



VP44 Injector Pump System

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The VP44 injection pump was introduced on the Cummins ISB as a stop gap measure to meet 1998 emissions standards before a common rail fuel system was ready for production. For Dodge Ram pickups, the ISB engine was used in all trucks built after January 1, 1998. A common rail system is being road tested now, and reliable rumors say the the VP44 will be replaced by a common rail in 2003 models. For those with 1998-2002 Rams, here are some details about the VP44 pump.

To meet environmental regulations for a variety of engine applications, Cummins designed an ECU to which they could download different engine control programs without making any physical changes to the engine. This electronic engine control unit (ECU) is installed in a sealed box that is mounted directly to the cylinder block of the engine. The ECU communicates with the VP44 fuel injection pump through a high-speed 2-way CAN-BUS data-link.

There is no direct connection from the throttle to the injector pump. Inputs from engine sensors and the throttle position are used by the ECU to determine how much fuel is injected, and when. The ECU uses sensor and throttle position inputs to compute the appropriate "load", then the controller obtains the fueling rate information from look-up tables, sometimes called maps, stored in ROM. From these a value is determined that represents the desired amount of fuel to be delivered to the engine. This value is then communicated to the injector pump.

The VP44 injection pump uses a set of mechanical plungers to pressurize the fuel, and a mechanical distributor to route the fuel to the correct injector. An electronic controller converts the fuel information sent from the ECU into mechanical control of the fuel delivery by opening and closing fuel spill ports inside the pump mechanism. The pump returns information to the ECU regarding its current operating state.



Bosch VP44 Injector Pump



Cummins ECU

General Information from the [ZEXEL](#) site:

The VP44 system was developed to meet emission standards and reduce fuel consumption. VP44 is a direct-injection type fuel-injection system for small- to medium-size diesel engines. To generate the high injection pressures

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A.K. Legg



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Proceedings of the 1999 Fall Technical Conference of the ASME Internal Combustion Engine Division:

Emissions, fuels and lubricants and HSDI engines American Society of Mechanical Engineers. Internal Combustion Engine Division. Technical Conference,1999 *Automotive Industries* ,1997 **BMW Owners Workshop Manual** John Harold Haynes,1982 BMW 5 Series Diesel (03-09) 52 to 10 Martynn Randall,2011 BMW 5 Series Saloon E60 and Touring E61 with 4 6 cylinder turbo diesel engines 520d 525d 530d 2 0 litre 1995cc 2 5 litre 2497cc 3 0 litre 2993cc turbo diesel Does NOT cover petrol models 535d twin turbo diesel models or models with xDrive transmission Does NOT cover new 5 Series F10 F11 range introduced during 2010 **Owners Workshop Manual for BMW 3-Series** Martynn Randall,2015 *BMW 5-Series Diesel Service and Repair Manual* Haynes Publishing,2015-04 **BMW 3- & 5-series Service and Repair Manual** Andrew K. Legg,Larry Warren,1998 BMW 3 Saloon Touring Saloon 81 88 up to F 5 Series E34 518i 520i 525i 530i 535i Saloon Touring 88 91 F to J Does NOT cover models with DOHC V8 or Diesel engines or 4x4 For other 3 5 series models see manuals no 0276 0632 0815 1560 or 3210 Petrol 1 6 litre 1596cc 1 8 litre 1766 1795cc 2 0 litre 1990cc 2 5 litre 2494cc 2 8 litre 2788cc 3 0 litre 2986cc 3 5 litre 3430cc SOHC **BMW Owners Workshop Manual** A. K. Legg,1987 Saloon Does NOT cover revised range introduced October 1981 Petrol 2 5 litre 2494cc 2 8 litre 2788cc **BMW 3-series Service and Repair Manual** Mark Coombs,Steve Rendle,1996 BMW 5 Series (E28) Service Manual 1982, 1983, 1984, 1985, 1986, 1987 1988 Bentley Publishers,1991-01-01 The BMW 5 Series E28 Service Manual 1982 1988 is a comprehensive single source of service information and specifications for BMW 5 Series E28 cars from 1982 1988 Whether you re a professional technician or a do it yourself BMW owner this manual will help you understand maintain and repair systems on 5 Series cars BMW E28 Models and engines covered in this BMW repair manual 528e B27 2 7 liter 533i B32 3 2 liter 535i B34 3 5 liter 535is B34 3 5 liter BMW E28 Transmissions covered in this BMW repair manual Getrag 260 with integral bellhousing Getrag 265 with removable bellhousing Technical features Complete preventive maintenance procedures from the yearly brake fluid change to resetting the oil service indicator and oxygen sensor lights This manual tells you what to do how and when to do it and why it s important Many of the maintenance recommendations exceed factory recommended service intervals and are designed to extend your BMW s service life Detailed troubleshooting and repair information for these Bosch fuel injection and engine management systems Motronic 528e 533i 535i 535is and Motronic 1 1 528e from March 1987 This Motronic 1 1 service information is not covered in BMW s factory repair manual Comprehensive Engine Management information for specific BMW 5 Series driveability problems including troubleshooting electronically controlled idle speed faults that are frequently misdiagnosed Troubleshooting tips with fast proven repair procedures used by BMW technicians and specialists Critical updates and hard to find information from dealer service bulletins such as how to replace the camshaft timing belt sprocket and tensioner with the correct Z 127 update and cylinder head bolt replacement on 528e

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