

April 2018

F O C U S



» **Vehicle of the Month**

Seat Leon 2012 onwards

» **New to Range**

Our latest products

» **Engine of the Month**

VAG 1.4 TFSI - CAXC

» **S&S Update**

What's hot this month

» **WSBK - R2 Thailand**

FAI Sponsored Race Team



CN0004

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Oil Pumps

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- ✓ 1400 Engine Variants Covered
- ✓ Meticulously Designed to OE Spec
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» WSBK: Thailand

Team Aruba.it Celebrate Riders Efforts

Team Aruba.it have been left with mixed emotions after a difficult weekend of racing, producing unpredictable results. Spectators were impressed with Melandris' effort despite being plagued with technical issues throughout the weekend. Davies defied the odds by starting in the third row for both race 1 & 2, but by putting on a show of focused determination, took 3rd and 1st place respectively.

The Buriram International Circuit played host to the second round of the WSBK championships. Opened in 2014, this FIA grade 1, purpose-built track, looks more like a runway from the air which is a clear indicator of the speed needed to compete on this historically difficult circuit, an area where Marco experienced stability problems throughout the weekend.

For Race one, Chaz started in a slightly uncomfortable 9th on the inside of the grid and with a large, tightly packed group of riders in front, exercised patience, slowly climbing the peloton. Towards the end of the race, Davies secured 3rd place and held steady until the flag came down.

It was clear from early on that Marco was battling with the high-speed straights, with a significant wobble occurring, the seasoned Italian lost ground, putting him in 8th overall.

The issues hadn't been resolved for race two but Marco pushed the bike and himself to the limit to achieve a respectable 7th place finish. Undoubtedly, the bike will be put through stringent testing ahead of the third round.

Meanwhile, Chaz had a spectacular bout with both the bike and rider being on point. Even another third row start couldn't stop the Welshman from passing the leading pack, taking the top spot in lap 7. Holding back any attempts by other contenders, Chaz chalked up another win, bringing his WSBK career total to 28. The icing on the cake being a 1.33.627

lap, the fastest of the day.





"It was a fantastic race, something special. To come away with a win here makes me so happy. At Buriram we've always struggled in the past, it's been a long process to get into a race winning position. I want to thank the whole team"



"We worked hard to come up with some modifications to our setup, which unfortunately didn't yield the expected results. The bike was wobbling a lot also today, and it was a difficult race for us. I tried to ride as hard as I could and fight back, but it wasn't possible to do more today... We'll head to Aragon to fight even harder."



MARCO MELANI



» Vehicle of the Month

Seat Leon 2012 onwards

This popular branch of the Volkswagen Audi group has taken the MQB platform and turned it in to a SEAT for all. Three body styles were developed, firstly in the guise of a 3 & 5 door hatch and then a family pleasing ST version, which by the way, stands for station wagon (not to be confused with Ford sport editions). With anything from a 1.0 ECOTSI to a 2.0T 300 BHP beast, sold under the Cupra branding, the Leon has exploded on to our streets.

As with all new Volkswagen engines, efficiency and emissions have been taken care of in both the petrol and diesel variants with the aforementioned range topping Cupra, producing over 40 mpg.

The FR spec'd Leon (formula racing to you and me), is a common sight, as it's available in all body styles and featuring an enhanced rear suspension set up. This model sits firmly in the warm hatch sector with a choice of a 2.0 TDi, producing 150/185 BHP, or a free revving 180 BHP, 1.8 TSI petrol unit.

This impressive offering isn't without it's issues, as with all modern vehicles, the size of alloy has crept up, wrapped in the thinnest of rubber, to look the part. The buy-product of which puts strain on the steering and suspension components, an area which FAI have substantial coverage.

The engines are a little harder to cover as in all there are around 25 variants spanning six base engines (dependant on market). Despite this, FAI has an extensive range of gasket sets, valve train, pumps and timing kits to satisfy your needs, with more in production to meet future demand.

Please scan the QR code or go to faiauto.com for a full listing.



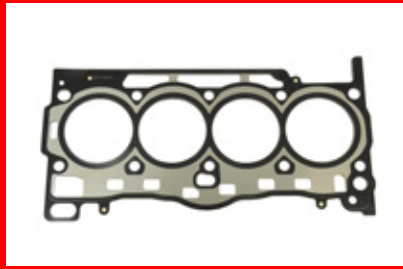
FBC0287

Brake Cable



HG1940

Head Gasket



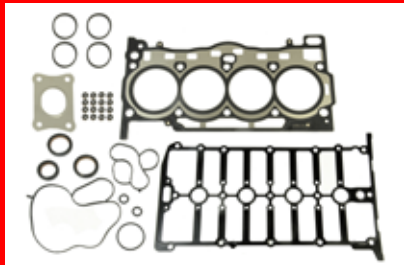
TBK548

Timing Belt Kit



HS1940

Gasket Headset



Did You Know?

The Leon Cupra broke the production car record at the 12.8 mile Nurburgring, averaging 96mph, it completed it in 7.58.4s

WP6618

Water Pump



WP6656

Water Pump



BFS174

Hydraulic Tappet



R220S

Rocker Arm



SS9466 / SS9467

Control Arm



» Visit

faiauto.com/vehicle-of-the-month



Log in to the FAI Web-Cat for a full shopping List.

FBC0288

Brake Cable





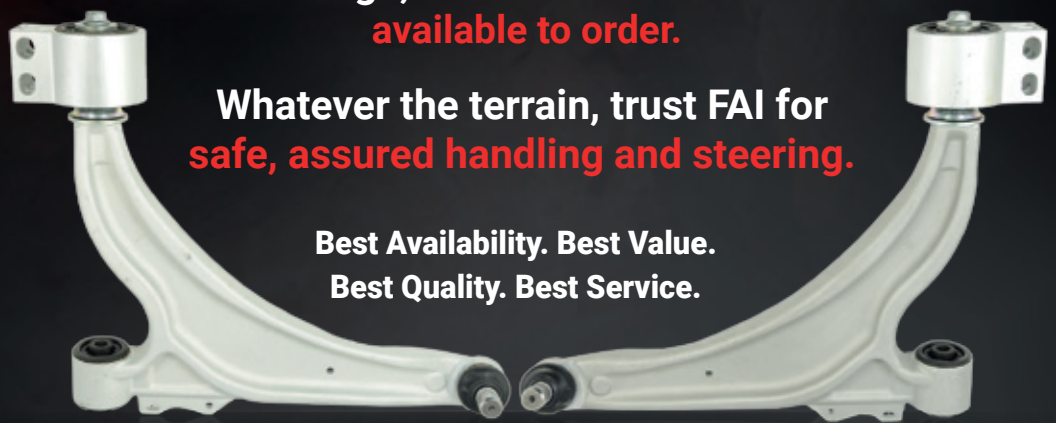
Grip & Stability

When it matters most

FAI has continued to develop and increase its industry leading **OE spec** Steering and Suspension range through regular research and development. In the last 18 months, **over 1300 new part numbers** for some of the most modern vehicles have been added to range; all of which are **in stock and available to order.**

Whatever the terrain, trust FAI for **safe, assured handling and steering.**

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» **Steering & Suspension**

Your monthly update

In the last 18 months, we have added over 1300 new references to our Steering and Suspension range. In the last month, we have added a number of new steering and suspension parts for some of the most modern vehicles on the road. Please consult our monthly new to range spreadsheet for full list.

» **New to Range Highlights**

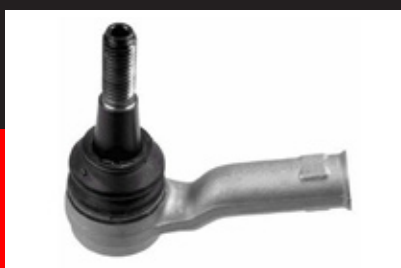
SS9376 / SS9377

Rear Link Rod



SS8670

Tie Rod End



SS9380

Rear Link Rod



SS9376	Rear link rod	Toyota HiAce IV 95-2006
SS9377	Rear link rod	Toyota HiAce IV 95-2006
SS8670	Tie rod end LH/RH	Range Rover Sport 09-2013
SS9434	Rear arm upper RH	Honda CR-V 95-2001
SS9380	Rear link rod	Kia Sorento III 2015-

» **Top Pareto Risers**

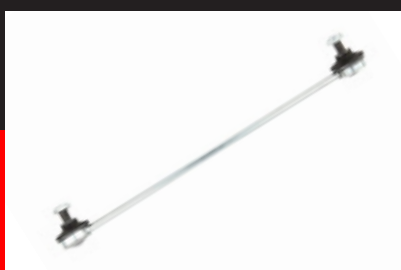
SS7342

Rear Link Rod



SS6090 / SS6091

Front Link Rod LH/RH



SS2925 / SS2926

Wishbone LH/RH



SS7342	Rear link rod	Ford C Max 2007-
SS6090/SS6091	Front link rod left/right	Citroen C3 Picasso 2012-
SS2253	Link rod rear	Ford Transit 2006-
SS2799	Front link rod	Hyundai I30 2008-
SS2925/SS2926	Wishbone left/right	Nissan Qashqai 2010-

Timing Chain Kits

& Oil Control Valves

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- ✓ Market leading range on vehicle parc.
- ✓ High quality, OE spec components.
- ✓ Each box sealed with an **Oil Specification Label**.
- ✓ Fully comprehensive kits. **One Job, One Kit.**
- ✓ More VVT applications than any other brand.
- ✓ Oil Control Valves manufactured in **Tier 1 OE facilities.**
- ✓ **Fully illustrated** 2017 catalogue.



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» **Good question!**

Our product experts answer your questions.



Dominic Moxon
Technical Director

Q: What signs indicate that a timing chain set may need replacing? Also, do you have any fitment tips?

A: The tell-tale signs of a wearing chain assembly are usually the same regardless of application, which is especially worth bearing in mind when inspecting chain clatter.

The usual culprit is the auto tensioner, which supplies a variable force to ensure the

chain position is always maintained. Over time the chain can stretch to a level which exceeds the maximum piston extension.

At this point, insufficient tension is applied to the chain, allowing the chain to move outside of its operating parameters, resulting in chain clatter which can damage components such as timing cover, gears and guide rails.

In most modern vehicles, the engine management system will compensate for slight timing variances, therefore masking rough idling and possible mis-fires.

Often, when performing a diagnostic check, a code will point you towards an issue with either camshaft or crankshaft position. Both of which can be linked to a worn timing chain set.

Due to the labour time involved in this type of replacement, we recommend replacing all components with a comprehensive FAI kit. A repair involving just one element, such as a chain, will lead to an unhappy customer when a premature failure occurs.

Timing kit replacement is classed as difficult, therefore we recommend that only a competent mechanic, follow a professional fitment guide attempt the job.

Q: Do FAI Coil Springs come with a fitment guide?

A: As all vehicles have individual fitment criteria, we don't include a fitment guide in the box. However, we always like to help where possible, so with thanks to our Technical services, we've put together a general fitment guide which should cover most McPherson strut style suspension.



Gary Hammond
Product Manager

1. We recommend that coil springs are replaced in pairs as they play a vital role in the geometry and handling of the vehicle, including how load is distributed.
2. To remove a front spring, Safely load the vehicle on to the vehicle lift, and remove the appropriate wheel for work access.
3. Once the wheel is removed, proceed to undo and remove the retaining bolts between the suspension strut and steering knuckle. Followed by the suspension top mount to chassis nuts.
4. Remove any brake hose and ABS sensor clips attached to the suspension strut, then remove the spring and suspension strut assembly from the vehicle. Making sure the steering knuckle and lower arm are adequately supported so as not to stress any brake hoses and ABS sensors.
5. With the suspension strut now removed, position the spring compressor tools correctly on the spring, and compress just enough to allow removal of the suspension top mount.
6. **TECH TIP** - When removing any mounting nuts and bolts, it's a good idea to take note of how they and the mounting insulators are fitted, aiding reassembly. Using a mobile phone to take stills or a short video helps for complex mounting setups.
7. Once you've carefully released the spring compressor, the old spring is free to be removed and for the new glossy FAI one to be fitted. (cue the lustrous product image)
8. Place the new compressed spring onto the suspension strut, re-attach the top mount and release the spring compressors. Ensuring the spring seats correctly in the spring cups.
9. Refit suspension strut assembly to the vehicle, followed by any previously removed components. Please always adhere to manufacturers torque settings and replace bolts etc as necessary.
10. Manufacturers always recommend that after removal or replacement of major suspension components that a wheel alignment/geometry check be carried out. This ensures safe handling characteristics and normal tyre wear.



» **New to Range**

Our latest products

» **B1338**

SEAT SKODA VW	IBIZA Mk IV (6L1) FABIA I & II FOX, POLO
1.2	2001 - 2014



» **B2189**



**HYUNDAI
KIA**

ACCENT II, COUPE, ELANTRA,
CERATOR, RIO II

1.5 & 1.6

09/2000 - 08/2010

» **WP6673**

AUDI SEAT SKODA VW	A3, A4, A5, A6, Q5, TT ALHAMBRA, ALTEA, EXEO, LEON OCTAVIA, SUPERB, YETI GOLF IV V VI, PASSAT, TIGUAN
1.9, 2.0 TDi	08/2000 - 05/2016



» **WP6671**

NISSAN
OPEL/VAUX
RENAULT

NV400
MOVANO B
MASTER III

2.3 dCi / CDTi

2010 - Present



» **WR327 (FL)**



» **WR328 (FR)**



MINI

MINI (R55/R56/R57)

Most Models

11/2006 - 06/2015

» **IV94396 & EV94397**

MERCEDES

A-CLASS (W168), Vaneo

2.0i

03/1999 - 07/2005



» *Engine of the Month*

CAXC 1.4 TFSI

Volkswagen sub 2.0 litre diesels are out and small petrol turbos are in!.. But why?

Well, most of us are familiar with the designation 1.4 TFSI, firstly being plastered over all advertising mediums and then, slowly but surely, your local supermarket car park was full of them. The inevitable demand for parts ensued as warranty periods lapsed and believe it or not many of these engines are now ten years old, yet still providing the three key points they were sold by; performance, emissions and economy.

Some of us have typed 'what does TFSI mean?' in to goggle (deliberate typo), but not many have the staying power to read through the various

areas of technology used to power a small army of German vehicles. So we did it for you...and it's interesting, honestly!

The 1.4 TFSI (Turbo-Fuel-Stratified-Injection), was utilised and seemingly perfected in the mid-2000s by VW, set to power a new generation of vehicles, going in anything from a super-mini to a large, quite pricey, executive saloon. We'll not go in to the Turbo-Fuel bit as it's a little self-explanatory, but the clever bit of technology is the Stratified Injection. Behaving in a similar way to a diesel, it uses a high-pressure pump to inject directly in to the cylinder, atomising the fuel for a clean, high compression burn.

Although this technology is neither new or unique to VAG, somehow, they were able to produce

some of the best figures surrounding fuel economy and produced substantial BHP to keep most buyers smiling. A recipe that has produced a diesel beating offering, barely changed in over a decade and placed in more vehicle variants than ever.

Early on, FAI realised that an engine used in the Audi A3, Seat Leon and Skoda Superb, to name a few, was going to require substantial coverage, especially with the power plant being used in many family focused applications, covering a higher than average annual mileage.

FAI have an extensive gasket range, covering individual repairs through to a complete engine rebuild, inlet & exhaust valves and two versions of oil pump.



WP6487

Water Pump



OCV011

Oil Control Valve



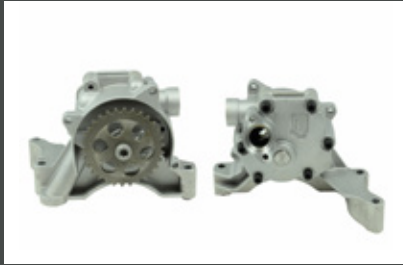
TCK202LVVT

Timing Chain Kit



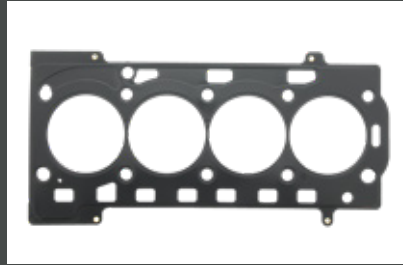
OP332

Oil Pump



HG1476

Head Gasket



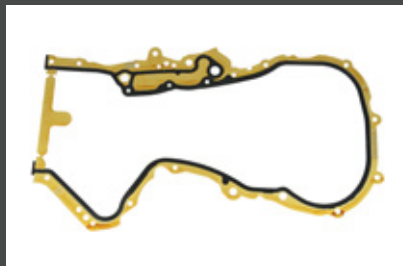
BFS127S

Followers



TC1476

Timing Cover Gasket



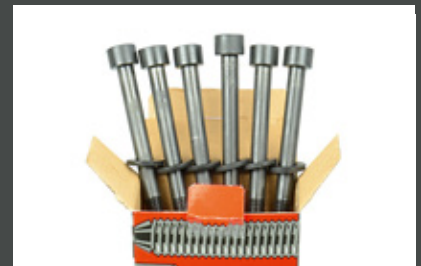
OP333

Oil Pump



B1476

Cylinder Head Bolts



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In. / Ex. Valves



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- ✓ **First class cataloguing**.



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