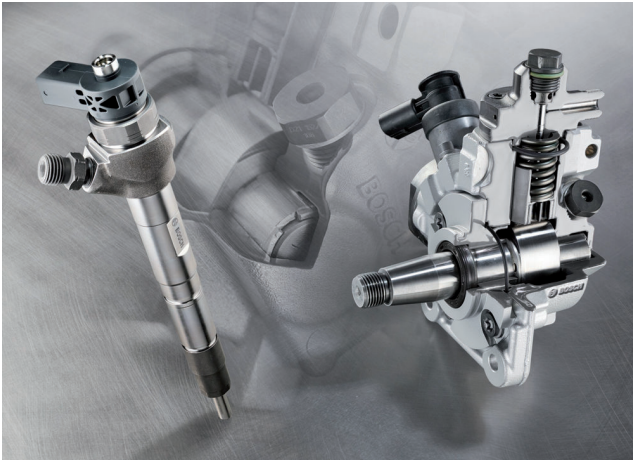


# Diesel System Components

www.bosch-motorsport.com



- ▶ Modification of Common Rail systems
- ▶ Different modification levels available
- ▶ All hydraulic parts available

The geometry and characteristics of Diesel engine components are more dependent upon the application than those for gasoline engines. A single injector design will not fit all Diesel engines due to varying mechanical and nozzle geometry requirements. In addition, the injection system can vary from year to year even within the same make of car.

Bosch Motorsport uses the same Common Rail technology for racing that was developed for production vehicle applications. This includes both solenoid (magnetic) technology and the latest cutting-edge piezo technology.

Bosch Motorsport can offer a wide variety of modifications to fit the system to your specifications. These modifications include:

- Definition of suitable base components from other (or larger) engine applications.
- Adaptation of components for mating, fit and orientation to suit the selected application.
- Flow enhancement of injectors and rails.
- Injector nozzle adaptation (flow rate, number of holes, spray cone angle etc.).

Our goal is to offer the best balance of cost and performance for your application. This is why we offer different levels of modifications to choose from. Below is an example of the different levels for a 4-cylinder engine with 4 injectors, 1 high pressure pump and a single fuel rail:

## Installation Notes

When contacting us for more information on our Diesel components, please have the following information ready so that we may best determine components required for your application:

- The base engine / the car where this engine originally is installed
- Model year and type of car / engine
- The base output level and the desired output level for the engine
- If it is originally equipped with Bosch components: the part numbers of the Bosch components
- Alternatively the car / engine manufacturer part number of the original injection system.



### Notice

If your engine is originally equipped with Bosch components, modifications will be easier than replacing third party components.



### Notice

We reserve the right to assess a fee for applications where the component specification requires an extraordinary amount of time.

Dimensions



Common Rail Pumps



Rails



Pressure Sensors



Injectors



Pressure Control Valves

Common Rail Pumps	CP1H, CP3, CP4	
Rails		Max. 6 cyl./bank
Pressure Sensors	RDS	Max. 2,400 bar
Injectors	CRI 2 (Solenoid), CRI 3 (Piezo)	
Pressure Control Valves	DRV	Max. 2,400 bar

Technical Specifications

	1st Level	2nd Level	3rd Level
Description	Series components with minor modifications (e.g. series components from a bigger engine plus series injector with sample nozzle)	Series components with modifications (e.g. modified injector body with sample nozzle)	Components manufactured completely to your specification (e.g. heavily modified series components or new products)
Functioning	Solenoid	Piezo	Piezo or Solenoid
Injectors	4 x 650.00 €	4 x 2,100.00 €	On request (Prices will be finalized in your personal offer once part numbers are defined)
High pressure pump	1,250.00 €	3,000.00 €	
Fuel rail	Ca. 500.00 €	Ca. 1,000.00 €	
System price	4,350.00 €	12,400.00 €	

Bosch Motorsport does not manufacture high pressure fuel lines, but we can assist you in finding a company that can build high pressure lines for your application.

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