



## B1-3.5 Complete Conversion



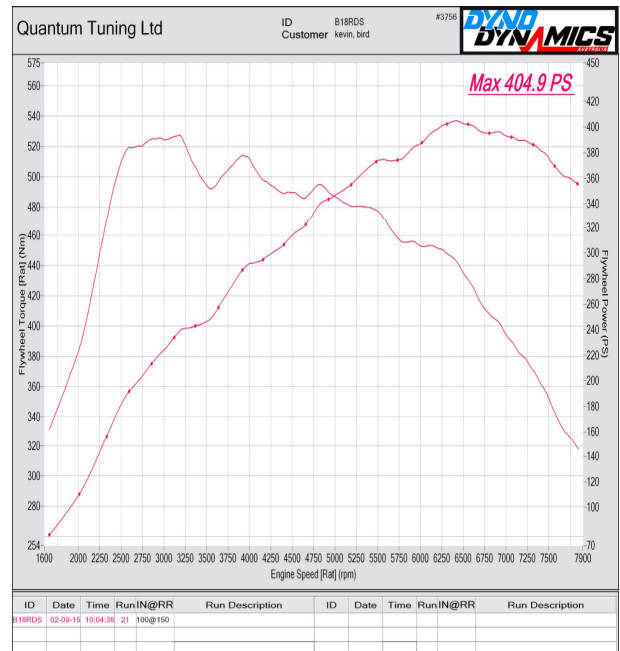
B1-3.5 400ps Complete Conversion featuring optional Hartge Classic 2 wheels, Alcon Brakes front and rear, and Sport Exhaust.

The BMW M135i is recognised as one of the most value-for-money BMW productions to date. The twin-power turbo six has huge performance potential, but given that BMW cannot allow this car to steal the thunder of the M-powers, the engine performance has been capped to a deliberately modest level.

Birds are proud to announce the first fully developed engine package for this car. As always, we strive to provide vice free engine mapping, with no flat spots or erratic throttle response, and the all-important engineering and durability testing has been completed in record time. Moreover, there is little doubt that whilst BMW have endowed the car with superb dynamics, there remain significant margins where performance can be improved.

You will be interested to know that we assessed more than six external tuning ECUs during development. All failed to meet our rigorous standards. Engine management re-mapping through the standard Motronic is the only right way to go.

We have coordinated all of the necessary equipment and expertise to transform the braking, handling, traction and ride quality, so that the driver is able to fully communicate with the chassis, and truly elevating the dynamics to provide the real ultimate driving experience.



### Kevin Bird Garages Limited

2, The Ridgeway, Iver, Buckinghamshire, Great Britain, SL0 9HW  
 Tel 01753 657 444, Fax 01753 655 963, Web [www.BirdsAuto.com](http://www.BirdsAuto.com)



Quaife BMW

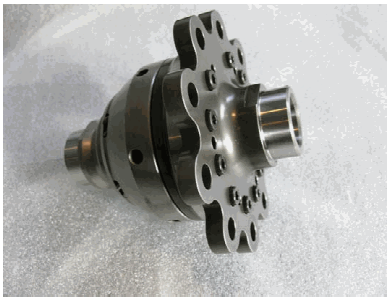
Tuning BMW

Service BMW

All technical work is undertaken at Birds facility in Iver, near Heathrow, with new engine management individually programmed for each car. All conversions are properly guaranteed for both performance and longevity. Only the best will do, and only available from Birds- the home of Ultimate BMW Performance Tuning.

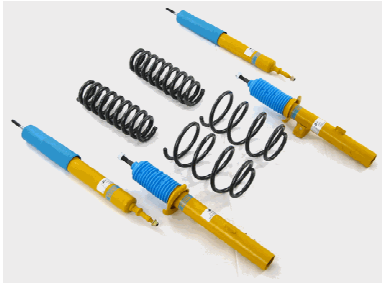
Underlining our place at the cutting edge of tuning technology, all complete conversions carry comprehensive warranties of 24 months, without mileage limitation.

The B1-3.5 Complete Conversion consists of the following items. We will be pleased to revise specifications and pricing to your individual requirements. All items are available individually.

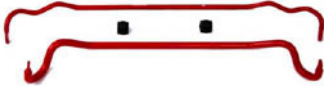
Engine	Motronic Modification 400ps
Differential	Quaife BMW LSD Conversion
Suspension	B1 Sport Suspension
Stabilisers	B1 Anti-Roll Bar Kit
Transmission	Short Gearshift
Clutch	Clutch pedal weight modification
	<p>Quaife ATB Differentials - ATB differentials increase the torque presented at the tyre contact patch with the road, which increases the force exerted on the road, which, in turn, increases the rate of acceleration. In low grip situations, the standard M135i "open" diff. allows one wheel to spin, triggering the traction control and limiting the engine power. The LSD prevents the wheel with the least grip from spinning, traction control is therefore not triggered, and the car accelerates to it's true potential.</p>

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**Suspension** - The B1 Sport suspension features springs and shock absorbers that have been specifically designed and developed for UK roads. Although our suspensions have indeed been tested on the Nurburgring, they are tuned to work properly on everyday roads. No more crashing over bumps, and poor ride control typical of so-called sport suspensions. You will find our suspension to be a revelation, with corner exit speeds and traction massively improved, without compromising comfort. Ride quality and safety is paramount, and for this reason, the adoption of specially tuned gas shock absorbers and bespoke rising rate springs that have been genuinely tuned by industry professionals to achieve an impressive balance.



**Stabilisers** – B1 Anti-Roll Bar Kit complements the chassis balance and trim. Fast drivers will immediately note the prevalent under-steer inherent in the standard BMW chassis. As a consequence we provide significantly more rear stiffness than the front, biasing away from under-steer. Again, these stabilisers have been manufactured to our own specifications. These are not off-the-shelf close-enough specification items.

As with all modern cars, there appears to be a growing tendency to remove externally generated feedback from the car. In some cases, this can be a good thing. For example, no-one wants to feel every bump in the road generated by an un-compliant suspension. In other cases, we feel that the driver needs a direct connection to the process and should be truly involved in it. With a manual transmission, gearchange and clutch operation is a part of the drivers involvement, and in the case of the M135i, the clutch actuation can be likened to pushing your foot into loose blancmange. Similarly, the gearshift is over-long and inaccurate. Solutions to those issues have been sought, and we believe our solutions allow a better and more direct connection between driver and car.

Until the first driverless car hits the street, Birds will always believe that driving should be a pleasurable and feedback rich experience.

A note about tyres. All BMW cars except the M-Power cars are equipped with run-on-flat tyres from the factory. We cannot stress how important it is to rid yourself of these performance sapping devices. In our opinion, the arguments proposed by BMW for these tyres are totally misjudged, and we know of no customer who regrets installing conventional tyres. A second note...All tyre brands do not perform similarly. Our recommendations are based on UK road conditions, and provide the best in wet weather grip and handling. If you want race style tyres, we can provide them.

As with all Birds conversions, expert advice comes as standard. We treat all customers as individuals, and recognise that every individual has their own set of desires and criteria. We have more than 25 years experience in the BMW tuning arena, more than any other BMW Tuning organisation in the UK, and know how to get the best performance from BMW cars. We are enthusiasts and are happy to discuss in detail every aspect of the performance of your car. Options are many, but please let us guide you toward Ultimate BMW Performance.

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Quaife BMW

Tuning BMW

Service BMW

## Options



**Exhaust** - HARTGE sports exhaust systems and rear silencers are hand made from 100 percent AISI 304 stainless steel. First-class workmanship, great durability and a powerful yet unobtrusive sporting sound make the HARTGE stainless steel silencers first choice for the upper class car. An individual style tailpipe design with engraved logo and complete hard chrome plating.



**Hartge 20" Classic 2 Wheels** - The set is fully compatible with all of the factory traction, dynamic stability and puncture protection systems, and ride quality has been maintained by careful design and attention to installed weight of the wheel and tyre assembly. Fully compatible with any of the standard equipment, and of course with all Hartge equipment. Hartge wheels sets come with Pirelli or Continental with 225/35 high performance. Hartge wheels sets are verified for the maximum speed of the car.



**Hartge 19" Ultima Wheels** – Available in Sparkling Silver or Smokey Silver compatible with all of the factory traction, dynamic stability and puncture protection systems, and ride quality has been maintained by careful design and attention to installed weight of the wheel and tyre assembly. Fully compatible with any of the standard equipment, and of course with all Hartge equipment. Hartge wheels sets come with Pirelli or Continental with 225/35 and 255/30 high performance tyres. Hartge wheels sets are verified for the maximum speed of the car.



**Brakes** – Alcon Ø365x32mm curved vane ventilated and grooved discs for the front axle, featuring low weight alloy hubs, with a unique floating rotor system to prevent vibration and fade. Six piston alloy callipers for reduced weight and mighty stopping power. The feel and progression of these brakes allow fierce braking right up to the point of ABS actuation, both in the wet and dry. Fully protected against corrosion, and they work from cold right up to racing temperatures. Also available for the rear axle.

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# Birds

Ultimate BMW Performance



**Interior Accessories** - Interior detailing, including aluminium alloy pedals, footrests, handbrake levers and gear lever knobs, and bespoke carbon fibre trims complete any conversion to the tastes of the individual.

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