



LANDROVER SPECIAL TUNING

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**Allard Aluminium Products**

**TURBO DIESEL SPECIAL TUNING**

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## ***Turbo Diesel Special Tuning Performance and efficiency uprating conversions and components***

Thank you for your enquiry. We are pleased to send you details of our Turbo Diesel Performance Optimisation and Tuning Services for your vehicle.

**Allards**, with many years of turbocharging expertise, provide a comprehensive range of turbo engine tuning services and components. The range includes:

- ***Tuning for optimum economy and reduced exhaust emission***
- ***Tuning for improved performance with optimised economy***
- ***Intercooler performance uprating conversions***
- ***ECU power boost module special tuning***
- ***Turbocharger service exchange & special build units***
- ***Turbocharger silicone hoses and system components***
- ***Aluminium fuel tanks, reservoirs, radiators, aluminium welding & fabrication***

Most turbo diesels are now equipped with an electronically controlled fuel injection pump. This means that the vehicle is fitted with an electronic control unit (ECU). This unit receives and processes information from the sensors, which check such things as engine speed and load, air temperature, pressure and flow. The ECU processes these inputs and supplies the engine with the required amount of fuel. We are able to reprogram the ECU with a 'Superchip' or fit a new uprated ECU to improve both power and torque by 10-20% depending on the vehicle. Under most driving conditions the overall fuel consumption will vary little from standard and in some cases can be improved. This maybe accounted for by the fact that the much improved lower speed torque, means that a higher gear can be held for longer and less throttle is used for a given level of performance under normal driving conditions.

For those vehicles with a mechanically controlled fuel pump (most pre 1994 vehicles), we carryout Phase 1 special tuning, which improves low speed torque in particular and produces upto 20% more power and torque.

On many vehicles, the overall performance, thermal and fuel efficiency, can be further enhanced by fitting, in addition, an uprated intercooler system. An intercooler system with a greater charge cooling capacity, under all driving conditions, has the benefits of reducing the thermal load on the engine at the same time as improving power and torque over a wide rpm range without increasing fuel consumption. We are sure you will find the enclosed information of interest and hope we can be of service.

Yours sincerely,

Alan Allard