

## WHAT IS ECU REMAPPING?

The ECU (Engine Control Unit) is a small computer which runs the engine and controls ignition timing, air/fuel mixture and imposes limits on speed and revs.

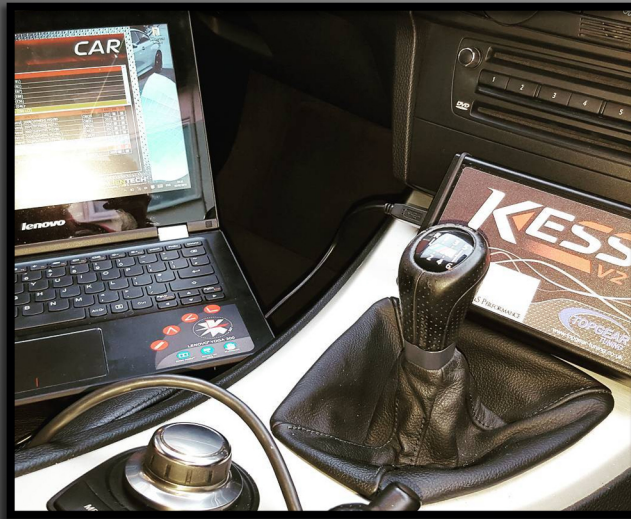
These variables are displayed as a 'map' and can usually be modified via OBD (On Board Diagnostics) programming without needing to remove the ECU from a vehicle. This process is known as remapping.

## WHY TOPGEAR TUNING?

**Topgear Tuning are an established department of the multi-national, industry-leading company Topgear Limited.**

Topgear has been heavily involved in all areas of the automotive industry for over three decades and own the two largest exhaust franchises in Europe; Longlife and Powerflow Exhausts. Unlike generic maps sold from unaccountable (and often unreachable) mobile dealers, all of our remaps are custom-written for our customers and we have the utmost confidence in our equipment, staff and services: your remap comes with a lifetime warranty and in the unlikely event you are unhappy with the change to your vehicle - we will put your ECU back to manufacturer settings free of charge.

- Lifetime Warranty on the remap itself
- 7 days trial, no quibble refund

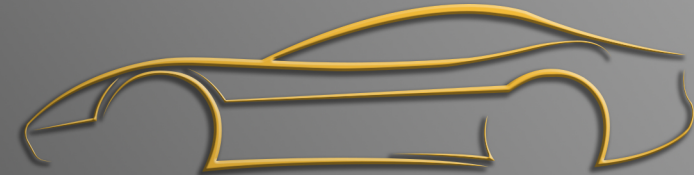


Topgear Tuning is leading the way in engine remapping, setting new high standards in the remap and tuning industry. We use the latest state of the art tuning equipment and the latest in software development

Topgear Birdport is the head office of an international team of highly qualified engine remap specialists; delivering the best quality, fully warranted, ECU remaps throughout the world.



# L&S PERFORMANCE



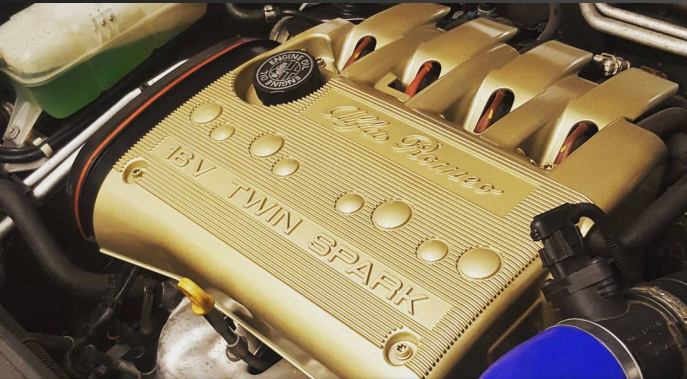
● **ELECTRONIC TUNING**

● **IMPROVED ECONOMY**

● **PERFORMANCE GAINS**

# PERFORMANCE

A Performance Remap results in better response from the engine, with increased torque and power of up to 30%. Throttle response will be improved and the rev range will be enhanced. Power delivery also tends to be smoother, making for both a more enjoyable and safer driving experience such as easier overtakes and motorway performance.



## EXAMPLE GAINS



**VW GOLF** (105 bhp)  
+ 30 bhp / 70 nm torque

**VW GOLF** (136 bhp)  
+ 40 bhp / 70 nm torque

**AUDI A4** (120 bhp)  
+ 45 bhp / 75 nm torque

**AUDI A4** (143 bhp)  
+ 37 bhp / 80 nm torque

**BMW E90 320d** (177 bhp)  
+ 35 bhp / 60 nm torque

**BMW E90 330d** (231 bhp)  
+ 60 bhp / 120 nm torque

# ECONOMY

With our Economy Remap, most vehicles can achieve a lower rev range, resulting in fuel savings of up to 15%. During normal driving, fuel economy will tend to be better which not only decreases the cost of fuel that you will have to pay, but it also minimizes your carbon foot print. Ideal for Vehicle Fleets and Commuters.



## ECONOMY GAINS

Travel Type	No. of vehicles	Miles Per Annum	Average MPG	Fuel pence per litre*	Fuel price per gallon	Fuel cost over distance	% saving per annum	£ saving per annum
Low	1	4,000	35	£1.12	£5.09	£581.90	15%	£87.28
UK Average	1	8,000	35	£1.12	£5.09	£1,163.80	15%	£174.57
Local Average	1	10,000	35	£1.12	£5.09	£1,454.75	15%	£218.21
Commuter	1	15,000	35	£1.12	£5.09	£2,182.12	15%	£327.32
Local Rep	1	20,000	35	£1.12	£5.09	£2,909.50	15%	£436.42
Household Avg	2	22,000	35	£1.12	£5.09	£3,200.45	15%	£480.07
Delivery/National	1	25,000	35	£1.12	£5.09	£3,636.87	15%	£545.53
Fleet	5	125,000	35	£1.12	£5.09	£18,184.36	15%	£2,727.65
Fleet	10	250,000	35	£1.12	£5.09	£36,368.72	15%	£5,455.31
Fleet	20	500,000	35	£1.12	£5.09	£72,737.44	15%	£10,910.62

\*Prices correct at time of publication April 2015

# BLEND

Alternatively, some people prefer a blend of both our Performance and Economy Remaps, which results in smaller gains to both power and economy throughout the performance of your engine.

