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*Changing injector nozzles requires special tools and knowledge. The tolerances in these injectors are very close so they must be assembled precisely. Once assembled, the injectors must be put on a test bench to be flow-checked & balanced. Not doing so may result in the vehicle not running properly. For these reasons BD Diesel does not warranty injector nozzles.*



## **DODGE CUMMINS 2003-09 HPCR**

# **INJECTOR NOZZLES**

## **Installation Instructions**

<b>Application List</b>			
<b>2003 - 2004</b>	<b>Dodge 5.9L</b>	<b>1075880</b>	<b>60 HP</b>
<b>2003 - 2004</b>	<b>Dodge 5.9L</b>	<b>1075881</b>	<b>90 HP</b>
<b>2004½ - 2007</b>	<b>Dodge "600 &amp; 610" 5.9L</b>	<b>1075885</b>	<b>60 HP</b>
<b>2004½ - 2007</b>	<b>Dodge "600 &amp; 610" 5.9L</b>	<b>1075886</b>	<b>90 HP</b>
<b>2007½-2010</b>	<b>Dodge 6.7L</b>	<b>1075890</b>	<b>60 HP</b>
<b>2007½-2010</b>	<b>Dodge 6.7L</b>	<b>1075891</b>	<b>90 HP</b>

**PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION**

BD Engine Brake Inc.

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

U.S. Shipping Address: 1124 Fir Avenue, Blaine, WA 98230 U.S. Mailing Address: P.O. Box 231, Sumas, WA 98295

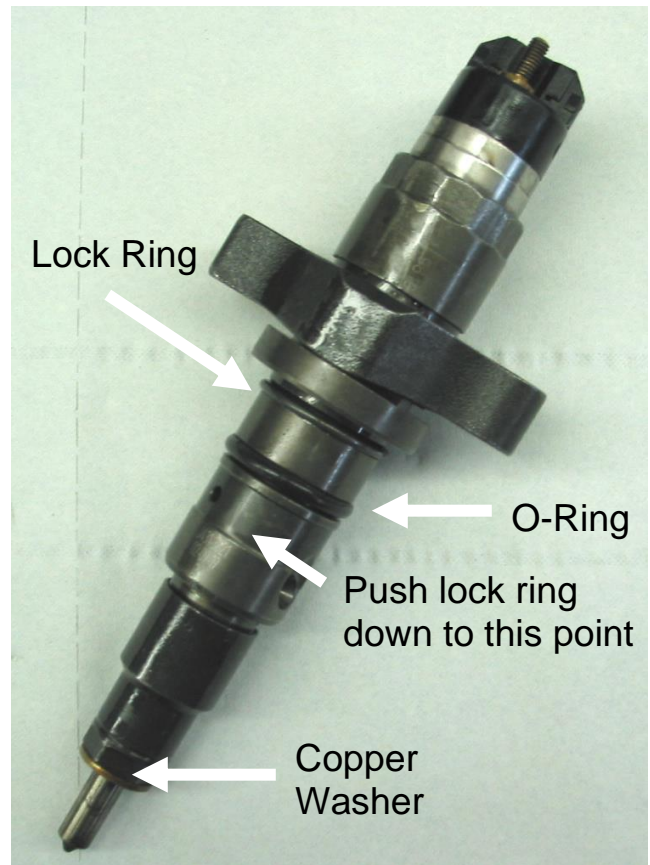
Phone: 604-853-6096 | Fax: 604-853-8749 | Internet: [www.bddiesel.com](http://www.bddiesel.com)

## Removal & Installation of Nozzles

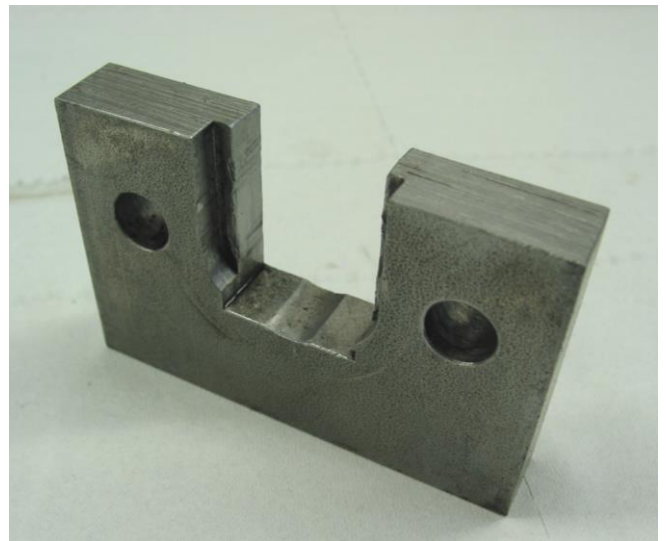
Once the injectors are removed from the vehicle use a clean rag and wipe down the injectors to clean any soot or debris from the outside of the injector.

Remove rubber O-Ring and lock ring from body of injector. The lock ring will take some finesse to remove, note that you only have to slide the lock ring just below the injector inlet push tube inlet.

You should be able then slide down the outer support assembly and have access the machined flat surfaces. These surfaces will support the injector during the nozzle removal process.



You will need a special lock block to support the injector; you can purchase one from Dipaco, Stanadyne or BD. The BD part number is **1075975**.



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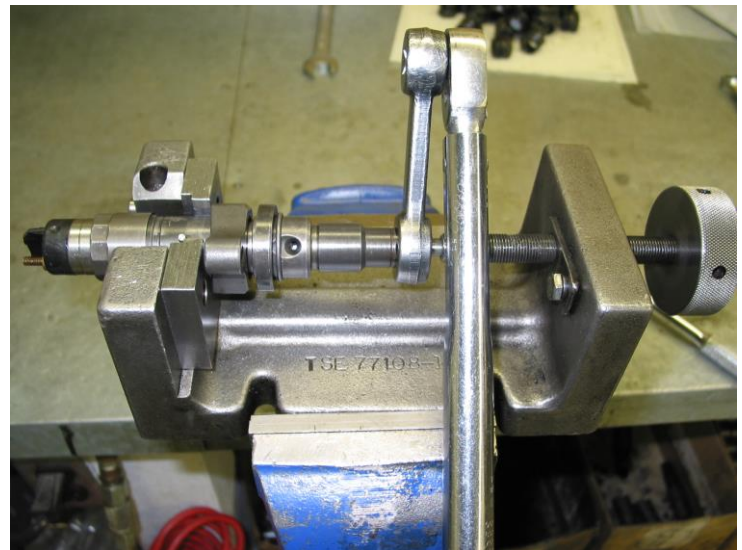
Insert injector into the lock block and secure into injector disassembly fixture. Turn the handle to remove pressure from the nozzle tip and the nozzle nut. Now loosen the nozzle nut using a 15mm closed wrench.



Once the nozzle nut is removed, clean any debris/carbon soot build up on the inside of the cap. Also check the injector body for any cracks or unusual wear.



Discard old nozzle and insert new BD performance nozzle. Hand tighten nozzle nut, securing nozzle. Re-insert into injector disassembly fixture and torque injector cap to 30 ft lbs.



Slide down lock ring to the lower land and insert new O-Ring. Also install new copper washers on the base of the injectors.