

# Hi-Clone Review - Part One

THE DYSON EFFECT FOR DISCOVERIES



The art of getting more out of a diesel engine is an old one. Solutions range from short term specially adapted formula's in bottles available from most garages and service stations, all the way up to precise fuel pump modifications and ECU upgrades costing a few hundred pounds. For me, the shift from a regular petrol engined family saloon, to the throbbing 0-60 in "we'll send you a postcard" times that my 300 TDi of-

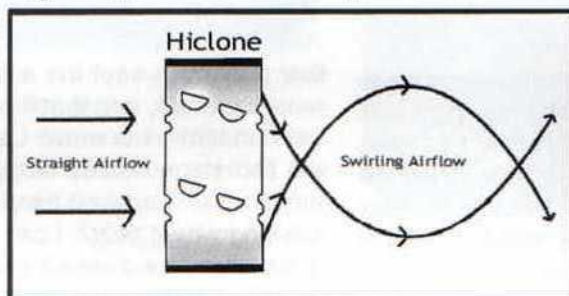
fers were a bit of a culture shock, and one which I am glad to say probably saved not only my licence, but my life as well.

Nonetheless, anything that promises to make my full tractor experience a little more pleasant by way of better acceleration, improved torque, and the Holy Grail of 4x4 ownership (or any UK driver for that matter) "better fuel economy" makes me pay attention like the meerkats of the the southern African grasslands. Hi-Clone has been making such promises. Heads up!

It's not new, it's not big, but it is clever. The concept is a simple one. Place a small static device into the air induction system, and get the air swirling. This swirling air effect improves the fuel / air mixture and atomisation, which promotes a more complete combustion as more of the available fuel is consumed.

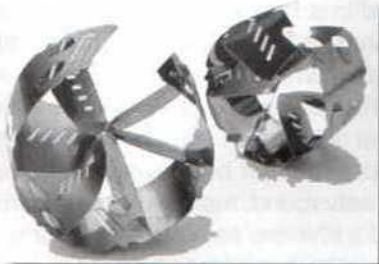
Result? In theory a smoother quieter ride offering more torque, less smoke and better fuel economy.

Convinced? I was. One of the first things I fitted to my Discovery upon purchase was a standard fitment K&N Air Filter. Easy to fit for even me, and according to the majority of people I could expect to see some change. I did (honestly), that little bit of extra torque low down was all my right foot needed to cancel out any fuel savings I may have had. Perfect.



As well as the "Hyperflow" air filter, these 3 devices are to be installed (1) inside the flexible hose connecting the air box to the turbo, (2) and (3) at either end of the flexible hose connecting the intercooler to the manifold. The kits are available for many different makes and models, the 200, 300, and TD5 powered Land Rover engines are all catered for, and according to the instructions are all fitted in minutes.

As you read this, I will be putting all of this to the test. Over the next 2 months I will compare the supplied Hi-Clone "Hyperflow" air filter with my standard fitment K&N option, and install the 3 Hi-Clone's into my 300TDi (1998 model, 85,000 miles on the clock, no other modifications), following the instructions closely, along with my speedo and fuel consumption even closer.



I will let you all know how things went in the next issue of Discourse.

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Discourse Editor

For more information go to  
<http://www.hiclone.co.uk>

## The Glove Box.

### 4x4s BOOST CAR SALES

INDUSTRY figures show that sales of 4x4 are up again. Increasing by 13 percent, even though 4x4 vehicles have had a rough press recently for poor fuel economy and drivers accused of blocking up roads around schools and being aggressive, UK sales are at record levels.

Commenting on the growth, Al Clarke, head of communications at the Society of Motor Manufacturers and Traders, said, "They are lifestyle vehicles that customers want to buy. Yes, they do get used in towns but equally they are used in the country by people for their work and for leisure.

"Owners do pay more taxes for that privilege. Why pick on 4x4s? You could equally pick on owners of large-engined sports cars. Manufacturers have done a lot of work developing fuel efficient and low emission engines for 4x4 vehicles and they do not have a bigger road footprint than a big estate car for instance".

The Land Rover Freelander leads the compact SUV sector with a 30 per cent share of the 66,584 total sales. While in the large SUV market, sales are up 15 per cent to 46,794 registrations. Sector leader is the Land Rover Discovery with a 22 per cent share of the market.

### Mechanical Terms #4

**VICE GRIPS:** Another tool used to round off bolt heads if nothing else is available. When used as a clamp on a drill press, you can ensure they will release as soon as your drill bit touches the desired metal, resulting in it flying across your workshop like a frisbee at 200 mph.

**TIMING LIGHT:** A stroboscopic instrument used for illuminating grease build-up.

