

# Common Rail Diesel Engine Management, Part 1

A detailed tech examination

By Julian Edgar

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## At a glance...

- Diesel functioning
- Injection start timing
- Injection duration
- Injection discharge curve
- Common rail system components

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Dizel je doživio revolucionaran razvoj tokom poslednje decenije. Pogledajte samo oko sebe koliko putničkih automobila s dizel motorom protadte. Šta je dovelo do transformacije smrdljivog, bučnog i prljavog motora u njegovu sadašnju rafiniranu formu? U većini slučajeva to je sistem za ubrizgavanje goriva zvan: common rail. Hajde da napravimo detaljan tehnički pogled.

## Dizel motori



Svakako osnovni dizajn benzinskih i dizel motora je približno isti (oba imaju dvo ili četvorotaktni motore s klipnim mehanizmom i radilicom), kod dizel motora se ne sabija smeša goriva i vazduha čije se sagorevanje inicira koničnjem svećice.

Although the basic designs of petrol and diesel engines are similar (both are two or four stroke designs which use reciprocating pistons driving a crankshaft), a diesel engine does not compress its fuel/air charge and then initiate combustion by the use of a spark plug. Instead, in a diesel engine just air is compressed. When the piston is near Top Dead Centre, the fuel is sprayed by an injector into the combustion chamber, whereupon it mixes with the hot compressed air and self-ignites.

In order that the air within the diesel combustion chamber reaches an adequate temperature for self-ignition to occur, the compression ratio needs to be much higher than found in a spark ignition engine. Compression ratios in the range of 16:1 to 24:1 are commonly used, giving forced aspirated diesel engines a compression pressure of up to 150 Bar. This generates temperatures of up to 900 degrees C. Since the ignition temperature of the most easily combustible components of diesel fuel is only 250 degrees C, it is easy to see why the fuel burns when it is injected after the piston has risen on the compression stroke.

# Common Rail Diesel Engine Management Part 1

**Michael Hoelscher**



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