



# THE UK'S PREMIER REMAPPING BRAND

REMAPPING & CHIP TUNING PROFESSIONALS

**IMPROVED**

**POWER & TORQUE • FUEL ECONOMY • DRIVEABILITY**



**Advanced Remapping Solutions**

**Cars | Vans | Motorhomes | Trucks | Tractors | Motorbikes**

## Quantum Tuning Remap

Our vehicle conversions are developed in-house by a team of engineers who understand the strategy initially programmed into your car's Engine Control Unit (ECU) by the vehicle manufacturer. We are able, therefore, to provide our customers with the very best upgrade: a remap that will give you usable additional power without compromising the longevity or reliability of the engine and its drivetrain.

## Quantum Blue

The most popular choice, offering an ideal blend of power and economy from a diesel turbo engine. This remap increases torque which delivers a satisfying driving experience, whilst simultaneously improving overall fuel economy.

## Quantum Green

The economy option, our Quantum Green remap delivers improved fuel consumption from diesel turbo engines. Subtly altering the torque strategy at lower engine speeds, and allowing for earlier gear changes at higher rpm results in greater efficiency.

## Quantum Red

The high power Red conversion releases the full potential of your engine. Available for both petrol and diesel turbo vehicles, this modification is perfect for those who want extra power and torque – whether it's for heavy loads, improved acceleration, or simply to enjoy the enhanced performance.

**Your Quantum dealer will be pleased to advise on the conversion available for your vehicle, with these benefits:**

- Power and torque increase of up to 35%
- Fuel savings of up to 15%
- Improved driving experience: greater response from a smoother engine



## Quantum Remap Pricing

Quantum dealers offer a value for money service, using the latest industry standard tools and protocols. This is a guide to our prices, but for an exact quote please contact your local dealer.

- Car, van or motorhome remap, via the diagnostic socket - **£250**
- Additional charge for bench programming - **£75**
- Truck remap - **£495**, with discounts for larger fleets
- Tractor or combine harvester remap - **£595**, with discounts for large fleets

*Prices plus VAT where applicable*



**Cars**



**Motorhomes**



**Pickups**



**Tractors**



**Vans**



**Trucks**

## Choosing a Dealer: Myths and Misconceptions

Quantum dealers are selected to represent our brand only if they have sufficient knowledge and experience and have invested in the necessary level of equipment. Here are some pitfalls to avoid when selecting a company to modify your vehicle.

### 1. Don't base your decision on price alone

Having significantly invested in your car, ask yourself if you are willing to risk it being damaged by using a tuner offering huge gains in power for very little money. Those who offer big gains in power at bargain-basement prices are unlikely to be able to supply a quality remap.

### 2. Dealer backup

Ensure that you are entrusting your vehicle with a tuner who is using a reputable supplier of tried and tested tuning files – rather than someone who is “writing their own files.” This phrase alone serves as a warning that the remap on offer is unlikely to have much, if any development and testing to back it up.

### 3. Online presence and marketing

A flashy website filled with stock images of supercars does not indicate that a dealer knows what they're doing – if anything it can be a marker of the exact opposite. Well-established businesses will generally offer normal servicing alongside specialist options, and their web content will often show evidence of a robust business with plenty of day-to-day activity.

### 4. Social media

It can be a worthwhile exercise to check out how a remapping company presents themselves via Facebook, Instagram, Twitter, etc. This is the domain of the “driveway tuner” who claims to offer the world – whereas a serious tuner will use social media to promote their services in a more sensible manner.

## FAQ

### 1. Is it safe for my vehicle?

Quantum remapping enhances and optimises the power of the engine within safe limits. We are taking up the slack of the high tolerance level that vehicle manufacturers always build in – often to ensure that warranty claims are kept to an acceptable minimum. A good remap from a file writer who understands the strategy within the ECU will not allow the engine to get close to component failure.

Note that quality tuning companies offer very similar gains – so be wary of some with a lesser reputation, who appear to offer enormous power increases. These claims are either simply untrue, or they are programming the ECU well outside of safe operating parameters. Every vehicle has a mechanical limit to the amount of power it can produce, so if it sounds too good to be true it generally will be.

Most race and rally engines are pushed for every last bhp, and therefore more commonly fail. Normal car/van/lorry engines are deliberately limited, well away from probability of multiple failures. Each individual engine is different as in how much it can be pushed in a remap, but a good conversion from a quality tuner will never get close to the limits of component failure.

### 2. Why don't the manufacturers do this?

A manufacturer cannot risk selling a vehicle on the very edge of performance, so engine management calibration is a compromise, taking into account regional differences for fuel quality and operating conditions.

The way an engine delivers its power and driveability is also subject to sales and marketing constraints, to ensure it is portrayed in the best light possible when compared to its rivals.

Marketing departments within the big vehicle manufacturers wield a surprising amount of influence; if they demand that a torque curve should look a certain way because they believe it gives them a sales advantage, they tend to get what they want – despite realistic opposition from those who actually calibrate the car.

### 3. What warranty do you offer?

An engine that is running with a Quantum map will not suffer any reliability issues provided it is well maintained. In the highly unlikely event that there is a problem we will look to resolve the issue should it be determined that it was caused by the upgrade. We offer a 30-day money-back guarantee in the event that you are not satisfied with the conversion.

### 4. Does it affect the manufacturer's warranty?

Some diagnostic equipment may detect a remap, although some forward-thinking manufacturers turn a blind eye to a quality conversion.

The official line from most manufacturers is that if a modification causes a problem with the vehicle, then the part of the vehicle affected will not be covered; but this does not mean that they can disregard the entire warranty. If, for example, your vehicle's central locking system failed, they would not be able to void the warranty because of the remap.

### 5. Do you keep a copy of my car's original calibration?

Yes, in secure archival storage, should you ever require your vehicle to put back to original.

**[More FAQ on our website here](#)**

## Technical Information

Here at Quantum tuning we supply our dealers with tuning files to be installed on your vehicle, but what does that mean? How does it work? What changes do we make?

Remapping is not a mysterious, dark art. Fundamentally, it involves taking the parameters that the original manufacturer set into the vehicle and enhancing them to extract the best from it.

An ECU file contains hundreds of tables where our software technicians can make changes to adjust fuelling, boost (on turbocharged vehicles), injection, torque control, air fuel ratios, speed limit, rev limits, DPF control, EGR function, and so on.

The process of file writing is very complex and takes significant and lengthy training – especially with modern vehicles with ever more intricate engine management systems. We invest heavily in our staff, with a dedicated and experienced team of file writers who get hands-on experience of vehicle tuning.

## Technical information - Dealer Responsibilities

Our dealers will advise you on the best version of the Quantum remap for your vehicle, as well as carry out any diagnostic checks and pre/post test drive as needed.

Once they have read a copy of the ECU file, it will be uploaded to our file service and the appropriate changes applied before being programmed back into the car.

There are a variety of methods in doing this, depending on the make and age of vehicle and the ECU fitted.

## OBD or Diagnostic Socket Programming

All vehicles sold within the European Union since 2001 have an Onboard Diagnostic Socket installed within one metre of the driver's position. In most cases it is possible to read and write to the ECU via the OBD port.

## Bench Programming

Some vehicles have a more complex security system that makes OBD programming impossible. In this instance the ECU must be removed and connections made directly to the PCB within.

## Chip Change

Older cars either don't have an OBD port or can't be programmed through it, so the EEPROM chip within the ECU needs to be physically de-soldered, read, programmed, and a replacement soldered back in.

## Typical Dealer Profile

Quantum dealers are a nationwide group of experienced motor trade professionals, with a strong business and good local reputation.

Most Quantum dealers are garage based and most can also offer you a full range of dealer services, as well as tuning.

Many dealers also offer a mobile service if this is more convenient for you; these mobile dealers are indicated on our dealer map **here**.

## About Quantum Tuning

Quantum Tuning is one of the most respected remapping brands on the market. Here at Quantum we have both the team and the infrastructure to continually develop and improve our product, however just because we are good at what we do doesn't make us complacent.

Quantum Tuning is actually one of the biggest remapping companies worldwide. We have built our great team around a wealth of knowledge, skills and experience, which is the key to our success.

We're big enough to have an infrastructure to properly support our dealer group (now over 1000 worldwide), but small enough to remove politics or unnecessary bureaucracy that would simply get in the way of what is the focus of our business: providing quality tuning files, backed up by a reliable and consistent service.

## Better figures from other tuners..?

Some chip tuning companies quote higher power gains than we do, but these figures are very often unrealistic. If they prove to be true, an engine that is subject to that level of tune is likely to become unreliable or damaged, quite quickly.

A Quantum remap aims to improve the driving characteristics as well as safely gain power, so we would urge caution if a tuner claims bigger gains in performance on every equivalent conversion we offer.





## Quantum Tuning Ltd

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