



## Sponsor a trainee mechanic

UK charity **Ace Africa** is asking CM readers for their help in training a new generation of car mechanics. Even a donation of just a few pounds will go a long way towards helping young people in one of the most deprived areas of Kenya to ensure a prosperous future.

Kenya currently has around 1.5 million licensed vehicles and adds about 100,000 new registrations per year. Of these, all but about 17,500 are secondhand, which means there is a high demand for skilled mechanics.

In 2002, primary school teacher Grace Ochieng Andiki recognised that training young people in relevant practical skills could be the



key to ensuring the survival of her local community in Bondo District. This region had been devastated by the HIV virus, which had left an estimated one third of all children orphaned by AIDS. To replace this lost generation and ensure a better education and future for children in Bondo

District, Grace founded the voluntary Got Matar Community Development Group (GMCDG), which has upgraded conditions in 10 primary schools, built a 600-place secondary school and is currently building an Institute of Technology to offer young people vocational training in a range of practical skills, including a course for budding car mechanics.

Until the institute is completed, training is taking place in rented buildings, with limited access to equipment. The GMCDG intends to move as quickly as possible into a new workshop, which is where they need your help.

The aspiring mechanics at the Institute of Technology



[www.caarparts.co.uk](http://www.caarparts.co.uk)

are badly in need of even the most basic tools and equipment to help with their studies. Every few pounds can make a huge difference: a donation of £7 will pay for a pair of industrial work boots, £35 will pay for a welder and £100 buys a trolley jack. Every donation, big or small, will be gratefully received.

If you want to find out how to buy workshop equipment for the trainees or support the construction of the new Institute of Technology, please visit [www.ace-africa.org/car-mechanic-shopping-list/](http://www.ace-africa.org/car-mechanic-shopping-list/) or contact Olivia at Ace Africa on [olivia.jarman@ace-africa.org](mailto:olivia.jarman@ace-africa.org) or 0207 933 2997.

## Pure Highway 400 & 600 digital radio adapters from Halfords

1 TO GIVE AWAY

With 18 new digital radio stations poised to go on-air in the UK, covering music, sport, talk and business, there has never been a better time to upgrade your in-car audio. However not everyone is in a position to replace their existing equipment with a DAB digital upgrade. Now you don't need to. Pure Highway digital adapters allow you to access high-quality digital broadcasts using your existing set-up, along with music streaming services such as Spotify.

The Pure Highway range of plug-and-play in-car digital audio adapters comprise a wireless display and controller designed to sit on any dashboard, much like a sat-nav or dashcam, with a discreet antenna that's affixed to the windscreen and a power cable that can be tucked behind the interior trim. They're easy-to-fit and simple to use, giving drivers instant access to the world of digital radio, plus you can use Bluetooth to connect to music streaming services, initiate mobile personal assistant and set up an in-built tagging service to create a music discovery playlist.

The adapter also switches seamlessly between broadcast stations, so listening isn't interrupted as users continue their journeys across the country. The 600 model has the added facility to make hands-free calling through Bluetooth.

The Pure Highway 400 (£129.99) and 600 (£149.99) digital radio adapters are available exclusively from Halfords until July 2016. The devices are digital tick-approved and come with three years warranty as standard.

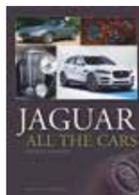
For full details, visit [www.halfords.com](http://www.halfords.com)



We have one Pure Highway digital radio adapter to give away to CM readers. For a chance to win it please complete the coupon on page 21.

## Jaguar: All the Cars

Nigel Thorley  
Veloce Publishing



This must-read for all fans of the big cats is now in its fourth edition and has been revised to bring the story of this venerable British marque right up-to-date.

Author Nigel Thorley has compiled a unique listing of all models and specifications of SS and Jaguar from 1931 to the present day, including details of each car's development and production, along with a detailed examination of engine types, colour schemes and factory accessories. 392 pages.

*Jaguar: All the Cars* has an RRP of £40 from Veloce at [www.veloce.co.uk](http://www.veloce.co.uk) or Amazon and other booksellers.

## Simoniz 3-Step Wheel Care Kit

5 TO GIVE AWAY

Car cleaning expert Simoniz, has reformulated its award-winning **Back to Black Tyre Shine** (500ml/£4.99), promising a glossier finish than ever before. The latest formulation ensures tyres have a longer-lasting, deep gloss shine and a more durable finish, lasting for up to 350 miles. The spray restores tyres back to their original looks while adding a protective layer against UV damage.

**Back to Black Tyre Shine** is part of the Simoniz 3-Step Wheel Care routine, alongside **Ultracare Alloy Cleaner** (500ml/£6.99) – a unique acid-free spray that quickly cleans grime, road dirt and other deposits with no corrosive effects, even on scuffed or damaged alloys, for a showroom finish – and **Complete Wheel Protector** (300ml/£4.99) – a spray that is suitable for any wheels, coating them with a protective layer to prevent damage from the road and environment.

The new formula Simoniz Back to Black Tyre Shine and other products in the 3-Step Wheel Care range are available from Halfords, Tesco, Wilkinsons and Costco.

More information from [www.holtsauto.com/simoniz](http://www.holtsauto.com/simoniz)



WIN

We have five Simoniz 3-Step Wheel Care Kits, comprising bottles of Back to Black Tyre Shine, Ultracare Alloy Cleaner and Complete Wheel Protector, to give away to CM readers. For a chance to win one complete the coupon on page 21.

## Carlube Triple R ECO-flo

The new Carlube Triple R ECO-flo is a range of ultra-low viscosity engine oils designed for use in the very latest fuel-efficient engines. The ultra-low viscosity ensures the oil has rapid circulation around the key engine components from cold start-up and offers supreme protection from wear at high-temperature long-distance driving.

The ECO-flo range has been formulated to achieve minimal friction and maximum fuel economy without compromising on wear protection, deposit formation and sludge build-up. The advanced additive technology used in these oils also helps provide full engine emissions systems protection, resulting in less

harmful pollutants and emissions.

The four new engines oils in the ECO-flo range include a 0w16 engine oil – a first on the UK market – as well as an 0w20 oil targeted at Honda, Mazda, Mitsubishi, Nissan and Toyota petrol engines. The range is completed by two 5w20 oils targeted at Chrysler, Fiat, Ford, Jaguar and Land Rover vehicles.

All of the oils in the Carlube Triple R ECO-flo range come in 1-litre and 5-litre bottles.

Further info from [www.carlube.co.uk](http://www.carlube.co.uk)



## Nigrin rubber preserver

Extremes in weather can take a toll on rubber seals on your car doors and boot, preventing them from forming an effective seal and often necessitating costly replacement.

In winter, a spray with Nigrin rubber preserver will keep the seals from freezing to the bodywork and accidentally tearing. In summer, it protects them from damaging UV radiation and heat, which can make them brittle and stiff.

The convenient 250ml spray can be applied to barely accessible places in a targeted fashion, avoiding window glass, upholstery, switches, steering wheel and grab handles. After treatment, the rubber will feel soft again, look like new and be fully protected against wear and tears.

Nigrin rubber preserver is available for £4.59 + p&p from the Rameder English-language webstore at [www.rameder.eu](http://www.rameder.eu)



## NEWS IN BRIEF



Established more than 30 years ago, the **National Kit Car Motor Show** will be held at Stoneleigh Park in Warwickshire on May 1-2, 2016. All of the major kit car manufacturers will be present, including the launches of DNA Automotive's BMW Z3-based 2Fifty Cal, Faroux Sports Cars' Porsche boxer-based replica of the Le Mans-winning Porsche 917, and FinnLuxury's carbon-fibre Tritium. Tickets and entry details available from [www.nationalkitcarshow.co.uk](http://www.nationalkitcarshow.co.uk)

The **London Motor Show** is returning to the capital for the first time since 2008. It will take place at Battersea Evolution in SW11 from May 5-8, with 35 car-makers showcasing 130 of the latest vehicles, plus special guests including Sir Stirling Moss, Tiff Needell, Ben Collins, Nigel Mansell and Afzal Khan. Tickets and further information from [www.the-londonmotorshow.co.uk](http://www.the-londonmotorshow.co.uk)

**Sogefi**, a leading name in automotive filters, is supplying the oil filter for Audi's new V8 4.0 TDI engine, which will power this year's Q7. This is one of the first engines in the world to feature an electrical supercharger, and will also be used in the upcoming Audi A8, Porsche Panamera and Cayenne, and VW Touareg. The real peculiarity of this model is the unusual location of the oil filter inside the crankcase, surrounded by constant flows of corrosive blow-by gas, hot oil and burnt residues, with the filter module designed to resist these extreme conditions.



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NEWS IN BRIEF



▲ The RAC has begun equipping its 1500 patrols with state-of-the-art battery testers that will enable them to carry out full roadside diagnostic checks on vehicle batteries, starting and charging systems, and providing customers with detailed reports of the findings. Faulty batteries are the number one cause of RAC call-outs, affecting more than 445,000 RAC members in 2015.

► Insurance software specialist CDL has signed a three-year contract to provide full vehicle provenance and valuation data to the RAC for motor trade, vehicle breakdown and insurance customers. The partnership will also provide vehicle provenance information for consumers through RAC Passport and vehicle data to support RAC's breakdown service, call centre operations and RAC Cars.



► Ficosa and Panasonic have joined forces to develop an intelligent rearview mirror system that has an integrated display in its structure which allows it to work as both a mirror or as a monitor that relays images from a camera located at the rear of the vehicle, according to the driver's needs. It extends the rearward field of vision up to 50° – more than double compared to a traditional mirror – which considerably reduces blind spots. It also adjusts for glare and improves visibility in low-light conditions.

NEW from LASER TOOLS

Magnetic sump plug removal tool

► Draining engine oil is a messy job at the best of times, especially when the sump drain plug inevitably falls into the drain pan! Never again. The Laser magnetic sump plug tool (part no 6245) uses an ultra-flexible steel cable and a super-strong magnet to firmly grip the sump plug. Simply loosen the plug, attach the tool and spin off the plug – no dirty oil on your hands and the sump plug is held safely and securely. And it can be used on horizontal or vertical sump drain plugs.

You can see a video of the tool in action here: <https://youtu.be/TKyYWoWhW8>  
The Laser magnetic sump plug is priced at £12.19 inc VAT.



Four-way ratchet, socket and bit set

► This four-way reversible ratchet (part number 6428) includes both 3/8in and 1/4in socket drives and 1/4in and 5/16in bit drivers, and features a super-smooth 72-tooth ratchet at both ends.

- The set includes:
- ▷ 8 x 1/4in drive sockets: 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm
  - ▷ 6 x 3/8in drive sockets: 12mm, 13mm, 14mm, 16mm, 17mm, 19mm
  - ▷ 18 x 1/4in Hex shank bits: Phillips Ph1, Ph2, Ph3; PzDrive Pz1, Pz2, Pz3; Flat 4mm, 5mm, 6mm; Hex 4mm, 5mm, 6mm; Star T10, T15, T20, T25, T30, T40
  - ▷ 14 x 5/16in shank bits: Hex 4mm, 5mm, 6mm, 7mm, 8mm, 10mm, 12mm; Star Tamperproof T20, T25, T30, T40, T45, T50, T55

The ratchet and sockets are manufactured in chrome vanadium and the bits in strong S2 steel. The four-way reversible ratchet, socket and bit set costs £63.10 inc VAT.



Three-in-one multifunction tester

► This handy battery-powered tool (part number 6378) measures tyre pressure and also records battery and alternator voltage. A helpful LED work light is also included.

The tyre pressure gauge function lets you record the pressure of each individual tyre in PSI, BAR or kilogrammes-per-square-centimetre. Then by pressing the 'Record' button, you can store up to four tyre pressures in turn for comparison.

You can also plug the device into the 12-volt socket, turn on the ignition and get a reading of the battery voltage and status (low, mid or full). Switch to alternator test mode, switch on the engine and rev to 2000rpm, and the alternator voltage output is displayed.

The Laser three-in-one multifunction tester is typically priced at £34.44 inc VAT. For further details, visit [www.lasertools.co.uk](http://www.lasertools.co.uk)



Mac Tools BWP151P2 cordless impact wrench

► Nicknamed 'The Bruiser' thanks to its superior power in excess of 1600Nm, the new 18-volt, 1/2in BWP151P2 cordless impact wrench from Mac Tools is designed to be as tough as possible to withstand the busiest workshops. Its powerful brushless motor and heavy-duty impact mechanism combine to produce a fastening torque of 950Nm and breakaway torque of 1625Nm; speed and torque are quickly adjusted via an easy-access switch.

In addition, an LED light with time delay illuminates the work area both during and immediately after use, a hog ring drive end offers secure fastening and easy socket changes, and forward/reverse operation is easily selected with one hand. The inclusion of a narrow, easy-grip handle also means balance and reduced user fatigue.

The tool is powered by five amp-hour R-spec lithium-ion batteries, a big improvement over previous models in the range.

The BWP151P2 cordless impact wrench is supplied with a super-tough carry-case and has a full three-year warranty.

Further info from [www.mactools.co.uk](http://www.mactools.co.uk)



J-B Weld MinuteWeld & SuperWeld

4 TO GIVE AWAY

► J-B Weld, experts in bonds and adhesives for the automotive industry, has launched two new bonding agents for use on multiple surfaces, including metal, glassfibre, glass, rubber, ceramic, wood, leather, vinyl, cloth and most plastics.

**MinuteWeld** is a high-strength, instant-setting, two-part epoxy. It is ideal for rapid fixes that require a minimum amount of set time, forming a permanent bond in just 1 minute at temperatures down to 5°C (set time is slightly longer below this temperature) and curing within one hour. It dries clear and with a tensile strength of 2850psi. A bottle of MinuteWeld retails for £8.99.

**SuperWeld** is a cyanoacrylate super glue that provides a strong, instant bond in just seconds, making it ideal for awkward surfaces. The brush applicator ensures a neat and even application on small surfaces, making it ideal for repairing interior trim or rear-view mirrors. It comes with a money-back guarantee if you find a similar product that performs better. A bottle of SuperWeld is £5.99.

Further information on the range, see [www.jb-weld.co.uk](http://www.jb-weld.co.uk)



**WIN**  
We have two bottles each of J-B Weld MinuteWeld and SuperWeld to give away to CM readers. For a chance to win one please complete the coupon on page 21, specifying which you would prefer.

Federal-Mogul improves gasket technology twice over

► Federal-Mogul Motorparts has launched two new high-performing gasket technologies, Coriuseal and Coriusim, under its Payen brand name. These new technologies improve performance and are environmentally friendly.

Coriuseal is a high-performing, durable gasket that is easy to remove and assemble. It features a high performance elastomer that improves temperature and abrasion resistance, delivering a superior sealing solution and increasing the life of the gasket.

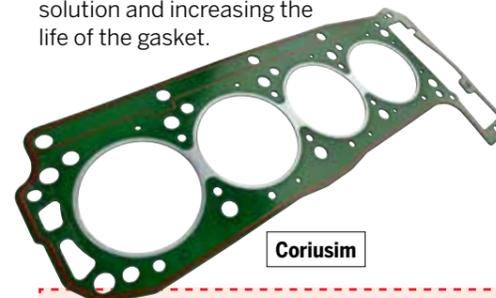


Coriuseal

Coriuseal improves gasket protection from thermal motion between the head and engine block through its PTFE coating, which also offers enhanced anti-friction properties. The soft surface coating prevents gases blowing past the bores into the cooling system.

PAYEN's Coriusim technology helps minimise bore distortion, to reduce oil consumption and optimise piston ring performance. Its design specification, which does not include any organic solvents, positions Coriusim to supersede Astadur technology for OE parts.

Further information available from [www.federalmogul.com/en-GB](http://www.federalmogul.com/en-GB)



Coriusim

To be in with a chance of winning one of our FREE giveaways this issue, please indicate your preferred product below:

- Pure Highway digital radio adaptor     J-B Weld     MinuteWeld     SuperWeld  
 Simoniz 3-step Wheel Care Kit

Simply fill in your details below and send to: **Car Mechanics Giveaways MAY, Bauer Media, Media House, Lynchwood, Peterborough PE2 6EA. Offer closes May 18, 2016.**

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Bauer Media (publisher of Car Mechanics) would also like to keep you informed of special offers and promotions via post or telephone. Please tick the box if you do not wish to receive these from us or carefully selected partners

NEWS IN BRIEF



▲ In the February issue of CM we featured the **AlcoSense** personal breathalyser. This device has now been awarded the international distinction of the Red Dot Award for exceptional product design against competition including Apple, Dell, Lenovo, LG, and Logitech. A total of 5214 products from 57 nations were assessed to decide a winner.

► AP Racing is tackling the problem of poor-quality, counterfeit brake components with an innovative data tag that will help distinguish genuine parts from frauds. Customers can use their smartphone to scan a unique code on a component to confirm its authenticity via a web-based cloud system.



**PORTABLE ARC WELDERS**  
K Wright, Castle Douglas  
J Beckett, Wisbech  
J Harper, Swansea  
A Perks, Kingswinford

Q What is the width of the Easiarc 110 in millimetres?  
A 172

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