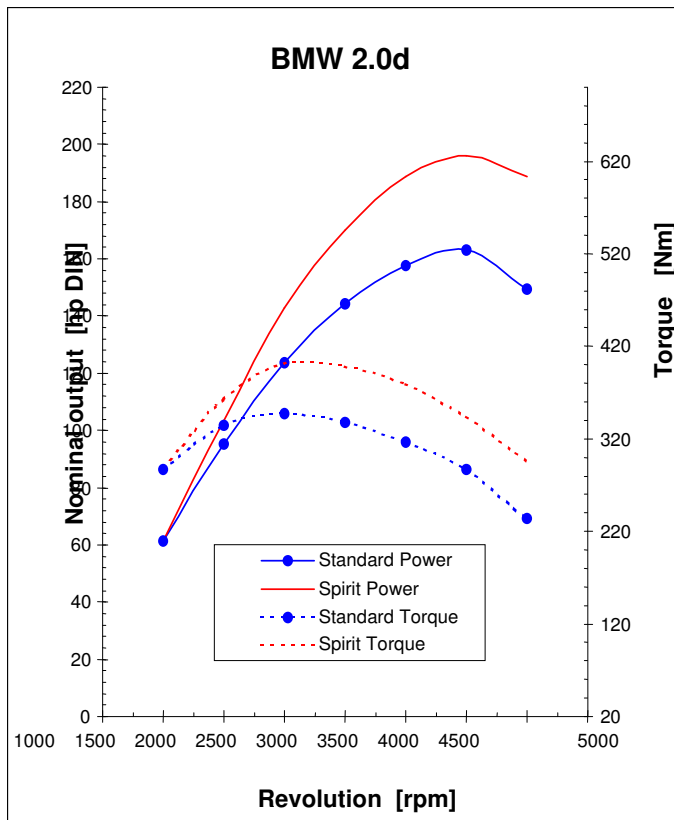




Stealth Engine Management Software



Most BMW turbo owners are aware that there are a significant number of UK based companies offering "remaps" that claim to significantly increase engine power and torque. Indeed we have been supplying Hartge Diesel Motronic Modifications since 1987.

It's true that there are huge differences in the prices across all of the various "tuners", and we are often asked to justify why prices are apparently so high.

The first reason is that all engine management we supply is true "manufacturer grade" quality. This means that everything we offer has been tested to meet the same stringent quality parameters that Automobile manufacturers have to meet themselves. Not only does this mean that all emissions and legal criteria are met, but also, and most importantly durability and driving characteristic criteria have been addressed to ensure the original BMW characteristics are maintained, without fail.

Secondly, as you would expect from any manufacturer, warranties have to both match and not interfere with your manufacturer warranties. We are currently the only tuner in the UK who offer that peace of mind.

Clearly, these are major differences, and combined with our unquestionable reputation and experience, we believe that we offer simply the best value for money available.



If your car is covered by the original BMW manufacturers warranty, and you are concerned about possible warranty issues, we recommend the Hartge Diesel Motronic Modification, as the warranty lasts up to the end of the BMW Manufacturer warranty.

If your car is no longer covered by BMW warranty, then we recommend our Stealth solution. The warranty covers the engine and transmission against the effects of the enhanced power and thermodynamic loads, and is limited to 12 months and 60,000 miles. As the name implies, this version is completely undetectable by BMW dealer tools, and provides a sympathetic and conservative performance increase for older engines.



Motronic Modification, Questions And Answers.

What is it? It is a series of complex changes to the code held in the BMW Engine Management Control Unit (ECU)

How does it work? The changes affect many of the parameters such as ignition timing, fuel delivery and boost levels controlled by the ECU.

Why don't BMW offer the same power? They often do! In the case of diesel engines, we can give you similar or better performance than current BMW development engines.

Why is it so expensive (compared with other "similar" products)? We take performance modification very seriously. Modifications are not offered until lengthy durability trials have been concluded. These tests include dynamometer trails and serious road testing. Due to UK speed restrictions, this invariably has to be carried out in Germany. The cost of this process is significant and substantial, and is ultimately reflected in the sale price. Suppliers who do not test in this way will always have a clear and major price advantage.

Will my BMW Dealer know about it? There is no such thing as an invisible modification. If BMW want to find it they will. However, our modifications are invisible during routine diagnosis and service.

Can a BMW Dealer overwrite it? Our software is protected, and it is not normally possible for Dealers to overwrite our modifications. Changes in BMW processes cannot be predicted, so it cannot be guaranteed that this would always be the case.

Will it affect other components or systems on the car? No. Our testing procedures and the outputs we offer should not exceed the design limits of any other component or system on the car.

Could it affect my manufacturer warranty? Yes, but only due to an error in the code, or inadvertent over-stressing of an engine or transmission component. If that caused a BMW component to fail, then BMW would be entitled to disclaim liability under their warranty. If this occurs, our warranty will cover it. Otherwise, the manufacturers warranty stands.

Can I have it done at my home or place of work? No. Unlike other cheaper products, we believe it is not possible to guarantee performance or quality if done away from our technical centre. Roadside conversions are to be avoided.

Kevin Bird Garages Limited

2, The Ridgeway, Iver, Buckinghamshire, Great Britain, SL0 9JQ
Tel 01753 657 444, Fax 01753 655 963, Web www.BirdsAuto.com
