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More Power, Better Economy For Your...  
**Land Rover Discovery 3 TDV6**



Powerchip technology enhances your Land Rover to its ultimate level, delivering faster, smoother acceleration in all driving conditions. Whether you enjoy a leisurely weekend cruise or a hard racetrack drive – there is no easier and more effective way to release the potential from your Discovery 3 TDV6.

The following information is an overview of the performance the Powerchip will deliver. If you have any questions, your Power Consultant will assist you as best as possible. We look forward to giving you the best performance possible from your Land Rover.

<b>Make</b>	Land Rover
<b>Model</b>	Discovery 3 TDV6
<b>Engine</b>	24v V6
<b>Year</b>	From Apr 05
<b>Powerchip Code</b>	LAN0039



### Power

In standard form the Land Rover Discovery 3 TDV6 produces 140 kw at the flywheel, and Powerchip improves the engine power to 168 kw.

Power (kw)			
Standard	Bronze/ Silver	Gold	Gold 98
140	N/A	168	N/A

The extra performance achieved by the Powerchip allows your vehicle to respond much better than stock Discovery 3 TDV6s. You will notice an effortless push back into the driver’s seat, to give you a much more enjoyable and at times safer driving experience. The Powerchip will tap into your Land Rover’s ‘hidden reserves’, to give you an immediately noticeable improvement from your vehicle – we guarantee it!

## Torque

Torque is a measurement of your engine's pulling power, and it is torque that pulls you up hills, allowing your engine a more linear and aggressive acceleration curve. With the Powerchip, you notice the increase in torque right throughout the rev range, which gives you far greater flexibility at low engine revolutions. Towing will become less demanding, and you will no longer feel the need to take the engine to the redline in each gear to get the performance you demand... It's always there for you, when you really need it most!

Torque (Nm)			
Standard	Bronze/ Silver	Gold	Gold 98
440	N/A	506	N/A



## Acceleration

Increased Power and Torque results in faster acceleration. And it is not just standing start acceleration that is improved, your in-gear acceleration is as well.

If overtaking is important to you, you will feel safe knowing that you spend less time on the "wrong side of the road", improving the safety of your car, for you and your family or passengers.

Perhaps you feel that you need that extra bit of power when you are lined up at the "traffic light grand prix" against another car with similar (or more) power? If you want to have the unfair advantage that will give you more 'GO' away from the lights, you need a Powerchip performance software upgrade for your Discovery 3 TDV6.

## **Fitting Details**

Your car uses a type of computer that requires specialised installation of software. We have a specialised fitter in most areas. Please contact your Power Consultant for more specific information on fitting based on your post code. Installation centers are available in most areas.

## **On Road Development**

Where Powerchip really shines out over its competitors is the emphasis and time spent refining the program for drivability and enjoyment. Much more a 'real world' gain than full throttle horse power runs on a dyno, part throttle refinement is a gain everyone uses every time they drive the vehicle. Flat spots and poor off the line performance are smoothed out in this process, and transient throttle conditions are made razor sharp for the ultimate in response. Real time changes to tables like throttle response and power enrichment are done on road to fine tune the driving experience of the vehicle, with acceleration timing equipment used to ensure consistent and measurable gains in part throttle drivability.



## **Drivability**

Powerchip technicians do not spend their whole research and development focus tuning the full throttle performance of each vehicle. A significant emphasis is placed on the part throttle performance. We understand that driving in everyday conditions is more than just flat out acceleration, with your foot flat to the floor.

With Powerchip performance software, your car will perform to its potential, even when you are not demanding the peak performance. You no longer need to mash the throttle to take off briskly, and in-gear overtaking can be performed without needing to change down gears.

One of the main benefits of choosing to enhance your vehicle with the Powerchip is the improvement you will feel in all driving situations, no matter what your driving style is...



## **Manufacturers Tolerances**

Land Rover unfortunately leaves large tolerances in the performance characteristics of its entire fleet to allow for drivers that are negligent on maintenance, and who are non-enthusiasts. The Discovery 3 TDV6 is 'de-tuned' to be able to run on the poorest grade of fuel that the car is likely to encounter anywhere in the world, and also to allow for the small percentage of owners who put their cars reliability to the test due to their lack of mechanical understanding. In most cases, our clients are enthusiasts who place more emphasis on the performance characteristics of their vehicle, and therefore the Powerchip does not need to be programmed as conservatively as the stock software.

## **Servicing**

The Powerchip will not interfere with the service technicians equipment, which leaves the dealers diagnostic equipment to operate as normal.

## **Exhaust Gas Temperature**

The Powerchip is designed to get the best from your diesel engine, to do this your engine is tuned with longevity in mind. A diesel engines Exhaust Gas Temperature (EGT) rises as fuel is added. The more fuel, the higher engine output and EGT. The Powerchip upgrade utilizes the manufacturer's fine resolution adjustment of injection timing and duration, turbo boost and torque limits to ensure torque, drivability and throttle response are not compromised across the rev range.



## **Cetane Rating**

Cetane Rating is a quality rating for diesel fuel, similar to octane ratings for petrol. It indicates how easily the diesel fuel ignites and burns. Powerchip understands and develops all our performance diesel software in Australia to suit Australian weather and altitude conditions.

## **Our Satisfaction Guarantee**

Every Powerchip sold in Australia comes with an unconditional 14-day money back guarantee\*. This ensures that the Powerchip will live up to your expectations, not ours! If for any reason you are unsatisfied with the Powerchip, you may return the Powerchip to your place of purchase for a full refund of the purchase price (not including shipping and handling, installation and removal etc.).

Our satisfaction guarantee\* offers you total peace of mind, and makes the purchase of the Powerchip risk free. By purchasing a Powerchip you have nothing to lose – and everything to gain!

\* Valid for purchases from March 11<sup>th</sup> 2005 until December 31<sup>st</sup> 2006



## **Warranty**

All Powerchip upgrades come with a three-year, unlimited kilometer warranty, which means that if anything occurs to the Powerchip in that time, we will replace it without charge to you. An optional extended Powerchip warranty is also available at an additional \$190 at the time of ordering. This extends the warranty period on any Powerchip to six years.

The terms and conditions of the Powerchip warranties can be viewed in detail on our web site at

<http://www.powerchipgroup.com/products/warranty.asp>



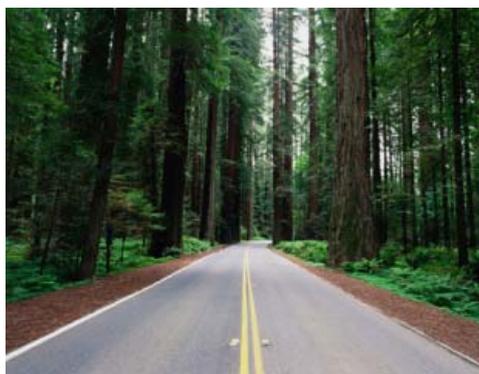
## Value for a Lifetime

The investment you make in the Powerchip will last for as long as you keep your car, and for most of our customers, that is normally for 3 or 4 years. So when you consider the benefits of the chip over a number of years, it is not a lot to pay for extra performance you will probably use nearly every day. As a percentage of the total cost of your car, the Powerchip works out to be very cost effective. Also, with the Powerchip, you can expect your car to command a higher price when it comes time to sell!

## Cost Effectiveness

As we all know, modifying late model vehicles is not a cheap exercise, however, when you look at it on a kw per dollar basis, the Powerchip comes in ahead of any other modification you could make to your Land Rover. Have a look at just how well the Powerchip stacks up:

<b>Price</b>	\$1490
<b>kw Gain</b>	28 kw
<b>Price/kw</b>	\$53.21



The Powerchip is designed to offer excellent value for money compared with other modifications you might be planning in the future.

Cost AUD(\$)				
	Bronze	Silver	Gold	Gold98
<b>Price* (Inc GST, freight additional)</b>	N/A	N/A	\$1490*	N/A

\* Subject to a 10% Non refundable handling and restocking fee

## **Ask the Experts**

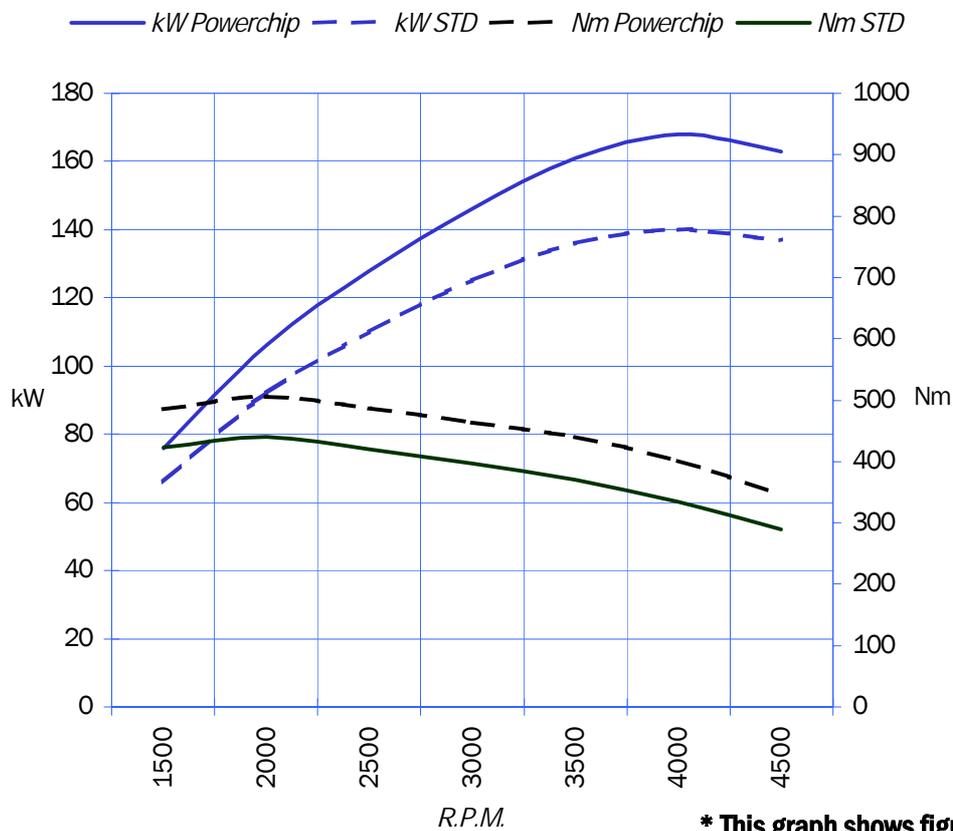
Your Powerchip Power Consultant is trained to provide you with the best information about getting more performance for your car. We have a specific Power Consultant who is responsible for the Land Rover range, and he is an expert at answering all of your technical questions, especially about the Discovery 3 TDV6. If you would like to speak with your Power Consultant about any aspect of the upgrade, please telephone our Australian headquarters in Melbourne, Victoria on (03) 9681 6888 or email your Land Rover Power Consultant directly at [jcross@Powerchipgroup.com](mailto:jcross@Powerchipgroup.com).

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Gold Performance Data for your...

## Land Rover Discovery 3 TDV6 \*

R.P.M.	kW STD	kW Powerchip	kW Gain	Nm STD	Nm Powerchip	Nm Gain
1500	66	76	10	423	486	63
2000	92	106	14	440	506	66
2500	110	128	18	420	487	67
3000	125	146	21	397	464	67
3500	136	161	25	370	440	70
4000	140	168	28	335	402	67
4500	137	163	26	290	345	55



**\* This graph shows figures Powerchip Gold**

MODEL	ENGINE	VERSION	CAPACITY	Max kW	Max Nm	0-100 Auto	0-100 Man
Discovery 3 TDV6	24v V6	Standard	2720cc	140	440	N/A	N/A
Discovery 3 TDV6	24v V6	Gold	2720cc	168	506	N/A	N/A

