

RIMMER BROS

Power DIGITAL Box2

www.rimmerbros.co.uk

DIESEL PLUG-IN POWER UPGRADE

FOR LAND ROVER ENGINES:

TD4 FREELANDER	TD5 DISCOVERY DEFENDER	TD-V6 DISCOVERY 3 RANGE ROVER SPORT	TD6 RANGE ROVER (2002 ON)	2.5TD RANGE ROVER (1995-2002)
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- More power & torque
- No loss of economy
- Easy installation

Significant power & torque increases are achieved by simply plugging in a Power Box.

PLUG IN A Power Box!

Installation is relatively easy, with no specialist tools or skills required. No irreversible modifications are made - the Power Box can be removed just as easily and the vehicle reverts to its original state.

HOW DOES IT WORK?

Power Box is a high quality, digital management upgrade, incorporating a modern RISC microprocessor. The "chip" is carefully programmed - using the manufacturers standard fuel map as a foundation - and modifies the opening times of the injectors, which then accurately meters the extra fuel required. Unlike many analogue devices, which crudely over-fuel throughout the entire rev-range, each Power Box is specifically mapped for the intended application. Extra fuel is provided when needed - eliminating flat-spots and hesitation - but there is no unnecessary enrichment, meaning no loss of fuel economy and no black smoke. In fact, most Power Box users report a noticeable improvement in fuel economy, as they discover it's no longer necessary to work their vehicle so hard.

WHERE IS IT FITTED?

On most vehicles, the Power Box fits under the bonnet, interrupting the wiring loom from the engine ECU. All Power Boxes are fitted with the original vehicle connectors, so installation is simply a case of unplugging the relevant connector and plugging in the Power Box. Full instructions are supplied and no special tools or skills are required.

Power Boxes are small, neat and discrete. They are fully encapsulated in resin and are shock resistant. Care, of course, should be taken to locate the Power Box away from the effects of water.

HOW MUCH POWER WILL I GAIN?

On average, Power Boxes give around 20% increase in power and 15-20% increase in torque (see the power table opposite). However, more important is how the vehicle feels: throttle response, crispness and driveability are all immeasurably improved, while flat-spots and sluggishness are virtually eliminated.

ADDITIONAL POWER GAINS

We also strongly recommend fitting a K&N air filter with a Power Box. This will allow the engine to breathe and perform more efficiently (K&N's can also be cleaned and re-used). In addition, fitting one of our stainless steel exhausts will also have the benefits of extracting exhaust gasses more effectively, with reduced back pressure, increased flow and improved turbo response - they look good too! If you wish to go further than this, consider an uprated intercooler for a truly efficient turbo diesel engine. With each of these enhancements, your Power Box can be adjusted to give even better results. Please see the tables below.

WHY NOT JUST HAVE MY ECU RE-CHIPPED?

Unlike an ECU chip, a Power Box can be fitted and removed easily. Also, as the Power Box doesn't disturb the ECU, its presence cannot be detected by diagnostic equipment. Finally, when the vehicle is sold, the Power Box can simply be removed if required and refitted to another vehicle.

In addition, Power Boxes are:

- ✓ TUV approved.
- ✓ Fully compliant with original exhaust emissions standards.
- ✓ Non-damaging to your engine.
- ✓ Power Box is covered by a 3 year guarantee (limited liability).

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THE ADDITIONAL OUTPUT FIGURES ARE THE MINIMUM THAT CAN BE OBTAINED

MODEL	APPLICATION	VIN/ CHASSIS*	STANDARD OUTPUT		ADDITIONAL OUTPUT WITH POWER BOX		PART NO
			BHP	TORQUE (NM)	BHP	TORQUE (NM)	
Defender	Td5 1999 ON	TA ON	122	300	33	65	LL1340
Discovery 2	Td5 1999 ON	TA ON	137	300	21	65	LL1340
Discovery 3	TdV6 2005 ON	5A ON	189	440	22	50	RD1175
Range Rover	2.5Td (P38) 1995 on	MA ON	136	268	25	42	RA1456
Range Rover	3.0 Td6 2002 on	2A ON	177	390	26	50	RA1458
Range Rover	Sport 2005 on	5A ON	189	440	22	50	RD1175
Freelander	Td4 2000 on	YA ON	112	260	18	40	LF1071

*Please quote chassis number when ordering.

"It does what it says on the label"

Land Rover Enthusiast Magazine (March 2004) carried a 3 page feature fitting and testing a Plug-In Powerbox upgrade to a Series 2 (P 38A) Range Rover. A full version of this feature can be found on our website www.rimmerbros.co.uk

"Claim Rimmer Bros: you can expect an increase of 25 bhp and 42 Nm (31 lb ft) of torque. New printout figures with the Powerbox fitted showed it was producing 169 bhp at 4160 rpm - an increase of 31 bhp. And the torque had increased as well, to 242 lb ft (328 Nm) - an increase of 45 lb ft (60Nm)....."

"As for the claims on power and torque, then the Powerbox had done just what it claimed and more. Very impressive!....."

"You just unplug the wiring harness going to the fuel pump and connect the Powerbox in line, and then do the same with the wiring connection to the fuel filter. As for being easy to fit and remove... well, yes it is....."

"However the most impressive thing about the Powerbox is not a claim that is actually made for it. It's the better driveability it gives the vehicle. It gives more grunt, changing the sluggish diesel Range Rover into a much livelier vehicle, especially when pulling away....."

"The power is now there when you require it....."

"The Range Rover is much nicer to drive....."

"In all, we reckoned the Powerbox would be a good buy for any 38A owner. It totally changed the diesel Range Rover....."

STAINLESS STEEL EXHAUST SYSTEMS

MODEL (Cat back)	APPLICATION	PART NO.
Defender Large bore exit 90 110 130	Td5	LR1127 LR1128 LR1129
Discovery Large bore exit	Td5	RD1035
Range Rover Twin large bore or quad exit	2.5td (P38A)	RA1088D
Range Rover Twin large bore exit	3.0 Td6	RA1455
Freelander Rear Silencer	Td4	LF1072

K&N AIR FILTERS

MODEL	APPLICATION	PART NO.
Defender	Td5	ESR4238KN
Discovery	Td5	ESR4238KN
Discovery	TdV6	PHE000112KN
Range Rover	2.5td to '99	ESR341KN
Range Rover	2.5td '00 on	ESR4238KN
Range Rover	3.0 Td6	PHE000040KN
Range Rover	TdV6	PHE000112KN
Freelander	Td4	PHE100500LKN

Power Boxes also available for other makes of diesel vehicle, including: ALFA AUDI BMW CHRYSLER CITROEN FIAT FORD HONDA HYUNDAI IVECO JEEP KIA LANCIA MAZDA MERCEDES MG MITSUBISHI NISSAN OPEL PEUGEOT RENAULT ROVER SAAB SEAT SKODA SUZUKI TOYOTA VOLVO VW