

SMART CHOICE

ISSUE 60 – SEPTEMBER/OCTOBER 2021



**Automotive
Parts Distribution Ltd**
Where professionals buy car supplies

INSIDE THIS ISSUE

FOCUS ON WIPERS

PLUS FEATURES ON:
EXHAUST SYSTEMS
TIMING BELTS
BRAKING
DIAGNOSTICS
AND MUCH MORE...

PLUS...



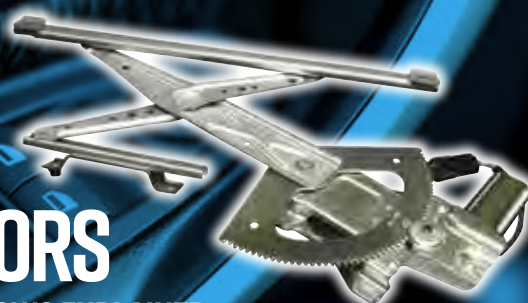
**Simon's
SPECIALIST
STUFF**

A selection of hard-to-find niche
parts that are readily available!



**WINDOW
REGULATORS**

ALL THE HIGHS AND LOWS EXPLAINED



WELCOME TO SMART CHOICE

ISSUE 60 SEPTEMBER/OCTOBER 2021

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Smart Choice Terms & Conditions

Offers end 31 October 2021. All offers subject to availability and change without notice. Certain featured products may not be stocked by all members. Call your local IFA Member with any stock or pricing queries. These offers cannot be used in conjunction with any offer except at the discretion of your local IFA Member. All prices shown are exclusive of VAT. Pictures used are for illustrative purposes only and products are not shown at actual size or to scale. All product/marketing claims are the responsibility of the company on behalf of whom they are made and are not the liability of the IFA or its agents. E & OE.

All lease payment examples are based on a 60 month repayment period and with a NIL DEPOSIT facility. All lease figures quoted are subject to VAT and status. Alternative lease plans are available and can be tailored to your exact requirements. If you have any questions regarding lease facilities please call Alliance & General Leasing on 02478 220 000.



www.wynns.com

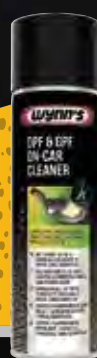
DPF CLEANING SOLUTIONS

FOR EVERY LEVEL OF DPF CONTAMINATION

SOOT LOAD >>>>

30-40%

70%



1

IN-TANK

DIESEL PARTICULATE FILTER
REGENERATOR

PN. 28392 500 ML

2

ON-CAR

DPF & GPF
ON-CAR CLEANER

PN. 29079 500 ML

3

OFF-CAR

OFF-CAR
DPF CLEANER

PN. 18985 5 L



ASK ABOUT OUR
DEALS ON MIXED
QUANTITIES!

HIGH QUALITY
MAINTENANCE RANGE
NOW AVAILABLE



Product Code	Description
ASP500	Spray Grease - Provides lubrication and corrosion protection
AWG500	White Grease - Provides lubrication and corrosion protection
AOR500	Release Oil - Rapid release capability
APB500	Brake Cleaner - Cleans and degreases brake clutch and component parts
APG500	Grey Primer - Superior coverage and protection
ACG500	Copper Grease - Protects metal components from corrosion, water heat and acid
ASS500	Silicone Spray - High performance extreme temperature resistant fluid
ARO500	Red Oxide Primer - Superior coverage and protection
ABG500	Gloss Black - Top quality, high performance aerosol for automotive topcoat refinishing
AMB500	Matt Black - Top quality, high performance aerosol for automotive topcoat refinishing
ASB500	Satin Black - Top quality, high performance aerosol for automotive topcoat refinishing
ADW500	Silver Wheel - Highly durable



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NEW MEGALIGHT ULTRA +200

- Ultimate performance with up to 200% more light on the road ahead*
- 100% xenon gas fill

*compared to minimum requirements of weighted illumination points of ECE R149

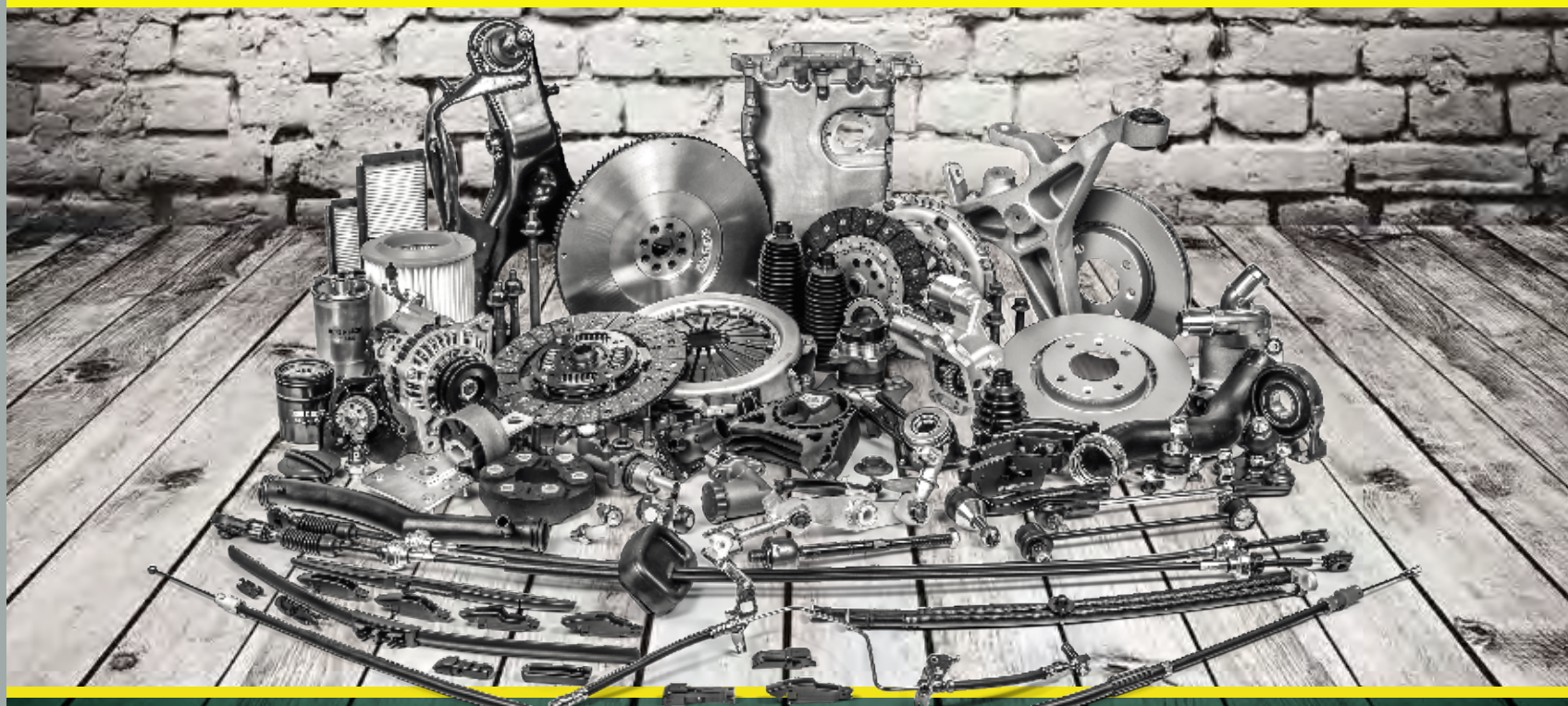


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RELENTLESS PERFECTION

FIRST LINE
THE ALL MAKES SPECIALIST



All relevant components are type-approved and we independently certify our products with the Vehicle Certification Agency (VCA)

Klarius Products offers the most complete range of aftermarket exhausts and accessories in the UK

First-class exhausts for second-hand cars

One of the recent post-lockdown phenomena has been a rebound in used car sales. However, as any used car buyer knows, the next service can often result in an unforeseen repair. Thankfully, Klarius Products offers an exceptional range of high-quality aftermarket exhausts, catalytic converters (CATs), diesel particulate filters (DPFs) and accessories to fit popular used cars and vans – ideal for the needs of stockists, distributors and repair garages.

Finding the right replacement

Recently, many people have taken the opportunity to purchase a used car or van. The level of demand has had dealers struggling to provide enough stock, with the prices of many models rising as a result.

However, even a used vehicle in the best possible condition will need repairs at some point. For a critical assembly that is exposed to the elements and demands of the road such as the exhaust, any damage needs to be addressed immediately to ensure compliance with emissions standards and the preservation of vehicle performance. Finding an optimum replacement exhaust for a used vehicle, especially if it's not a popular model, can be a challenge.

To help stockists, distributors and repair garages, Klarius Products, the UK's largest manufacturer of aftermarket exhausts has a comprehensive range ready for repairs and replacements.

A comprehensive range

Klarius Products offers the most complete range of aftermarket exhausts and accessories in the UK, encompassing over 11,000 applications that cover more than 24 million cars on roads today. With products designed to fit hatchbacks, superminis, crossovers, hybrids, light commercial vehicles, estates, SUVs, MPVs, saloons, sportscars and luxury cars all available – Klarius provides emission control components to cover a wide range of used vehicles.

Doug Bentley, Head of Research and Development at Klarius, explains the approach: "We pride ourselves on offering a quality range of exhausts that meets the needs of popular and niche vehicle applications equally. This is thanks to our in-house development, testing and manufacturing capabilities in Staffordshire, which allow us to take a turnkey approach to our new-to-range programme.

"First, we identify current and upcoming market needs, assessing vehicle applications that may require aftermarket replacements, new or old. Next, we develop exhaust systems utilising vehicles of correct make, model and production year - which ensures optimum fit and performance. All relevant components are type-approved. Furthermore, we independently certify our products with the Vehicle Certification Agency (VCA). This focus on quality means that our parts meet or exceed the performance levels of the original component.



"We secure total availability across our range thanks to demand driven manufacturing and extensive warehousing. As a result, we can maintain adequate stock levels for all components backed by a dedicated logistics network. This means stockists and distributors receive next day delivery for both popular and niche parts, ensuring that they have constant supply to immediately support their garage customers in delivering prompt and quality exhaust repairs."

Ready and available

Klarius Products offers replacement exhausts, CATs, DPFs and accessories designed to fit a multitude of used cars and vans.

The Ford Fiesta was the best-selling second-hand car in 2020. Klarius provides replacement exhausts for models from 1977-2021, including petrol, diesel and ST versions. In addition, Klarius has replacement exhausts to fit other used car market leaders such as the Ford Focus, Vauxhall Corsa, Volkswagen Golf, Vauxhall Astra, BMW 3 Series, Volkswagen Polo, Mercedes C-Class and Audi A3. Popular hybrid vehicles such as the Toyota Prius also have full systems in range.

Light commercial vehicles have plenty of exhausts available from Klarius, with systems for best-sellers such as the 1978-2021 Ford Transit, 1967-2021 Volkswagen Transporter, 2001-2014 Vauxhall Vivaro and the 1995-2015 Mercedes Sprinter.

SUVs and crossovers are also covered. The Nissan Qashqai and Juke have a wide selection of exhausts available, as well as models of the Ford Kuga from 2008-2021. The popular Vauxhall Mokka is also represented for models from 2012-2021.

Many have recently taken the plunge and bought used sports cars. The evergreen Mazda MX-5 has replacement exhausts in the Klarius range for 1990-2014 model years. Performance favourites such as the 1996-2002 Porsche Boxster and the Nissan 350Z are also supported in range.

All Klarius components in range are available with a Fit First Time guarantee and a 2-year warranty as standard, with next day UK delivery to stockists and distributors on all parts.

For more information contact your local branch today!


GARAGE EQUIPMENT

since 1922

I'll Give it FIVE

5 Years Warranty
5 Years Servicing
5 Years Calibrations
5 Months - nothing to pay*
£500 OFF one of FIVE great products*

Add a Tecalemit Peace of Mind Package to extend the warranty, calibrations and servicing for up to 5 years from just £11.83 per week

Choose a Premium upgrade package to further enhance the ATL bay and enjoy £500 off* another piece of Tecalemit garage equipment

PREMIUM PACKAGE

LED Matrix Display & Brake Tester Full Installation Frame
from just £6.36 p/wk


PREMIUM PLUS PACKAGE

LED Matrix Display, Full Installation Frame, Pneumatic Jacking Beam, Floor Strike Plates, Headlamp Beam Tester Upgrade, and Lift Platform Checker Plate Finish
from just £11.14 p/wk

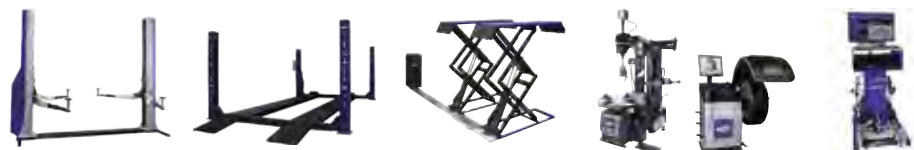
*Subject to status on purchases funded via Kennet Equipment Leasing, full details available upon request.

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From only
£100.84
per week
only £18999*

Get £500 off a Tecalemit 2 Post Lift OR Get £500 off a Tecalemit 4 Post Lift OR Get £500 off a Tecalemit Scissor Lift OR Get £500 off a Tecalemit Tyre Equipment OR Get £500 off a Tecalemit Wheel Aligners



*Select a Tecalemit ATL bay with a 5 year peace of mind care package, extending the warranty, servicing and calibrations, and either the Premium or Premium Plus upgrade package to claim £500 off another piece of Tecalemit equipment with a value in excess of £1950.00

Finance options are available. See page 2 for Terms and Conditions.

World class product. World class support.

Renowned as one of the world's leading manufacturers of OE shock absorbers, **KYB** also offer a range of free support tools for technicians.

KYB Support Zone

- ☒ 360° Product Images
- ☒ Recommended Tools
- ☒ Fitting Videos
- ☒ Technical Bulletins
- ☒ KYB Suspension Solutions App
- ☒ Training Materials



KYB



Shock Absorbers



Coil Springs



Mounting Kits



Protection Kits

Find out more at:
kyb-europe.com/support-zone



kyb-europe.com



KYBSuspension



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KYB-Europe



KYBEurope



Simon's SPECIALIST STUFF

A selection of hard-to-find niche parts that are readily available!



278-0009
CRANK SHAFT PULLEY
• To fit: **BMW Mini / Toyota 0**



584-0019
TANK UNIT, UREA INJECTION (ADBLUE)
• To fit: **PSA Group C4, 3008**



749-0019
UNIVERSAL JOINT KIT
• To fit: **Ford Transit 2006 > 2014**



694-0040
TENSIONER BEARING
• To fit: **Ford Transit MK6 & MK7**



588-0006
BEARING PROPSHAFT
• To fit: **Ford Transit MK7 06 >**



442-0019
HEATER RESISTER
• To fit: **Vauxhall / VAG Vectra C (2002 > 2008)**
Signum 2002 > 2009



442-0030
HEATER RESISTER
• To fit: **Ford B-Max, C-MAX, Grand C Max, Eco sport, Focus MK3, Kuga 2, Tourneo 14 > Transit 13 >**



175-0047
TRAILING ARM BUSH
• To fit: **Toyota Toyota Avensis 09 >**



735-0021
OIL FILTER, DIFFERENTIAL
• To fit: **VAG A1, Q3, RS3, RSQ3, TT, Octavia, Yeti, Golf, Tiguan, Transporter**



260-0002
HEATER BLOWER MOTOR
• To fit: **Citroen, Fiat , Peugeot Relay 06 > , Fiat Ducato 06 > , Peugeot Boxer 06 >**



394-0003
FUEL PRESSURE SENSOR
• To fit: **Ford Transit MK8 2.2**



140-0002
BONNET RELEASE REPAIR KIT
• To fit: **Ford Focus MK2**





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OUR PHILOSOPHY

Quality materials, quality processes and quality manufacturing all in pursuit of world class braking.

BRAKE PADS

Trusted to perform by a global network of OE, private label and aftermarket clients with millions of sets sold worldwide each year.

COATED BRAKE DISCS

Utilise an advanced formulation anti-corrosion coating for premium aesthetics and the promise of no de-greasing for faster fitment.



CONTACT YOUR LOCAL BRANCH FOR MORE DETAILS

THE 'CHECK & CHANGE' RULE

OVERVIEW

The auxiliary belt and drive system are among the few product that are often overlooked in terms of their regular examination and replacement. Why this is the case can be largely attributed to the fact that it is generally a very reliable system and few vehicle manufacturers (VMs) specify its change in their service schedules.

However, Dayco, a leading engine products and drive systems supplier for the automotive industry, is urging technicians to turn their attention to the auxiliary system for the benefit of the motorist and provide a business opportunity for themselves.

CHECK & CHANGE

Unlike the previous generation neoprene rubber based belt, the EPDM formulated belt used nowadays, wears very differently. So whereas during use, the previous technology would gradually lead the belt to perish by cracking or chunking – when a section of belt actually comes off – the current EPDM technology belt wears gradually, not unlike the wear to a tyre, which actually makes it more difficult to detect.

As a result, technicians should use the vehicle's mileage as their first point of reference, which means that if the vehicle has covered 60,000 miles or more, the belt should be thoroughly inspected and if it shows any sign of damage or wear, should automatically be replaced.



To help technicians correctly assess the condition of the belt, Dayco has designed the aWEARness® gauge, which provides them with three ways to check whether the belt needs to be replaced or is okay to be reinstalled. The two most relevant to an EPDM belt are the wear indicator bar, which highlights material loss and the profile indicator, which reveals whether the belt retains its correct form. Both

reflect the level of wear and if the belt fails either check, it must be replaced.

Wear on the belt could also indicate wear to the other components in the auxiliary drive system, which is why technicians also need to thoroughly assess the condition of these associated



parts. Particular attention should be paid to the tensioner, because, in common with the timing drive system, the wrong tension on the belt can exacerbate wear and contribute to the potential failure of the drive system.

Dayco provides a 'one-stop' solution for auxiliary system maintenance and replacement because, in addition to its original equipment (OE) designed belts, it also manufactures tensioners, pulleys and dampers, which means that technicians have the assurance that they are installing fully compatible parts. With torsion vibration dampers (TVDs) and water pumps also included in the Dayco offering, its auxiliary drive package is complete.

MARKET OPPORTUNITIES

By applying the generally accepted average annual mileage of 12,000 to the latest Department of Transport figures, there are almost 18 millions cars in the UK that are likely to have covered more than 60,000 miles. So, the vast majority of the cars that enter the typical independent workshop on a daily basis will be relevant for the 'check & change' rule, so providing them with a tremendous business opportunity.

RANGE AND QUALITY

Dayco has almost 1,500 belts – 48 of which are elastic and more than 20 double sided – in its PV range and all are application specific in accordance with the specification of the OE belt, which means technicians can be sure they are fitting the right belt for each and every application.

As Dayco is a full system supplier to the VMs, it is ideally placed to offer the independent sector the full range of components, which includes tensioners, TVDs, idlers and water pumps alongside its comprehensive belt range. This means that technicians are able to install a like for like, OE replacement, with the assurance that provides for them and their valued customers.

For more information regarding the OEM quality power transmission products in the Dayco range, visit: www.dayco.com

DAYCO®

MOVE FORWARD. ALWAYS.™

To find out more contact your local branch today!

Lucas

ELTA

LIGHTING THE WAY
FOR OVER 140
YEARS

Scan for
more info
and stand
contents



NEW!

200 Bulbs
Top 17 References
77% of UK Sales
The UK's **Original**
Lighting Brand

ZMB312

AN ICON EVOLVED

All the bulbs you need, exactly where you need them. The ZMB312 wall hanging bulb display is set to become the new icon of the automotive aftermarket.

To get your hands on one of these displays absolutely **FREE** see page 28 for details.

MAYPOLE

THE UK & IRELAND'S LEADING TOWING AND TOURING COMPANY

Smart charging solutions from Maypole

New additions to the range of electronic smart chargers, suitable for modern sealed AGM, Lead Acid and GEL batteries.

Features include:

- Suitable for a range of vehicles from cars, vans and leisure vehicles
- Automatic 9 stage charging cycle including diagnosis; charging and reconditioning
- LED indicators showing charging status
- Overheat, over-current and overcharge protection
- 1.5m leads with insulated crocodile clips (MP7403 has ring terminals)
- LED error indicator for reverse polarity, short circuit or open circuit
- Modern display packaging ideal for any retail environment

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Request a copy of our Winter Offer with over 30 new products! Contact sales@maypoleltd.co.uk to request your copy now

FUEL TONE

E10

E5

TECHNICAL UPDATE: CHANGE TO UK PETROL ETHANOL CONTENT

DURING SUMMER 2021, THE STANDARD (95 OCTANE) PETROL GRADE IN GREAT BRITAIN WILL BECOME E10. THE CHANGE IN FUEL APPLIES TO PETROL ONLY. DIESEL FUEL WILL NOT BE CHANGING.

ABOUT E10 PETROL

E10 petrol contains up to 10% renewable ethanol, which will help to reduce carbon dioxide emissions associated with petrol vehicles and tackle climate change. Petrol in the UK currently contains up to 5% renewable ethanol (known as E5).

E10 Fuels tend to lubricate less and age faster than regular fuels, resulting in less valve lubrication and a loss of octane rating. This leads to recession of the valve seat, engine knocking and accumulation of dirt in the fuel system. In addition, ethanol-based fuels are hygroscopic (attracts water) and corrosive to specific metals, rubber, and plastic parts.

FUEL TONE PRO PETROL SYSTEM CLEANER & OCTANE BOOST

In tank fuel additive:

FT-SC-P200 Single use 200ml retail / DIY can (case quantity 16)

FT-M500-P100 Multi use bottle high concentrate 5 x 100ml shots.

Cost effective multi dose bottle. Bottle incorporates 100ml chamber for rapid, accurate dosing. Used by professional garages as part of an annual service or to restore performance. (case quantity 12)



Tests were carried out in accordance with the European Drive Cycle Testing

THE BENEFITS IN USING

FUEL TONE PETROL FUEL SYSTEM CLEANER & OCTANE BOOST

FuelTone pro petrol fuel system clean & octane boost compensates for the adverse effects of E10 fuels and prevents engine damage. Regular use will protect the critical components within the entire combustion & fuel system: EGR valve, fuel injectors, oxygen sensors, catalytic converters.

- A** The best way to balance the down sides of E10
- B** Keeps your fuel economy better than E10 standard = more MPG!
- C** Solves ignition problems from water contamination and fuel destabilisation
- D** Reduces vehicle emissions



First choice for garage professionals! www.fueltone.pro

User review:

"Very impressed I had a 52 plate Fiat Punto come in from the MOT station as it had failed on high emissions. The car wasn't passing the cat test or lambda sensor tests so I didn't hold much hope, but I dosed the tank with 1 FuelTone Pro Petrol and took it for a 3-4 mile run and brought it back to the MOT station, even the Tester couldn't believe it as the same, and the car passed with Flying colours".

Jeremy Fischer • JCF Garage, Blairgowrie

Documented Testing by the Robert Gordon University shows:

- Up to 10% increase in brake horse power
- Up to 7% improvement in fuel consumption
- Improved efficiency of combustion
- Significant emissions reduction

FuelTone of Scotland - expert fuel chemists. We manufacture a concise range of fuel system clean & boost products, DPF & engine clean solutions, for professional garages & mechanics.



Seamless journeys start with BGA.

Fit Steering & Suspension with confidence.

Matching OE Specification

Induction hardened with a Cataphoretic coating

Industry leading grease (LN584 LO)



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THE QUEEN'S AWARDS
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2020

DRIVE BELTS

PULLEYS

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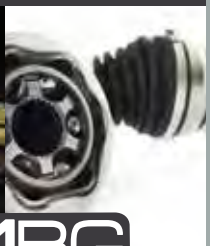
LUBRICATION

PSP

STEERING

TIMING

CV/DS



4BG
GROUP

FERODO®

in collaboration with



TECHNICAL TIPS N°5: LOSS OF BRAKING EFFICIENCY

VAPOUR LOCK N°2



VAPOUR LOCK

In the previous leaflet **Vapour Lock N°1** we discussed the cause of vapour lock and provided some insights into choosing the correct fluid according to needs and highlighted the wet and dry boiling points. However, it is just as important to check brake fluid regularly and, when moisture content is too high, to replace the brake fluid.

TESTING BRAKE FLUID

Although many vehicle and brake manufacturers give minimum recommendations, the right time to change the brake fluid should not be based on the vehicle's mileage or age. The only real way to know is to test the brake fluid. And the only approved way to test it is by boiling it.



CONDUCTIVITY OR "PEN-TYPE" TESTER

TESTERS

Conductivity or "pen-type" testers do not boil the fluid. They estimate the water content electronically. In theory, conductivity (and/or capacitance) increases with moisture content, but these testers can potentially fail new fluid and pass contaminated fluid. This is because the conductivity of brake fluid varies hugely from manufacturer to manufacturer, from batch to batch, and from grade to grade. For your safety and that of your customers, make sure to use an adequate tester.



FERODO BRAKE FLUID TESTER

FERODO BRAKE FLUID TESTER

Ferodo has developed a high-quality brake fluid tester to ensure you can accurately measure the brake fluid of your customers. It is available under part number FFT100A. In cases where customers require totally accurate water content, Ferodo can determine it by using industry standard techniques such as the well-known Karl Fisher method for water content.



REPLACING BRAKE FLUID

1. CHOOSE THE RIGHT BRAKE FLUID:

Caution: Prior to bleeding the system, conduct a master cylinder leak pass test. This is done by attaching a pressure gauge to the closest caliper brake pipe. The system must then be pressurized to 50 bar for 45 seconds, during which there should be no more than a 4 bar loss of pressure. More than a 4 bar pressure drop indicates a master cylinder leak pass, requiring further attention. A second check can also be carried out but at a lower pressure of 10 bar still checking for loss of pressure and longer pedal travel to double-check for weaknesses in the system.

BLEEDING PROCESS – VEHICLES WITH FRONT AND REAR DISC BRAKES

All brake bleeding needs to be conducted in a set order, starting with the brake caliper furthest from the master cylinder (either left rear or right rear dependant on the vehicle configuration, i.e. Left-Hand Drive or Right-Hand Drive).



- With all bleed nipples closed, fit a bleed pipe to the first caliper and loosen the nipple.
- Using slow, full and firm strokes of the brake pedal continue until the brake fluid is visually (in the bleed pipe) clean, and clear of air bubbles.
- With the pedal fully depressed tighten the bleed nipple, and remove the bleed pipe.
- Continue to the opposite rear caliper and repeat the procedure.
- After completing the rear calipers make certain the front calipers are also properly functioning and free of air bubbles by bleeding the front calipers starting also furthest from the master cylinder, and finishing closest to the master cylinder.
- Finally ensure that an adequate pedal pressure is achieved.

BLEEDING PROCESS – VEHICLES WITH DRUM BRAKES

All brake bleeding needs to be conducted in a set order, starting with the wheel point furthest from the master cylinder (either left rear or right rear dependent on the vehicle configuration, i.e. Left-Hand Drive or Right-Hand Drive).

Prior to starting the bleeding process it is essential to ensure the correct manual adjustment (if present) is carried out on the brake shoes to brake drum clearance, to ensure the clearance is correct according to manufacturers specifications.

- With all bleed nipples closed, fit a bleed pipe to the bleed nipple, of the wheel cylinder furthest from the master cylinder and loosen the nipple.
- Using slow, full and firm strokes of the brake pedal, continue until the brake fluid is visually (in the bleed pipe) clean, and clear of air bubbles.
- With the pedal fully depressed tighten the bleed nipple, and remove the bleed pipe.
- Continue to the opposite rear caliper and repeat the procedure.
- After completing the rear calipers make certain the front calipers are also properly functioning and free of air bubbles by bleeding the front calipers starting also furthest from the master cylinder, and finishing closest to the master cylinder.
- Finally ensure that an adequate pedal pressure is achieved.

VXPRO

WINDOW LIFT REGULATORS

IT'S TIME TO
POWER UP...

1950+
part numbers

50,000
applications

30,000,000
vehicles on the road



eltaeurope.com **ELTA**

Brand New to Range

Brake Disc Shields



febi now offers an extended range of over 60 high-quality brake disc shields for popular vehicle models.

Located on the suspension assembly, Brake Disc Shields are fixed to the wheel hub or suspension knuckle behind the Brake Disc. Braking, Steering, Suspension and Electrical components are all at risk of deterioration from excess heat, debris contamination or water damage if the Brake Disc Shields are missing or damaged on a vehicle.

For more information contact your local IFA branch



You can find our full range of Brake Disc Shields at:
partsfinder.bilsteingroup.com

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febi.com/3



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WINDOW REGULATOR TYPES EXPLAINED

As aftermarket demand continues to grow year-on-year, window regulators have become a staple in most motor factor product ranges. As supplier of one of the UK's most established and comprehensive aftermarket ranges, ELTA help us get to know this sometimes challenging product group a little better.

Electric window lift regulators fall into four distinct types of mechanism. All have the same aim of raising and lowering the window glass but go about the task in different ways.



THE CABLE SYSTEM

As one of the original technologies, the cable system has been superseded by newer more refined systems. It is however still common on older vehicles and heavy commercial vehicles. Unlike newer systems, the cable is attached to just one side of the sliding mechanism.

This made it more efficient in one direction than the other and both the motor and cable were placed under high strain at times. It did however deliver a compact light weight system and became the foundation for modern systems.



THE BOWDEN SYSTEM

This system improved upon the traditional cable system by attaching the cable to both ends of the slider. This improves the efficiency of the mechanism and delivers a smooth up and down motion whilst remaining compact in form. As a result the Bowden system is the most common technology in use and is suited particularly well to 4 and 5 door passenger vehicles.



THE DOUBLE BOWDEN SYSTEM

The Double Bowden system is the latest advancement and builds upon the standard Bowden system by including two sliders, one each side of the window. This makes raising and lowering windows smoother and more even. The system is ideal for larger windows but requires more space within the door making it the preferred option for 3 door vehicles which tend to have heavier glass to move and longer doors to accommodate.



THE SCISSOR SYSTEM

As its name suggests this system uses a scissor mechanism to raise and lower the glass. It uses a simpler gear system in place of cables which in theory should be more robust than cable technologies. Whilst the scissor system does produce good results it is larger and heavier than its cable based counterparts. As such it is less common overall but still popular in Japanese applications as well as Vauxhall/Opel vehicles.



ONE COMMON FACTOR...

Whatever the system, all window regulators comprise moving parts and so will be subject to failure from general wear over time. Corrosion as a result of water ingress from window seals into the door is perhaps the most common root cause of premature failure. But inevitably in time, cables will fray, pulleys and roller wheels will wear and articulated joints will fail, and so window regulators are sure to remain a key product group for motor factors for the foreseeable future.

TO FIND OUT MORE CONTACT YOUR LOCAL BRANCH TODAY!



CLEAN UP WITH CARWOOD

// Fitted to diesel vehicles from 2009, the diesel particulate filter, or DPF, is designed to trap harmful particulate matter in the exhaust. Yet, unlike other filters, it is simply not cost-effective to replace when full. Instead, the trapped soot must be periodically emptied or 'burned off' through either passive, active or forced regeneration.

How do DPFs become blocked?

Unfortunately, there are many factors that can stop regeneration from working effectively, or even starting, resulting in a blocked DPF:

- frequent stop-start or short journeys at low speeds, where the engine fails to meet required temperatures or the cleaning cycle is interrupted
- a dashboard warning light in two stages - amber > red - or a diagnostic trouble code stored in the ECU
- sulphated ash &/or additives contained in some engine oils
- excessive soot caused by a faulty injector, turbocharger, EGR or corrupt ECU data
- a fuel or Eolys™ additive tank less than a quarter full
- a poorly serviced vehicle

Depending on the blockage, regeneration may not be able to burn the soot content fully. In this case, the only way to completely remove any particles, is to either fit new, & with this costing upwards of several hundred pounds it is rarely viable, or have it professionally cleaned by a company like Carwood.

Carwood's DPF cleaning service

Using a unique bio-enzyme cleaning agent & patented pulse system, it cuts through even the hardest to remove ash & eradicates any residual matter, restoring the filter to 98% of the OEM's original efficiency. With airflow tests before & after clean, a 12-month reclean guarantee, quick turnaround times & technical hotline support, it ensures **a filter that is just as good as new**, but at a fraction of the cost.



www.carwood.co.uk



LAUNCH UK

www.launchtech.co.uk

X-431 PRO 5 PLUS **NEW**

- OS: Android 9.0
- CPU: 1.8 GHz 8 Cores
- 4GB memory
- Internal 64GB
- + microSD card 32GB
- 10.1" touch screen
- Battery: 7000mAh
- Wifi: 2.4GHz and 5GHz
- Camera: Front 5MP, Rear 8MP

ONLY
£1950
5 Year Lease £10.35pw

1 year
Haynes Pro
Electronics!

2 Years
of Software
Updates
PLUS: 2 years
warranty!

X-431 PRO 5 LITE

- OS: Android 9.0
- CPU: 1.8 GHz 8 Cores • 4GB memory
- Internal 32GB + microSD card 32GB
- 10.1" touch screen
- 16 pin DBS car connector and extension cable

ONLY
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2 Years
of Software
Updates
PLUS: 2 years
warranty!

Option for
Haynes Pro
Electronics
& ADAS!

X-431 PRO Turbo **NEW**

- OS: Android 9.0 • CPU: 2.0 GHz 4 Cores
- Internal memory: 3GB • Storage: Internal 32GB
- Screen: 8" 1280x800 IPS • Battery: 5000mAh
- Wifi: 2.4GHz and 5GHz • Camera: Front 2MP, Rear 5MP

ONLY
£1395
5 Year Lease £7.40pw

CRP 129 EVO

The CRP 129 EVO is an intelligent and network friendly diagnostic tool based on Android. It has the OBD full functions that best meets the entry-level market demand for passenger cars, as well as the basic diagnostic functions of the four vehicle systems: Engine, Automatic Transmission, ABS and SRS. Compared with the previous CRP 129 Premium, the EVO has more vehicle service functions and the ability to be updated via WiFi directly, no need to connect to PC update tool.

- Full OBD II functions
- Data record and replay
- DTC read and clear, Livedata of 4 systems (Engine, AT, ABS, SRS)
- Diagnostic report
- Feedback function
- Software online update



CRP 129 EVO
ONLY
£329

X-431 EURO MINI

X-431 Euro Mini is a smart diagnostic device which supplies full systems diagnosis for more than 80 vehicle brands. It includes LAUNCH's advantages in diagnostic technology, such as wide car model coverage, powerful test functions, numerous special functions and accurate test data.

Thanks to the Android 7.0 operating system, diagnostic reports can be printed through a printer APK or shared to Email. The compact device dimensions allow for easy handling and storage.

The Euro Mini is a highly capable entry level diagnostic tool.



X431 EURO MINI
ONLY
£995



X431 EURO TAB 2

X431 Euro Tab II is a high end diagnostic tool with docking station. Developed around Android version 7.1 with new features such as DOIP, J2534 pass-through online programming, DCT-based database, intelligent diagnosis, etc. It inherits all the excellent functions of the previous generation tool. It supports dual 5GHz WiFi communication.

10" SCREEN **WIFI**
ANDROID **BLUETOOTH**

X431 EURO TAB 2
ONLY
£3250
5 Year Lease £17.25 pw

Automatic Transmission Cleaner & Fluid Exchanger

- Detergent based cleaning cycle
- Standard adapter set PLUS optional set cover most vehicles
- Connects to most transmission units, including double clutch & CVT types
- One year **FREE** access to Launch UK database:
 - transmission type
 - oil quantity
 - correct adapters
 - fitting location photographs
 - oil level check points
 - correct procedures

ONLY
£2995

5 Year Lease £15.90 pw

'Sealed for life' transmissions are a thing of the past

Smoother gearshifts

New synthetic fluid restores lubricating & friction coefficients to original specifications

A lucrative opportunity for new work!

Automatic transmissions are no longer 'sealed for life'. Vehicle manufacturers have started to add a complete fluid exchange in the service schedule at around 75,000km (46,000 miles).

Just draining removes only 45% - 60% of the transmission fluid, as the fluid does not drain out of the torque converter, cooler lines, valve body, etc. The CAT5015 consistently and reliably provides a 99.9% fluid exchange thanks to the load cell weighing technology and advanced software.



SMOKE 1 AUTOMOTIVE DIAGNOSTIC LEAK DETECTOR

The Launch UK SMOKE 1 leak detector has been specifically engineered for vehicles sold in the EU.

Operating at higher pressure than EVAP models the SMOKE1 is perfect for quickly finding leaks in petrol and diesel turbo systems. The smoke vapour will find leaks in many closed systems such as intercoolers, exhaust systems, intake manifolds, wind and water leaks etc, etc.

SMOKE 1 ONLY
£395

For leasing Terms and Conditions please see page 2.



SMOKE 2 DIAGNOSTIC LEAK DETECTOR, SMOKE MACHINE

The Launch Smoke 2 v2.0 diagnostic leak detector is a specially engineered device for EU vehicles, operating at a higher pressure than EVAP models. Perfect for finding leaks in petrol and diesel turbo systems, as well as inter-coolers, exhaust systems etc.

SMOKE 2 ONLY
£595



To find out more, please visit www.launchtech.co.uk or ask your local branch.



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'for all your lubrication & fluid handling needs...'

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GAS**www.SGSGases.co.uk**ARGON MIX - PURE ARGON - OXYGEN - PRO FUEL - NITROGEN****10L Oxy Pro Fuel Kit****1 x SGS OXY10 • 1 x SGS FUEL10 • 1 x SGS PFK10LW****PFK10LW Includes:**





- | | |
|---------------------------------|------------------------------------|
| 1 x Oxygen Regulator | 1 x Lightweight Cutting Attachment |
| 1 x Pro Fuel Regulator | 1 x L/W #5 Welding Nozzle |
| 1 x 10L Trolley | 1 x L/W #7 Welding Nozzle |
| 1 x Oxygen Flashback Arrestor | 1 x L/W Heating Nozzle |
| 1 x Pro Fuel Flashback Arrestor | 1 x FN Cutting Nozzle |
| 1 x 5m, 6mm Oxygen Hose | 1 x Cuplighter + Flints |
| 1 x 5m, 6mm Pro Fuel Hose | 1 x "Sports-type" Bag |
| 1 x Lightweight Shank | 1 x Spanner |
| 1 x Lightweight Mixer | 1 x Goggles |



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THERE IS A 20L VERSION! ASK FOR PART
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Please note: PFK10LW does not include cylinders, which are sold separately.

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-  [NGK Spark Plugs \(UK\) Ltd](https://www.linkedin.com/company/ngk-spark-plugs-uk-ltd)
-  ngkntk.com/uk

HAVE YOU GOT THE APP?

Earn points faster, get free gifts quicker. It's now easier than ever to reap the benefits with the new BoxClever app from NGK

Since its introduction over 15 years ago NGK BoxClever has proved a favourite with the UK garage trade. Its simple formula of exchanging product boxes for free gifts has been often copied, but never bettered. And now BoxClever has just taken another step in making the scheme more accessible than ever before with the launch of the new BoxClever app.

The app, which is available for Apple and Android phones and tablets, offers members some great extra benefits:-

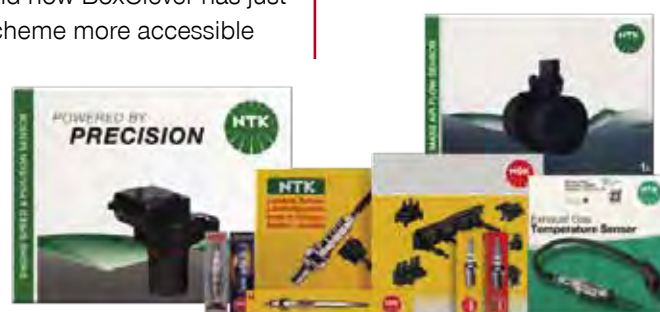
- Free scratch card every time you bank your boxes means you can pile on the points faster than ever before

- News of special offers and promotions are delivered straight to you via the app so you will never miss out again.

Needless to say the BoxClever app is easy to use and packed full of useful features which means you can enjoy the benefits your points bring you wherever and whenever you want such as:-



- Checking your balance
- Ordering gifts



Every NGK NTK single box earns you points

Of course you'll also be the first to know of new gifts as they are added to the collection and there will be lots of those added over the coming months.

The app is free to members and non members, so if you haven't taken advantage of being a member now's the time. To download your copy simply go to the Apple App Store or GooglePlay and search for NGK UK Boxclever. Alternatively you can also download it via our website at ngkboxclever.com.

ngkboxclever.com



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PARTS



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ELECTRONICS



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RANGE**

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Choose SCM Turbo Service-Exchange



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**12 MONTH
NO QUIBBLE
REPLACEMENT
GUARANTEE**

FOCUS ON WIPERS

When the weather turns keep your customers safe with our range of wiper blades from the leading manufacturers

Clearly a better choice

Trupart
automotive

REAR BLADES

- 95 references covering over 400 applications.
- Applications include: Fiat Punto 06-18, Nissan Micra 10-17, VW Golf 09-20, Ford Focus 18>
- Full specific fit range
- Flat, Metal and frame blade types

REAR BLADES WITH ARMS

- 240 References covering over 300 applications.
- Applications include: Vauxhall Zafira 05-14, Kia CEED 12-18, Mercedes Sprinter 18>, Nissan Juke 15-20, VW Golf 09-20

Reasons for arm failure

- Snow damage
- Washer fluid corrosion
- Damage when changing rear wiper



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THE ORIGINAL

TRUST THE N°1 WIPER

As the **N°1 Wiper system specialist**, Valeo innovates and introduces to the aftermarket the latest O.E innovations on its premium brand.

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for customers looking for the exact same blade as the original...save time, fit Silencio™



Conventional V24-V65 VM11-VM222	Hybrid VH142 -VH156	Flat Blade VF303-VF945	AquaBlade™ VA301-VA309	Rear VR1-VR276
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60 References 10 References 168 References 10 References 63 References



- Synthetic rubber for tearing resistance
- Natural Rubber for best in class wiping quality
- New micro precision edge cutting
- Perfect Fit
- Valeo best performance over time

SILENCIO™ Flat Blades

Ensure perfect initial wiping quality and improved wiping efficiency over time thanks to its VisioRubber™

SILENCIO™ Hybrid

A mix of conventional and flat blade technology developed for Asian car manufacturers.

SILENCIO™ Rear Blades

Provides the driver with perfect visibility at the rear of their vehicle. Improve safety by also replacing the rear blade with Silencio™ exact fit.

HYDROCONNECT™
SOURCE OF PERFORMANCE



Maybe the easiest front and rear multi-connection, with only 3 adaptors!

HYDROCONNECT™, source of Performance for customers looking for an optimised range covering maximum car parc coverage for both front and rear applications.

AQUABLADE™

Valeo Aquablade

O.E. Innovation is now available in the aftermarket. This latest wiper technology is improving driving safety as the screen wash is distributed along the entire length of the blade and immediately wiped away.



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Driven by

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NEW!More robust
wiper rubber**A clear view, for longer: The new Bosch Aerotwin**

Thanks to the long-life wiper rubber profile with improved Power Protection Plus wiper rubber and the proven Evodium spring strips, the new Aerotwin now offers even more robust protection against environmental influences. As a result, it not only ensures outstanding wiping results for longer, but also provides even more driving pleasure.

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drives us**

Brakes for All Makes



Blue Print Brake Pads Optimal Safety & Comfort

Blue Print now offers an extensive range over 1,250 brake pads for Asian and European vehicle applications covering over 96% of all popular cars on European roads year 2000 and onwards.

Every Blue Print product is researched, designed and manufactured to be premium OE matching quality and undergoes stringent and regular quality checks to ensure optimum performance & long service life.

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Get more information about our complete offer of braking components at our online catalogue:

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SPECIAL OFFERS AVAILABLE

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WD-40 450ml Smart Straw

With Spray2Ways technology - for both wide coverage and precise application

WD-40 400ml Flexible

Flexible metal straw that holds its shape. Designed to get to those hard to reach areas

WD-40 5 Litre

For when an aerosol can is not large enough for your needs



LIVE LIFE **HANDS ON.**



ELECTRIFYING SUPPORT



Expanded new GS Yuasa automotive auxiliary battery range revealed

GS Yuasa, market leader for automotive batteries, have announced they have given their HJ auxiliary batteries range a fresh new look and expanded the range by adding four new popular types. The new HJ series batteries will be used in a wide range of popular Lexus and Toyota 12V auxiliary & backup applications.

The global battery manufacturer has rebranded their popular HJ series with the introduction of four new GS Yuasa auxiliary batteries. The HJ-S55D23L, HJ-S55D23R, HJ-S65D26L and HJ-S75D31L have been introduced to meet the ever more demanding needs of modern-day vehicles. Thousands of automobiles in the UK vehicle parc, predominantly Lexus & Toyota hybrids, require these batteries to help support the extra electrical loads in conjunction with the main HEV battery.

GS Yuasa's HJ Auxiliary range now consists of a total of nine applications. The rebranded batteries incorporate a new style Japanese Absorbed Glass Mat (AGM) lid and a fresh-looking label design. The expanded range and four new addition batteries are available to purchase now.

Jon Pritchard, General Manager – Sales and Marketing at GS Yuasa Battery Sales UK Ltd, said: "We are delighted to have expanded our HJ Auxiliary range by adding four new auxiliary batteries. The new types will provide a solution to thousands of vehicles that require an auxiliary battery to support their start-stop and next generation systems. We have manufactured these batteries to Original Equipment specification and with a heavy demand in the market we are pleased to be able to offer it to customers.

"Our constant development has helped automotive manufacturers develop cleaner, more efficient vehicles and it's exciting to add our global expertise to the industry."

Developed to Original Equipment (OE) standard for quality, performance and specification, the new HJ batteries are ideal for the unique requirements of vehicles with enhanced auxiliary battery systems. A key feature of these new types is the built-in temperature sensor in each battery lid. Required by modern Lexus vehicles, this has been implemented to improve charge management of the battery and extend service life.



To find out more contact your local branch!

A new generation of braking performance.



FULL SPEC. FULL STOP.™

BLACK.



Perfectly matched to premium applications.

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www.apecbraking.co.uk

*image for illustration purposes only

AUTEL**SMARTER DIAGNOSTICS**

UPGRADABLE TO
ADAS
CALIBRATION

MAXISYS MS909

The all new MaxiSYS MS909 shares the same tablet hardware as the MS919. The MS909 does not include multi-purpose VCI, but instead is supplied with our MaxiFlash VCI with Enhance Protocol Compatibility, which supports D-PDU, RP1210, CANFD, J2534 and DoIP protocols.

The MS909 combines diagnostics, service, extensive live data, channel coding and ECU reflashing. The MS909 also has further programming options directly within the tool software itself (focusing on BMW, Mini and Mercedes). In addition, the MS909 has all new software specialist capabilities that we have named Repair Assist, DTC Analysis, Topology Mapping and Relevant Cases.

SPECIFICATIONS

- Android 7.0
- 2,3GHz + 1,7Ghz Samsung Exynos 8895v Octa-Core
- 128GB internal memory
- 4GB RAM
- 9.7" 2048 x 1536 TFT-LCD Corolle Glass
- Ultra fast power on
- 15,000mAh Lithium-Polymer Battery
- Oil and Water screen Resistant

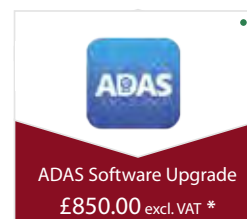
1 YEARS SOFTWARE UPDATES INCLUDED

SOFTWARE UPDATES + BOLT-ONS



Future 12 months Update

£995.00 excl. VAT *



ADAS Software Upgrade

£850.00 excl. VAT *

£2,995 excl. VAT

£15.90pw excl. VAT

includes:
Extended 2 years warranty
Extended 1 year free updates

MAXIBAS BT506

NEW

The BT506 is a battery and electrical system analysis tool that use as Adaptive Conductance an advanced battery analysis method, to produce a more accurate examination of the battery's cold cranking ability and reserve capacity, vital to determining a battery's true health.

The BT506 is a 'bolt-on' accessory to the MS908s, MS908ProS, MS Elite, MS909, MS919 or MS Ultra, and enables technicians to view the health status of vehicle's battery and electrical system



Connects to
Autel Tablet

SPECIFICATIONS

- Connectivity : USB 2.0, Type C
- Working Current : < 150 mA at 12 V DC
- Voltage Range : 6 to 36 V
- CCA Range : 100 to 2000 A
- Working Temperature : -10° to 50° C
- Input Voltage : 5v DC
- Weight : 320g

£160 excl. VAT

MAXIBAS BT608

The BT608 is a touchscreen Battery & Electrical System analyser that applies Adaptive Conductance, an advanced battery analysis method that produces a more accurate examination of the battery's cold cranking ability and reserve capacity, vital to determining a battery's true health.

The BT608 can display a quick health status of the existing battery, register a new battery and perform advanced battery and electrical system diagnostics.

The BT608's VINscan function enables quick identification of the vehicle and battery specifications. Read/Clear codes on all available vehicles systems. Print or share customised reports via Wi-Fi

SPECIFICATIONS

- Operating System : Android 9.0
- Screen Display : 5.5" LCD touch screen with 720*1280 resolution
- Storage : 32 GB
- Connectivity : Wi-Fi (802.11a/b/g/n/ac), USB 2.0 , Type C, BT5.0+EDROil
- Camera : 8 Megapixel
- Input Voltage : 5 V DC
- Working Current : < 450 mA at 7.7 V DC
- Internal Battery : 7.7 V, 3000 mAh
- CCA Range : 100 to 3000 A
- Voltage Range : 1.5 to 36 V
- Weight : 510g

£485 excl. VAT

includes:
Extended 2 years warranty



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A NEW ZMB312
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wiper blades in the most popular
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Instant Stock and Display Solution

All the bulbs you need, exactly where you need them. Stand includes 200 of the industry's top 17 automotive bulbs

Completely New Design

A modern new look, now engineered from solid plastic and colour matched in iconic Lucas green.

Built to Perform

A clever modular Euro-hook hanging rail slots into place below the boxed bulbs. Utilise this to cross-sell Lucas wiper blades or boost your sales by up-selling the Lucas LightBooster upgrade bulb range

To be in with a chance of winning simply text:

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**UFI FILTERS, THE BEST CHOICE
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UFI Filters is a global leader in filtration technology and thermal management. It serves a wide range of sectors from automotive, aerospace and marine to specialised industrial and customised hydraulic applications.



>250
INTERNATIONAL
PATENTS

UFI Filters, owning more than 250 international patents, continues to set higher standards in technology and innovation.

CARTRIDGE CODE

26.E2X.01

MAIN APPLICATIONS

VAUXALL Insignia Mk2 (Z18) 1.6 CDTI 110 81KW 110HP 03/17 ›
Insignia Mk2 (Z18) 2.0 CDTI 170 125KW 170HP 03/17 ›

Thanks to continuous technological innovation and to investments into cutting-edge products, UFI Filters has consolidated its reputation as a leading OEM supplier of filtration systems both for the automotive market and for special applications.

A new milestone for diesel filtering: **UFI Filters** has made the OEM Filter water-diesel separation system even more efficient for the **Vauxhall Insignia B 1.6 and 2.0**. Developed in **UFI Filters' Innovation Centres**, the **new patented filter 26.E2X.01** guarantees an **improved filtering efficiency**. The innovative core covered by a **hydrophobic net**, channels the waterdrops, separated from the fuel by a coalescence process, from the outside inwards. The new cartridge is available from the UFI catalogue, with the code 26.E2X.01.

PLUS

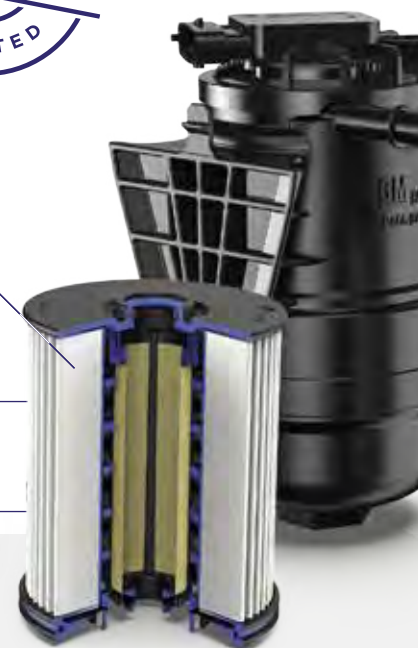
- + **Particle filtering capacity up to 99% at 4 µm**, in accordance with ISO 19438.
- + **Water separation efficiency of 96% at 10µm**, in accordance with ISO 16332.
- + The first UFI filter with a **hydrophobic core in the cartridge**.
- + **Reduction of water re-entering in the circuit.**



Pleated layer in meltblown and cellulose

Hydrophobic core

Filtering process: from the outside inwards



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ULTRA PREMIUM EMISSION SYSTEMS

What's Important is What's Inside the Box

EuroFlo
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- ✓ Ultra Premium Quality
- ✓ Fully Aluminised Inside & Out
- ✓ Biggest Range
- ✓ Best Cataloguing
- ✓ Near 100% Availability
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- ✓ Unique 3 Year Warranty



Fully Aluminised Interior
For Longer Life



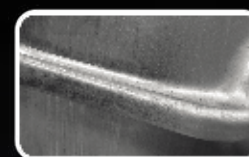
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Baffles & Plates



Pressed Internal
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Unique Sound
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Rolled Seams



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BACKED BY
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100%
NEW PISTONS USED
IN EVERY UNIT

CALIPER
REMANUFACTURING
IS RUN 24 HOURS
5 DAYS A WEEK

WE CAN
REMANUFACTURE IN
4/5 DAYS

92%
MARKET COVERAGE

EVERY 5TH
CALIPER WE
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100%
NEW SLIDERS AND SEALS
USED IN EVERY UNIT

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BRAKE
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EXPERTS IN ENGINEERING FOR OVER 50 YEARS

Quality is at the forefront of everything that we do

We have identified that the ceramic capacitor found in OE parts is prone to failure, and replaced this with more accurate, modern electronic technology

EXHAUST PRESSURE SENSORS AVAILABLE NOW

— 3D Prototyping

Following detailed market analysis, working prototypes have been created on our state of the art 3D printers, and used for further research and on-vehicle testing. Data is captured and compared to OE components, allowing for modifications and quick adaptations.

— Manufacturing and Testing

Our Engineering Centre of Excellence have designed unique tooling to ensure efficient and consistent production. Components go through rigorous testing to assure high performance and tolerance threshold.

— Quality Control

Our testing line is 'no fault forward', so any component that isn't fit for purpose is instantly rejected at the point of failure.

— Range Introduction - Phase 1

Initially 8 part numbers, covering applications for Alfa Romeo, Audi, Dacia, Fiat, Ford, Nissan and Volkswagen. We are constantly working to introduce new part numbers and expand our range offering.

PROUD TO DRIVE

ELECTRIFYING PERFORMANCE



**SPECIAL OFFER
SAVE £30.00**



062504 POWERDUCTION 10 INDUCTION HEATER KIT

- Designed to release seized bolts & metallic components in seconds
- Fast flameless heat – heats M10 nut < 10 secs
- No damage to surrounding objects (wiring looms, rubber boots, carpets etc)
- Fast change coil lock/unlock system
- Supplied with 5 different heating coils
- Many automotive applications for releasing seized components including;
 - ✓ Manifold studs ✓ Track rod ends ✓ Exhaust clamps
 - ✓ Wheel nuts

£599.00

**SPECIAL OFFER
SAVE £18.00**



028838 NOMAD POWER PRO 700 PROFESSIONAL LITHIUM BOOSTER PACK

- Ideal for jump starting cars & vans
- 2000 Peak Amps/ 1500 Cranking Amps/600 Amps start current
- Built in protection for vehicle electronics & internal batteries
- Small enough to fit in a glove box
- 2x USB ports provide an emergency power supply to recharge mobile phones/tablet, GPS
- Additional 10A output can power 12v fan, cool box, portable fridge etc

£159.00

**SPECIAL OFFER
SAVE £40.00**

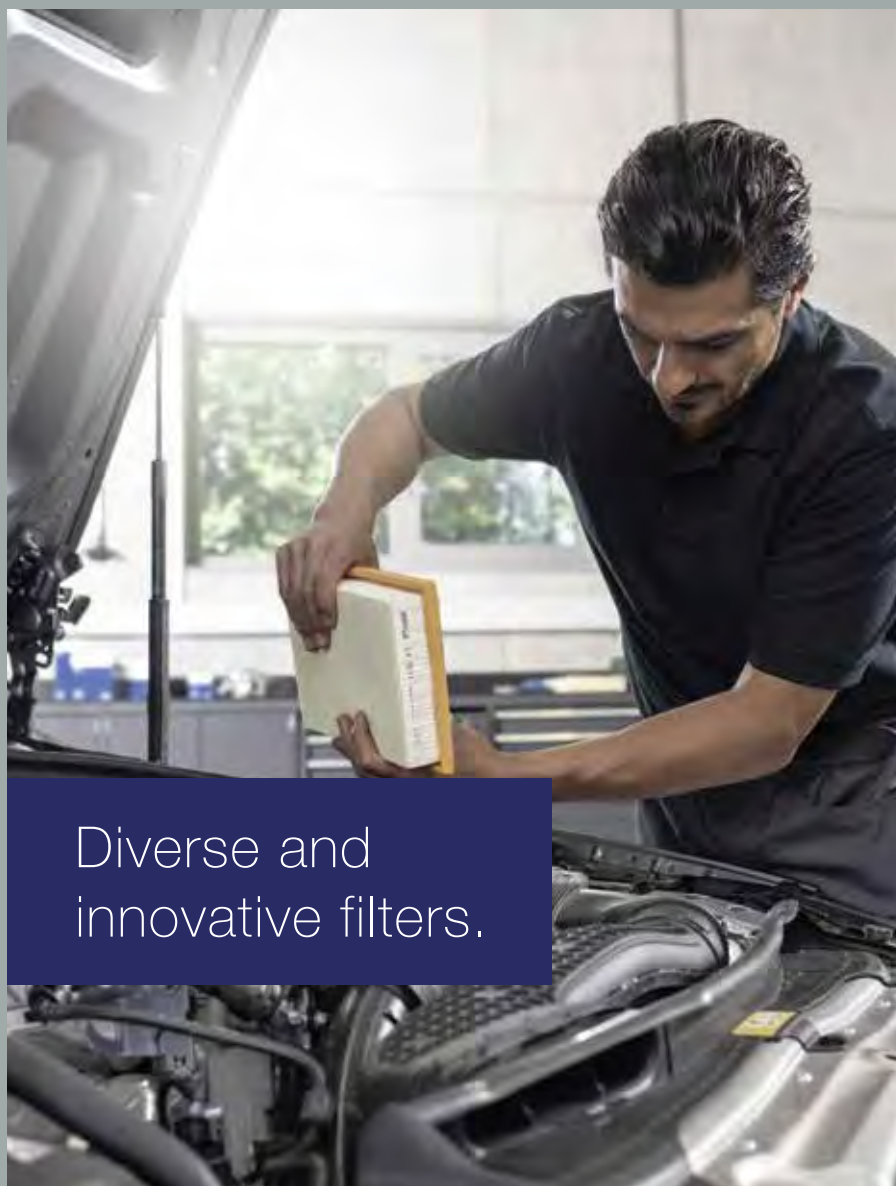


029002 GYSFLASH 100.12 BATTERY SUPPORT UNIT 100AMP

- Stabilises vehicle voltage & supplies up to 100Amp current on demand .
- Prevents damage & data loss during diagnostic testing & reprogramming
- DIAG+ mode – user adjustable voltage 12-14.8v (in 0.1v increments)
- Charger mode – charges all battery types including EFB & AGM stop/start + Lithium
- Safe to charge without disconnecting battery
- Supplied with 5m cables

£689.00

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Diverse and innovative filters.

The largest filter range for maximum workshop performance.

Our filters protect not only the engines, but also the people in the vehicle. With our comprehensive filter range in uncompromising quality and with maximum market coverage, we ensure that the right product is available for every requirement to keep dirt, abrasion and the finest particles away from the powertrain and the occupants. With MAHLE, your workshop delivers 100% performance, today and tomorrow.

mahle-aftermarket.com



"WORKSHOPS DEMAND KNECHT QUALITY"



Through the KNECHT brand, the network has ensured workshops are equipped with the highest quality filter brand and range available. Workshops should always put filter quality first to avoid multiple replacements within a shorter service interval, which in turn leads to poor customer service.

High-quality filter media can trap harmful or unwanted contaminants more easily without restricting flow. This is essential to avoiding long-term problems to costly engine components.

Now, as we head towards a busy autumn period, technicians are becoming much more vocal about their preferences and recognise a quality product. Filter quality is not just confined to the product itself, it's the company and brand that goes before it.

Rise in cabin filter demand

Motorists are seeking reassurance, and it's to be expected that they are relying on their technician to provide advice on how best to purify air entering their vehicle.

Not only does a high-quality cabin air filter help a vehicle to run more efficiently, as it prevents unwanted debris clogging up the HVAC system, which could result

in irreparable damage, but it also plays an essential role in keeping the air inside the cabin fresh.

With findings demonstrating that more than 100,000 litres of air is swept into the cabin every hour when a vehicle is in operation, it is recommended to always opt for quality when choosing a cabin air filter.

Regular filter replacement

The message from KNECHT is simple: As an Original Equipment supplier, products have been tested to the most stringent of standards and have unrivalled technical support. Lower quality filters will not efficiently remove contaminants from the vehicle's fuel, causing problems with diesel fuel injectors and engine components.

KNECHT has a range of literature available to garages to promote regular filter replacement to motorists. Delaying an oil change may save money in the short term but it increases the risk of terminal engine damage.

To ensure maximum vehicle performance over the autumn and winter months, it's essential that oil filter checks are carried out before temperatures dip to freezing. An oil and filter change is warranted before the winter cold sets in, as contaminated oil can end up causing major damage to the engine.

To find out more contact your local branch today!



MAHLE
ORIGINAL



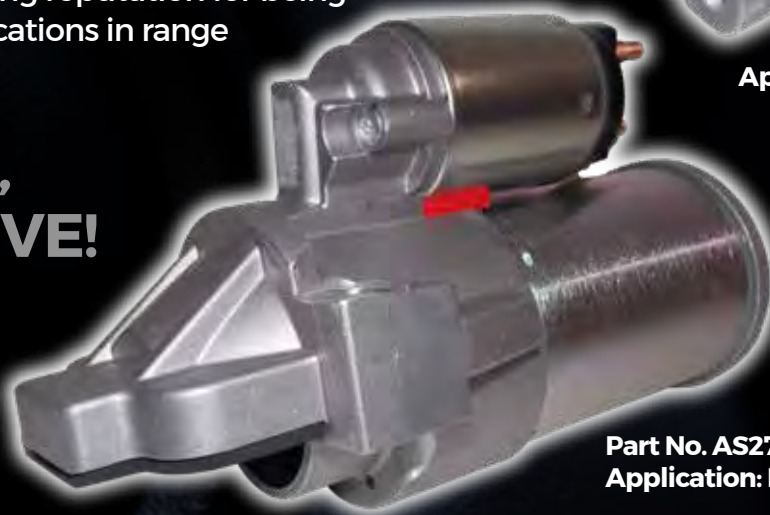
Over 240 units supplied as original equipment!

All units supplied by Autocharge are new outright and built to original equipment specification the range is complimented by a high percentage of original equipment units from reputable O/E brands such as Bosch, Valeo, Mitsubishi, Denso, etc. We have a strong reputation for being first to market with many late model applications in range and stocked!

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Part No. AA8010
Application: Jaguar/
Land Rover 2017 >



Part No. AS2712
Application: Ford Transit 2017 >

To find out more, contact your local branch!

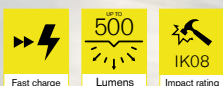
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Designed for professional technicians, these lamps are hard wearing and super bright. Ring's award-winning lamps are capable of performing in even the toughest workshop

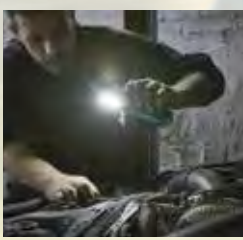


RIL4200

MAGflex Pro Fast Charge LED Inspection Lamp



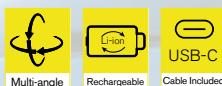
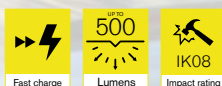
- Fast Charge Technology
- Up to 500 Lumens light output
- Hands Free
- Bright Professional Inspection Lamp
- Type-C USB cable and mains charging adaptor included



RED HOT PRICE
£35.00+VAT

RIL4300

MAGflex Slim Fast Charge LED Inspection Lamp



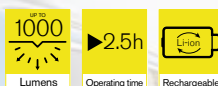
- Fast Charge Technology
- Up to 500 Lumens light output
- Slim Lamp
- Bright Professional Inspection Lamp
- Type-C USB cable and mains charging adaptor included



RED HOT PRICE
£36.61+VAT

RIL3700HP

MAGflex Utility LED Inspection Lamp



- Rechargeable and cordless
- Versatile design
- Dual 180° ratcheting base
- 360° twist function
- Dual hanging hooks
- Mains and 12V DC charging adaptors included



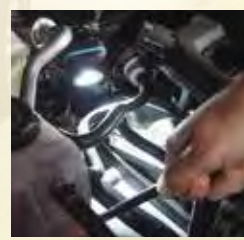
RED HOT PRICE
£24.95+VAT

RIL3400HP

MAGflex Arc LED Inspection Lamp



- Rechargeable and cordless
- Up to 500 Lumens light output
- 180° ratcheting design
- Battery status indicator
- IP65 & IK07 rated
- USB cable and mains adaptor included



RED HOT PRICE
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A leader in the design and development of high-technology automotive products, Gates has an established OE pedigree and over 100 years of experience in hose manufacturing. New references continue to be added to each range as the demand for OE replacement quality hoses gathers pace. Select Gates-branded replacements or a wide range of applications from:

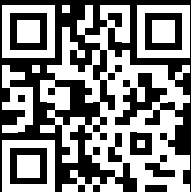
- Turbocharger Systems
- Cooling Systems
- Fuel Systems
- Air Systems

The success of the downsizing strategies of the car manufacturers depends upon utilization of every available space inside each engine. Parts must fit precisely into confined spaces. As a result, ‘molded fuel lines’ are now replacing traditional fuel lines. They are lighter, more efficient, and easier to replace.

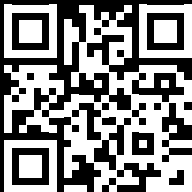
MOLDED FUEL LINE HOSES ARE NO LONGER DEALER-ONLY ITEMS

They feed fuel from tanks to injectors but are subject to high and low pressure system variations that can expose weaknesses in the rubber. They are equipped with plastic connectors that can fail through age and exposure to heat.

Made from proven OE quality materials and fitted with the same OE connectors, they are engineered with quality for a wide range of applications increasingly in demand.



GATESTECHZONE.COM



GATES AUTOMOTIVE CATALOGUE APP



COOLING SYSTEM



AIR SYSTEM



FUEL SYSTEM



GATES REF	APPLICATION GUIDE
MFL1080	FORD, PEUGEOT, CITROEN 2.0 HDI
MFL1094	PEUGEOT, CITROEN 1.4 / 1.6 HDI
MFL1182	AUDI, SEAT, SKODA, VW 1.6 TD
MFL1103	FORD 1.8 TDCI
MFL1106	FORD TRANSIT 2.2 TDCI



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THE ART OF COOLING >

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MORE THAN 500 PARTS

4T Expert Advice: Timing belt system



TEMPERATURE

Don't start work until the engine has cooled down completely



TOOLS

The correct tools must be used in accordance with VM instructions



TORQUE

Use a torque wrench to tighten all bolts to the correct VM specifications



TENSION

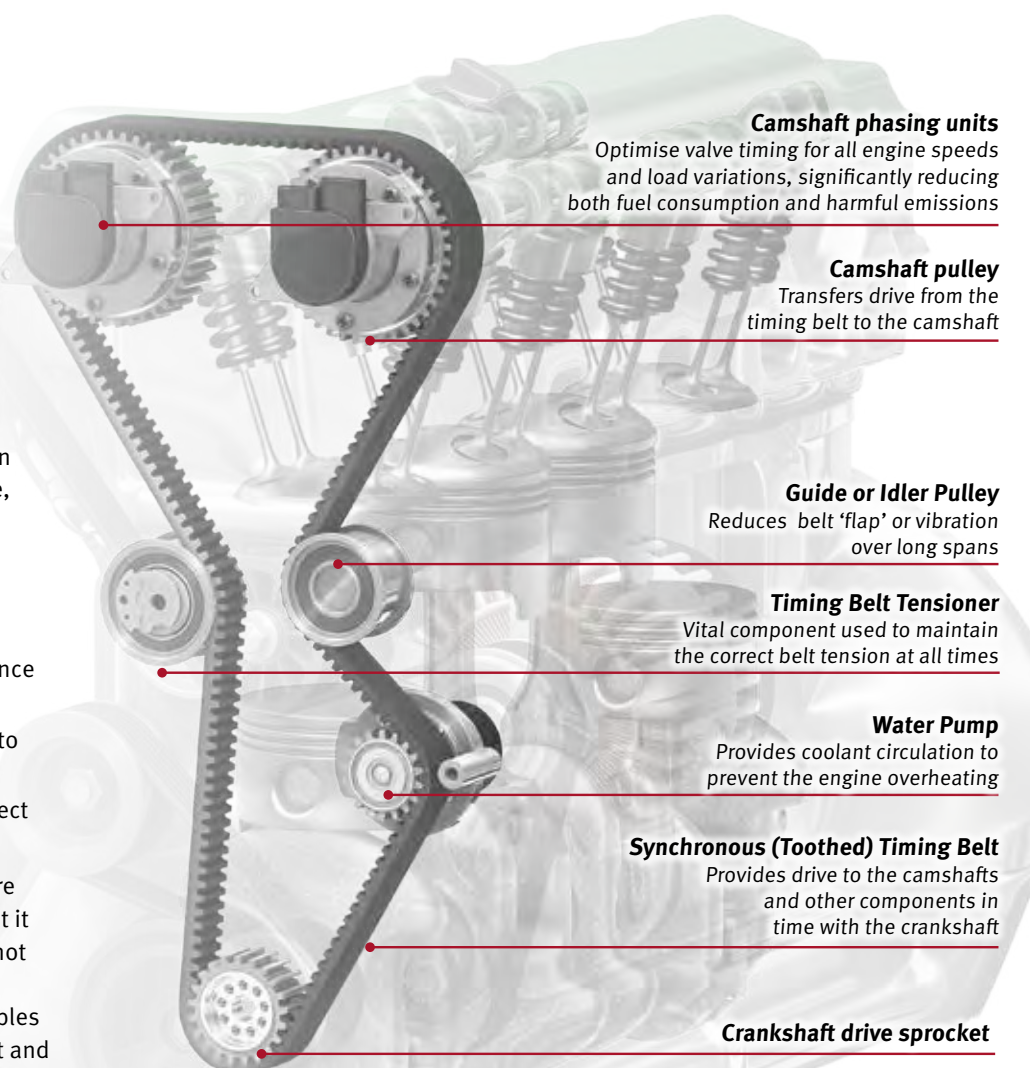
Belt tension must be set correctly and accurately to VM specifications

Schaeffler is urging all technicians to follow its '4T' guidelines when replacing during the service and installation of its INA belt systems and components.

4T was created by Schaeffler's team of REPPERTs in a bid to boost service and installation best practice, helping to avoid fitting errors that can lead to premature belt failure:

- **Temperature:** do not start work until the engine has cooled down completely
- **Tools:** the correct tools must be used in accordance with vehicle manufacturer (VM) instructions
- **Torque:** use a torque wrench to tighten all bolts to the correct VM specifications
- **Tension:** the belt tension must be accurate, correct and to VM recommendations

INA belt system specialist, Tim Adams, said: "we are not trying to teach mechanics how to suck eggs, but it is amazing how many problems can be created by not following these simple rules in the workshop" "4T is easy to remember, and adhering to its principles will help to prevent fitting errors, saving time, effort and money for both the garage and its customers"



Camshaft phasing units

Optimise valve timing for all engine speeds and load variations, significantly reducing both fuel consumption and harmful emissions

Camshaft pulley

Transfers drive from the timing belt to the camshaft

Guide or Idler Pulley

Reduces belt 'flap' or vibration over long spans

Timing Belt Tensioner

Vital component used to maintain the correct belt tension at all times

Water Pump

Provides coolant circulation to prevent the engine overheating

Synchronous (Toothed) Timing Belt

Provides drive to the camshafts and other components in time with the crankshaft

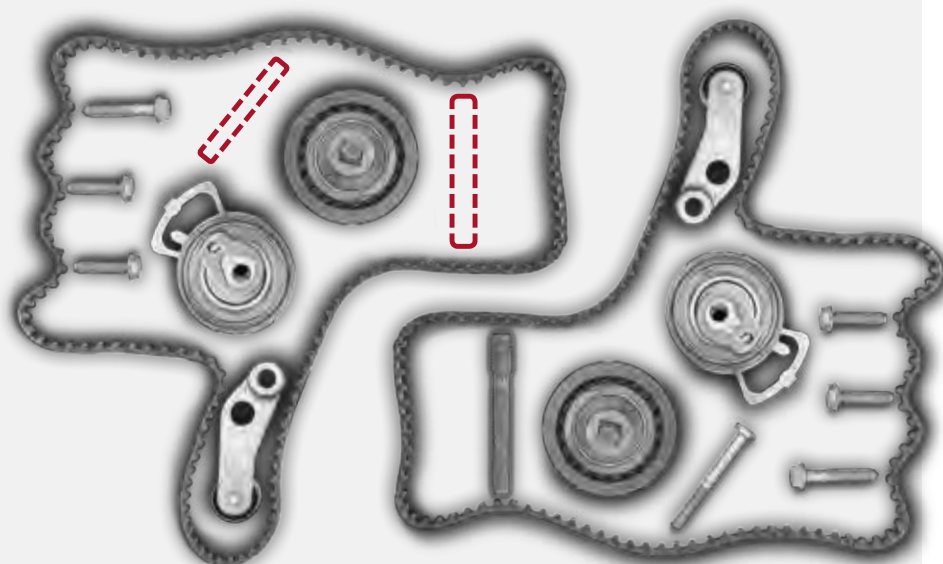
Crankshaft drive sprocket

- Each INA KIT contains every 100% OE component needed to carry out a professional timing system service

- All components should be changed at the same time to prevent the possibility of major engine damage

- Any unexplained noise or vibration is a cause for concern and should be investigated immediately

No short cuts. No short kits.



COMPETITOR KIT

with replica tensioners and pulleys and missing ancillaries

GENUINE INA TIMING BELT KIT

contains OE belt, tensioner, pulleys and all ancillaries



INA is the world's leading producer of belt system components for original fitment.

We also offer the best range of OE content timing belt kits to independent workshops, with all you need for a professional repair in just one box - right down to the last nut, bolt and washer. Don't get palmed off with cheaper alternatives that are short on content and quality. Every leading vehicle manufacturer gives INA the thumbs up... So should you.

INA - a complete original.

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1 of 10 bilstein group Bluetooth Speakers

To celebrate the 60th issue of The Smart Choice Magazine Blue Print and febi are offering you the chance to win a bilstein group branded Bluetooth speaker.

With a rechargeable battery, this portable speaker can be moved where required whether it be in the workshop or around the home. This versatile speaker also includes an SD Card Port, Aux USB Cable, FM Radio Functions and Hands-Free Call Function.

To be in with a chance of winning simply text:

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The winner will be chosen at random from the texts we receive

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31 October 2021.

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Please visit (www.smartchoicemagazine.co.uk/competition/terms)



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TECHNICAL HOTLINES

NEED SOME ADVICE TO FIT A REPLACEMENT PART? OR HELP FINDING IT? OUR COMPREHENSIVE CHECKLIST PUTS ALL THE CONTACT DETAILS FOR THE SUPPLIER YOU NEED AT YOUR FINGERTIPS!



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