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**OEM Transfer Pump Replacement  
Dodge 2003-2004½ 5.9L Cummins**

**P/N# 1050231**



**WARNING: FUEL IS INVOLVED AND VAPORS WILL SETTLE IN LOW AREAS. WORK IN A WELL VENTILATED SPACE AWAY FROM SPARKS OR OPEN FLAME SUCH AS A PILOT LIGHT. REMOVE THE NEGATIVE (-) BATTERY CABLE FROM THE BATTERY POST. STORE FUEL IN AN APPROVED CONTAINER. HAVE A CLASS "B" FIRE EXTINGUISHER CLOSE BY. NOT FOR USE IN AIRCRAFT OR OTHER NON-AUTOMOTIVE USE.**

**Please read the instruction manual before installation of this kit.**

BD Engine Brake Inc.

Plant Address: 33541 MacLure Rd. Abbotsford, BC, Canada V2S 7W2

U.S. Shipping Address: 88-446 Harrison St, Sumas, WA 98295 U.S. Mailing Address: P.O. Box 231, Sumas, WA 98295

Phone: 604-853-6096 | Fax: 604-853-8749 | Internet: [www.bd-power.com](http://www.bd-power.com)

## ***Removal Instructions***

1. Disconnect the negative battery cable.
2. Drain fuel from the fuel filter/water separator housing.
3. Disconnect the electrical connector from the OEM fuel transfer pump.
4. Disconnect the fuel tank supply line from the fuel transfer pump extension line. Do this at the disconnection point inside of the left inner frame rail. *Note: For 2003 model years, the fuel extension line is permanently attached to the transfer pump – do not attempt to disconnect the fuel line.*
5. Remove 4 pump mounting bolts (hex-allen), and remove the pump from the fuel filter housing.
6. Confirm that the transfer pump o-ring is also removed from the fuel filter housing.

## ***Installation Instructions***

1. Using the old fuel transfer pump extension line as a guide for orientation, assemble the inlet filter, quick connect fitting, and clamps to the formed hoses provided. See illustration on the next page (“*Assembly Illustration*”) for clarification.
2. After orientation is set, move the clamps on either side of the inlet filter and at the quick connect fitting to the proper location.
3. Install a new o-ring on the fuel transfer pump outlet.
4. Lubricate the o-ring and OD of the transfer pump inlet fitting.
5. Apply non-permanent thread lock to 4 mounting screws.
6. Position the fuel transfer pump onto the fuel filter housing. **Do not use mounting bolts to draw transfer pump to filter housing.**
7. Be sure that the pump is positioned flat to the fuel filter housing. Install the mounting bolts and evenly tighten to 7N\*M (61 lbs-in).

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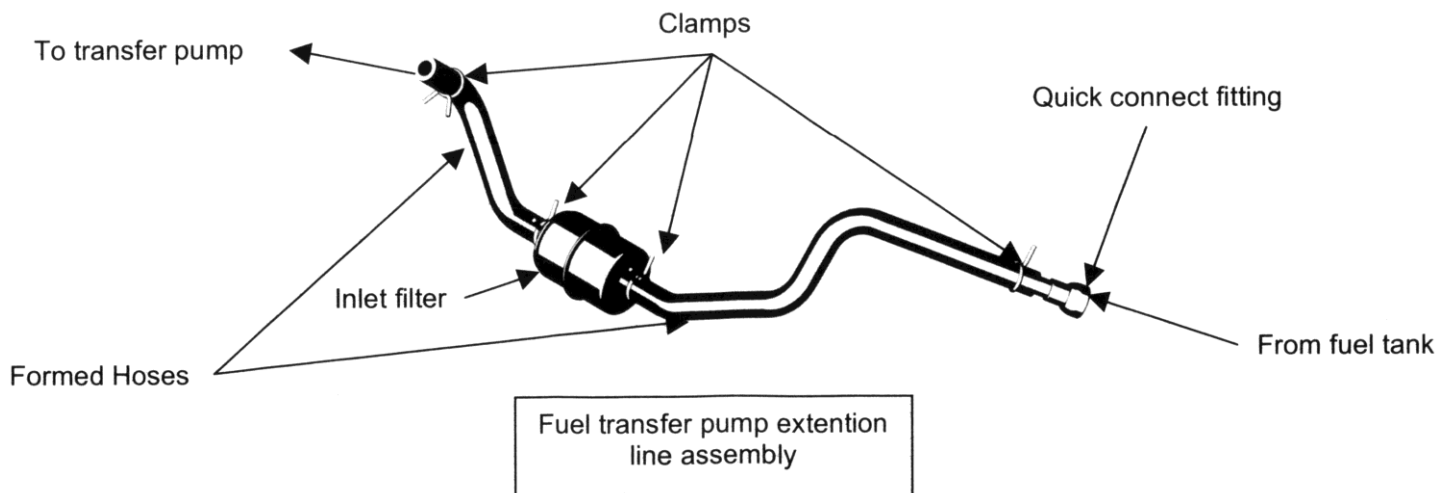
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8. Connect the fuel line extension to the fuel supply line inside of the left frame rail. Connect the fuel extension line to the fuel transfer pump on the fitting end. Move the clamp into place.
9. Connect the electrical connector to the pump.
10. Reconnect the negative battery cable.
11. To prime the system, cycle the key to actuate the transfer pump or use the DRB II Scan Tool to actuate the transfer pump. Check for leaks.
12. Operate the engine and check for fuel leaks.

## ***Assembly Illustration***



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