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**ENGINE
MANAGEMENT**

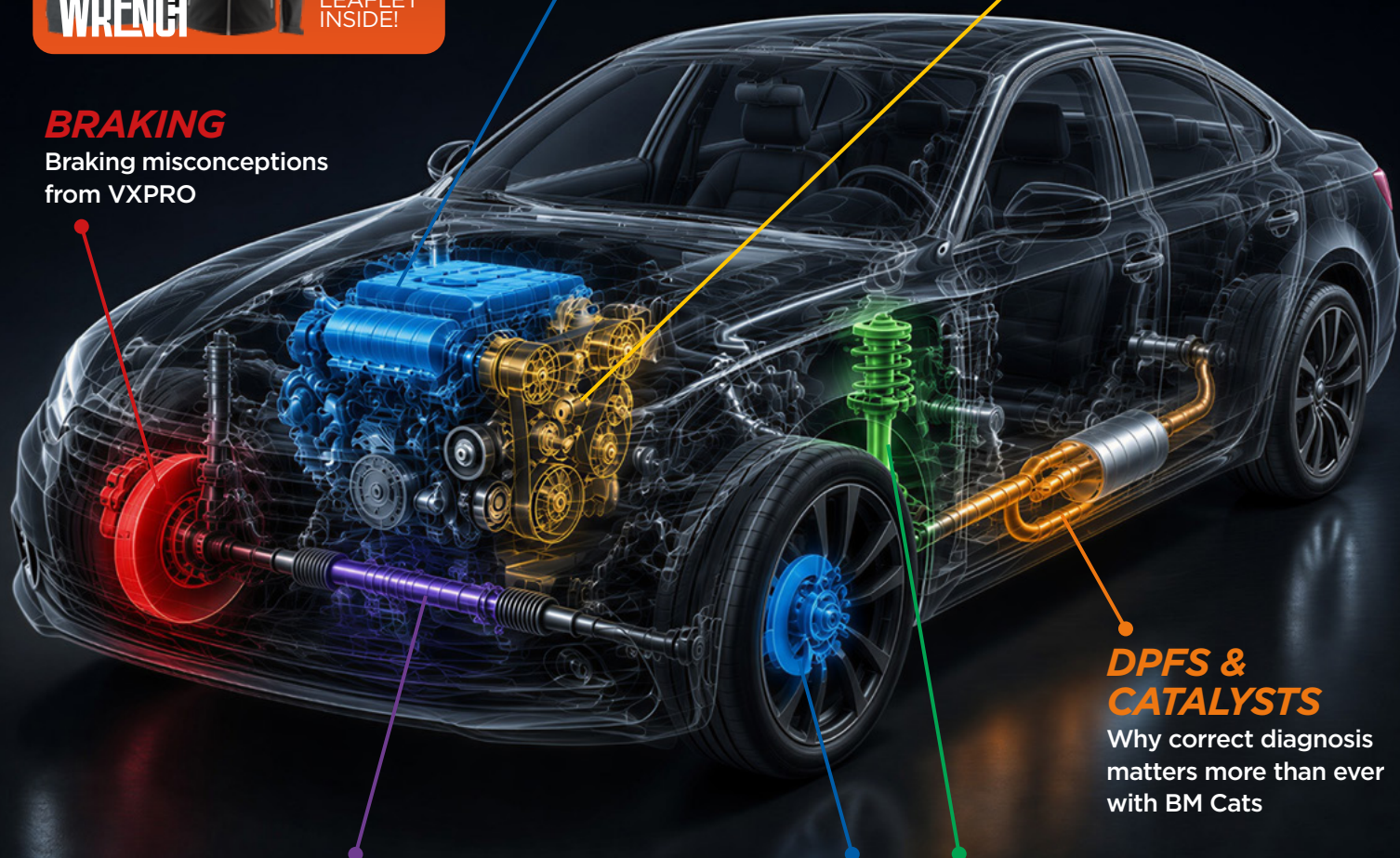
Common faults, OE
Solutions and technician
training from Delphi

**TIMING
& COOLING**

Ford Transit 2.0-litre diesel
EcoBlue wet belt replacement
video from Dayco

BRAKING

Braking misconceptions
from VXPRO



**TRANSMISSION
& STEERING**

Double clutch transmission
repairs from Schaeffler

**WHEEL BEARINGS
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autopartsanddiagnostics.com

ADBP250068

Air Filter for Traction Battery Compartment

To Fit: Toyota Yaris 1.5 Hybrid 2020-



Function

The cabin filter for the high voltage traction battery is located below the left side of the rear seat. The air from the cabin is drawn in by the traction battery cooling fan to cool the high voltage battery - allowing it to remain and operate at its optimum temperature.

This filter prevents any unnecessary build-up of dirt and dust from the interior finding its way into the battery cooling fan - ensuring the reliability of the high voltage battery cooling fan motor.

Cause of failure

If the vehicle is used in an area with heavy traffic or excessive dust, or if the rear seat is used frequently, the high voltage traction battery cabin intake filter may become overloaded with dust and debris.

In the event of an issue, the message "Maintenance required for traction battery cooling parts see owner's manual" is displayed on the multi-information display

- informing the driver that the traction battery cooling system requires attention.

The vehicle manufacturer recommends that this filter is visually inspected for dirt or dust every 15,000 km (10,000 miles) - and replaced if necessary - or replaced every 30,000 km (20,000 miles) as part of the vehicle's regular maintenance schedule. If the vehicle is operated under severe conditions, it is recommended to replace this filter every 15,000km (10,000 miles).

Note: using a suitable diagnostic tool, any trouble codes should be cleared to reset the hybrid cooling system learning values.

For more technical information please visit: partsfinder.bilsteingroup.com



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ADH242101

Rear Brake Pad Set

To Fit: Honda Civic FC1, FC9, FC8, FK6, FK7, FK8, and FK9 models with electronic parking brake



Problem

Rear brake failure after replacement of the rear brake pads, or any other repair work involving removal of the rear brake caliper, resulting in the following:

Damage to the wiring harness or connector.

Over-extension of the rear brake caliper piston, which can be identified if diagnostic trouble codes have been set.

These include C1110-96 (Left Hand Electric Parking Brake Actuator Malfunction) and/or C1111-96 (Right Hand Electric Parking Brake Actuator Malfunction); this could indicate that the piston has been over extended.

Please note, if the brake caliper piston is found to be over extended, replace the caliper.

Cause

The correct repair procedure has not been followed, leading to a failure of the rear brakes, which has been identified as the brake caliper or harness connector becoming damaged during the repair.

Solution

Before removing the brake caliper, the brake system must be set in the 'Brake Pad Maintenance' mode using a suitable diagnostic tool.

Then the caliper wiring harness must be disconnected, to prevent accidental operation or damage to the harness during the repair.

After all the work has been carried out, ensure that the brake caliper is fully installed, including all fixings and the brake caliper actuator wiring loom, before resetting the brake system out of the maintenance mode or operating the parking brake.

For more technical information please visit:
partsfinder.bilsteingroup.com



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THE AD OIL ADVANTAGE

PRECISION IN EVERY DROP



KEY BENEFITS

■ OEM SPECIFICATION
MATCH

■ ISO 9001:2015
CERTIFIED

■ LOW-SAPS
FORMULATIONS

■ 200+ UK
BRANCHES

■ INSTANT
VRM LOOKUP

In the fast-evolving world of automotive engineering, the "one-size-fits-all" approach to lubrication is a thing of the past. As engines become smaller, more efficient, and more complex, the demands placed on engine oil have never been higher. AD Oil stands at the forefront of this transition, providing workshops and motorists across the UK with a range of lubricants that don't just meet industry standards, they set them.

The Standard of Excellence: Quality is the bedrock of the AD Oil range. Manufactured to ISO 9001:2015 standards, our lubricants are engineered to mirror OEM (Original Equipment Manufacturer) specifications. Whether it's a high-performance petrol engine or a sensitive diesel with complex after-treatment systems, AD Oil delivers "factory-fit" chemistry that protects warranties and ensures peak performance.

Seasonal Protection: The UK's fluctuating climate demands versatility. AD Oil's synthetic formulations are optimised for the "cold start" - the moment of maximum engine wear.

- **Winter:** Rapid circulation at low temperatures prevents metal-on-metal contact.
- **Summer:** High thermal stability prevents oil shear and oxidation during long, hot hauls.

Avoiding Costly Errors: Modern engines have tighter clearances and sensitive components like Diesel Particulate Filters (DPF). Using the wrong oil is a leading cause of premature DPF blockage and turbocharger failure. AD Oil's Low-SAPS formulations are specifically designed to prevent ash build-up, saving motorists from four-figure repair bills and keeping vehicles on the road longer.

Support You Can Trust: We eliminate the guesswork for technicians and DIYers alike. Our online oil finder at adoil.co.uk provides instant, registration-based recommendations, ensuring the right grade is used every time.

AD Oil combines local expertise with world-class manufacturing.

Don't just lubricate your engine—protect it with AD Oil.

Find the recommended
motor oil for your vehicle



YOUR REG

visit www.adoil.co.uk



**AUTOMOTIVE
LUBRICANTS**

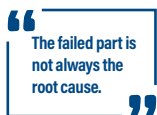
KEEPING YOUR COOL - DIAGNOSING ENGINE COOLING SYSTEM FAILURES BEFORE THEY ESCALATE

When an engine overheats, the root cause is not always immediately obvious. Modern cooling systems are highly interconnected, meaning the failure of one component can quickly affect others throughout the circuit. Symptoms such as overheating, coolant loss or poor cabin heating may originate from entirely different causes, making accurate diagnosis essential.

Understanding the cooling system as a complete circuit is key. A defective thermostat may restrict coolant flow, a failing water pump can reduce circulation, contamination may block radiator channels, while pressure faults within the expansion tank can create overheating and cavitation elsewhere in the system.

As a trusted OE supplier, MAHLE brings decades of engine cooling expertise to the aftermarket. Its range of radiators, thermostats, expansion tanks, cooling fans, oil coolers and charge air coolers is engineered to deliver reliable performance, precise fitment and long service life.

To support varying workshop and customer requirements, MAHLE offers a unique dual-quality programme. Components carrying the suffix "P" (Premium) are identical to those supplied to vehicle manufacturers, while parts ending in "S" (Standard) provide a cost-conscious alternative without compromising quality, safety or reliability. This allows technicians and distributors to select the most appropriate solution for every repair.



The failed part is not always the root cause.

Looking Beyond the Failed Component

One of the biggest challenges in cooling system diagnostics is that the failed part is not always the root cause.

A leaking radiator may result from excessive pressure caused by a defective expansion tank cap or blocked cooling circuit. Recurring thermostat failures can stem from contamination, while a damaged coolant pump may indicate incorrect belt tension, unsuitable coolant or cavitation caused by pressure irregularities.

Contamination remains a common issue. Corrosion deposits, sealant residue and debris from failed components can restrict coolant flow and damage newly installed parts. Replacing a failed component without addressing the underlying contamination often leads to repeat failures.

For this reason, flushing the entire cooling circuit following major component replacement is critical. Whether replacing a radiator, thermostat, water pump or oil cooler, removing deposits and degraded coolant helps restore correct system operation and protect replacement parts.

OE Expertise Supporting the Independent Aftermarket

To help workshops diagnose cooling system faults quickly and accurately, MAHLE provides free technical resources through its online portal at techtool.mahle.com. Technicians can also access free online training at training.mahle.com, covering engine cooling, air conditioning, diagnostics and other vehicle technologies.

By combining quality components with expert technical support, MAHLE helps workshops deliver efficient, reliable repairs, reduce repeat failures and select the right replacement solution first time.

Because when it comes to engine cooling, replacing the failed component is only part of the repair; understanding why it failed is what truly keeps vehicles running cool.

Common Symptoms and Possible Causes

Many cooling system faults present similar symptoms, making diagnosis more complex than simply replacing the visibly failed component.

Examples include:

- **Overheating in slow-moving traffic** – defective radiator fan, fan controller or electrical fault
- **Poor cabin heating** – thermostat stuck open, blocked heat exchanger or insufficient coolant circulation
- **Rising temperatures with coolant loss** – pressure issues within the expansion tank or system leaks
- **Oil contamination in coolant** – defective oil cooler or cylinder head gasket failure
- **Black smoke and reduced performance on turbocharged engines** – leaks within the charge air cooling system

According to MAHLE's technical guidance, even blocked radiator fins caused by dirt, leaves or insects can significantly reduce cooling efficiency and increase thermal stress across the system.

Coolant Quality Matters

Coolant does far more than prevent freezing. It increases boiling resistance, lubricates the coolant pump and protects internal components against corrosion and cavitation.

Incorrect coolant mixtures or excessive dilution can accelerate corrosion, damage seals and reduce cooling performance. Tap water should never be used, as minerals and contaminants can damage critical components. Instead, technicians should use either ready-mixed coolant or concentrated coolant mixed with deionised water.

Following the vehicle manufacturer's specifications for coolant type and mixture ratio remains essential for long-term reliability.

Installation Quality Is Equally Important

Many cooling system failures can also be traced back to installation issues.

Overtightened fasteners can crack plastic radiator tanks, incorrectly routed or tensioned belts may damage water pump bearings, while trapped air caused by improper bleeding procedures can create localised hot spots and inaccurate temperature readings. Even failing to replace sealing rings or O-rings can result in leaks and repeat repairs.

MAHLE also advises against using unsuitable sealants. Excess sealing compound can circulate through the system and block thermostats, radiators and heat exchangers, while radiator sealants may clog narrow cooling passages and reduce heat transfer efficiency.

As cooling systems become increasingly sophisticated, particularly with the growth of hybrid and electrically assisted thermal management systems, access to OE-level technical support is becoming ever more important.



Further information and useful links:

MAHLE Aftermarket website: mahle-aftermarket.com

Free online training courses: training.mahle.com

Self-study material on engine cooling and air conditioning: techtool.mahle.com

MODERO

SAFETY COMES FROM QUALITY



BRAKE DISCS

Every moderno brake disc is manufactured to exact tolerances to ensure correct fit and consistent performance. Mounting points, including bolt holes and centre location, are precisely controlled to support accurate installation. Each disc is checked for runout and thickness variation to promote smooth braking. Balance testing helps ensure stable operation in use. The result is dependable braking performance with reduced vibration and fewer fitment concerns.

BRAKE PADS

Every moderno brake pad is designed as a complete, multi-layer component. The friction material is produced using controlled manufacturing processes to deliver consistent braking performance. A dedicated underlayer helps manage heat and improve braking stability. High-strength bonding secures the friction material to a precision steel backing plate. Anti-noise shims and an optimised slot-and-chamfer design help eliminate any vibration and brake squeal.

FRICTION MATERIAL

Formulated from over 100 raw materials. Manufactured using positive hot pressing with precise chamfering and uniform pressure for consistent performance across various driving conditions.

UNDERLAYER

Acts as a thermal barrier to dissipate heat generated during braking. Enhances pad compression, reduces noise, and improves braking comfort and stability.

ADHESIVE

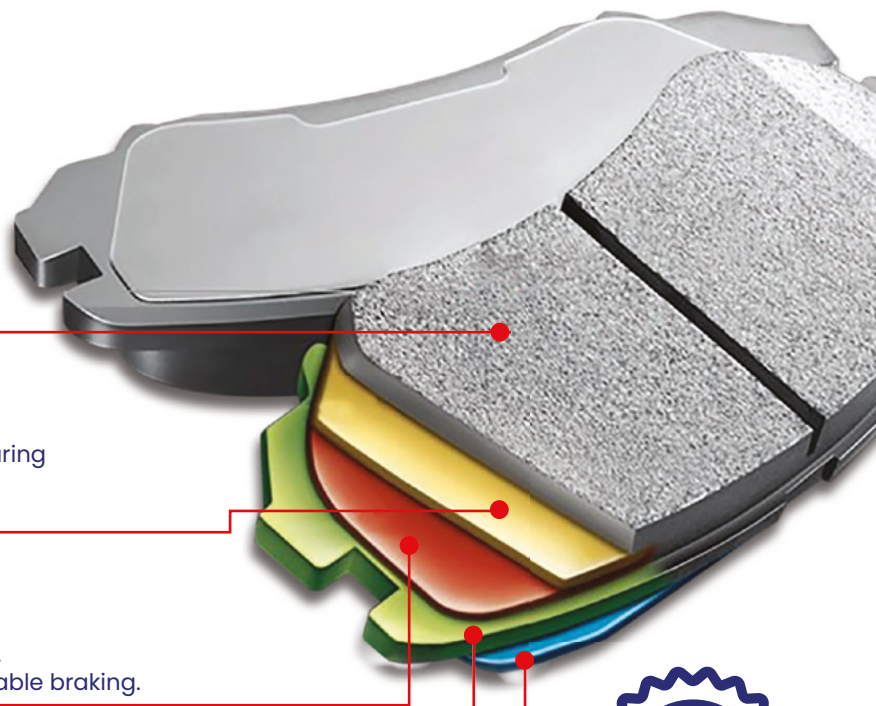
Strongly bonds the friction material to the backing plate. Shear strength exceeds 3 mpa, ensuring safer, more reliable braking.

BACKING PLATE

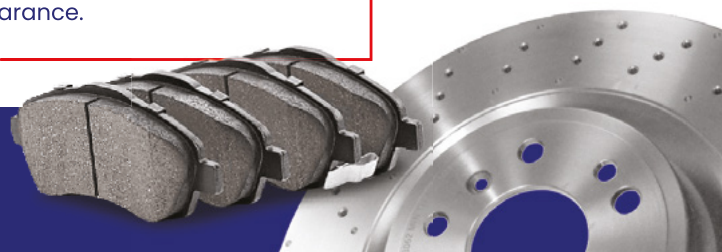
Made from high-quality steel with precision blanking. Precisely engineered to OE specifications for a perfect vehicle fit.

ANTI-NOISE SHIM

Coated with premium SBR for enhanced scratch resistance and appearance. Reduces vibration and ensures quieter braking.



moderoparts.com



BRAKING

VXPRO



BRAKING MISCONCEPTIONS

Replacing brake pads? Don't overlook the parts that make them perform. Wear indicators, fitting kits and caliper sliders may be small, but they play a vital role in braking performance, safety and component life.

Ignoring them can lead to:

- ✗ Brake noise and drag
- ✗ Uneven pad wear
- ✗ Premature disc damage
- ✗ Reduced braking stability
- ✗ Missed brake wear warnings

Complete the job properly.

VXPRO's expanded braking range includes wear indicators, fitting kits and caliper slider kits, making it easier and more affordable to replace the parts that matter.

COMPLETE JOB. FULL STOP.



Vehicle Performance
Guarantee



OE Matching Quality
+ Added Value



FREE WHATSAPP Support from our Experts
Monday - Friday 08:00-16:00 **01675 437429**



Fast, accurate
application data 24/7

AN **ELTA** AUTOMOTIVE BRAND

ADDED VALUE WITH ADDITIVES

Offer your customers efficient services with additives, or secure attractive extra revenue with additives in the sales area.

Our additive range contains a variety of different problem solvers for daily workshop needs. Whether it's cleaning the systems, optimising performance or protecting against wear. Our additives enable you to offer your customers effective and inexpensive services with very little effort on your part. This increases the efficiency of your business and ensures even greater customer satisfaction through the additional services.

In addition, by offering additives as DIY problem solvers in your sales area, you can easily secure extra revenue.

Advantages of Additive Services

- **Expand your service portfolio** by using additives for problem solving (e.g. reduction of pollutant emissions before the exhaust emissions test) as well as for professional cleaning, performance optimisation and wear protection.
- **Maximise Efficiency** by completing jobs quickly with minimal labour time and low material costs.
- **Increase customer satisfaction and loyalty** through alternative solutions. For example, cleaning the systems or components (e.g. DPF) with additives is in many cases cheaper than replacing them.

How to Convince Your Customers

Raise Awareness: Proactively discuss common symptoms like increased fuel consumption, rough idling, or poor exhaust emissions. Most customers aren't aware these are preventable.

Explain the Cause & Cure: Utilise simple terms (or compression test logs) to show how contamination builds up, and explain how a cost-effective additive avoids expensive mechanical tear downs.

Push Prevention: If their car is running perfectly, explain that keeping it that way requires proactive maintenance. Recommend preventive additives during routine servicing.

Mixing Additives

We do not generally recommend mixing different additives. However, specific combinations are safe and effective.

	CeraTec	Motor Protect	Oil Additive	Oil Sludge Flush	Hydraulic Lifter Additive	Motor Oil Saver	Visco Stabil	Oil Smoke Stop	Molygen Motor Protect
CeraTec	✓*	✗	✗	✓	✓	✓	✓	✓	✗
Motor Protect	✗	✓*	✓	✓	✓	✓	✓	✓	✗
Oil Additive	✗	✓	✓*	✓	✓	✓	✓	✓	✓
Oil Sludge Flush	✓	✓	✓	✓*	✓	✓	✓	✓	✓
Hydraulic Lifter Additive	✓	✓	✓	✓	✓*	✗	✗	✗	✓
Motor Oil Saver	✓	✓	✓	✓	✗	✓*	✗	✗	✓
Visco Stabil	✓	✓	✓	✓	✗	✗	✓*	✗	✓
Oil Smoke Stop	✓	✓	✓	✓	✗	✗	✗	✓*	✓
Molygen Motor Protect	✗	✗	✓	✓	✓	✓	✓	✓	✓*

*These additives can generally be mixed with themselves if a larger quantity is required for e.g. 8 litres of oil in the engine. However, these additives should not be overdosed with a smaller quantity of oil (e.g. 4 - 5 litres).

Important Mixing Guidelines

- Never exceed 10% of the total engine oil capacity when adding oil additives.
- Do not mix more than two different engine oil additives at once.
- Check our compatibility matrix above before mixing.

If you have any further questions about using additives, our application engineers will be happy to help you at any time.

www.liqui-moly.com



FOR THE DRIVERS

WHAT ADDITIVES CAN DO.

Performance



Whether in the oil, fuel or cooling system: Due to the wide variety of processes acting during vehicle operation, deposits form over time on various components, such as valves, or in the combustion chamber. These lead to impaired functioning of expensive components and, often, loss of performance. Our additives not only remove contamination in the system, but also stop it from forming again when used as a preventive measure.

Problem Solvers



Additives can prevent and solve many problems such as rough engine running, fuel aging, leaks in the oil or coolant circuit, and much more. Thanks to their cleaning, sealing or wear reducing effect, they are the first choice when problems arise or there is a need to guard against them.

Reliability & Safety



Unlike brakes or seat belts, additives have no direct influence on driving safety. However, they generally make a significant contribution to the reliability and operational safety of individual components as well as your entire vehicle.

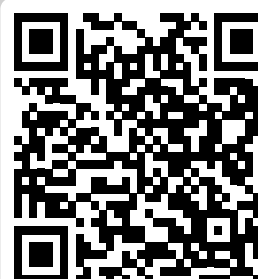
Saving Money



With their problem-solving properties, additives are often a cost-effective alternative to expensive repairs or the replacement of individual components. They also guard against wear and expensive damage, thereby increasing the service life of major assemblies and components.

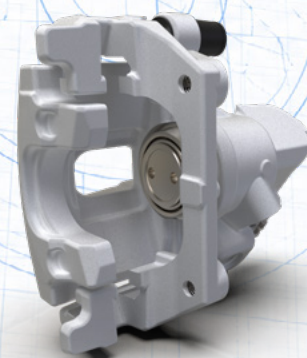
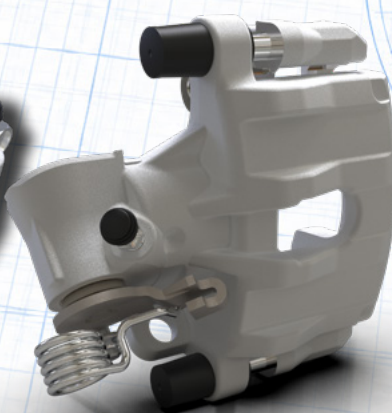
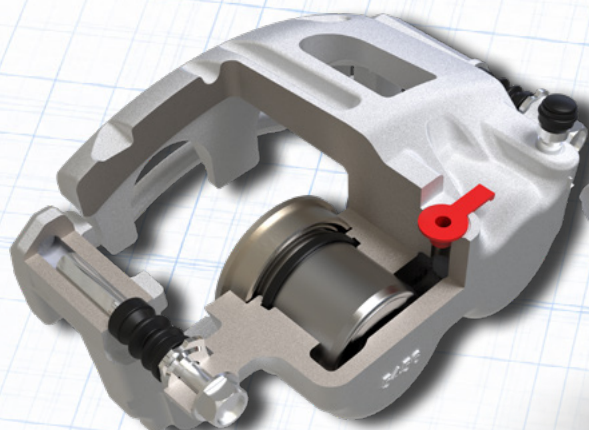
Thanks to their cleaning effect, fuel consumption can also be reduced: Clean engines burn fuel more efficiently and make optimum use of the energy it contains. Compared to an engine contaminated with deposits, they therefore consume less fuel, which also contributes to a reduction in CO2 emissions.

Our easy to use additive guide will help you find the right product for your vehicle problem or to prevent problems





WAI's precision-engineered Brake Calipers designed for today's modern vehicles



As temperatures rise and motorists prepare for summer road trips, workshops often see an increase in brake inspections and repairs. Whether it's long-distance holiday travel, towing caravans and trailers, or simply spending more time on the road, the warmer months place additional demands on vehicle braking systems.

One component that plays a critical role in maintaining braking performance is the brake caliper. These are subjected to significant heat and stress during everyday operation and during summer, these demands can increase considerably, particularly on vehicles carrying heavier loads or travelling extended distances.

Excessive heat is one of the most common causes of brake system issues. As temperatures build within the braking system, worn or sticking calipers can become more apparent, resulting in uneven braking performance, increased brake pad wear and reduced fuel efficiency.

Common faults workshops may encounter during the summer months include seized caliper pistons, sticking guide pins and excessive caliper drag. A piston that fails to retract correctly can cause the brake pad to remain in contact with the disc, generating unnecessary heat and accelerating wear. Likewise, sticking guide pins can prevent even pressure distribution across the brake pads, leading to uneven wear patterns, vibration and pulling under braking.

Technicians should also be aware of symptoms such as overheating brakes, burning smells, reduced braking efficiency and excessive brake dust, all of which may indicate caliper-related issues. Vehicles used for towing or carrying heavy loads can be particularly susceptible,

as the braking system is required to dissipate significantly more heat.

An emerging consideration for workshops is the growing number of electric and hybrid vehicles in the market. While regenerative braking systems reduce wear on brake pads and discs by using the electric motor to slow the vehicle, the mechanical braking system remains a critical safety component. In fact, because conventional brakes are used less frequently on some EV applications, calipers can be susceptible to more faults due to a lack of regular movement. This

“Modern vehicles require components that not only deliver consistent stopping performance but also integrate seamlessly with advanced safety technologies”

makes routine inspection particularly important, as brake components may appear to have plenty of life remaining while underlying caliper issues develop unnoticed.

As braking systems continue to evolve, the demands placed on brake calipers have never been greater. Modern vehicles require components that not only deliver consistent stopping performance but also integrate seamlessly with advanced safety technologies such as ABS, ESC and autonomous emergency braking systems.

WAI's brake caliper range has been developed with these challenges in mind.

WAI supplies 100 percent new brake calipers, engineered to match OE specifications in both performance and dimensional accuracy. With more than 1,000 SKUs covering over 90 percent of the vehicle parc, the range offers extensive coverage for both popular and late-model applications.

Each caliper is manufactured using either aluminium or cast-iron bodies, depending on the OE design, and is protected with zinc or powder-coated finishes to help withstand environmental exposure and maintain long-term performance.

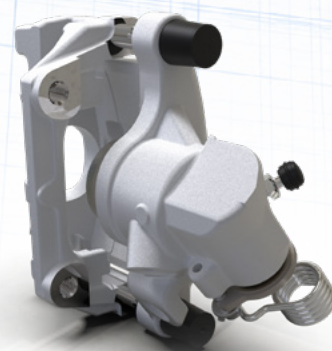
Internal components, including steel or phenolic pistons, square-cut seals and precision-machined seal grooves, are designed to ensure smooth operation, effective piston retraction and consistent braking feel.

To ensure durability under real-world conditions, WAI calipers undergo extensive validation testing, including pressure leak testing, piston retraction analysis, residual drag testing, durability cycling and salt spray

corrosion testing. These processes help ensure reliable operation in demanding environments where braking systems are regularly exposed to high temperatures and repeated braking events.

By combining extensive vehicle coverage with OE-level engineering and rigorous testing, WAI's brake caliper range provides technicians with a dependable solution that delivers confidence on every journey. Backed by a 24-month warranty, WAI brake calipers offer the quality, reliability and performance today's workshops demand.

For more information, visit waiglobal.com/eu_en/



**100%
NEW**
Brake Calipers

**1,000+
SKUs**
Extensive Coverage

90%+
Vehicle Parc
Coverage

**24
MONTH**
Warranty

Engineered for reliability.
Tested for performance.
Trusted by technicians



DOUBLE OR £NOTHING

Double clutch transmission repairs from Schaeffler.

Don't turn away vehicles with a P-R-N-D shifter before checking the facts.

Are you missing out on a valuable profit opportunity by sending semi-automatic gearbox work to a 'specialist'? Did you know that the latest semi-automatic vehicles are equipped with easily repairable double clutch systems?

LuK double clutch transmission systems can be found in an ever-growing number of popular vehicles, in both wet and dry versions. They can be serviced and repaired with just a little bit of know-how from us, along with the correct tools and a LuK 2CT repair solution from your local parts distributor.

Stop turning money away - add double clutch repairs to your service menu!

<http://vls.schaeffler.co.uk/luK-repset-2ct>



We pioneer motion

SCHAEFFLER

Delphi ENGINE MANAGEMENT: COMMON FAULTS, OE SOLUTIONS AND TECHNICIAN TRAINING



Modern vehicles rely on an extensive network of sensors, actuators and electronic control systems to deliver performance, fuel efficiency and emissions compliance. As vehicle technology continues to evolve, accurate engine management data has never been more important.

When a sensor begins to provide inaccurate information, or a key component reaches the end of its service life, the result can range from poor performance and increased fuel consumption through to warning lights, reduced power or complete non-start conditions.

Common workshop repairs include ignition coil failures that cause misfires and illuminate engine management lights; MAP and boost-pressure sensor faults that reduce engine performance; EGR valve and pressure sensor issues that trigger emissions-related faults; and crankshaft or camshaft sensor failures that lead to intermittent stalling or non-starts. These faults are often difficult to diagnose without reliable replacement components that communicate accurately with increasingly sophisticated vehicle management systems.

As a trusted Original Equipment supplier to vehicle manufacturers worldwide, Delphi brings extensive OE heritage to the aftermarket, with many components engineered to the same standards and specifications as the original fitment, helping technicians carry out repairs with confidence.

When engine management components fail, the knock-on effects often extend beyond a warning light. A faulty ignition coil not only causes a misfire but also risks damaging the catalytic converter and leading to customer dissatisfaction. An EGR valve that communicates inaccurately with the ECU can trigger multiple fault codes and increase diagnostic time. A fuel pump that fails prematurely can result in unnecessary workshop costs and undermine customer confidence.

Delphi's engine management programme is built around preventing these issues. Components are engineered to the same specifications as those originally fitted to the vehicle, helping ensure the ECU receives accurate data from the first start. Every component undergoes thermal cycling, vibration testing and durability assessment before leaving the factory. End-of-line calibration helps ensure each part is ready to perform straight out of the box.

Seasonal conditions place additional demands on engine management systems. During the colder months, sensors such as MAP, MAF, coolant temperature, and EGR systems play a critical role in cold-start enrichment and emissions control. In warmer conditions, higher temperatures can accelerate failures of ignition coils, fuel pumps and electronic sensors. Selecting OE-quality replacement components helps reduce repeat failures and minimise costly comebacks.

Training and Technical Support

Beyond the product itself, Delphi supports technicians through one of the industry's most comprehensive training programmes. Delphi Academy delivers IMI-accredited training from its state-of-the-art centre in Warwick, and offers nationwide training opportunities, online learning modules and practical technical support.

Training covers diagnostics, engine management, vehicle electronics, and hybrid and electric vehicle systems. The programme combines classroom learning with practical workshop-based training to improve diagnostic efficiency and support first-time fix rates.

For day-to-day support, Delphi's Masters of Motion platform provides technicians with practical how-to videos, technical guidance and workshop-focused learning resources. Through bite-sized content, expert advice and regularly updated video resources, workshops can keep pace with increasingly complex vehicle systems.

With Delphi, technicians gain more than quality replacement parts. They also benefit from OE expertise, industry-leading training and the technical support needed to diagnose faults accurately and complete repairs the first time.



Training Resources

Delphi is committed to supporting technicians with industry leading training & technical resources



Delphi Academy

www.delphiautoparts.com/en-gb/workshop-solutions/delphi-academy

Masters of Motion

www.delphiautoparts.com/en-gb/mom/advance-your-workshop

Masters of Motion YouTube Channel

www.youtube.com/@DelphiAutoParts

Instagram

www.instagram.com/delphi.uk



THE HIDDEN COST OF COMPROMISE IN FUEL AND IGNITION SYSTEM REPAIRS

In today's workshop, efficiency is everything. As vehicle manufacturers continue to develop increasingly sophisticated engine management systems, even minor component failures can have a significant impact on vehicle performance, diagnostic time and workshop profitability.

According to HELLA, the growing complexity of modern fuel and ignition systems means workshops can no longer afford to view replacement parts as simple, interchangeable components.

"These systems rely on precise communication between sensors, actuators and the engine control unit," explains Matthew Smart, Head of Electronics at HELLA. "When that communication is compromised, even slightly, it can affect combustion efficiency, drivability and emissions performance."

Many of today's vehicles rely on a network of sensors and control components to ensure that the perfect amount of fuel is delivered at precisely the right moment. Camshaft position and crankshaft pulse sensors provide critical real-time information to the ECU, while camshaft adjustment control valves enable continuous timing adjustments for optimised engine performance across all driving conditions.

"When a sensor signal is inaccurate or unstable, the ECU can no longer make the adjustments required for optimum engine operation," said Matthew. "This can lead to symptoms such as poor starting, unstable idle quality, increased fuel consumption and loss of engine performance."

For technicians, these faults can be difficult to identify because symptoms are often intermittent and may resemble other system failures. It means workshops can spend additional time carrying out diagnostics or investigating repeat faults.

HELLA says this is why component quality remains a critical consideration when carrying out repairs to modern engine management systems. As an original equipment manufacturer, the company develops components to the same standards required by vehicle manufacturers, helping workshops achieve a first-time fix.

Fuel delivery systems present another challenge. Modern direct-injection engines rely on highly precise fuel pressures and flow rates to achieve efficient combustion. A fault within one component can quickly affect the performance of other parts throughout the system.

"A failing high-pressure fuel pump rarely exists in isolation," said Matthew. "Contamination, wear or fuel quality issues can have a knock-on effect across the entire fuel system, potentially affecting injectors, fuel rails and overall combustion efficiency."

This interconnected nature of modern fuel systems means technicians must increasingly consider the wider condition of the system when diagnosing faults.

Alongside fuel delivery components, ignition system performance remains fundamental to efficient engine operation. Spark plugs and ignition coils must operate reliably under significant thermal, electrical and mechanical stress throughout their service life, while also having to adapt to different driver requirements which can change in a second.

"Every component within the ignition system has a direct influence on combustion quality," said Matthew. "Insufficient ignition energy can lead to incomplete combustion, increased emissions and reduced engine efficiency."

HELLA's fuel and ignition range includes sensors, fuel feed units, high-pressure fuel pumps, ignition coils, spark plugs and glow plugs, designed to meet the requirements of modern engine management systems.

"Reducing diagnostic time and avoiding repeat repairs should be a key objective for garages," said Matthew. "By using components developed to OE standards and following manufacturer repair procedures, technicians can help ensure reliable vehicle performance while protecting workshop productivity and customer confidence."



Further information about HELLA fuel and ignition system components can be found online at HELLA TECH WORLD: <https://www.hella.com/techworld/uk/>

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WRENCH[®]

WORK. PLAY. EVERY DAY.

Introducing Wrench.

A premium clothing collection inspired by the automotive industry and designed for life on and off the job.

Combining modern styling, quality materials and everyday comfort, Wrench delivers clothing you'll be proud to wear wherever the day takes you.

Designed for Work and Play.

Available at your local branch today.

WORK. PLAY. EVERY DAY.

WHY CORRECT DIAGNOSIS MATTERS MORE THAN EVER

As more Euro 6 vehicles enter the independent aftermarket, workshops are increasingly faced with complex emissions-related faults. While components such as catalytic converters, diesel particulate filters (DPFs) and exhaust systems are commonly replaced, experienced technicians know that these failures are often symptoms of wider underlying issues.

A blocked DPF, for example, may be caused by interrupted regeneration cycles, faulty sensors, EGR problems or injector issues. Similarly, catalytic converter failures can result from engine misfires, excessive oil consumption or fuelling faults. Replacing the failed component without addressing the root cause can lead to repeat failures, customer dissatisfaction and costly comebacks.

Seasonal driving patterns can also influence emissions system performance. Vehicles used primarily for short urban journeys often struggle to complete regeneration cycles, allowing soot to build up within the DPF. As longer summer journeys become more common, existing issues can quickly come to light, making thorough diagnosis essential before any repair is undertaken.

“ Replacing the failed component without addressing the root cause can lead to repeat failures, customer dissatisfaction and costly comebacks. ”

As the vehicle parc continues to evolve, manufacturers must continually expand their product offerings to keep pace with workshop demand. Reflecting this trend, BM Catalysts recently introduced 21 new part references covering 114 fitments and approximately 4.1 million vehicles across Europe. The latest additions include catalytic converters, DPFs, SCR units, pipes and pressure pipes, with a strong

emphasis on Euro 6 applications, ensuring workshops have access to quality replacement solutions for an increasingly diverse range of vehicles.

With modern vehicles relying on increasingly sophisticated emissions technologies, workshops must also ensure they are fitting quality replacement components. Poorly manufactured products can create fitment challenges, compromise performance, and increase the likelihood of future failures.

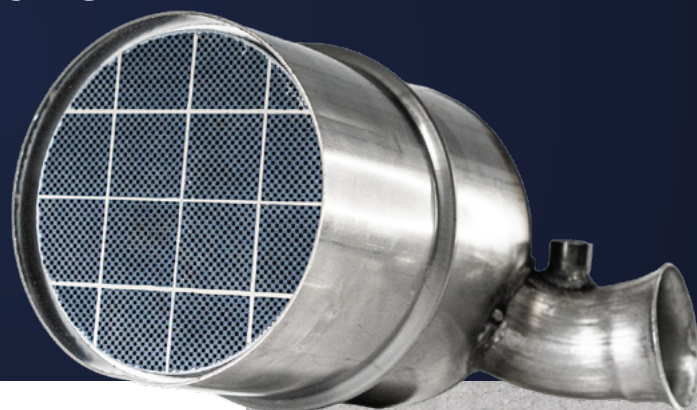
Selecting components from specialist manufacturers helps provide confidence in fit, durability and long-term reliability.

It's also important not to overlook the wider exhaust system. Leaks, damaged pipework and worn connections can affect sensor readings, trigger warning lights and contribute to emissions test failures. A complete inspection of the exhaust system should form part of any emissions-related diagnosis.

As vehicle technology continues to evolve, access to technical information and support is becoming increasingly important. Workshops that combine accurate diagnosis, ongoing training and high-quality replacement parts will be best positioned to deliver first-time fixes and maintain customer trust.

For emissions specialists such as BM Catalysts, continued investment in manufacturing, product development and Euro 6 vehicle coverage ensures workshops have access to the parts and support they need to service a rapidly changing vehicle parc.

To explore BM Catalysts' comprehensive range of catalytic converters, DPFs, SCR units and exhaust components, or to find the correct solution for your next repair, visit the online catalogue at BM Catalysts.



NEW TO RANGE

21 part references
covering 114
fitments and
4.1 m European
car parc

15 EU6 part
numbers covering
95 fitments

ONE EU1
reference
created for
Car SOS





Ask any workshop owner what their hourly technician rate is and they'll know the number instantly. Ask how much of that time is now consumed by extra processes before the repair even begins and the conversation quickly changes.

Vehicle health checks, customer videos and logging into various digital systems to clock onto the job are now part of everyday workshop life. Even straightforward servicing involves more steps than ever before, making bay throughput and efficient turnaround times critical to profitability and customer satisfaction.

Healthy bays and healthy reputations are built on first-time fits with trusted parts that technicians can choose with confidence. That's why they choose NGK.

Many of Niterra's NGK Ignition Parts are the Original Equipment (OE) fitment, and those precise engineering and quality standards are found throughout the NGK portfolio. From plugs to coils of all types, every product is designed to deliver reliable fit, premium performance and the OE quality technicians expect to complete repairs efficiently and with confidence.

NGK's advanced spark plug technologies, including precious metal iridium and platinum, are developed to support modern engine

demands while maintaining durability and performance under extreme operating conditions. NGK's ignition coils are designed to resist electrical stress so they can deliver stable electrical output and fast response times.

For workshops, trust is built over time. NGK has earned its place in service bays every day by being a name technicians know they can rely on.

When trust and efficiency are paramount, familiar quality is a must.



NGK part selection has never been easier via the Niterra Part Finder at www.ngkpartfinder.co.uk



**IGNITION
PARTS**

Gaining Traction

with febi Pre-Charging Pumps, Oil & Hydraulic Filters for Haldex Couplings



A Haldex coupling is an electro-hydraulic system commonly fitted to brands including VAG, Ford & Volvo. It is attached to the rear differential and allows the vehicle to switch between front and all-wheel-drive, depending on the demands of the road.



febi facts:

- ✓ 15 Pre-Charging Pumps in range
- ✓ 7 Hydraulic Filters in range
- ✓ 6 corresponding Filter & Oil Service Kits also available
- ✓ Accessories & fixings included, where required
- ✓ Fast-to-Market solution & offer

Quality Inside & Out

Service Recommendation

Interestingly, some vehicle manufacturers do not recommend a routine servicing schedule for the Haldex all-wheel drive coupling system. Instead, this system is described as a “filled for life” or “non-serviceable item”. However, it is common for the filter media to become overloaded, causing the hydraulic pump to fail. As a result, **replacing the filtration element helps to maintain the systems longevity and prevent costly repairs.**



Complete Solution

febi's range of Hydraulic Filter & Oil Service Kits for Haldex couplings include the filter, the correct amount of oil & the fitting accessories (where required) - providing **the perfect maintenance solution for vehicle owners and workshops.**

Highest Quality

All febi products are designed, specified and manufactured to be direct OE replacements, and all our products for Haldex couplings are no exception to this.



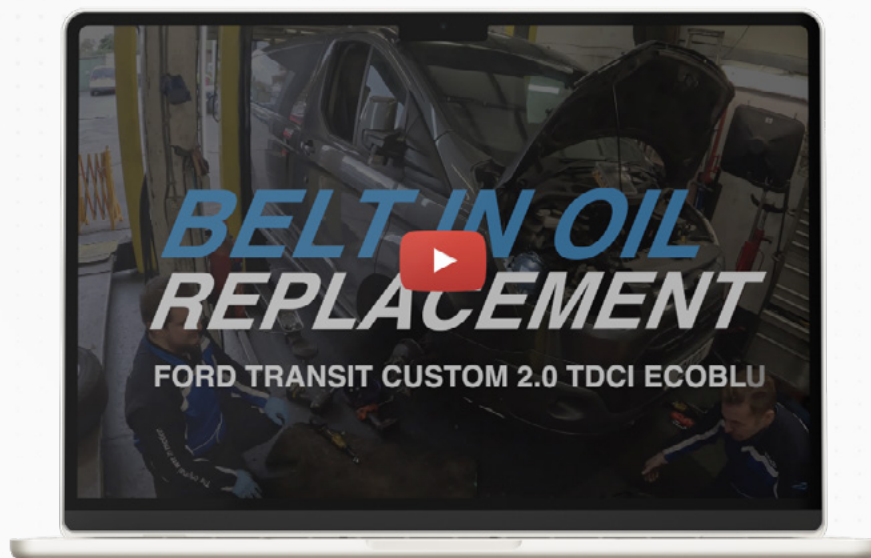
SOLUTIONS
DRIVEN BY YOU

www.febi.com

bilsteingroup®

DAYCO LAUNCHES FORD TRANSIT 2.0-LITRE DIESEL ECOBLUE WET BELT REPLACEMENT VIDEO

Irrespective of any industry debate over the use of wet belts to drive the timing control of modern combustion engines, Dayco continues to equip independents with both the original equipment (OE) replacement belt kits they need, and to provide the technical support required to fit them correctly.



recommends that technicians check the condition of both the oil and the belt, every time one of these vehicles enters the workshop.

Following these checks, if any evidence of diesel or debris is found in the oil, and if there is any visible damage whatsoever to the back of the belt, then belt replacement is necessary because the failure of the belt will have catastrophic consequences to the engine.

No matter what the condition however, Ford's scheduled belt replacement interval must be taken as an absolute maximum, and that the oil pump belt is always also changed, along with the timing belt and tensioner.

In addition to demonstrating the correct removal and replacement procedures, the video also highlights some best practice principles, which are important to carry out to ensure the best possible outcome.

The first concerns the tensioner, which must be positioned correctly, the second is to smear oil on the back of the belt once it is fitted, which will lubricate the contact point between the belt and the tensioner before start-up, and the third concerns the oil pump pick up, which must be checked for debris and cleaned. However, if the pump is found to be excessively worn, it must be replaced.

In addition, Dayco naturally recommends technicians refer to a reputable source of service and repair data, such as that supplied by Autodata or HaynesPro, for the full repair instructions, as well as for the VM's specified tightening sequences and torque values.

Technicians installing Dayco's premium quality products and applying its sound technical advice as presented in this new video, should have few problems successfully and uneventfully replacing the timing drive system of this popular vehicle, allowing it to return to its daily duties, performing reliably, until its next scheduled timing belt replacement.

The video is available on the Official Dayco TV YouTube channel, or by scanning this QR Code.



For more information regarding the OE quality power transmission products in the Dayco range, please email: info.uk@dayco.com or visit: dayco.com

With the launch of its latest installation video, alongside timing belt kit KBIO017, oil pump belt 941121 and auxiliary belt 6PK1410S, Dayco is again demonstrating its commitment to independent workshops and its resolve to help technicians carry out this important, vehicle manufacturer (VM) specified, scheduled replacement procedure, quickly, easily, and crucially, reliably.

The Ford Transit remains a popular light commercial workhorse for both private individuals and large organisations, and many commercial vehicle (CV) operators also have them as part of their wider fleet. So, carrying out a timing belt replacement should not be uncommon.

However, there are still some important steps that can be overlooked, and so in addition to its desire to provide technicians with the valuable information they need to make the replacement procedure easier, another reason for producing the video is to highlight these issues and to help those doing the work complete it successfully, without any come back.

As the OE supplier of the timing and auxiliary drive systems for the 2.0-litre EcoBlue engine used in the Transit from 2016, Dayco is not only able to provide a genuine like-for-like aftermarket replacement, it's also well positioned



to highlight potential operational and installation problems.

Although the timing belt is designed to withstand the environment in which it runs, one of the potential issues with this application is contamination of the oil, with diesel from the vehicle's fuel system. Should this reach a level beyond those specified by Ford's design parameters, then the belt becomes vulnerable to the detrimental consequences that a higher concentration of diesel contamination can cause.

For example, in extreme cases of prolonged exposure to higher than specified contamination, material can dislodge from the belt's surface, which further affects the integrity of the oil and potentially causes problems such as blocking the oil pump strainer.

As a result, in addition to adhering to the VM's replacement interval, Dayco

**SILENCIO™**

WITH VALEO AQUABLADE™

Brake 4 meters earlier, thanks to better visibility!*

*Source: Fraunhofer Institute IOSB study on >5500 tests in real driving conditions performed at 50km/h

Valeo AquaBlade™: Integrated Innovation for Maximum Visibility and Safety

Modern car design and the rapid evolution of Advanced Driver Assistance Systems (ADAS) have dramatically increased the need for efficient windshield cleaning. With larger windshield surfaces, particularly in SUVs, and the critical placement of cameras and rain sensors at the top of the glass, achieving efficient cleaning across the entire wiped area has become a challenge. Valeo AquaBlade™ is a multi-awarded innovation that addresses this market trend.

The Valeo AquaBlade™ is a flat wiper blade that features an integrated washing function, fundamentally changing how cleaning fluid is applied. Unlike traditional spray nozzles, which are mounted on or under the bonnet, the AquaBlade™ distributes washer fluid evenly along the full length of the wiper blade through laser-cut holes. The system is a sophisticated Original Equipment (O.E.) fit, comprising the innovative blade, specific routing for water and electricity (for the heating option), a detection system, and logic software in an ECU or BC to synchronise fluid release with the arm position. The system is available in unheated 1-ramp or 2-ramp designs, and a heated version that includes an electrical heating foil glued onto the blade's spline for quick de-frosting and improved cleaning efficiency in freezing conditions. This technology is also available for the rear window, providing even fluid distribution.

The primary benefit of the AquaBlade™ system is significantly increased safety. Traditional spray nozzles create 2 to 3 seconds of visual disturbance, which at 90 km/h can equal 50 to 75 meters of blind driving. AquaBlade™ limits this visual disturbance by distributing water across the wiped area at any speed, cleaning the full wiping pattern even at 160 km/h.

Independent studies by the Fraunhofer Institute IOSB confirm that drivers using AquaBlade™ react 315 milliseconds earlier than those using traditional nozzles. This quicker reaction time translates directly into reduced braking distance: 4 meters saved in urban driving (50 km/h) and 11 meters saved on the motorway (130 km/h). The system also improves night visibility by reducing glare and blur when washing. In a poll by the Fraunhofer Institute IOSB, 82% of drivers thought Valeo AquaBlade™ was the safest system.

As the Valeo AquaBlade™ system replaces conventional bonnet-mounted washer jets, separate spray nozzles and associated tubing by integrating laser-cut washer fluid channels directly into the wiper blade, it also reduces washer fluid consumption by up to 50% for the driver and lowering overall vehicle system weight by up to 2.7 kg. By reducing the overall weight of the wiping and washer system, the Valeo AquaBlade™ technology helps vehicle manufacturers lower fuel consumption and energy demand, contributing to reduced CO₂ emissions and supporting compliance with increasingly stringent global emissions and efficiency targets.

Valeo AquaBlade™ is establishing itself as the new market standard, having been in production on more than 10 vehicle models since 2013. For the Independent Aftermarket (IAM), Valeo Service covers all vehicles O.E. equipped with the technology. The IAM replacement parts - offered in both the Silencio and SWF ranges - are the original OE parts, offering the same performance and options as the original equipment, ensuring customer satisfaction. The patented system is supported by a strong portfolio of services, including technical hotlines, digital support, fitting videos, and comprehensive packaging with QR codes linked to instructions. Valeo AquaBlade's™ PACE award-winning technology is here to stay, and by doing so, make the future both clearer and safer for all.

THE AQUABLADE™ ADVANTAGE

Brake 4 meters earlier
thanks to better visibility*

Drivers react 315 milliseconds
earlier than with
traditional nozzles*

Reduces braking distance:
4 meters in urban driving
(50 km/h) and 11 meters on
the motorway (130 km/h)*

Reduces washer fluid
consumption by
up to 50%

Lowers system weight
by up to 2.7kg



For more information visit
valeoservice.co.uk



The Science of Silence

with febi Strut Mountings



A small component in size but one that plays a big role in the suspension system, the Strut Top Mounting does far more than simply connect the shock absorber to the chassis. Its design, material quality and durability are essential for managing the transmission of NVH forces into the cabin and for preserving accurate wheel alignment — factors that directly influence passenger comfort and vehicle performance.



febi facts:

- ✓ Over 800 Strut Top Mountings and Kits
- ✓ Maintains driving comfort and correct suspension operation
- ✓ Precise rubber shore hardness for longevity and OE performance
- ✓ Manages NVH forces transmitted from the suspension to the cabin

Articles of Interest



193000

Applications

Peugeot 208, e-208, 2008,
PSA various models

OE Number

98 244 994 80



193564

Applications

Mercedes-Benz A/B-Class,
CLA, EQA, EQB, GLA, GLB

OE Number

177 323 63 00



180963

Applications

Toyota Auris, C-HR, Corolla,
Corolla Cross

OE Number

48609-F4010



197472

Applications

Tesla Model 3

OE Number

1044370-00-D



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Our Precision, Your Advantage

STRUT MOUNTING KITS: COMPLETING THE REPAIR

When it comes to suspension diagnosis, attention is often directed towards shock absorbers and steering components when front-end noise or vibration is present. However, one of the most frequently overlooked causes is also one of the simplest: the strut mounting kit.

Serving as a key link between the suspension strut and the vehicle chassis, the top mount plays a critical role in both load support and noise, vibration and harshness (NVH) control. When it begins to wear, the symptoms are often misinterpreted as more complex suspension faults.

Common Symptoms

Beyond visual defects, a worn or deteriorating strut mount can present itself in several ways that are easily mistaken for other issues:



Knocking or clunking noises when driving over bumps, potholes or rough roads:

This occurs when rubber components have either totally disintegrated or become excessively compressed. With this damping layer no longer effective, metal-to-metal contact can occur, meaning impact from the road is transmitted directly into the chassis, producing the characteristic clunking noise.



Increased vibration, often felt through the body or the steering wheel:

A strut mount serves as a damper for vibration – if the rubber is worn, vibrations can travel up the steering column.



Steering issues such as stiff, jerky or loose steering feel, often not returning smoothly to centre:

A strut mount is more than just a rubber top mount. In most applications, it also includes an integrated bearing assembly, which allows the strut to rotate smoothly during

steering. This bearing consists of precision metal balls running within a grease-filled race, designed to reduce friction. If this bearing begins to wear or lose lubrication, steering can become notchy or inconsistent.



Because many of these symptoms overlap with faults in the suspension or steering system, the underlying cause is often missed during initial diagnosis. Strut mounts, unlike more visible components, are not always thoroughly inspected early on. As a result, dampers are frequently replaced while the original mounts are left in place, allowing the issue to persist.

The importance of a complete repair approach

Strut mounts are designed to work in conjunction with a damper and spring as a single system, meaning wear in any one of these components can affect overall suspension performance. Replacing only the damper without addressing the mount risks leaving the underlying issue unresolved, which is why OE-level repair practice recommends replacing a strut mount at the same time as a shock absorber.

KYB offers a full range of mounting kits with the part number prefix "SM". These kits include the mount, integrated bearing and all other associated fitting hardware such as nuts and bolts, ensuring a complete OE-style repair in one package.





BMW F30 STEERING & SUSPENSION - IN DEMAND

THE COMPLETE REPAIR. DONE RIGHT FIRST TIME.

The BMW F30/F31's performance setup puts constant stress on steering and suspension components through braking, cornering and road impacts, with run-flat tyres and large wheels further accelerating wear and leading to vibration, uneven tyre wear and reduced stability. As mileage increases, worn joints and bushes begin to affect driving precision and comfort.

More mileage, more wear - making steering and suspension a key repair category.

THE BGA SOLUTION.

BGA Steering & Suspension components restore OE steering, handling and driving feel on BMW F30 and F31 models, with 55 SKUs covering the full front and rear chassis. Engineered for quality, durability and fitment confidence, the range includes wishbones, tie rods, drop links and strut mounts for complete chassis coverage.

BMW
320D GRAN TURISMO
320D TOURING



SR0918

BMW
320D TOURING
320D GRAN TURISMO



LS0935

BMW
320D GRAN TURISMO
320D TOURING



TRC09024



**5 YEAR
WARRANTY**

PRODUCT HIGHLIGHT

Highly Anticipated BMW Crankshaft Pulley Kit

TVD: GT1304600K

After three years of development, we are excited to announce the arrival of GT1304600K; one of the most in-demand new-to-range parts we have ever released.

Driven by an expert R&D team and close collaboration with customers, GT Automotive remains at the forefront of market demand. Our continuously expanding Crankshaft Pulley range is engineered for the industry's most relevant applications, delivering OE-quality performance, proven reliability and innovative aftermarket solutions.

For 2.0 B47 Applications

B47 D20 A

B47 D20 B



BMW Crankshaft Pulleys – A Known Weak Point

A common failure point on many BMW applications is the Crankshaft Pulley. Its bonded rubber damping element, designed to absorb torsional vibrations, naturally degrades over time. As the rubber hardens and cracks, the bond between the pulley sections weakens, eventually causing the assembly to separate and fail.

While rubber engine components naturally degrade under prolonged exposure to high operating temperatures, Crankshaft Pulleys on certain BMW engines exhibit a notably higher-than-expected failure rate. Although several factors may contribute, the root cause of this premature deterioration has yet to be conclusively identified.



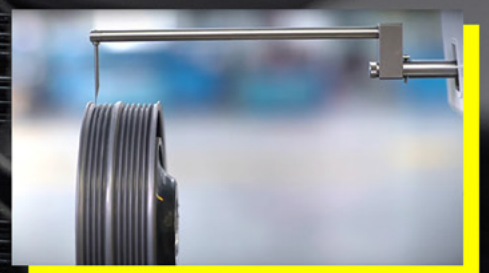
Affected Applications

The issue is not universal across all BMW engines. The highest incidence of failure is seen on the N47, N57 and B47 engine families and although the B47 was introduced as the successor to the N47, it continues to exhibit similar failure characteristics.

GT Automotive Crankshaft Pulley Solutions

GT Automotive stock a large range of Crankshaft Pulleys specifically designed for BMW applications, looking to combat the issues found in the OE parts.

Drawing on over 40 years of combined OE manufacturing and aftermarket expertise, GT Automotive delivers products engineered to meet—and often exceed—OEM standards. Driven by expert R&D, many designs are refined to address known OE weaknesses, delivering enhanced performance, reliability and longevity. Every range is backed by expert technical support and a commitment to customer satisfaction throughout the product lifecycle.





FORD TRANSIT TRANSMISSION - IN DEMAND

BIG LOADS + MILEAGE = HIGH DEMAND

The Ford Transit's demanding workload puts constant stress on driveshafts and CV joints through heavy payloads, stop-start operation and high annual mileage, with harsh operating conditions further accelerating wear and leading to vibration, clicking noises and reduced driveline stability. As mileage increases, worn driveline components begin to affect performance and reliability.

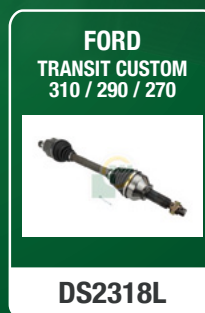
Heavy loads, high mileage, high demand - making Transit transmission repairs a key aftermarket opportunity.



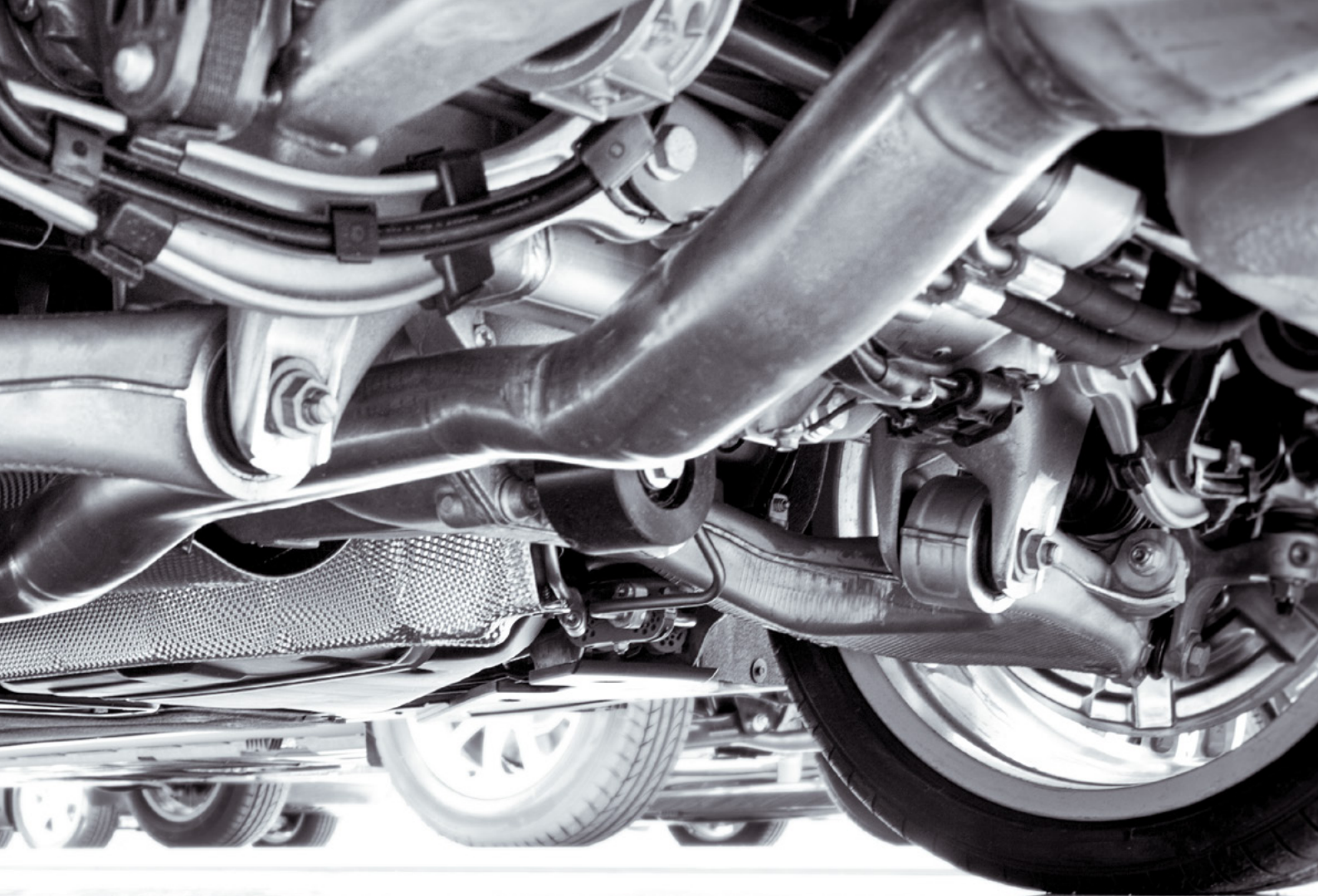
THE BGA SOLUTION.

BGA Drive Shafts and CV Joint Kits restore smooth power transfer and reliable driveline performance across Ford Transit and Transit Custom models, with 29 SKUs covering all Transit transmission applications, including BGA's leading driveshaft pair DS2318R and DS2318L. Engineered for durability, quality and fitment confidence, the range provides dependable coverage across multiple engine generations and body styles for high-mileage commercial vehicles.

One Supplier. Complete Driveline Repair.
Built for the demands of Britain's hardest-working vans.



**5 YEAR
WARRANTY**



THE CHASSIS EXPERTS

Fit and forget repair solutions
from Schaeffler.

Schaeffler are the chassis experts.

We are a trusted technical partner of the automotive industry, delivering high-tech components and systems for original fitment by vehicle manufacturers.

We have used this OE know-how and engineering excellence to create our FAG steering and suspension range, which offers a genuine quality alternative to independent workshops. It is the perfect accompaniment to our leading range of FAG hub repair solutions, with everything a mechanic needs to carry out a professional wheel bearing replacement - in just one box.

<https://vls.schaeffler.co.uk>



FAG

We pioneer motion

SCHAEFFLER

FIRST LINE

THE ALL MAKES SPECIALIST

PREMIUM QUALITY GEAR CABLES

A V A I L A B L E F R O M F I R S T L I N E

DON'T GO TO THE DEALER!

With more than 400 Gear Control Cables available, you don't need to go to the dealer!

The demand for premium quality replacement Cables to service the gear control mechanism on numerous automotive and light commercial vehicles is growing rapidly year on year. Similar to a traditional gear linkage, the Gear Control Cable selects and engages the different gears within the transmission system. To ensure a smooth gear selection it needs to be in good condition and replaced with a high quality product when it becomes worn.

In some instances, it is still a common thought that these are dealer only products, when in fact, First Line offers an extensive range for passenger car and light commercial vehicle applications, all of which are available from your local branch.



OUR GEAR CONTROL CABLES ARE ENGINEERED FOR PRECISION & DURABILITY

Manufactured using premium materials and advanced automated production processes, these components are designed to deliver precise operation, long-lasting durability and dependable performance in demanding automotive applications.

1. Friction-resistant inner tubes manufactured from specially engineered plastic materials
2. Stainless-steel, specially lubricated push-pull ropes for enhanced corrosion and wear resistance
3. Outer casings reinforced with tempered steel wires and coated with a high-quality protective compound
4. High-precision plastic and rubber components engineered for accurate fitment and smooth operation
5. Fully automated manufacturing and rigorous pull-load testing to ensure consistent quality and reliability



**MOST
REQUESTED**

Here is just a selection of our Gear Control Cables covering popular vehicles on the road today

Vauxhall Mokka X (2012-)
FKG1304

Citroën Berlingo (2008-)
FKG1011

Citroën Dispatch (2007-2016)
FKG1009

Mercedes-Benz Sprinter (2006-)
FKG1276

Fiat 500 (2007-)
FKG1321

Ford KA (2008-2016)
FKG1273

Vauxhall Movano MK II (2010-)
FKB3738

Kia Rio III (2011-2017)
FKG1302

VW Golf V, VI, VIII (2003-)
FKB3350

VW Polo V (2009-)
FKB3347

Vauxhall Vivaro (2001-2014)
FKB2779

Hyundai i10 (2007-2017)
FKC1500

Citroen Berlingo (1996-2011)
FKC1479

Ford Taunus (1979-1982)
FKC1111

We also have over 2,300 Other Braking, Clutch, Speedometer and Accelerator Cable References Available Now



See our full range on our webcat:



CHECK OUT OUR WORKSHOP VIDEOS



Scan the QR code to view our helpful Gear Control installation videos

MAKE FIRST LINE YOUR FIRST CHOICE FOR GEAR CONTROL CABLES

www.firstline.co.uk

WHY AUTUMN IS THE IDEAL TIME FOR EXHAUST CHECKS

Catch problems early, prevent winter breakdowns and keep your workshop ahead of the rush.

Every technician knows what winter does to the cars coming into the workshop. Cold, damp, salt and constant temperature swings put every component under strain, and exhaust systems – hanging exposed beneath the vehicle – are among the first to suffer.

The mistake many people make is waiting for winter to expose the problem. By then a quick job has often become an expensive one, and it lands in the middle of the busiest, most ramp-pressured weeks of the year.

Autumn is the smarter window. A short inspection now, before the worst of the weather sets in, catches the faults that winter would otherwise turn into breakdowns, MOT failures and comebacks.

WHAT THE COLD SEASON DOES TO AN EXHAUST

The threats are well understood, but they stack up quickly once temperatures drop:

- Moisture and condensation. Damp, cold conditions leave water sitting inside the system. Over weeks of short journeys that never fully heat the exhaust through, that moisture accelerates corrosion from the inside out.
- Road salt. Essential for safety, merciless on metalwork. Salt spray attacks pipework, mountings and fixings, weakening the structure and opening the door to leaks.
- Thermal stress. Repeated heating and cooling cracks tired pipes and joints, while longer cold-running times mean catalytic converters and DPFs take longer to reach efficient operating temperature. In the worst cases – a hot system meeting standing flood water, for instance – the sudden shock can crack a substrate outright.

“Autumn is the smarter window. A short inspection now, before the worst of the weather sets in, catches the faults that winter would otherwise turn into breakdowns, MOT failures and comebacks.”

THE FAULTS WORTH CATCHING EARLY

A proper autumn check goes beyond a simple glance under the car. Pipework and welds want a close look for rust, flaking and the early signs of perforation, while joints and flanges should be checked for cracks, splits and any trace of escaping gas. Rubber mountings and hangers deserve particular attention, as cold and salt harden, perish and corrode them over a single season.

To continue the theme of prevention beating repair, it is also worth treating fixings and fittings with a moisture-preventive coating while you are under there. Apply it before winter, on dry components, and you keep water out rather than locking it in.

Vitality, none of this work should be a matter of upselling. A perished mounting worth a few pounds, left in place, can drop a complete exhaust onto the road and turn a minor fix into a major repair. Catch it in autumn and the customer avoids the cost, the breakdown and the MOT failure, while you avoid the comeback that eats into ramp time when you can least spare it.

FITTING PARTS THAT LAST

When a replacement is needed, the part has to survive the season, which makes the choice of supplier almost as important as the decision to inspect. It pays to work with a manufacturer whose products are genuinely built for the conditions, with corrosion-resistant coatings that stand up to salt and moisture rather than simply matching the original on paper.

The support behind the part counts for just as much: a solid warranty, a fit-first-time guarantee and a responsive helpline are what let a garage stand behind every repair.

Klarius is one supplier that meets those marks. Its components are OE benchmarked and tested in-house, with corrosion-resistant aluminised coatings, a fit-first-time guarantee and a minimum two-year warranty across a range of more than 11,000 parts. A dedicated UK helpline is on hand when an application needs checking, and parts ordered in time reach the vast majority of the country by next morning.

Get the inspection done in autumn, and winter becomes a season the workshop is ready for, rather than one that catches it out.



Klarius™

- ✓ OE BENCHMARKED & TESTED IN HOUSE
- ✓ CORROSION RESISTANT ALUMINISED COATINGS
- ✓ FIT-FIRST-TIME GUARANTEE
- ✓ MINIMUM 2-YEAR WARRANTY
- ✓ 11,000+ PART NUMBERS



AIR SPRINGS

Air suspensions are taking over the roads—Monroe Air Springs take them to the next level. Engineered for **reliability, safety, and fewer comebacks**, they're the upgrade installers trust and drivers feel.

WHERE THE DIFFERENCE IS INSIDE

Each Monroe Air Spring is engineered for exceptional performance. Built with premium NR/CR rubber, it resists premature failures and aging, ensuring long-lasting durability. Zinc-electroplated crimping rings provide superior anti-corrosion protection, helping to prevent leaks and extend service life. Each air spring undergoes rigorous validation under extreme conditions, ensuring it meets or exceeds OE durability standards.



1. PREMIUM

ANTI-CORROSION PROTECTION

Monroe Air Spring crimping rings are made with premium anti-corrosion protection (based on zinc electroplating) that help prevent leakages to make air springs last longer.

2. HIGH QUALITY RUBBER

Monroe Air Springs are made with premium NR/CR rubber, a microporous material designed to resist premature burst failures and aging to increase air springs service life.

3. RIGOROUS

IN-HOUSE-TESTING PROCESS

Each Monroe Air Spring is validated and tested (in extreme conditions) according to in-house specifications and compared to OE characteristics to ensure excellent durability.

VEHICLE TYPE / SEGMENT

PART NUMBERING / PRODUCT NAME

POPULAR APPLICATIONS

PASSENGER VEHICLES

ASPXXXX
MONROE AIR SPRINGS

AUDI A6 C7 AVANT (4G5, 4GD)
FIAT DUCATO VAN (250_)
BMW X5 (E53)
MERCEDES-BENZ E-CLASS (W212)
VW TOUAREG (7LA, 7L6, 7L7)
PEUGEOT BOXER VAN



**800**

POLYFLEX PLUS NYLON GLOVE WITH FOAMED NITRILE PALM COATING

Superior grip, lasting comfort and outstanding abrasion resistance.

**SIZES
7-11**

PPE CAT II

EN388:2016

+A1:2018



4122X

EN 407:

2020



X1XXXX

EN388 LEVEL 4 ABRASION RESISTANCE



ENHANCED GRIP IN OILY CONDITIONS



EN407 LEVEL 1 HEAT PROTECTION

**GL897**

BLACK NITRILE POWDER FREE DISPOSABLE GLOVE

Offers superior grip and reliable performance.



TEXTURED FINGERS FOR BETTER GRIP



EN ISO 374-1 TYPE C CHEMICAL RESISTANCE



SILICONE-FREE FORMULATION

**GL201**

ORANGE GRIP NITRILE POWDER FREE DISPOSABLE GLOVE

Tougher than standard disposables with superior grip, durability & protection.



THICK SUPERIOR STRENGTH NITRILE



DIAMOND PATTERN FOR EXCEPTIONAL GRIP



EN ISO 374-1 TYPE B CHEMICAL RESISTANCE

**SIZES
S-XL**

To find out more contact your local branch today!



Bestplate: Trusted by the automotive industry

For years, Bestplate has supplied number plates and fixings to some of the world's leading automotive brands, earning a reputation for quality, consistency and compliance across the UK market.

Working with manufacturers including Volkswagen Group brands, Stellantis marques, Nissan and Hyundai, Bestplate continues to deliver products that meet the high standards expected throughout the automotive sector.

From classic and motorcycle plates to EV green plates and premium 4D options, every assembled plate is produced to meet BSAU145e standards, giving customers **confidence in both quality and legality**.

Quality. Compliance. Confidence.

As registration periods continue to drive demand across the sector, Bestplate remains the trusted choice for manufacturers, dealerships and automotive professionals across the UK.



The MetaTek number plate is the world's first digitally printed flat aluminium plate, **developed and manufactured in the UK**. With industry leading environmental credentials and quality, MetaTek is stronger, lighter and more durable than any other type of number plate.

There are many benefits to MetaTek vs Acrylic including print speed, minimal handling and preparation of printing material, improved wastage costs, and various environmental statistics as outlined below.

Lower Carbon Footprint



Produces significantly less carbon during manufacture, helping reduce environmental impact from the start.

Fossil Fuel Consumption



Requires fewer fossil fuel resources to produce, reducing reliance on non-renewable materials.

Carcinogenic Human Toxicity



Manufactured using processes with a lower potential impact on human health and workplace safety.

Ozone Depletion



Has a reduced impact on the ozone layer compared to many traditional number plate materials.

Eco System Impact



Lower environmental impact throughout its lifecycle, helping protect wildlife and natural ecosystems.

High Recycling Rate



Designed to be more easily recycled, helping reduce waste and support a circular economy.

Premium Plates.
Trusted Partners.
National Support.



ONE KIT. ONE BOX. EVERY PART. JOB DONE.

Fitting a wheel bearing shouldn't mean stopping the job before it even starts.

Trupart wheel bearing kits are built around a simple idea, **open the box and everything needed for the repair is already inside.**



EVERYTHING INCLUDED

Each kit includes the wheel bearing itself alongside the fitment accessories that typically slow a job down, including bolts, seals, clips, grease, ABS rings and additional components where applicable.

No last minute trips to the parts shelf.

No delays while a customer's vehicle sits on the ramp.



WIDE VEHICLE COVERAGE

With more than 350 kits covering a wide range of popular UK vehicle applications, including wheel bearings, hub bearings and ABS sensors, there is a Trupart solution for the vast majority of vehicles entering today's workshop.



ENGINEERED FOR THE TRADE

Every Trupart wheel bearing is manufactured to ISO/TS 16949:2009 standards using premium materials and laser etched for full production traceability, giving technicians complete confidence in what they are fitting.



WARRANTY PROTECTED

Every kit is backed by a 12 month, 12,000 mile warranty.

The result is a repair completed faster, fitted right first time, and backed by warranty.

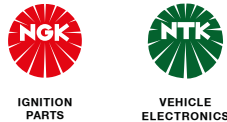
ONE KIT. ONE BOX. EVERY PART. JOB DONE.



QUALITY PARTS.
BUILT FOR THE TRADE.



IN PARTNERSHIP WITH OUR KEY SUPPLIERS



The Smart Choice for Today's Technician!

**SMART
CHOICE**
MAGAZINE



***If you've got the car...
we've got the parts!***

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