



The U.K's Premier BMW Tuning Company.



## B3-3.5 430hp Complete Conversion



The BMW 335i is recognised as a superior sporting saloon. Capable of showing the M3 a clean set of heels, this car takes pride of place in the 3 Series model range.

The twin turbo six has huge performance potential, but given that BMW cannot allow this car to steal the thunder of the M3, the engine performance has been capped to a deliberately modest level.

Birds are proud, therefore, to announce the first fully developed engine package for this car. Development of this engine was started before BMW released the car into the public domain, 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. We have co-ordinated 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 ultimate driving experience.

All technical work is undertaken at Birds facility near Heathrow, with new engine management maps individually programmed and transmitted from the factory. All conversions are properly guaranteed for both performance and longevity. Only the best will do, and only available from Birds- Ultimate BMW Performance.

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

### Kevin Bird Garages Limited

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The B3-3.5s Complete Conversion consists of the following items. We will be pleased to revise specifications and pricing to your individual requirements.

<b>Engine</b>	B3-3.5s 430hp Engine Conversion, comprising turbocharger set, compressor diverter valves and sport catalyst downpipes
<b>Differential</b>	Quaife ATB diff
<b>Suspension</b>	B3-3.5 Sport Suspension
<b>Stabilisers</b>	B3-3.5 Anti-Roll Stabilisers
<b>Sport Brakes</b>	ALCON AE Brake Kit Front, Ø365x32



**B3-3.5s Turboset-** The exclusive heart of our B3-3.5s Turbocharged 335i- Considerable time and effort has been expended to find the most reliable, lag-free and efficient modification. There are many who propose to elevate the performance of the BMW turbochargers, but there is only one Ultimate BMW Performance tuning solution. Each set comes complete with seals and gaskets, and is set up to perfection. No wonder that many European tuners choose our turbosets for their own conversions. Available from stock in both right and left hand drive configurations.



**B3-3.5s Sport Catalysts-** It is an engineering fact that backpressure through the entire thermodynamic system of the engine suppresses the engine output. With turbocharged engines, it is of course possible to overcome these power robbing pressure drops by simply turning the boost up. The consequence is more heat generated, which the cooling systems may struggle to eject. To preserve both engine efficiency and longevity, every attempt must be made to improve gas flow through the system, and the standard catalysts are the major culprit.



**B3-3.5 Sport Suspension -** The 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 in everyday situation too. 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 springs that have been genuinely tuned by industry professionals to achieve an impressive chassis balance.



**Stabilisers -** anti-roll stabilisers complement 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 understeer. Again, these stabilisers have been manufactured to our own specifications. These are not off-the-shelf close-enough specification items.

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Quaife BMW

Tuning BMW

Service BMW



**Quaife ATB Differential** - 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 335 "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.



**Sport Brakes** – ALCON AE Brake Kit Front, Ø365x32 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 calipers 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 circuit temperatures. Available for most 19" wheel options. Rear Brakes to match are available as an option.

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 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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