUBLICATIONS NOW AVAILABLE ON CDROM 

## THE PARTS CATALOGUE，WORKSHOP MANUAL AND DRIVER＇S HANDBOOK YOU NEED FOR YOUR CLASSIC BRITISH CAR－ALL ON ONE CD ROM！

Introducing the exciting new range of classic car original technical publications on CD from the Heritage Motor Centre．

Original parts books，workshop manuals and handbooks for the classic models from the Rover Group，British Leyland，BMC and Standard Triumph stables have always been greatly sought after，and rightly so：nothing compares，for example，to an Austin Healey workshop manual compiled by the car＇s manufacturer．Now for the first time owners and enthusiasts have the opportunity to effortlessly collect all the original publications for their car，on one handy and cost－effective CD Rom．

By combining the incredible resources of the archive at the Heritage Motor Centre with the industry－proven electronic publishing expertise of Mark Greer \＆Associates，an unequalled range of original technical publications is now being made available for models produced by such great marques as Austin，Austin Healey，MG，Mini，Morris，Riley，Rover，Triumph， Vanden Plas and Wolseley．

Each CD Rom focuses on one model or family of models and each has the same format： the original parts catalogues（from parts book and／or microfiche，as appropriate）are followed by the workshop manuals and driver＇s handbooks，all reproduced in an easy－to－ use and easy－to－print PDF format．Also included on each CD Rom are details about the Heritage Motor Centre and the British Motor Industry Heritage Trust，along with useful information for relevant car clubs and enthusiast＇s organisations，plus PDF reader software for those requiring it．

Each is available from Hotbray．For orders or enquiries，or to find your local stockist， please contact the Hotbray Ltd on＋44（0） 2085450011 or sales＠hotbray．net

# ORIGINAL TECHNICAL PUBLICATIONS NOW AVAILABLE ON CDROM 




60 YEARS IN THE MAKING

## LAND ROVER GENUINE PARTS AND ACCESSORIES．

Hotbray are able to provide a complete＇one－stop＇supply service for Land Rover Genuine spare parts and accessories．

We receive daily deliveries from Land Rover and our direct computer link assists in the planning and processing of orders．

Our extensive library holds key MSDS and tariff code data to enable the smooth import of any shipment as required．

Land Rover genuine parts are manufactured to the stringent specifications of the original component，guaranteeing maximum performance and economy．Land Rover genuine parts ensure a perfect fit every time and are vital in maintaining the long life and impressive capabilities of your vehicle．

In recognition of the expertise Hotbray offer we have been appointed by Land Rover to assist with the parts supply to several Land Rover dealers worldwide．

Land Rover have reached a significant milestone this year－celebrating 60 years of vehicle production－the first＇public＇showing of the original Land Rover was the 1948 Amsterdam Motor Show．


From humble beginnings the brand can now boast sales figures exceeding 200，000 vehicles in 2007.

New and used Land Rover vehicles are already packed with standard features．But not all Land Rover drivers are the same and some want to enhance their vehicle with further tailor made accessories．


A full range of accessories like roof boxes， child seats，protective covers，winches and class leading technology like DVD players are available through the Land Rover accessories programme．

Land Rover Gear is a unique range of great outdoor clothing and equipment that＇s ideal for expeditions or adventures in any climate．It includes high－quality trekking and survival aids，high－tech bikes，Land Rover mementoes，kids＇ clothing，toys and die－cast models．For Land Rover enthusiasts it＇s the authentic， original Gear．

## LAND ROVER CHASSIS NUMBERS NOVEMBER 1979 ONWARDS（EU I ROW）



## LAND ROVER CHASSIS NUMBERS NOVEMBER 1979 ONWARDS (NAS I MEXICO)

## LAND ROVER CHASSIS NUMBERS FREELANDER2/LR2 (L359 ALL MARKETS)

| PrEFIX | model range | class | Body strle | Engine | transmission | check digm | model year | plant |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SAL | T | $\gamma$ | 1 | 2 | 4 | * | x | A |
| SAL - | A- LR3 | A - SE | FREELANDER | 1-1.8 K16 LOU | 2 - LHD AUTO FREELANDER | VARIABLE | H-1987 | A - Solitull |
| Land Rover UK | - - Defender | A - LR3 STD | 1 - 4 Door RR | 1 - $4.4 . \mathrm{V8}$ | 4 - LHD Auto |  | - 1988 |  |
|  | H- CLASSIC | A - RR Sport STD | 1 - 5 DR SW | 1 - 3.5 V8 Efi | 8 - LHD 5 SPD MAN |  | K - 1989 |  |
|  | - DISCOVERY | B - HSE (NO LUXURY PACK) | 2 - 4 Door RR Sport | $2-2.5 \mathrm{KV6}$ UL |  |  | L-1990 |  |
|  | M - 1322 | C - HSE (WITH LUXURY PACK) | Open | 2-3.6 V8 Diesel |  |  | M - 1991 |  |
|  | N - FREELANDER | C - RR Classic LwB | 2 - 5DR FREELANDER | $2-3.9 \mathrm{V8}$ |  |  | N-1992 |  |
|  | P- P38A | C - TLI freelander | 3-5 DOOR LR3 | $2-4.0 \mathrm{LV8}$ HC CAT |  |  | p-1993 |  |
|  | S - RR Sport | D - Limited edition (tBA) | 3 - Defender 90 SW | 3-4.2 V8 Efi |  |  | R-1994 |  |
|  | T- DISCOVERY II | E-5 SEATS LEATHERETTE |  | Petrol |  |  | S-1995 |  |
|  |  | E- HSE No Luxury Pack |  | 4-2.0 M47 DIESEL |  |  | T-1996 |  |
|  |  | F- HSE Luxury Pack |  | $4-4.6 \mathrm{VV}$ TIER 1 HC CAT |  |  | v-1997 |  |
|  |  | H- ADVENTURER LE 5 SEATS |  | 4 - V6 4.0 PETROL |  |  | w-1998 |  |
|  |  | H-Westminster/Autobiography |  | 5-4.0L V8 LEV HC CAT |  |  | x-1999 |  |
|  |  | - - ADVENTURER LE 7 SEATS |  | 5-4.4 Petrol |  |  | Y-2000 |  |
|  |  | K - LEATHERETTE TRIM 7 SEATS |  | 5-448PM AJV8 4.4 Petrol |  |  | 1-2001 |  |
|  |  | L- LEATHERETTE TRIM 5 SEATS |  | $6-4.6$ ULEV HC CAT |  |  | 2-2002 |  |
|  |  | M - CLOTH TRIM 5 SEATS (FRE) |  |  |  |  | 3-2003 |  |
|  |  | N - CLOTH TRIM 7 SEATS |  |  |  |  | 4-2004 |  |
|  |  | N - Standard |  |  |  |  | 5-2005 |  |
|  |  | P- HSE-5 SEATS |  |  |  |  | 6-2006 |  |
|  |  | R-HSE-7 SEATS |  |  |  |  | 7-2007 |  |
|  |  | $v$ - 5 SEATS LEATHER CLASSIC |  |  |  |  | 8-2008 |  |
|  |  | $v$ - Defender 90 |  |  |  |  | 9-2009 |  |
|  |  | W - LeAther trim 7 SEATS |  |  |  |  | A-2010 |  |
|  |  | r - LEATHER TRIM 5 SEATS |  |  |  |  |  |  |
| key: | Classic | First Generation Range Rover | нои | High Octane Unleaded |  |  |  |  |
|  | P38A | 2nd Generation Range Rover | Lou | Low Octane Unleaded |  |  |  |  |
|  | L322 | 3rd Generation Range Rover | LoL | Low Octane Leaded |  |  |  |  |
|  | L319 | LR3 | UL | Unleaded |  |  |  |  |
|  | L320 | Range Rover Sport |  |  |  |  |  |  |
| LAND ROVER CHASSIS NUMBERS FREELANDER2/LR2 (L359 ALL MARKETS) |  |  |  |  |  |  |  |  |
| PrEFIX | Model range | class | Body TYPE | transmission | ENGINE | CHECK DIGT | Model Year | PLANT |
| SAL | F | P | 2 | 4 | N | * | 8 | н |
| SAL - | F-L359 | A - STANDARD | 2-4 DOOR | 3-RHD AUTOMATIC | A - 3.2LTR PETROL | VARIABLE | 7-2007 | H- Halewood |
| Land Rover UK |  | P - NAS SE |  | 4 - LHD AUTOMATIC | B-2.2LTR DIESEL |  | 8-2008 |  |
|  |  | R - NAS HSE |  | 7 - RHD MANUAL | C-2.2LTR DIESEL WITH DPF |  | 9-2009 |  |
|  |  | S - NAS TECHNOLOGY PACK |  | 8 - LHD MANUAL | N - 3.2LTR PETROL NAS |  | A-2010 |  |

# eurospare 

## wWw．eurospare．com

## THE PARTS CATALOGUE，WORKSHOP MANUAL AND DRIVER＇S HANDBOOK YOU NEED FOR YOUR LAND ROVER－ALL ON ONE CD ROM！



Introducing the exciting new range of Land Rover original technical publications on CD Rom，available now via eurospare．

Original parts books，workshop manuals and handbooks for Land Rovers have always been greatly sought after，and rightly so：nothing compares，for example，to a Land Rover workshop manual compiled by the car＇s manufacturer．

Now for the first time owners and enthusiasts have the opportunity to effortlessly collect all the original publications for their favourite Land Rover，on one handy and cost－effective CD Rom．

All CD＇s have been produced from the Original Print documents held in the archive of the Heritage Motor Centre．

This has provided an unequalled range of original technical publications being made available for Land Rover Series I to Series III， 90／110，Defender，Military，Range Rover and Discovery models．

Each CD Rom focuses on one model or family of models and each has the same format：the original parts catalogues are followed by the workshop manuals and driver＇s handbooks，all reproduced in an easy－to－use and easy－to－ print PDF format．

As appropriate to certain models，additional publications detailing special equipment or usage are also on the CD Rom．

| Land Rover | Series Models |
| :---: | :---: |
| LHP19 | Land Rover Series I， 1948 to 1958 |
| LHP20 | Land Rover Series II， 1958 to 1961 |
| LHP21 | Land Rover Series IIA \＆IIB， 1961 to 1971 |
| LHP22 | Land Rover Series III \＆Stage 1 V8， 1971 to 1985 |
| Land Rover | Military Models |
| LHP23 | Land Rover 88 Half Ton Military， 1968 to 1984 （Lightweight） |
| LHP24 | Land Rover 101 One Tonne Military， 1975 to 1978 |
| LHP25 | Land Rover 90， 110 \＆XD Military， 1984 to 1999 |
| Land Rover | 90， 110 and Defender |
| LHP26 | $\begin{aligned} & \text { Land Rover 90, } 110 \& 127,1983 \text { to } \\ & 1989 \end{aligned}$ |
| LHP27 | Land Rover Defender 90， 110 \＆130， 1990 to 1999 |
| LHP28 | Land Rover Defender 90 \＆110， North America |
| Range Rover | Classic |
| LHP1 | Range Rover Classic， 1970 to 1985 |
| LHP2 | Range Rover Classic， 1985 to 1995 |
| LHP29 | Range Rover Classic North America 1987 to 1995 |
| Land Rover | Discovery |
| LHP3 | Land Rover Discovery Series I， 1989 to 1994 |
| LHP32 | Land Rover Discovery Series I， 1994 to 1998 |
| LHP33 | Land Rover Discovery Series I North America， 1994 to 1998 |

## Original Edition Publications



## The Jaguar Daimler Heritage Trust and Jaguar Classic Parts <br> are the two official organisations committed to support a wider range of parts and service for owners of classic Jaguars and Daimlers. Together, these organisations have acknowledged the requirement for important technical as well as parts support by creating and expanding their hugely successful Jaguar Classic Parts CD Rom range.

This market leading, cost-effective range of electronically published technical information - few manufacturers other than Jaguar come close to providing the owner with such a comprehensive back-catalogue of manuals and documents - may be subdivided into three complementary subject groups: Parts and Service Publications, Supplementary Model and Service Information and Parts and Service Bulletins.

Historically, significant amounts of valuable service information were never incorporated into updated service manuals, and only by also studying the supplementary information and bulletin CDs can these information gaps be bridged.

One example of this is the non-appearance of the AJ16 engine in XJS service manuals; another is the dividing out of electrical and electronic information for the increasingly complex later models into guides published separately from the service manuals.

It is therefore highly recommended that owners seek to acquire CDs covering all three of the aforementioned subjects to ensure they have as much information as necessary to effectively service their Jaguar or Daimler motor car.

THE JAGUAR XK
DESIRE BY DESIGN SEQUENTIAL SHIFT ZF TRANSMISSION
4.2L V8 ENGINE/298 HP LIGHTWEIGHT ALUMINIUM CONSTRUCTION COMPUTER ACTIVE SUSPENSION


## JAGUAR

## JAGUAR GENUINE PARTS AND ACCESSORIES

Hotbray can provide a complete 'one-stop' supply service for Jaguar Genuine spare parts and accessories; we can also supply the complete Jaguar 'Classic Parts' programme.

We receive daily deliveries from Jaguar and our direct computer link assists in the planning and processing of orders.

Jaguar genuine parts and accessories have been designed specifically to comply with Jaguar's high standards for safety and reliability. They provide the best solution for all your maintenance needs.

The Jaguar Accessory range allows you to create a Jaguar as individual as you are. Whether it's for business or leisure, touring or commuting, you can add the personal touches that help to make driving more rewarding.


There are accessories for all Jaguar models, including R Performance accessories for enthusiasts who want a more sporting look and feel. All Jaguar accessories are tested rigorously for safety and durability in all kinds of climates and conditions.


The Jaguar Collection is a special range of high quality merchandise which represents a unique opportunity to add a little extra Jaguar luxury to your life.

The range includes leisurewear, travel and fashion accessories, pens and sunglasses. For the enthusiast, there are also model cars and toys.

All items have been designed exclusively for Jaguar, and draw inspiration from our heritage, while taking advantage of the latest technical innovations.

## JAGUAR CHASSIS NUMBERS 1979－2000 Excluding USA／CANADA



## JAGUAR CHASSIS NUMBERS 1981－2000 USA／CANADA ONLY



## JAGUAR GLOBAL VIN CHASSIS NUMBERS FROM 2000MY ALL MARKETS



## wWW.eurospare.com

## J AGUAR V8 ENGI NE COMPONENTS

Through our extensive contacts within the automotive industry eurospare are pleased to offer a full range of components for the Jaguar V8 engine used in 'S' Type - XK8 and XJ Vehicles from 1998 Model Years.

As these vehicles are ageing it is commonplace for a vehicle to require timing chain maintenance and or replacement.


All parts listed are of at least original equipment specification and quality, a large majority directly from the Jaguar OEM to give you and your customers peace of mind.

The eurospare range covers the common maintenance items for this engine including Gasket Kits, Timing Chain Components, Ignition and Engine Cooling.

The Jaguar derived V 8 has now been adopted by Land Rover for use in the Range Rover, Range Rover Sport and Discovery/LR3 models.

We are expecting any future updates to this engine to be adopted by Land Rover for these models.

We are hoping to update the list of engine parts we offer with the relevant Land Rover application part numbers throughout the coming year.

This list is a selection of the items currently available from eurospare for this application.

| Part No. | Branding | Description |
| :---: | :---: | :---: |
| AJ8 8987 | OE | Cylinder Head Gskt MultiLayer Steel |
| AJ8 2217 | OE | Thermostat Housing |
| AJ8 2289 | OE | Primary Timing Chain |
| AJ8 2325 | OE | Primary Chain Tensioner |
| AJ8 2326 | OE | Primary Chain Guide |
| AJ8 2697 | Waxstat | Thermostat 4.2 V 8 |
| AJ8 5875 | OE | Thermostat Housing Cover |
| AJ8 5885 | OE | Outlet Pipe |
| AJ8 6484 | Waxstat | Thermostat \& Seal (Was AJ8 5874) |
| AJ8 8988 | OE | Cylinder Head Gskt MultiLayer Steel |
| C2A 1511 | OE | Secondary Chain Tensioner |
| C2A 1512 | OE | Secondary Chain Tensioner |
| EAZ 1269 | eurospare | Timing Chain |
| EAZ 1286 | eurospare | Timing Chain |
| JFB10607E | OES | Bolt -Secondary Tensioner (4 per car) |
| JLM 20750X | eurospare | OE Materials Head Gasket Set |
| JLM 20751X | eurospare | OE Materials Head Gasket Set |
| JLM 20935X | eurospare | OE Materials Head Gasket Set |
| NCA1995AF | eurospare | Primary Chain Tensioner (Primary) |
| NCA1998AB | eurospare | Timing Chain Guide (Primary) |
| NCA2017AF | eurospare | Timing Chain Tensioner (Secondary) |
| NCA2017BE | eurospare | Timing Chain Tensioner (Secondary) |
| NCA2025AB | eurospare | Timing Chain Guide (Primary) |
| NCA2270AC | OE | Thermostat Housing Cap |
| XR8 27823 | eurospare | Ignition Coil (On Plug) |

## THE CHI NESE ADVENTURE．．．

Chinese＇in tank＇fuel pumps have been sold around the World for many years，over the past few years Land Rover applications have become available and with this in mind we requested our UK manufacture to evaluate the quality of these units．

Engineers visited the factories in China to review various aspects including manufacturing techniques，material specification，service life and warranty issues．
The following comments cover observations made on a number of units from different factories．

Not all units exhibited all of the concerns mentioned，but every unit raised questions as to their suitability for service．Here are some of the comments the engineers made：
－None of the units examined show signs of＇In Process Testing＇giving rise for concerns regarding total quality control．
－Whilst units appear to have been copied in detail，there is no evidence that materials of the correct specification have been used．
－Hexavalent Chromate Process is being used（＝Gold Passivate），which is banned in the UK due to Environmental Concerns．
－Floats were found＇free to rotate＇but should be fixed to the float arm to reduce high frequency vibration to reduce wear and loss of accurate calibration．
－There was no evidence of leak testing of components and joints which is a significant safety issue．All units should be $100 \%$ tested
－There is no evidence of final calibration of any units．Many units examined would show a gauge reading HIGHER than the actual quantity of fuel in the tank．This would be worsened as the float progressively destroyed itself．
－None of the units examined carried a＇Manufacturers＇Mark to identify Country of Origin or Factory of Origin．Future liability for unit failure or contingent claims would be＇difficult to pursue and resolve．
－Materials used on Conductor material which should be high palladium silver were of questionable specification．
－＇Resistor values not within satisfactory＇tolerance．
－Moving arm and contact quality，and force loads questionable．
－The＇O＇Ring seal between Swirl Pot and Aspirator Housing was often of the incorrect material．This，and an incorrect（too hard）material used in the Aspirator valve，will result in the malfunction＂of the swirl＇Pot（its function is to retain fuel around the pump in low fuel conditions）．This will result in longer engine cranking periods and fưel rail pressurisation issues．
－There are no markings on any plastic moldings to indicate the grade of material used．It is not known whether a Fuel Grade Polymer（POM）has been used．There may be safety issues．
－We doubted whether the correct grade of solder is being used in production，particularly as liberties have been taken on other components．Unless a Silver content lead free solder has been used，silver would be leached out of the Tile resulting in short service life．
－Given the general lack of production control，incorrect material specification and unknown quality（this seems to vary between batches and factory of manufacture）we do not，currently，have confidence in recommending these products for service use．

Obviously these findings dissuaded us from offering these pumps as to do so would have offered limited service life and performance, poor starting, the possibility of running out of fuel as well as leaks of fuel between components which may of been a hazard on petrol applications, lack of manufacturers identity (no codes or build dates) which could impact on warranty issues and hazardous materials used in manufacture.


We therefore will continue to supply UK manufactured units until such time as we are totally convinced that the quality of the Chinese product will not disappoint our customers or endanger life.

A selection of the UK Manufactured fuel pumps available through Hotbray and our eurospare range of aftermarket spare parts are below with fitments.

| Part No | Fitment |
| :--- | :--- |
| ESR1111 | Range Rover P38A (Diesel) |
| ESR3926 | Discovery Series I, Range Rover Classic |
| ESR3928 | Defender '90' V8 Efi |
| PRC7018 | Defender 15 Gallon Fuel Tank |
| PRC7019 | Defender 10 Gallon Fuel Tank |
| PRC7020 | Defender 110, Range Rover Classic |
| PRC7129 | Discovery Series I, Range Rover Classic (Diesel) |
| PRC8318 | Range Rover Classic |
| PRC9409 | Discovery Series I, Range Rover Classic |
| STC4344 | Range Rover P38A |
| STC4345 | Range Rover P38A |
| WFX10045 | Classic Mini |
| WFX100810 | Classic Mini |
| WFX101020 | Discovery Series I |
| WFX101060 | Discovery Series II |
| WFX101390 | Range Rover P38A |



TEMPERATURE SENSOR (COOLANT AND AIB)
Function - This is used to measure both coolant and air temperature.
A varialle voltage relative to temperature is sent to the ECU.
Causes of Fallure - Conosion damage. Reistor faflure.
Symptoms - Incorrect signal to ECU. Poor ruming
Poor starting Incorrect mixture


## ENGINE POSTIION SENSOR

Function - This is used to measure engine speed and crankshaft position.
Cuuses of Failure - Impact or external damage.
Corrosion damage
Symptoms - Loss of or weak signal to ECU causing
failure to start or poor ruming.


## AIR FLOW METER

Function - Aiflow sensors are used to measure load by metering the volume of air flowing into the engine.
Causes of Failure - Sticking sensor flap.
Worn resistor track Base plate air leak.
Symptoms - Incorrect mixture signal to ECU.
Poor running Difficult starting


AIR MASS MEIER
Function - Utilising a hot film platinum sensor this device measures the mass of air entering the intake so the ECU can determine the engine load.
Causes of Failure - Contamination by ditt and moisture of the sensing element. Symptoms - Poor diveatility and throttle response, inceased fual consumption, fluctuating ide


## FUEL PUMP

Function - The fuel pump and the non return valve are fitted into the fuel supply system. They provide fuel under pressure to the injectot
Causes of Failure - General wear. Damage caused by contaminated fuel.
Symptoms - Low fuel pressure. Low fuel dalivery.
Poor rumning due to fuel starvation.

(11)
muln-outist coivcoll on plug
Function - The ignition coil trnsfoms the battery voltage to the 10,000 volits plis necessary to produce a spark at the plugs.
Causes of Failure - Vbration or heat damage causing
intemal failure. Crack around chimneys cassing arcing and tracking to earth.
Symp tons - Misfire or non start.


PRESSURE REGULATOR
Function - This ensures that fuel is supplied to the injectors at a constant pressure.
Causes of Failure - Non start Fuel starvation
Excess fuel delivery:
(13)


FUEL PUMP RELAY
Function - The relay is activated by either the ECU or ignition switch allowing current to pass to the fuel pump.


## MAP SENSOR

Function - This is used to measure the inlet manifold vacuum and to give load signal to ECU.
Causes of Failure - Intemal damage to the diaphragm and circuity cussed by petrol vaporir.
Symptoms - hcorrect misture Poor running.
Difficult starting.


THROTTLE POSITION SENSOR
Function - This is used to measure the throtle angle and the rate of throttle opening. This provides the ECU with a load signal.
Causes of Failure - Water ingress. Damage to resistor track
Symptons - Poor diveability, Ide problems.


## OXYGEN (LAMBDA) SENSOR

Function - This is used to measure the oxygen content in the exhaust gases. By providing a voltage signal to the ECU mixture adjustments can be made.
Causes of Failure - Age Heater failure. Impact
damage Fouled sensor (antif freeze, lead, soot).
Symptoms - hcorrect mixture control (MOT failure).
Poor driveability.


ECU
Function - Receives information from sersors.
The infomation is processed to enable the ECI to provide the appropiate control signal to the injectors and other actuators such as the col.


EGR VAIVE \& SENSOR
Function - Recircuates a small amount of the engines' echasst gases bad into the combistion
chamber. This further reduces NOX emissions by coling the combustion process
Cuses of Filure - Sticking open due to carbon build up.
Stiding shtt due to disphragm failure.
Symptoms - Stiding open: Vehicle dififalt to start, los of power. High fuel consumption.
Stiding shut Gauses engine pinking due to high temperatures in combustion chamber.

(12)


IDIE SPEED CONIROL VAIVE
Function - This component controls the idle speed by allowing air to bypass the throttle plate when the throtile is closed
Causes of Failure - Damage to electrical components and sticking internal parts.
Symptoms - Incorrect idle speed or cutting out at idle


## KNIOCK SENSOR

Function - Located on the engine block it detects engine detonation (pinking). The ECU responds to signals from
the knock sensor by retarding the ignition timing.
Causes of Fillure- Intemal damage to the electrical components.
Symptoms - 'Pinking' not reduced under load.


The power of EXCELLENCE

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## PRODUCT INSIGHT－BRAKE DISCS

## 

## NEW PART INTRODUCTI ON

## JLM21749 Jaguar Front Brake Discs BREMBO STYLE

Standard fitment on X308 \＆XK8 models fitted with＇R＇Performance Brakes，these discs are an exact replacement and provide performance to at least OE levels．

Sold as Pairs，discs are handed and balanced． （Pictured）

## Background

Through development with our supplier the range of eurospare brake discs is constantly growing， our current stock list is enclosed below as some items recently introduced may not have come to your attention．

## Technical

Our sales year on year are testament to the quality and competitiveness of our brake discs．


More and more of our customers are switching to eurospare brake discs－whilst we can offer European branded discs the quality／price of the eurospare items is now proving more popular．

All our discs have been sampled and checked against part drawings，material specification and tolerance figures．

Brake Discs are sold in singles except Brembo style items，these discs are handed and are offered as a matched，balanced pair in line with the current Jaguar specification．

All Brake discs are sold boxed and eurospare labeled．
For wholesale enquiries special pricing and shipping can be arranged for pallet quantities．
eurospare are also able to supply Brake Pads for the below applications in brands to suit your own preference

## PRODUCT LISTING－BRAKE DISCS

| Part No | Manufacturer | Fitment |
| :---: | :---: | :---: |
| 34．11．1．502．891 | BMW Mini | Mini Front Brake Disc ALL |
| 34．21．1．503．070 | BMW Mini | Mini Rear Brake Disc ALL |
| C 26779 | JAGUAR | Series III，XJS，E－Type Limo－All Models with Inboard Discs（Now Part |
| C2C 8354 | JAGUAR | S－Type－New X350 Saloon Front |
| C2S 35270 | JAGUAR | X－Type Front（Now Part No C2S42667） |
| C2S 35271 | JAGUAR | X－Type Rear |
| JLM 776 | JAGUAR | Series III，XJS Front |
| JLM 1305 | JAGUAR | XJ40 upto 1990MY Front |
| JLM 1450 | JAGUAR | XJ40 upto 1990MY Rear |
| JLM 1826 | JAGUAR | XJ40 from 1990MY \＆X300 Front（Now JLM20341） |
| JLM 1830 | JAGUAR | XJ40 from 1990MY \＆XJS With Outboard Discs Rear（Now JLM12424） |
| JLM 10928 | JAGUAR | XJ40 6．0 Litre Front |
| JLM 20150 | JAGUAR | X308 Saloon \＆Early XK8 Front |
| JLM 20342 | JAGUAR | X300，X308 Saloons，XK8 Rear |
| JLM 20617 | JAGUAR | X308 Saloon \＆XK8 Front |
| JLM 20801 | JAGUAR | S－Type Front |
| JLM 20802 | JAGUAR | S－Type Rear |
| J LM 21748 | J AGUAR | X308 Saloon，XK8 Rear－BREMBO Style＇Drilled＇Brake Disc Set <br> －PAI R |
| J LM 21749 | J AGUAR | X308 Saloon，XK8 Front（Was J LM21279）－BREMBO Style ＇Drilled＇Brake Disc Set－PAI R（Pictured） |
| XR8 27087 | JAGUAR | S－Type－New X350 Saloon Rear |
| 576973 | LAND ROVER | Defender 110 ／ 130 Rear Brake Drum |
| FRC7329 | LAND ROVER | Defender，Discovery Series I，RR Classic NON VENTED Front |
| FTC1381 | LAND ROVER | Defender，Discovery Series I，RR Classic Rear |
| FTC902 | LAND ROVER | Defender，Discovery Series I，RR Classic VENTED Front |
| NTC8780 | LAND ROVER | Range Rover P38A Front |
| SDB000201 | LAND ROVER | New Range Rover L322 Front |
| SDB000211 | LAND ROVER | New Range Rover L322 Rear |
| SDB000330 | LAND ROVER | Defender Late（Not 90）Rear |
| SDB000380 | LAND ROVER | Discovery Series II，Front |
| SDB000470 | LAND ROVER | Range Rover P38A，Discovery Series II Rear |
| SDB000604 | LAND ROVER | Discovery／LR3，Range Rover Sport（Diesel）Front |
| SDB000613 | LAND ROVER | Discovery／LR3，Range Rover Sport（Petrol）Front |
| SDB000624 | LAND ROVER | Range Rover Sport（Supercharged）Front |
| SDB000635 | LAND ROVER | Discovery／LR3，Range Rover Sport（Diesel）Rear（Now SDB000636） |
| SDB000645 | LAND ROVER | Discovery／LR3，Range Rover Sport（Petrol）Rear（Now SDB000646） |
| SDB100830 | LAND ROVER | Freelander NON VENTED Front |
| SDB101070 | LAND ROVER | Freelander VENTED Front |
| SDB500182 | LAND ROVER | New Range Rover L322（From 6A Chassis）Front |
| SDB500193 | LAND ROVER | New Range Rover L322（Supercharged \＆NEW TDV8）Front |
| SDB500202 | LAND ROVER | New Range Rover L322（From 6A Chassis）Rear |
| SDC100130 | LAND ROVER | Freelander Brake Drum Rear |
| C117J0028FR | LOTUS | Elise Mk2 Front \＆Rear |

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## PRODUCT I NTRODUCTI ON－RNB000740 \＆ RNB000750 Range Rover Suspension Dampers




We have now bought into our range these OEM suspension units to fit Range Rover（L322）up to 07 Model Year（6A999999 chassis）．
NOTE：Excluding SUPERCHARGED 06MY．


These units are combined shock absorber and air spring assemblies and are proving to be a commonly replaceable part on these vehicles；we are already seeing a large demand for the genuine units！

We have also ordered both suspension units in sturdy export packing to ensure safe despatch and onward transport to your customers．

Both Part numbers are now in stock ready for sale．


| Part No | Description | Fitment |
| :--- | :--- | :--- |
| RNB000740 | Shock Absorber \＆Air Spring Assembly RH | Range Rover（L322）upto <br> 6A999999 Chassis（Non－ <br> Supercharged） |
| RNB000750 | Shock Absorber \＆Air Spring Assembly LH | Range Rover（L322）upto <br> 6A999999 Chassis（Non－ <br> Supercharged） |

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## PRODUCT RELEASE RKB101200 DI SCOVERY II AIR SPRING

## Background

The Original Equipment（Continental） RKB101200 is proving to be a regular service item for Discovery Series II models （where fitted）

Trelleborg（Dunlop）have therefore introduced a direct replacement to resolve this issue branded PNEURIDE．

## Technical

The NEW RKB101200 from Trelleborg is identical in both size and operational characteristics to the OE item．

In order to facilitate replacement of the OE to the PNEURIDE air spring the vehicle will need to be changed to the more conventional Land Rover＇collet＇pipe fitting，
a service instruction sheet will be included in the standard packing．
eurospare ${ }^{\circledR}$
RKB101200 will be supplied boxed， containing a copy of the instruction sheet from Trelleborg detailing the simpler press／pull connection．

## Diaphragms

The eurospare range includes replacement diaphragms for the early Classic Range Rover air springs（NTC9819 \＆NTC9820）

These springs contain Metal（rather than plastic）mountings and therefore the diaphragm can be serviced and changed as a separate item．

| A Complete List of the Air Springs and Air Suspension components available through eurospare are below： |
| :--- |
| Part N ºscription Fitment <br> ANR3731 Air Suspension Compressor OEM Range Rover P38A <br> ANR3900 Suspension Drive Box OEM Range Rover P38A <br> ANR3902 Air Pressure Switch OEM Range Rover P38A <br> ANR4353 Air Suspension Compressor OEM Classic Range Rover <br> ANR4686 Suspension Height Sensor OEM Range Rover P38A FRONT <br> ANR4687 Suspension Sensor OEM Range Rover P38A REAR <br> NTC9812 Air Suspension Drier OEM Classic \＆P38A Range Rover <br> NTC9819 Air Spring OEM Classic Range Rover FRONT <br> NTC9819DPH Air Spring Diaphragm Replacement Diaphragm for NTC9819 <br> NTC9820 Air Spring OEM Classic Range Rover REAR <br> NTC9820DPH Air Spring Diaphragm Replacement Diaphragm for NTC9820 <br> NTC9826 Valve Block Solenoid Repair Kit OEM Classic Range Rover <br> REB101740 Air Spring OEM Range Rover P38A FRONT <br> RKB101200 Air Spring OES Discovery Series II REAR <br> RKB101460 Air Spring OEM Range Rover P38A REAR <br> RVH100030 Suspension Valve Block OEM Range Rover P38A <br> STC2762 Air Suspension Silencer（Exhaust） Range Rover P38A |

## www．eurospare．com

## PRODUCT RELEASE XP Performance Lead Sets

## eurospare are pleased to announce a range of Performance Lead Sets for Land Rover and Mini applications．

##  <br>   ＊＊—DI＊

## Background

Through research and development with our eurospare aftermarket supplier we are pleased to announce to market these new products．RTC6551XP has been in our pricelist for a while and we could see no reason not to develop the range to include the other standard aftermarket lead sets we offer．

## Technical

Typically original specification leads are made using stock cable of high resistance， thus providing only the spark the vehicle requires to function normally，usual resistance levels can be as high as 24 K ohms per metre．
eurospareXP Lead sets are all manufactured using high quality Red 8 mm Silicone／Silicone Braided cable with a ferromagnetic core，this provides a greatly improved low resistance level of only 5.6 K ohms per metre．

That＇s better than most other performance lead manufacturers claims！

Due to the specification of the cable used XP lead sets are very resistant to oil and moisture ingress and have a much higher temperature tolerance than original equipment fit．

## Guaranteed Fit

eurospareXP Lead sets are manufactured to exacting Original Equipment dimensions and fitments guaranteeing first time fit！

## Feedback

Results from testing have proved a more responsive throttle and noticeable performance improvement on the
 models tested．

| Part No | Fitment |
| :--- | :--- |
| HLS101XP | V8 Late Disco／RR Classic |
| HLS102XP | V8 P38A RR to WA Chassis |
| HLS103XP | V8 P38A from XA Chassis |
| HLS104XP | Freelander 1．8K to 2000MY |
| HLS105XP | Discovery Mpi |
| HLS106XP | Freelander 1．8K from 2001MY |
| RTC6551XP | Pre 94MY All V8 |
| HLS501XP | BMW Mini All Models |
| GHT241XP | Classic Mini Except MPi |
| GHT289XP | Classic Mini MPI |

## eurospareXP

All lead sets will be supplied in clamshell with a eurospareXP backing card providing a brief summary of the technical information here．

If you are interested in the range of automotive spare parts we offer please contact us using the following details.

Please include in your e-mail your full company name and address along with the relevant contact details.

The more information you can provide us the more tailored and competitive quote we can supply you.

> e-mail: sales@hotbray.net
> Tel: +44(0)2085450011
> Fax: +44(0)208545 0020

Please note that due to distributor agreements in certain markets we may not be able to provide you with a direct supply solution but will refer your enquiry to your local Hotbray and eurospare distributor.


## НОТВДАҮ

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The eurospare commitment is to supply you the right part of Original Equipment or higher quality.

We will not be led by our competitors in supplying 'cheaper', inferior quality parts.


## Made to BBitish Specilicalion

## For 4x4 and Prestige Veticles

