

BOSCH COMMON RAIL DIESEL INJECTION

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Basic Design Features of CRD

There is a chamber which is similar in appearance to a Petrol Engine EFI Fuel Rail mounted along the top of the Engine (i.e. the Fuel Rail or otherwise known as the "Common Rail"). The Rail is filled with fuel via a High Pressure Pump being driven directly by the engine. The design principle & operation is near identical to that of a Petrol Engine with EFI.

NOTE: Fuel Pressure is *NOT* created via Engine Oil Pressure as it is in some other types of CRD engines. This system is known as Hydraulic Electric Unit Injection – **HEUI**.

The Fuel is maintained under this extremely high pressure in the rail as so desired by the ECM. Steel tubes connected to each injector supply this pressurised fuel from the rail. The injectors therefore can be operated by the ECM at any time to produce the very fine spray pattern (thanks to the readily available - at all times - high fuel pressure) in order to promote clean combustion.



NEVER "CRACK OPEN" AN INJECTOR LINE WITH THE ENGINE RUNNING OR CRANKING.

Fuel pressure can reach a **MAXIMUM PRESSURE** of 1600 BAR (23,000PSI).

Fuel Pump For Zd30 Manual

John Deere & Company, Moline (Ill.)

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the text box.

Fuel Pump For Zd30 Manual:

DPA Mechanical Fuel Injection Pump Lucas CAV Limited,1972 *Service Manual* International Harvester Company,1959 **DPA Distributor Type Fuel Injection Pump with Mechanical Or Hydraulic Governor** ,1970
Technical Manual ,1941 *DPA Tandem Plunger Fuel Injection Pump Hydraulically Governed* CAV Ltd Lucas,
Distributor Type Fuel Injection Pumps Type DPA ,1975 DPA Fuel Injection Pump, Hydraulically Governed ,1974
CAV Workshop Manual ,1978 **Service Manual, International and Hough Construction Equipment** Robert Bosch GmbH.,International Harvester Company,1969 *Service Manual, Tesing and Servicing Fuel Injection Pumps and Nozzles* John Deere & Company,Moline (Ill.),1970 Roto Diesel Fuel Injection Pumps ,1981 Cummins Diesel Engines Shop Manual Cummins Engine Company,1973 **Cummins Diesel Engines Shop Manual** ,1966 **Cummins Diesel Engines Unit Shop Manual** Cummins Engine Company,1972* *Vol 6: ENGINE CONTROL SYSTEM (EC1801) FUEL PUMP CIRCUIT ? MAINTENANCE (MA-38)* 2002 Nissan Sentra,2014-08-11 Volume 6 of Nissan Repair Manual **Direct Support and General Support Maintenance Manual for Engine, with Container, Turbosupercharged, Diesel, Fuel Injection, 90-degree "V" Type, Air-cooled, 12-cylinder, Assembly; Models AVDS-1790-2C, 2815-00-410-1203 and AVDS-1790-2D, 2815-00-410-1204** ,1988 **Service Instructions for American Bosch APE 8 VBB Multi-plunger Fuel Injection Pumps** AMBAC Industries,1969 Glenn's Diesel and Gasoline Fuel-injection Manual Harold T. Glenn,1973
Fuel Injectin Pumps for International Diesel Engines International Harvester Co,1983 **Technical Manual for Grader, Heavy, Road, Motorized, Diesel Engine Driven, SSN R038, NSN 3805-01-150-4795** ,1985

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