



XDP Remanufactured VP44 Injection Pump
1998.5-2002 5.9L Pickups



ATTENTION: Review this VP44 Tech Guide before attempting installation of this Injection Pump. Please call us toll free at 1-888-343-7354 if you have any questions.

Please verify that you've purchased/received the correct VP44 by comparing the part number on the box/pump with the application chart below.

<u>Part Number:</u>	<u>Application:</u>
XDIPVR15X	235HP Engine, 98.5-02 Auto & 5-Speed Manual Trans
Bosch Cross Reference # 0 470 506 005, 0 470 506 011, 0 470 506 015, 0 470 506 022, 0 470 506 027	
XDIPVR17X	245HP Engine, 00-02 High Output 6-Speed Manual Trans
Bosch Cross Reference # 0 470 506 014, 0 470 506 021, 0 470 506 028	



Install Tips - Please follow your Service Manual for proper removal and installation of this VP44 Injection Pump. XDP offers the Haynes Repair Manual on our website that contains a complete step by step removal and installation. (XDP Part Number: HM30041)

- ✓ A purpose built pump gear puller, such as XDP's XD134 is highly recommended to ease the removal of your injection pump.
- ✓ Confirm your lift pump pressure is ideal before and after installation of your new injection pump. Proper fuel pressure and an ample fuel supply is imperative to the life of your VP44. (10 to 20 psi)
- ✓ Fully remove only the 1, 2 and 4 injector lines (leave the clamp holding the lines together). The other 3 lines can remain attached to the engine, but need to be removed from the injection pump and pushed towards the block. (1 is the 6 o'clock position, then 4-2-6-3-5 moving clockwise)
- ✓ Using the proper barring tool, rotate the engine until the keyway is in the 12 o'clock position to prevent pump/gear keyway from falling into gear housing during removal. Having the engine in the 12 o'clock position also makes it easier to position the keyway when installing your XDP pump.
- ✓ It's extremely important that you align the keyway on the pump shaft properly with the slot in the pump gear. Failure to do so will crush the key into the gear causing your timing to be off and the truck to run poorly. (Use a mirror to be sure you have the proper alignment.)
- ✓ Tapping of the VP44 pump wire in any way will void your warranty.
- ✓ Clear any existing engine codes from the ECM before installing the pump. This will avoid any confusion of codes reoccurring after your install.



Understanding your VP44 - (The cause of failure and solution is arguably the most crucial information when replacing a VP44.)

Common Failures:

- ✓ Fuel Delivery (Lack of fuel pressure from the lift pump will starve the VP44 of the fuel it requires to be cooled and lubricated. This heat and lack of lubrication, most often, leads to either a pump failure internally or electronically.)
 - XDP recommends the use of an aftermarket fuel system that provides proper pressure and volume to keep your truck running properly.
 - XDP also recommend the use of a fuel pressure gauge or BD-Power's (BD1081130) Low Fuel Pressure Alarm Kit to help avoid fuel system damage.
- ✓ Fuel Contamination (Corrosion of your pump internals, caused by contaminated fuel or the use of alternative fuels, will cause drivability issues and lead to a failure of the pump.)
 - Always purchase fuel from trusted sources and run a high quality fuel additive, such as XDP's Diesel Power Plus, to help avoid contamination issues.
- ✓ Electrical Failure (Excessive heat and heat cycles over time will cause the electrical component on top of the VP44 to fail.)
 - There is little you can do to avoid the heat of the engine, but our best recommendation is to run a good aftermarket lift pump that provides the best flow of fuel to keep the pump cool.
- ✓ Seized Rotor (Lack of lubrication from either running the pump out of fuel or the lower sulfur diesel fuel being used today.)
 - Running a high quality fuel additive, such as XDP's Diesel Power Plus, increases fuel lubricity and helps extend injection pump and fuel system life.

Warranty



XDP's VP44 Injection Pumps are remanufactured using 100% Genuine Bosch parts. All remanufactured XDP VP44 Injection Pumps are warranted to be free from defects in materials and workmanship for a period of two (2) years from the date of purchase.

WARRANTY

Warranty coverage is not extended on products that have been disassembled or altered in any way. Failures resulting from Purchaser's or owner/operators improper installation or application, abuse, or negligence are not covered within this warranty.

Warranty coverage is strictly limited to the original selling price of the product or service.

Warranty coverage is not extended for down-time, losses, shipping, towing, travel expenses, other direct and/or indirect business costs nor any incidental or consequential damages resulting from a product failure.

XDP makes no other warranties, expressed or implied unless provided in writing at the time of the sale.

Core Return Information

A RMA (Return Merchandise Authorization) number is required on all Core Returns. You can obtain a RMA number by either calling Customer Service (Toll Free 1-888-343-7354) or visiting us at www.XDP.com to submit a RMA Request Form.

Core credit returns will be accepted within 180 days from date of purchase. Cores must be **"like for like"** i.e. part number for part number. Cores must be complete, without previous disassembly. Cores must not be damaged by non-operational causes, such as excessive rust, torch or tool marks, water damage or fire damage.

Core Return shipping charges are the responsibility of the customer.