



BD's Revolutionary New Heavy-Duty Lift Pump System

1998½-2004 5.9L DODGE CUMMINS RETRO FIT INTAKE PUMP Kit

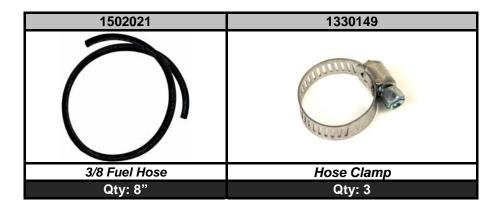
Installation Instructions

P/N# 1050302

PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLATION.

The BD auxiliary lift pump kit will provide the safety and performance of enhanced fuel flow to your Cummins engine.

Kit Contents



** The filter to be used as the in-take filter has been included in your FlowMax fuel pump kit.

Required Tools

- Razor Blade/Knife
- Pliers
- 3/16" Flat Screwdriver
- 10 mm Socket or wrench

Installation

Continue to follow the normal pump installation instructions that come with your FlowMax Pump kit. Instead of removing the factory lift pump from its factory location, you will need to remove the aluminum spacer blocker where your OEM pump once existed, along with the hard lines and wiring harness.

The retrofit effectively removes the unsatisfactory upgraded pump from inside the filter bowl. While still pulling fuel from the filter bowl, which reductions fuel slosh and running out of fuel prematurely.

Raise the vehicle and support it safely.

You will now need to drop the factory fuel tank. Be very careful as a full fuel tank is very heavy.

- a. Use a transmission jack or something similar to support the fuel tank.
- b. Locate the support straps that secure the fuel tank to the vehicle. Loosen these and remove.
- c. With the tank loose, reach up on top of the tank and un-clip and remove the factory fuel line quick connects.
- d. Lower the fuel tank.





Rotate the locking clip that secures the basket to the fuel tank.

Remove the factory pickup can/basket from the top of the tank.

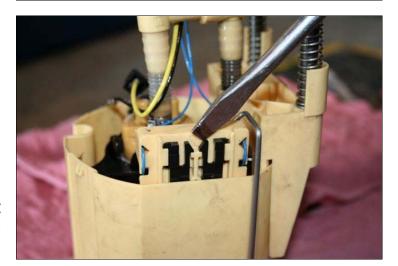


With the basket removed, use a hack saw blade and cut the three supports from the OE lift pump.

Disconnect the factory power and ground wires from the pump. Tie these out of the way.

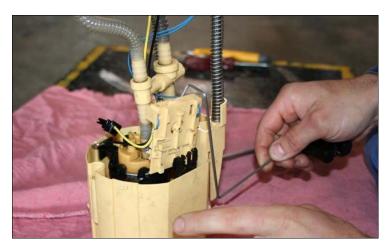
DO NOT USE A ZIP TIE AS IT WILL DISENGRATE IN THE DIESEL FUEL.





Release the two locking clips that secure the float with a flat head screwdriver.

With the float out, you should have more room to work.





With a sharp knife, score the plastic tube to release the outer tube and expose the 3/8" barb.

You should now be able to lift the OE pump out of the basket.

DO NOT CUT INTO THE PLASTIC BARB.





Use the supplied 3/8" hose and stainless hose clamp to attach the hose to the 3/8" barb.

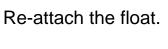
You will need to trim the hose to the exact length so it sits flush with the bottom of the basket.

BE SURE TO CUT THE HOSE AT AN ANGLE OR V-NOTCH THE BOTTOM, OTHERWISE THE HOSE WILL SUCTION TO THE BOTTOM OF THE BASKET.

IF YOU CUT THE V-NOTCH TOO HIGH, THE TRUCK MAY RUN OUT OF FUEL PREMATURLY.







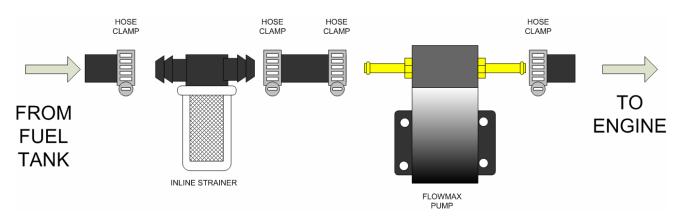
Drop the modified basket into the fuel tank and secure with the locking ring.





Raise fuel tank back up into vehicle and reconnect all connections. Secure the tank to the vehicle.

Locate fuel supply line from the tank that travels into the FlowMAX pump. Make a cut in this fuel hose and insert the fuel screen.



If you experience any problems or difficulties with this kit, please contact the BD Technical Department at 1-604-853-6096 or fax at 1-604-853-8749, between 8:00am and 4:30pm Pacific Time.

Troubleshooting

If you have problems, complete the following tests or procedures:

- Clean and re-tighten battery terminals.
- Ensure there are no crimped/pinched sections of fuel line.
- Change Fuel Filter
- Check OEM connection to weather pack plug for 12V.
- Check that fuse in supplied harness near battery terminal is not blown.
- Check that all plugs are securely clipped together
- Check TIPM connection
- · Check for plugged filter
- Check filter screen external or in the tank.

The pump should operate between 16 and 18psi with 14V at idle. If you have lower voltage the pump pressure will also be lower.

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.

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 Labor costs incurred will be considered for the removal and replacement of a 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.

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(transmissions are limited to 400RWHP), 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. This warranty does not cover deterioration of plating, paint or any other coating or parts that are subject to normal wear and tear, such as light bulbs, fuses, bearing wear, seal wear, etc.

Except as set forth herein or in our parts outline, the Seller disclaims any implied warranties of merchantability and fitness for a particular purpose. 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 updated previously manufactured parts that are currently under the above warranty.

IN THE EVENT THE BUYER DOES NOT AGREE WITH THIS AGREEMENT OR IS NOT SASTISFIED WITH THE PRODUCT, THE BUYER MAY PROMPTLY RETURN THIS PRODUCT, WITH A DATED PROOF OF PURCHASE, TO THE PLACE OF PURCHASE WITHIN THIRTY (30) DAYS FROM DATE OF PURCHASE FOR A FULL PARTS REFUND. THE SELLER OR INSTALLER IS NOT RESPONSIBLE FOR INCIDENTAL CHARGES SUCH AS OUTGOING OR INCOMING FREIGHT, RE & RE LABOR OR ANY OTHER COSTS IN RELATION TO THE PRODUCT. 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.

Limited Warranty Details			
	Parts	Labour	
Product Name	(Months/Miles) ¹	(Months/Miles) ^{1, 2}	Notes
Torque Converters (Dodge)	24/ 24,000	12/12,000	Limited to 400RWHP
Torque Converters (Ford & Allison)	12/ 12,000	12/ 12,000	Limited to 400RWHP
Transmissions	12/ 24,000	12/ 24,000	Limited to 400 RWHP
Extended Warranty Package (Transmissions & Torque Convertor)	36/ 100,000	36/ 100,000	Limited to 400 RWHP
Race Transmissions	12/ 24,000	Not Eligible	
Valve / Accumulators Bodies	12/ 24,000	12/ 24,000	
Transmission Pans	12/ 24,000	Not Eligible	
Auto / Torq / Towloc's	12 / 24,000	Not Eligible	
Flex Plates	12 / 24,000	Not Eligible	
Injectors & Injection Pumps	12 / 24,000	12/ 24,000	Race Pumps 90 days parts/No labour
Tuners and Chips	Manufacturer ³	Not Eligible	
X-Monitor / Cool Down Timers	12/ 24,000	Not Eligible	
Intake / Exhaust Manifolds	12/ 24,000	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 ³	Manufacturer ³	
Manual Transmission Clutches	Manufacturer ³	Manufacturer ³	
Short Shifters	12/ 24,000	Not Eligible	
Engine / Head Stud kits	Manufacturer ³	Manufacturer ³	
Engine Brakes	24/ 24,000	12/ 24,000	
Steering Stabilizers / Sway bars	12/ 24,000	Not Eligible	
Boost Coolers	Manufacturer ³	Manufacturer ³	
Gauges and Mounts	Manufacturer ³	Manufacturer ³	
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.

¹ Warranty is based on whichever occurs first (Months or Mileage).

² Prior approvals must be given to qualify for labour reimbursement.

³ As per Manufacturer's warranty