

ECU Remapping

ECU Remapping for Diesel & Petrol Cars

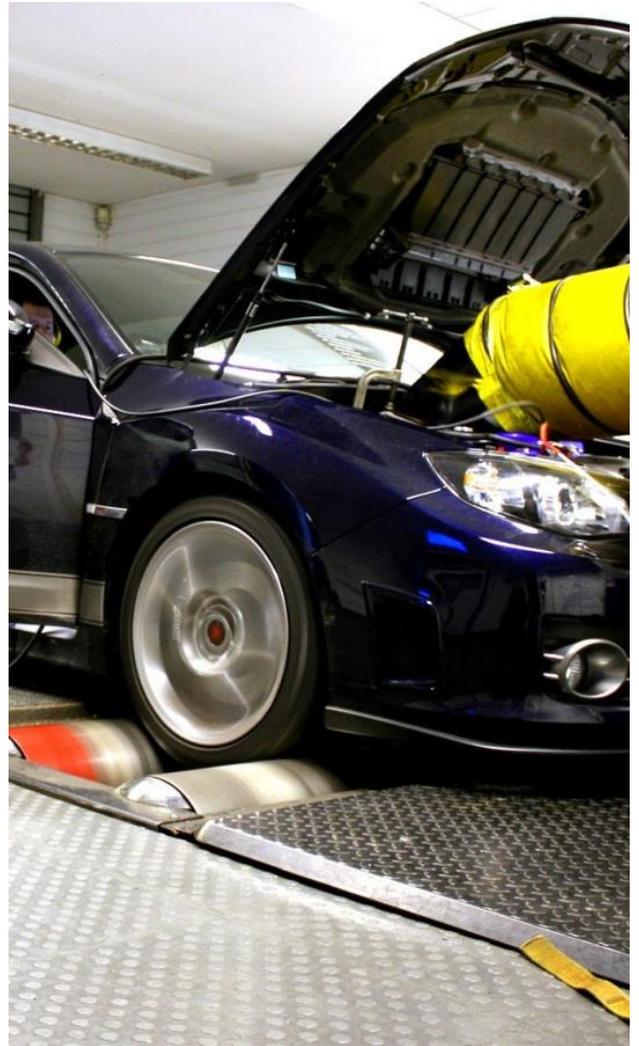
Features

- Enhanced, sharper throttle response
- Smoother & more progressive delivery of power
- More power by 20 to 25%
- Greater torque by 30%

Application

- All NA Petrol & Diesel Cars
- All Turbocharged Petrol & Diesel Cars
- Supercharged Petrol Cars
- Racing & Special Applications

We also offer Custom Remap services based on your engine modifications and special application request.



Available for a huge range of manufacturers:

Audi, BMW, Bentley, Chevrolet, Chrysler, Fiat, Ford, Honda, Hyundai, Land Rover, Mercedes Benz, Mitsubishi, Nissan, Opel, Peugeot, Porsche, Renault, Rover, Rolls Royce, Skoda, Suzuki, Toyota, Volkswagen, Volvo.

Remapping

Remapping is the art of modifying the standard ECU software, which is stored in the factory management system, otherwise known as the ECU. In order to increase the power-output of the engine, it is important to change the timing and amount of fuelling, ignition timing and turbo boost on turbocharged engines. By adjusting these parameters, the engine will have the most efficient combustion required for power and economy. An increase in power output of about 20-25% can be achieved, combined with a smoke-free vehicle and improved fuel economy by 10-12%.

What is involved

The original software in the ECU is read first and stored as a file. This file is then modified and then programmed back into the ECU, overwriting the original software. Only the parts of the software essential for improving the performance of the engine are altered. Most of the times the software is read and programmed back to the ECU via OBDII diagnostic port, so there are no physical changes at all. Even if the ECU has to be removed from the car for access, it's normally a non-invasive process of remapping by bench flashing. We do not alter any of the diagnostic systems or the engine idling or any other areas which would affect the emissions. This makes our upgrades 100% service complaint.

Remap v/s Tuning box

Tuning boxes are add on devices that work by intercepting the signals between the ECU and the sensors and fuel system in the engine. Some tuning boxes intercept the sensor signals fooling the ECU into thinking that the engine is doing something different to what it actually is, thus making the ECU to add more fuel. Other tuning boxes work by intercepting the output signals from the ECU thus modifying the fuel control. Either way tuning boxes will only increase the amount of fuel that is added; infact the tuning box is only fighting the ECU. The ECU will to some extent try compensate for the increase in the fuel that is made by tuning box.

A remap on the other hand works in harmony with the engine and emissions control. A "Remap" is simply a rewrite of the software in the engine computer. Unlike the tuning box which only alters the amount of fuel; the ECU Remap alters turbo boost pressure, fuel injector duration, fuel timing, fuel pressure and many other parameters, all of which can be optimized to give substantial increase in power and torque, while still remaining within the emission control envelopes. Since no signals are intercepted, the ECU is not be required to compensate for any abnormal readings and therefore the performance will be consistent. With the Euro IV engines, the ECU remap is the only way to improve performance because the ECU is too sensitive for a tuning box to successfully alter the behavior of the fuel system without the ECU compensating for it.

We guarantee that our ECU upgrades will outperform any tuning box currently available in terms of performance and emissions.

Remapping is the most efficient way of increasing power ◦ No Hardware modifications ◦ No add on devices / cables / boxes ◦ Hassle free & Non detectable performance upgrade

FAQ – Frequently Asked Questions

How much is the ECU upgrade?

Call us on 020 3001 3092 / write us at salesindia@cosworth.com for the price of your ECU Upgrade. We will need the vehicle model, engine variant and manufacturing year of your car accurately to do this for you.

Is the ECU upgrade detectable?

The ECU upgrade is not detectable by most standard dealership servicing and diagnostic equipment.

How will it affect my dealer warranty?

The ECU Upgrade will not affect your manufacturer warranty for the car as a whole.

How much time does it take to do this?

It takes 2 – 3 hours for an OBDII upgrade depending on the model & year of car. If the ECU has to be removed for programming then it usually takes 2 days.

Why doesn't the manufacturer upgrade the ECU from the factory?

Because they need to build in tolerance for owner abuse and to minimize cost. The engine must cope with poor fuel, lack of servicing and general abuse.

Will my fuel economy change?

We always see improved fuel economy with our upgrades. Expect approximately around 10-12% improvement.

Will this affect life of engine and other components?

The ECU upgrade will not affect life of your car's engine or any other mechanical components; ECU upgrade is preferred over a tuning box for this purpose only as it works in harmony with the engine making optimum use of the engines hidden capabilities.

Are you searching for more Power? Do you want more Torque? you want improved fuel economy too? If the answer to all these questions is yes then COSWORTH ECU Remapping is the right solution for you..... just do it and enjoy the experience.