



# ***VP44 Cover Kit***

Dodge Cummins 5.9L Pump Cover Kit

**I n s t a l l a t i o n M a n u a l**

**READ THIS MANUAL COMPLETELY BEFORE INSTALLING THIS PRODUCT.**

Printed in Canada

BD ENGINE BRAKE, INC.









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*Kit Contents*

1502001B	1502005	1300100	1200307	1300424
				
<b>Cover w/ Nut Installed</b>	<b>Set Screw</b>	<b>Ring Connector</b>	<b>Jam Nut</b>	<b>Blade Connector</b>
<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>	<b>Qty: 1</b>
1607412	1502003	1502004		
				
<b>Red 14GA Wire</b>	<b>Allen Key</b>	<b>T25 Torx Bit</b>		
<b>Qty: 6"</b>	<b>Qty: 1</b>	<b>Qty: 1</b>		

*Required Tools*

- 1/4" Nut driver
- 1/4" Socket and ratchet
- 3/8" Wrench
- Wire Stripper 14-16ga
- Wire Crimper 14-16ga
- Test Light

*Note: You may require an impact driver to use with the 1/4" socket if the cover screws are too tight to remove with a socket and ratchet.*

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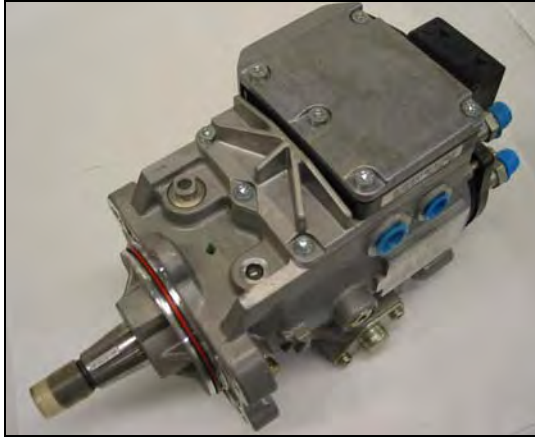
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## Installation

Remove the throttle housing using a 13mm wrench or socket.

Using the supplied #25 Torx bit (P/N# 1502004) and a nut driver or socket and ratchet, remove the 5 retaining screws that hold down the Aluminum top cover on the VP44 pump.



Place the plastic cover supplied in the kit on top of the pump, with the flat side up and lining up the holes for the 5 retaining screws.



Screw in the retaining screws until they are snug. **Do not over-tighten them.**

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Place the piercing Allen set screw (*P/N# 1502005*) into the small hole on the plastic cover, and then screw it down with the supplied Allen key (*P/N# 1502003*) so that it is going in straight.

Note the new revision has a nut pressed in the underside. This will prevent the plastic threads from stripping due to over-torquing.

**After a couple of turns, turn the ignition key on and hook up a test light to a good ground. While touching the piercing Allen set screw with the test light, slowly turn the screw until the light registers a positive power source, and then give the screw one more half turn. Turn the ignition key off.**



Strip both ends of the supplied 14-gauge red wire (*P/N# 1607412*) and crimp on the supplied eyelet connector (*P/N# 1300100*). Place the eyelet connector over the Piercing Allen Screw and start the lock nut (*1200307*) onto the Allen screw. Decide the best direction for the wire then tighten the lock nut down using a 3/8" wrench while securing the Allen screw with the Allen key.

Turn the ignition key back on and touch the test light to the end of the red wire to make sure there is a positive power source present. Turn the ignition key off.

Consult the installation manual for the performance module that is being connected to the pump to determine which wire from the module will be connected to the red wire on the pump cover. Supplied in the kit is a female blade connector (*P/N# 1300424*) which will work with most performance module kits.

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Crimp the correct mating connector to the end of the red wire on the pump cover then turn on the ignition key and test for a positive power source at the connector with the test light. Turn the key off, disconnect the test light and connect the power module wire to the red wire.

It is recommended to retain the original aluminum pump cover.

### *Removal / Reinstallation:*

To remove the cover, start by unscrewing the lock nut for the red wire using a 3/8" wrench then removing the wire. Next, remove the Piercing Allen Screw using the Allen Key supplied. Finally, replace the plastic cover with the original Aluminum cover by unscrewing the 5 retaining screws.

If the plastic cover is going to be reinstalled on the same pump, follow the same instructions as the original installation while utilizing the test light to ensure you do not have to pierce the top of the pump with the Allen Screw anymore than needed to get the positive indication with the test light.

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**LIMITED WARRANTY STATEMENT**

BD Engine Brake, Inc., Valley Fuel Injection Ltd., BD Diesel Performance, Turbocharger.net (the "Seller") warrants the following product(s):

All products manufactured or rebuilt by the Seller are to be free from defects in material or workmanship which includes but is not limited to Turbochargers, Exhaust and Intake manifolds, Exhaust brakes, Intercoolers, Flex Plates, Transmissions, Torque Converters, Oil pans, Fuel pumps and systems, Electronic monitors and control systems. The Seller warrants to the original buyer of the product (the "Buyer") that it will repair or replace, free of charge, any product which has a defect in material or workmanship within the warranty period described below. Copy of original invoice is required to qualify for warranty.

A defect is defined as a condition within the product that would render the product inoperable under normal conditions of use and service. The Seller's responsibility under this Warranty is limited to the repair or replacement, at the Seller's option, of any warrantable product returned prepaid with a complete service history and proof of purchase. A valid proof of purchase is a dated bill of sale or receipt.

A Return Material Authorization (RMA) number, obtained in advance from a customer service representative of the Seller and the dated bill of sale or receipt, must accompany any product returned by the Buyer for warranty determination. The Seller will be the final authority on the approval of all warranty claims hereunder. The issuance of a RMA number does not represent an approval of a warranty claim. All repaired or replaced products will be returned to the Buyer freight collect. Accepted warranty products, which have been replaced, will become the sole property of the Seller.

Until the Seller has approved a warranty claim, the Buyer will be responsible for all costs. Replacement parts and the labor costs incurred by the removal and replacement of the product while performing warranty work will be the responsibility of the Buyer. In no case does the obligation of the Seller exceed the original purchase price of the product as indicated on the original bill of sale or receipt. Under no circumstances will the Seller be liable for any travel time incurred in diagnosis for defects, or any other contingent expenses.

Once the claim is approved and within a 1 year period of original purchase Labor costs incurred will be considered for the removal and replacement of an eligible part while performing warranty work, at a rate of 55.00 per hour at authorized centers with prior approval of the Seller. Freight is FOB Abbotsford, B.C. Canada.

To the extent permitted by law, the Buyer hereby waives all rights other than those expressly set out herein and acknowledges that this warranty sets out the Buyer's exclusive remedies with respect to products covered by it. This warranty shall not be extended, amended or varied except by written instrument signed by the Seller and the Buyer.

The Seller will administer warranty requests on products sold by the Seller and not manufactured by the Seller by forwarding claims made by a Buyer under the manufacturer's warranty to the manufacturer. The final disposition of such claims will be made by the manufacturer and ruled by the laws of British Columbia, Canada.

Customer assumes risk in purchasing product with in 30 days may return the product for exchange of other BD products or services only. No cash refunds are available.

**Please refer to Warranty time limitation per product.**

**NOT COVERED UNDER THIS WARRANTY**

This warranty is limited to the original purchaser of the product and is not transferable to subsequent owners. Specifically excluded from this warranty are failures of products caused by misuse, misapplication, negligence of the Buyer, accidents, modification, abuse, improper storage, installation, repair or operation, use of unauthorized parts or other mistreatment of the Buyer or his agent. Any competitive use, sled pulling, drag racing will void warranty on product. A sheared or twisted shaft, broken planetary gear sets, burned clutches, broken drive hubs, sun gear damage, cracked housings is not covered. Fluids and filters or damage caused from fuel or air contamination, BioDiesel, low fluid levels. This warranty does not cover deterioration of plating, paint or any other coating, linings or parts that are subject to normal wear and tear, such as light bulbs, fuses, bearing wear, seal wear, etc.

If product is not installed by a trained and authorized BD dealer, installation facility must prove it is properly tooled and has certified training to have installed or to carry out repair of product.

The Seller also disclaims any liability for incidental or consequential damages including but not limited to, repair labor, rental vehicles, hotel cost or any other inconvenience cost. To the extent permitted by law, this warranty is in lieu of all other warranties or guaranties, either expressed or implied, included the implied warranties of merchantability and fitness for a particular purpose and shall not extend to any Buyer or to any person other than the original purchaser residing within the boundaries of the continental U.S. or Canada. As well the seller is not responsible or obligated to update previously manufactured parts that are currently under the above warranty.

NOTE THAT THIS GUARANTEE WILL BE VOID IF THE USER BREACHES THE CONDITIONS IN THE SECTION LABELED "NOT COVERED UNDER THIS WARRANTY" AND IS ONLY APPLICABLE ON THE PRODUCTS THE SELLER MANUFACTURES.

**DISCLAIMER OF LIABILITY**

Other than as expressly set forth herein, the Seller, together with its distributors, jobbers and dealers shall in no way be responsible for the product's proper use and service. In no event shall the Seller be liable for any special, incidental, indirect or consequential damages of any kind or nature, whether or not the Buyer was advised of the possibility of damage, arising or resulting from the use or performance of the product, and the Buyer hereby waives any and all such claims.

The Buyer acknowledges that he/she/it is not relying on the Seller's skill or judgment to select or furnish goods suitable for any particular purpose and that the Seller has no liability that will extend beyond the scope of the limited warranty contained herein, and the Buyer hereby waives all remedies or liabilities, expressed or implied, arising by operation of law or otherwise, (including, without limitation, any obligations of the Seller with respect to fitness for any particular purpose; merchantability; and special, incidental, indirect or consequential damages) or whether or not occasioned by the Seller's negligence.

The Seller disclaims any warranty and expressly disclaims any liability for personal injury or damages related to the Buyer's use of the product. The Buyer acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this Agreement and the Buyer agrees to indemnify the Seller and hold the Seller harmless from any claim related to the product and its use or performance. Under no circumstances will the Seller be liable for any damages, liabilities, costs or expenses incurred as a result of by reason of the use, performance or sale of the product, including without limitation, any damages, liabilities, costs or expenses incurred by reason of the Buyer's negligence related to those uses of the product as a result of the removal of the speed limiter.

The Seller assumes no liability regarding the improper installation or misapplication of the product. It is the installer's responsibility to check for proper installation, and, if in doubt, contact the manufacturer.

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<b>Limited Warranty Details</b>			
<b>Product Name</b>	<b>Parts</b>		<b>Notes</b>
	<b>(Months/Miles)<sup>1</sup></b>	<b>(Months/Miles)<sup>1, 2</sup></b>	
Torque Converters (Dodge)	36/ 150,000	12/12,000	No Race abuse covered
Torque Converters (Ford & Allison)	36/ 150,000	12/ 12,000	No Race abuse covered
Transmissions	36/ 150,000	12/ 24,000	No Race abuse covered
Race Transmissions	12/ 24,000	Not Eligible	
Valve / Accumulators Bodies	12/ 24,000	12/ 24,000	
Transmission Pans	36/ 150,000	Not Eligible	
Auto / Torq / Towloc's	12 / 24,000	Not Eligible	
Flex Plates	36/ 150,000	Not Eligible	
Injectors & Injection Pumps	12 / 24,000	12/ 24,000	Race Pumps 90 days parts/No labour
Tuners and Chips	Manufacturer <sup>3</sup>	Not Eligible	
X-Monitor / Cool Down Timers	12/ 24,000	Not Eligible	
Intake / Exhaust Manifolds	36/ 75,000	Not Eligible	
Exhaust Kits	24 Months	Not Eligible	Surface rust not eligible
Turbo Guards / Boost Builders / Waste Gate Kits	12/ 24,000	Not Eligible	
Intercoolers / Hoses / Clamps	12/ 24,000	Not Eligible	
Transmission Coolers	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Manual Transmission Clutches	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Short Shifters	12/ 24,000	Not Eligible	
Engine / Head Stud kits	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Engine Brakes	24/ 24,000	12/ 24,000	
Steering Stabilizers / Sway bars	12/ 24,000	Not Eligible	
Boost Coolers	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Gauges and Mounts	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Performance Turbos	12/ 12,000	Not Eligible	
FlowMAX Fuel Pumps	60/ 75,000	Not Eligible	
Auxiliary Fuel Pumps	12/ 12,000	Not Eligible	

A Return Material Authorization (RMA) number, obtained in advance from a customer service representative of the Seller and the dated bill of sale or receipt, must accompany any product returned by the Buyer for warranty determination.

<sup>1</sup> Warranty is based on whichever occurs first (Months or Mileage).

<sup>2</sup> Prior approvals must be given to qualify for labour reimbursement.

<sup>3</sup> As per Manufacturer's warranty

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