

**(I-00300)**

**BD Engine Brake LIMITED WARRANTY STATEMENT**

BD Engine Brake (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 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. BD reserves the right to return or replace Warranty Approved items freight Prepaid. While warranty denied or rejected, claims will be returned freight collect. Accepted warranty products, which have been replaced, will become the sole property of BD.

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.

Only once the claim is approved, and depending on if the warrantable product is eligible, labor costs will be considered for the removal and replacement if an eligible part at an hourly rate of \$100.00 per hour. The end user may be responsible for the difference between the BD warranty labor rate and the authorized service dealer's labor rate. BD recommends the end user negotiate these conditions before the service is performed. As well the end user may be responsible for additional freight charges from FOB Abbotsford, BC / Washington.

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. If the buyer replaces the product from the Seller with another from another manufacturer, the Buyer-Seller warranty contract is void and the RMA Claim will be terminated. Any claim for remuneration will be rejected.

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.

The installation of BD aftermarket parts may void the OE warranty. BD is not responsible for OE warranties or how they are administered. Residents of the U.S.A. can reference the Magnuson-Moss warranty act that protects the consumer on the installation of aftermarket parts, please research this act to base your decisions accordingly.

In the case the warranty is denied, BD at its discretion, may offer to refurbish (where applicable) the product at discounted rate for the end user.

**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 are not covered. Damage caused from debris in oil contaminated coolers, improper fluids and filters or damage caused from fuel or air contamination, Biodiesel, low fluid levels are also not covered. 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.

**In the case of BD transmissions, a BD torque convertor must be installed at the time of installation of the transmission. Use of a 3<sup>rd</sup> party or OE convertor may invalidate the transmission warranty.**

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 guarantees, 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.

Limited Warranty Details			
Product Name	Parts (Months/Miles) <sup>1</sup>	Labor (Months/Miles) <sup>1,2</sup>	Notes
Torque Converters	36/ 150,000	12/12,000	No Race abuse covered
Transmissions (TowMaster & TorqueMaster)	36/ 150,000	12/ 24,000	No Race abuse or broken shafts covered. Remote filter required for inspection with a cooler flow rate in GPM at Oil/Air transmission cooler outlet. Freight provision allowed.
Transmissions (RoadMaster)	24/ 100,000	12/ 24,000	
Rebuild/Repair Transmission	12/ 24,000	12/ 24,000	Defined as "Cost of Repair" or repaired units that fall outside of the retail warranty period.
Race Transmissions	12/ 24,000	Not Eligible	
Valve / Accumulators Bodies	12/ 24,000	12/ 24,000	
Transmission Pans	36/ 150,000	Not Eligible	
Flex Plates	36/ 150,000	Not Eligible	
Injectors (Mechanical) & Injection Pumps	12/ 24,000	12/ 24,000	VP44/P7100 Race Pumps 90 days parts/No labor coverage
Performance Injector Nozzles (Common Rail)	Not Eligible	Not Eligible	
Common Rail Injectors	24 Months	Not Eligible	Manufacturing and material defects are only covered. Cracks caused by high fuel pressure are not covered. High Return flow not covered after 12 months on Performance Injectors. For No Hassle Eligibility, see <a href="https://us.bddiesel.com/pages/extended-warranty">https://us.bddiesel.com/pages/extended-warranty</a>
	24 Months + No Hassle	Not Eligible	
Performance Tuners and Chips	Manufacturer <sup>3</sup>	Not Eligible	
BD Electronic Modules (TSB, VVB, etc)	24/ 48,000	Not Eligible	
Intake / Exhaust Manifolds	36/ 75,000	Not Eligible	
Exhaust Up pipes	12/24,000	Not Eligible	Surface rust not eligible.
Exhaust Kits	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Hoses / Clamps	12/ 24,000	Not Eligible	
BD Xtruded Transmission Cooler	12/ 24,000	Not Eligible	
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>	
Positive Air Shutoff / Electronic Positive Air Shutoff	24/ 24,000	Not Eligible	
Exhaust Brakes	24/ 24,000	12/ 24,000	
Gauges and Mounts	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Screamer Turbos	24 Months	Not Eligible	24 Month warranty effective for sales after 11/01/2024
Performance/OEM Turbos	12 Months	Not Eligible	
Remanufactured ISX Turbos	90 Days	Not Eligible	See I-00437 for more details. For 1045880, see OEM Turbos.
Auxiliary Fuel Pumps	12/ 12,000	Not Eligible	
BD FICM	12 Months	Not Eligible	
Fuel Control Plate/Pin (VE & P7100)	24 Months	Not Eligible	
Distributed Product (Not Manufactured by BD)	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Replacement Components	12 Months	Not Eligible	
Transmission Rebuild/Build It Kits	12 Months	Not Eligible	Material Defects Only
Steering & Suspension Parts (Track Bar, Caster kit, Steering Stabilizer, Bars and links)	Limited Lifetime (12 months if not registered)	Not Eligible	Must register online within 30 days of purchase to be eligible. See website <a href="https://warranty.bddiesel.com/limited-lifetime/">https://warranty.bddiesel.com/limited-lifetime/</a> for details. Excludes normal wear & tear (boots, bushings, joints, bearings) and improper use.
Venom/FlowMAX Fuel Lift Pump Kit	Limited Lifetime (12 months if not registered)	Not Eligible	Must register online within 30 days of purchase to be eligible. See website <a href="https://warranty.bddiesel.com/limited-lifetime/">https://warranty.bddiesel.com/limited-lifetime/</a> for details. Excludes normal wear/service items (hose, filters) and improper use.

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 labor reimbursement.

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

Updated 10/21/2024



**General Policy**

All core returns must be,

- like for like, no mixed models
- drained of all fluids (\$50 Charge)
- be returned in the original packaging
- Part Disassembled
- No junkyard cores (core must have been removed from vehicle)
- No fire damage
- Free of excessive Rust or Water Damage

Returned cores that fail to follow the above conditions will be disallowed and scrapped or returned at the customer's expense. Freight and removal damage are not covered. BD Diesel reserves the right to adjudicate cores as it sees fit and may deviate from its policy.

<b>BD FUEL INJECTION CORE ACCEPTANCE POLICY</b>		
<b>Model</b>	<b>Deduction</b>	<b>No Credit</b>
P7100 Injection Pump	<ul style="list-style-type: none"> <li>• AFC Housing Damaged (25% Deduction)</li> <li>• Governor Housing Damaged Front or Back (25% Deduction)</li> </ul>	<ul style="list-style-type: none"> <li>• Contaminated/Bio Diesel</li> <li>• Damaged Camshaft on 911/913 pumps.</li> <li>• Main Body Damaged</li> </ul>
Bosch VE Pump	<ul style="list-style-type: none"> <li>• AFC Housing Damaged (25% Deduction)</li> <li>• Cold Advanced Housing Damaged (50% Deduction)</li> <li>• Governor housing damaged front or back (25% deduction)</li> <li>• Main Body Damaged (50% Deduction)</li> </ul>	<ul style="list-style-type: none"> <li>• Contaminated/Bio Diesel</li> <li>• Seized Head (Does not turn)</li> </ul>
CP3		<ul style="list-style-type: none"> <li>• Contaminated/Bio Diesel</li> <li>• Seized (Does not turn)</li> <li>• Catastrophic Shaft Failure (Frost Plugs Damaged or Missing)</li> <li>• Front Cover Damaged</li> </ul>
VP44	<ul style="list-style-type: none"> <li>• Damaged Electronics (50% Deduction)</li> </ul>	<ul style="list-style-type: none"> <li>• Contaminated/Bio Diesel</li> <li>• Seized Head (Does not turn)</li> </ul>
Common Rail Injectors	<ul style="list-style-type: none"> <li>• Solenoid melted or destroyed, stretched terminals (25% Deduction)</li> <li>• 5.9/6.7 Broken Solenoid Terminal Divider (No Deduction)</li> </ul>	<ul style="list-style-type: none"> <li>• Contaminated/Bio Diesel</li> <li>• Damaged Body</li> </ul>
Mechanical Injectors		<ul style="list-style-type: none"> <li>• Contaminated/Bio Diesel</li> <li>• Damaged Body</li> </ul>

<b>BD TURBOCHARGER CORE ACCEPTANCE POLICY</b>		
<b>Turbo Model/ Application</b>	<b>Deduction</b>	<b>No Credit</b>
Cummins ISX VGT Air or Electronic Actuated	<ul style="list-style-type: none"> <li>• Damaged Electronics (50% Deduction)</li> <li>• Missing Clamps (25% Deduction)</li> <li>• Missing Parts or Actuators (50% Deduction)</li> <li>• Turbine Wheel Separation (50% Deduction)</li> </ul>	<ul style="list-style-type: none"> <li>• Knock Off Models (Not Genuine)</li> <li>• Part Disassembled</li> </ul>
Caterpillar (Ball Bearing) Models		<ul style="list-style-type: none"> <li>• Knock Off Models (Not Genuine)</li> <li>• Wheel Separation</li> </ul>
Caterpillar (Standard Turbocharger) 704604-9007, 704604-9011		<ul style="list-style-type: none"> <li>• Knock Off Models (Not Genuine)</li> <li>• Turbo with 3 support Webs</li> </ul>

Detroit Diesel VGT	<ul style="list-style-type: none"> <li>Damaged Electronics (50% Deduction)</li> </ul>	<ul style="list-style-type: none"> <li>Knock Off Models (Not Genuine)</li> <li>Wheel Separation</li> </ul>
Ford 6.4 Powerstroke	<ul style="list-style-type: none"> <li>Missing Parts or Actuators (50% Deduction)</li> </ul>	<ul style="list-style-type: none"> <li>Knock Off Models (Not Genuine)</li> <li>Part disassembled</li> <li>Wheel Separation</li> </ul>
Ford 6.7 Powerstroke	<ul style="list-style-type: none"> <li>Missing Parts or Actuators (50% Deduction)</li> </ul>	<ul style="list-style-type: none"> <li>Wheel Separation</li> </ul>
GM 6.6 L5P	<ul style="list-style-type: none"> <li>L5D Version (due to incorrect compressor cover) (25% Deduction)</li> <li>Missing Parts or Actuators (50% Deduction)</li> </ul>	<ul style="list-style-type: none"> <li>Knock Off Models (Not Genuine)</li> <li>Wheel Separation</li> </ul>
Dodge Cummins 6.7 HE351VG/HE300VG	<ul style="list-style-type: none"> <li>Missing Parts or Actuators (50% Deduction)</li> </ul>	<ul style="list-style-type: none"> <li>Knock Off Models (Not Genuine)</li> </ul>
Standard Turbochargers (All Models, Non VGT)	<ul style="list-style-type: none"> <li>Damaged Electronics (50% Deduction)</li> <li>Missing Clamps (25% Deduction)</li> <li>Missing Parts or Actuators (50% Deduction)</li> </ul>	<ul style="list-style-type: none"> <li>Knock Off Models (Not Genuine)</li> <li>Wheel Separation</li> </ul>

The above criteria apply to customer core returns. The following criteria will apply for core purchases.

Deduction	No Credit
<ul style="list-style-type: none"> <li>Cracked or Damaged due to freight</li> <li>Damaged Electronics</li> <li>Missing Parts or Actuators</li> <li>Heavily Damaged Wheels and/or Shaft</li> <li>Missing Clamps</li> <li>Turbine Wheel Separation</li> <li>Heavily Modified Turbochargers</li> </ul>	<ul style="list-style-type: none"> <li>Knock Off Models (Not Genuine)</li> </ul>

## BD TRANSMISSION/TORQUE CONVERTOR CORE ACCEPTANCE POLICY

Model	Deduction	No Credit
Transmissions	<ul style="list-style-type: none"> <li>Cracked Overdrive housings (\$100 Deduction)</li> <li>68rfe Cracked Case (25% Deduction)</li> <li>Part disassembled (50% Deduction)</li> <li>Missing Transmission Shipping Crate (\$200 Deduction)</li> <li>Missing TC/Transmission bracket (\$50 Deduction)</li> </ul>	<ul style="list-style-type: none"> <li>Cracked Case (Except 68rfe)</li> </ul>
Torque Convertors	<ul style="list-style-type: none"> <li>Hub and Impeller damaged. (50% Deduction)</li> </ul>	<ul style="list-style-type: none"> <li>Excessive corrosion</li> <li>Part disassembled</li> </ul>
Valve Bodies	<ul style="list-style-type: none"> <li>Missing electronics (25% Deduction)</li> </ul>	<ul style="list-style-type: none"> <li>Excessive corrosion</li> <li>Part disassembled</li> </ul>

## GENERAL CORE ACCEPTANCE POLICY

Model	Deduction	No Credit
EGR Cooler		<ul style="list-style-type: none"> <li>Brackets broken</li> </ul>

Please note that all cores have a time eligibility restriction. Please see BD Terms & Conditions for further details. [https://cdn.bddiesel.com/downloads/bd\\_terms\\_general.pdf](https://cdn.bddiesel.com/downloads/bd_terms_general.pdf)



**DOWNLOAD COLOUR  
INSTALL MANUALS AT  
[www.bddiesel.com](http://www.bddiesel.com)**



# 6.7L Cummins Fuel Injector

## Stock Replacement Injectors

<b>1715518</b>	<b>2007.5-2012 Ram Pickup</b>	<b>Standard</b>
<b>1725518</b>	<b>2007.5-2012 Ram Pickup</b>	<b>Premium</b>
<b>1715571</b>	<b>2007.5-2010 Ram C&amp;C W/O SCR</b>	<b>Standard</b>
<b>1725571</b>	<b>2007.5-2010 Ram C&amp;C W/O SCR</b>	<b>Premium</b>
<b>1715588</b>	<b>2010.5-2012 Ram C&amp;C W/ SCR</b>	<b>Standard</b>
<b>1725588</b>	<b>2010.5-2012 Ram C&amp;C W/ SCR</b>	<b>Premium</b>
<b>1715542</b>	<b>2013-2018 Ram Pickup</b>	<b>Standard</b>
<b>1725542</b>	<b>2013-2018 Ram Pickup</b>	<b>Premium</b>
<b>1715589</b>	<b>13-18 Ram Cab &amp; Chassis</b>	<b>Standard</b>
<b>1725589</b>	<b>13-18 Ram Cab &amp; Chassis</b>	<b>Premium</b>

## “Stock Plus” Performance Injectors (5-15HP)

<b>1714518</b>	<b>2007-2012 Ram Pickup - SC-BDD01-0017</b>	<b>Standard</b>
<b>1724518</b>	<b>2007-2012 Ram Pickup - SC-BDD01-0017</b>	<b>Premium</b>
<b>1714542</b>	<b>2013-2018 Ram Pickup - D553-6</b>	<b>Standard</b>
<b>1724542</b>	<b>2013-2018 Ram Pickup - D553-6</b>	<b>Premium</b>

Premium line injectors are built with new Bosch solenoids, nozzles and control valves

**PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION**

1714542/1724542 Meets CARB requirements(EO D553-6)

1714518/1724518 Meets SEMA Certified Emissions (SC-BDD01-017)

## Suggested Items

**1050157****2007.5-2018 Ram Pickup, Injector Install Kit**

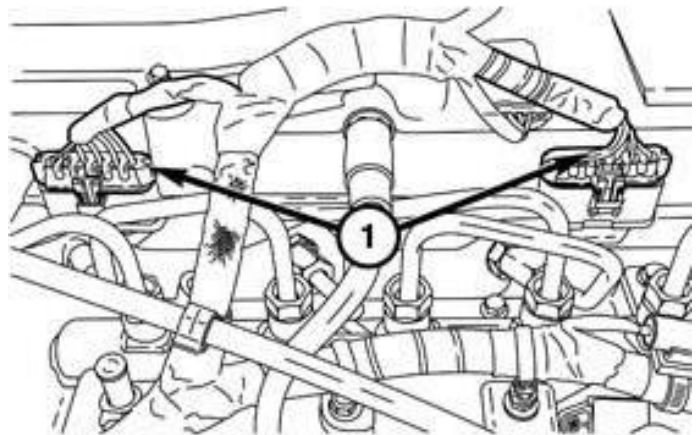
This kit contains brand new equipment to ensure no fuel line contamination occurs. This kit also includes a new valve cover gasket to replace any wear and tear, and aging that can occur. While this kit is not necessary, it is recommended to ensure optimal performance and longevity of your injection system.

## Removal

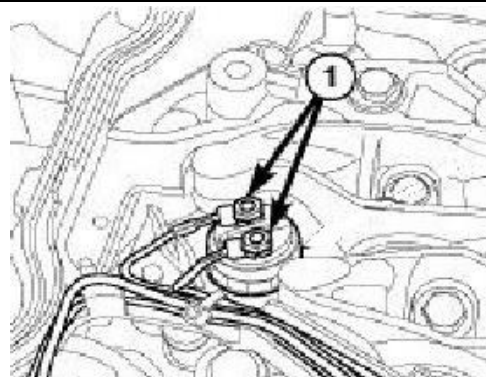
1. Disconnect both vehicle batteries before installation for safety.
2. Remove cylinder head cover

3. Disconnect both fuel injector harness connectors

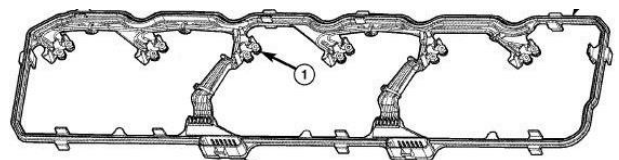
**Only required on 2013-2018 models.**



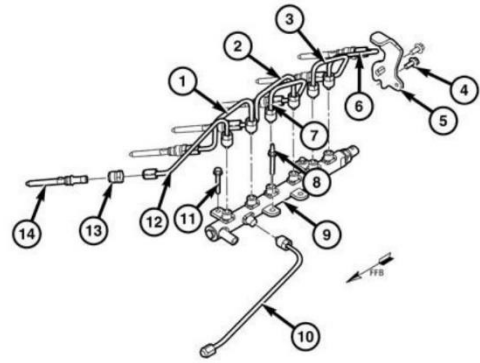
4. Remove all fuel injector wire harness nuts securing the integrated wiring harness to all fuel injectors.



5. Remove the cylinder cover gasket.



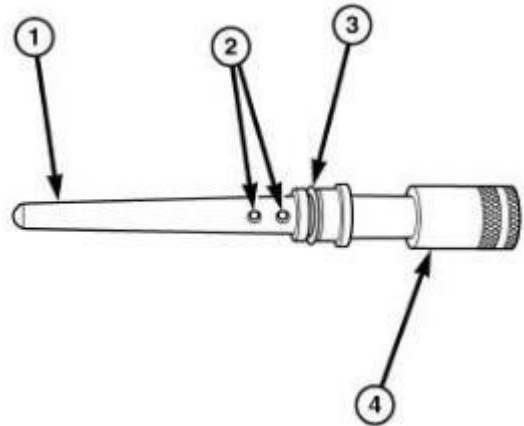
6. Remove the six high pressure fuel feed lines.



7. Remove the fuel injector connector nut.

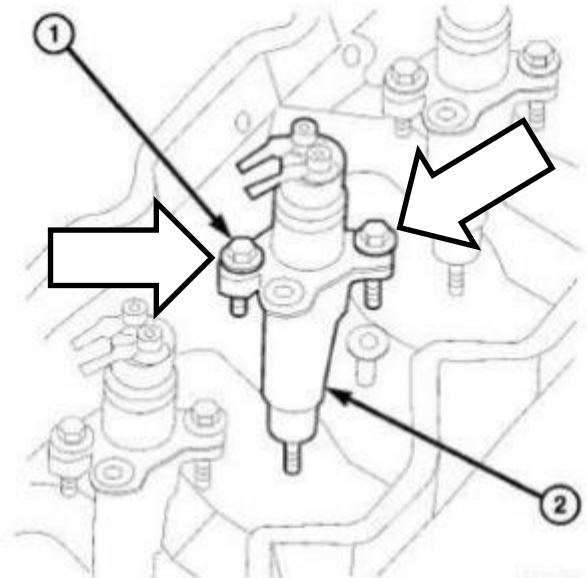
Install the High Pressure Connector Remover onto the fuel injector connector tube located in cylinder head.

Use the High Pressure Connector Remover pry and remove the fuel injector connector tubes from the cylinder head.



8. Slowly loosen the injector hold down clamp bolts.

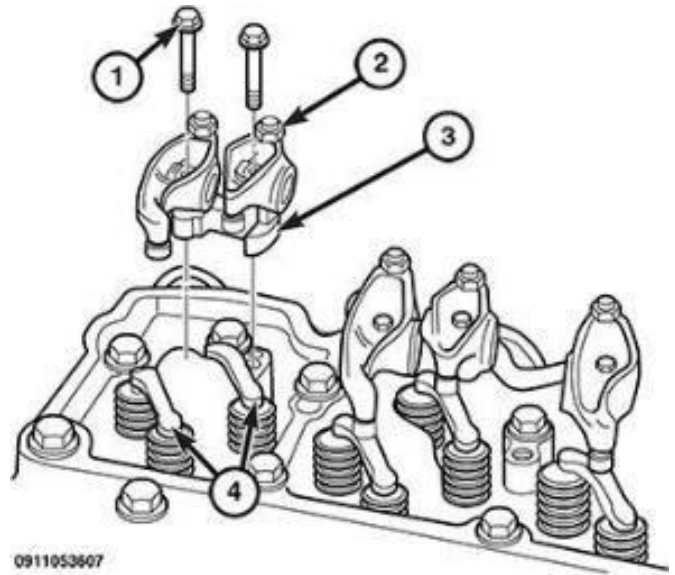
Sequentially turn one bolt counterclockwise 1 rotation, then switch to the other bolt, repeat.



B148029c

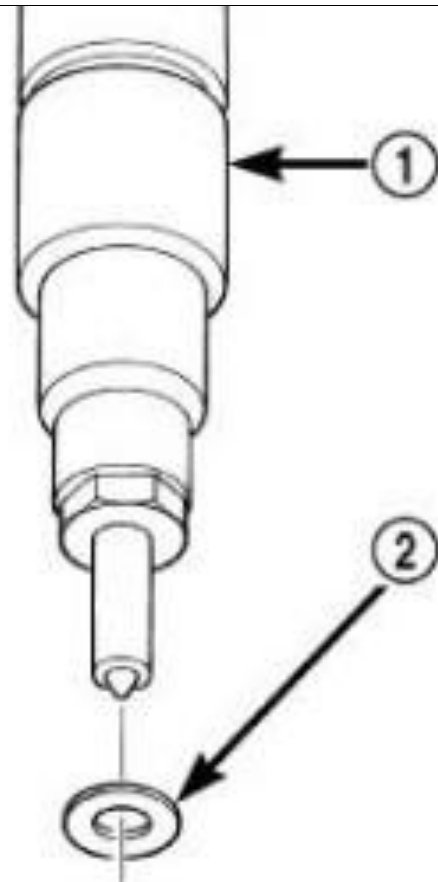
9. Remove the bolts, rocker arms, pedestals, and crossheads from the cylinder head.

Note: Mark each component so they can be installed in their original position.



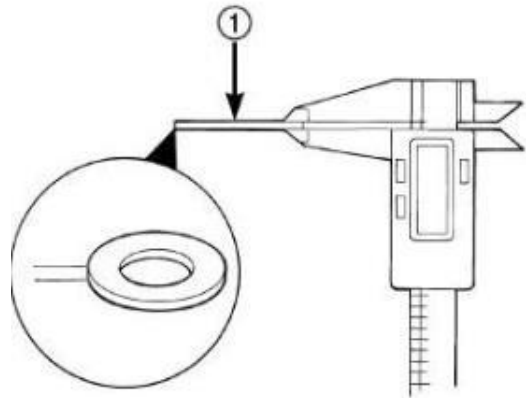
10. Ensure the fuel injector sealing washer has been removed and has not remained in the injector bore.

Discard the used seal, a new washer seal will need to be used.



## Installation

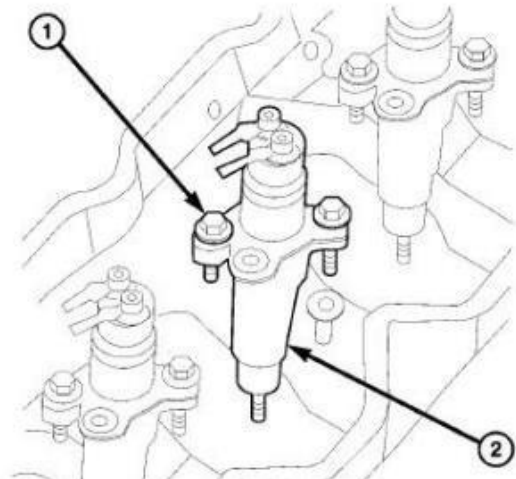
1. Measure the copper washer thickness, (.060"). Apply a light coating of clean engine oil to the washer to keep it in place during installation. Ensure the new copper sealing washer is installed on the injector.



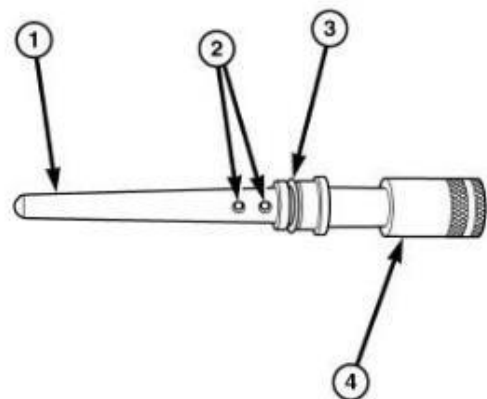
Apply a small amount of clean engine oil to the O-ring and injector bore and then seat the injector into the cylinder head.

2. Follow the tightening sequence listed in steps a-f below. The connector tubes must be seated in the center of the injector and perpendicular to the injector to seal properly.

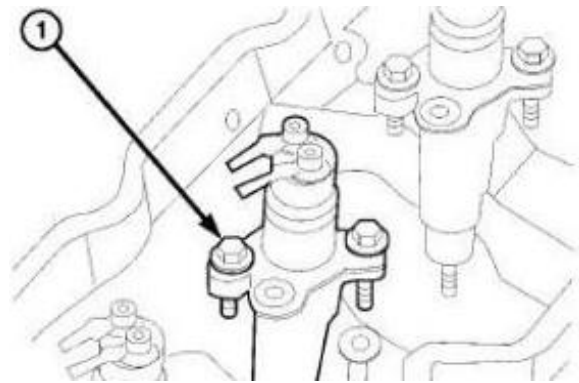
- a. Seat the fuel injector into the cylinder head.
- b. Ensure both bolts are threaded in evenly, preliminarily tighten down the two injector hold down bolts to 44 **in-lb**.
- c. Relieve bolt torque, but leave both bolts threaded in place.



- d. By hand, thread in the fuel injector connector tubes to ensure the fuel injector is centered and perpendicular to the connector tube. You can gently rotate the injector until the connector tube is correctly positioned. Do a preliminary tightening of the connector tube nut to 133 **in-lb**.

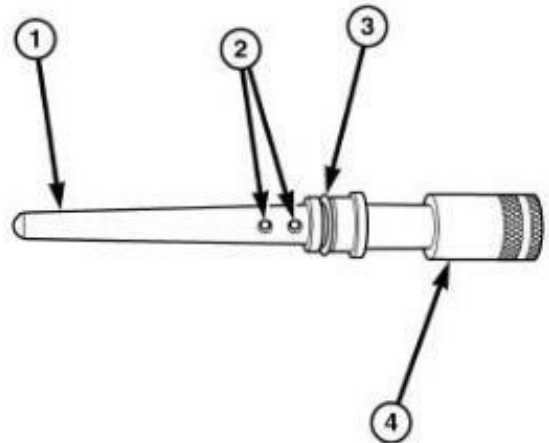


- e. Alternating tightening sequence, tighten the injector hold-down bolts to 71 **in-lb**.



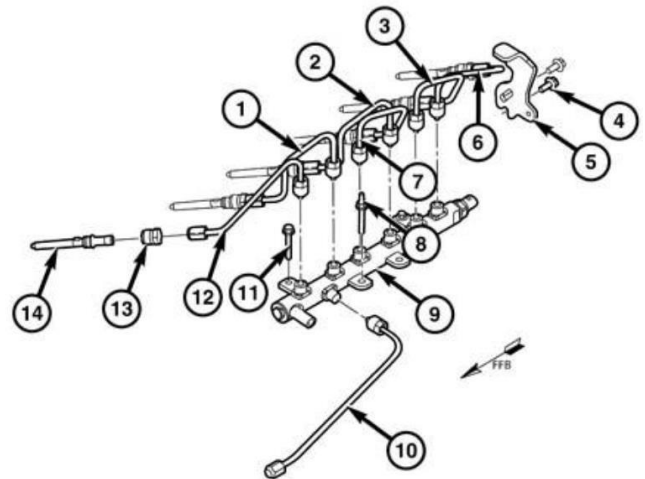
- f. Do a final tightening of the fuel injector tube nut.

Tighten to 41 **ft-lb**.



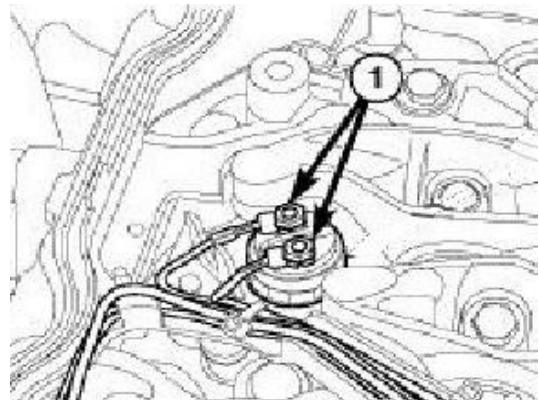
3. Install the correct fuel tubes to the correct injectors on the engine. Ensure each fuel line is free from debris and the sealing surfaces are in good condition.

Bracket (No. 5) must be loosened to install fuel tube No. 6. After all tubes are installed, torque the bracket (No. 5) to 32 **ft-lb**.

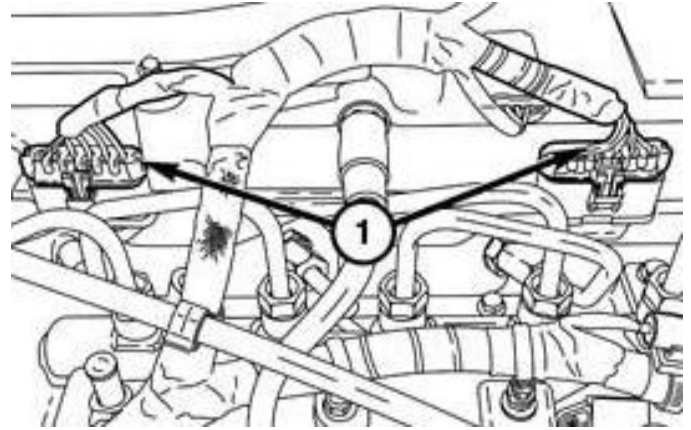


4. Connect the fuel injector solenoid wires and nuts to the top of the injectors. Tighten the connector nuts to 13 **in-lb**.

**Note:** Be very careful not to overtighten these nuts as damage to fuel injector will occur

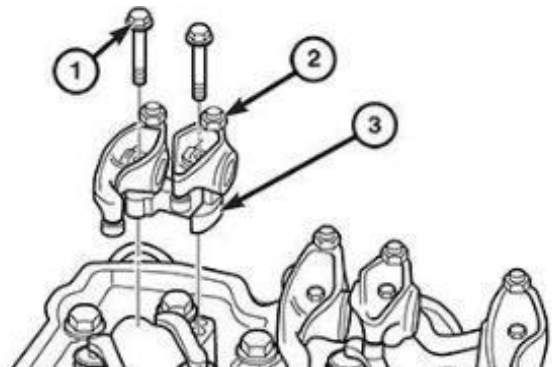


5. Reconnect both fuel injector harness connectors.



6. Install the intake and exhaust rocker arm assemblies.

Torque bolts to 27 **ft-lb**.



7. Ensure valve lash is within OEM specifications.

	Intake	Exhaust
MIN	.006"	.021"
PREF	.010"	.026"
MAX	.015"	.034"



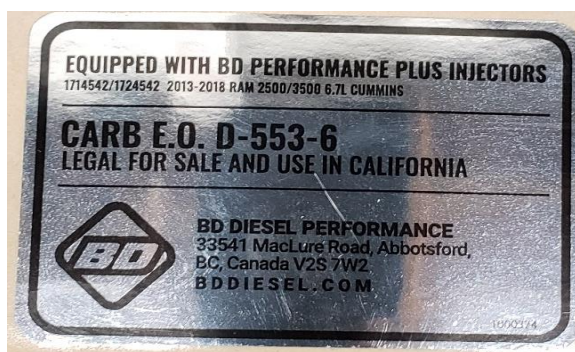
8. Reinstall rocker housing and cylinder head cover.

Connect both negative battery cables.

9. Apply the CARB EO decal underneath the hood next to the factory emissions label as indicated.



**IMPORTANT** Only for applicable models as listed on the front page of this installation manual



1. Program the injector using a scan tool. The 6 digit IMA / IQA code can be found on the injector solenoid nut and sticker provided in the box.



**Note:** IMA code programming only required for 2007-2012 vehicle models with stock injectors (1715518/1725518).





***DOWNLOAD COLOUR  
INSTALL MANUALS AT  
[www.bddiesel.com](http://www.bddiesel.com)***



# **Dodge 6.7L High Pressure Fuel Line Kit**

**1050150**

**2007.5-2018 Dodge 2500HD/3500HD/4500/5500**

## Kit Contents

1501156	1501157
	
Fuel line; Cylinder 1 <b>Qty: 1</b>	Fuel Line; Cylinder 2/3 <b>Qty: 2</b>
1501158	1501159
	
Fuel line; Cylinder 4/5 <b>Qty: 2</b>	Fuel Line; Cylinder 6 <b>Qty: 1</b>

## Introduction

This kit contains all 6 injector feed lines for Dodge Cummins 6.7L ISB applications designed to provide a complete fit with no need for the end user to bend lines.

**WARNING:** Do not start vehicle after installation until the fuel system has been primed.

## Tools Required for Installation

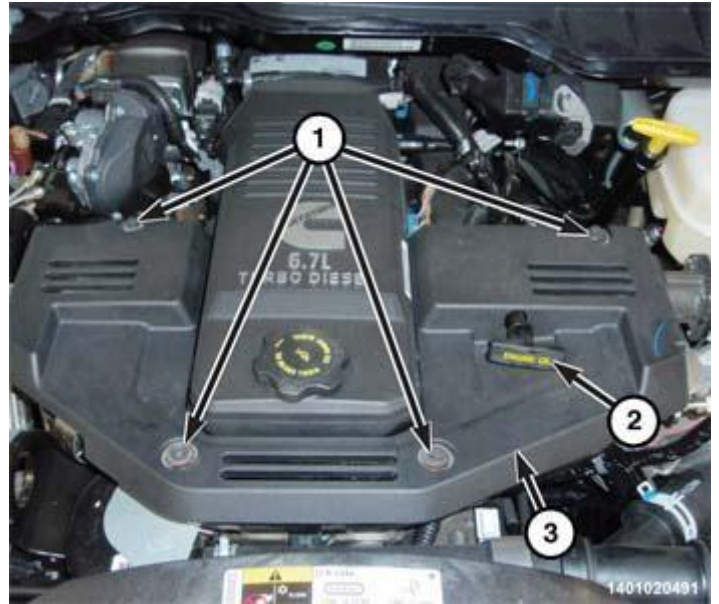
- Cable Tie
- 8, 10, 11mm socket
- 24mm wrench
- Torque wrench
- 19mm crowfoot
- Ratchet and ratchet extensions

## Disassembly

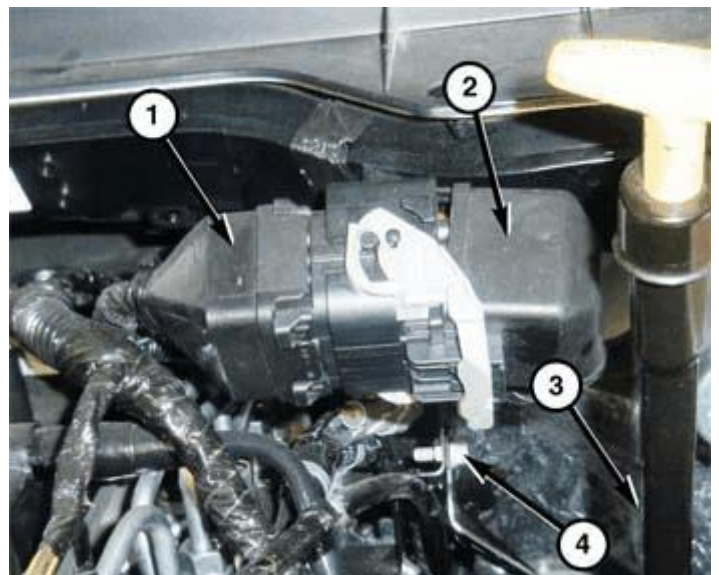
Disconnect both vehicle batteries before installation for safety.

Remove engine oil dipstick (2)

Remove bolts (1) and engine cover (3)



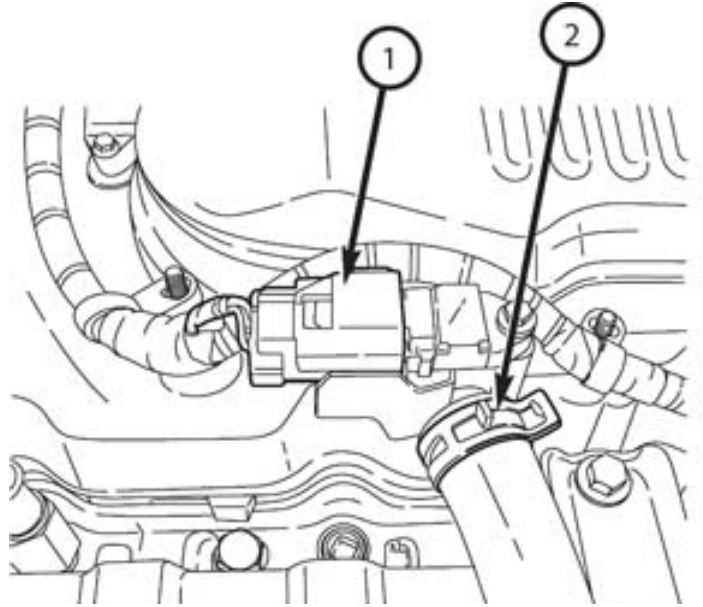
Cut cable tie and move aside the bulk head connector (1)



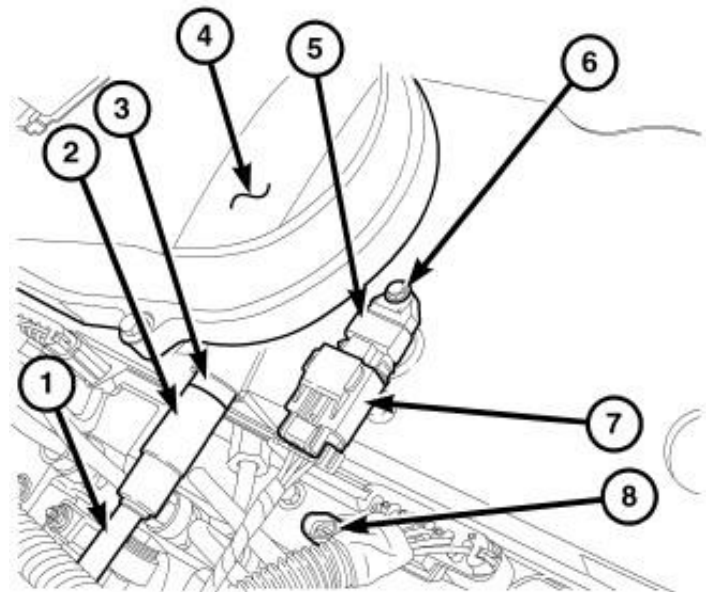
Disconnect the exhaust pressure sensor wire harness connector (2) and then the EGR cooler bypass valve wire harness connector (1)



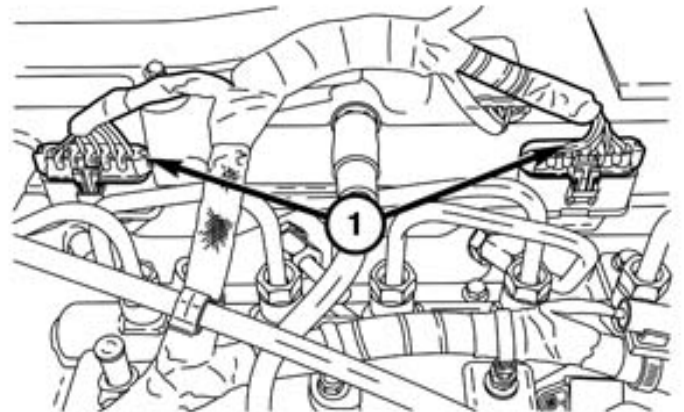
Disconnect the crankcase pressure sensor 2 wire harness connector (1)



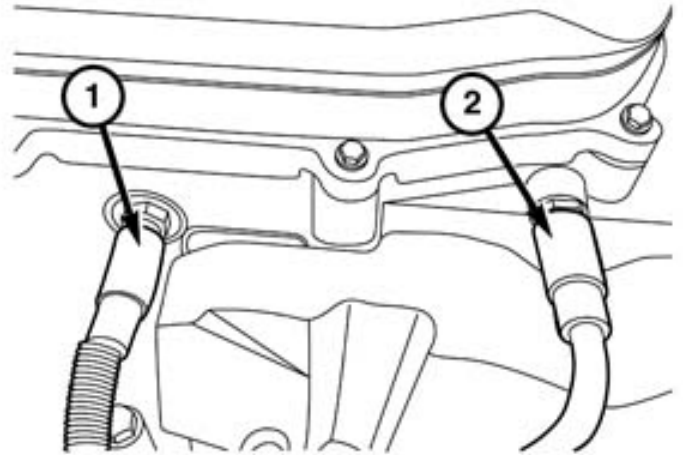
Disconnect crankcase pressure sensor 1 wire harness connectors (7)



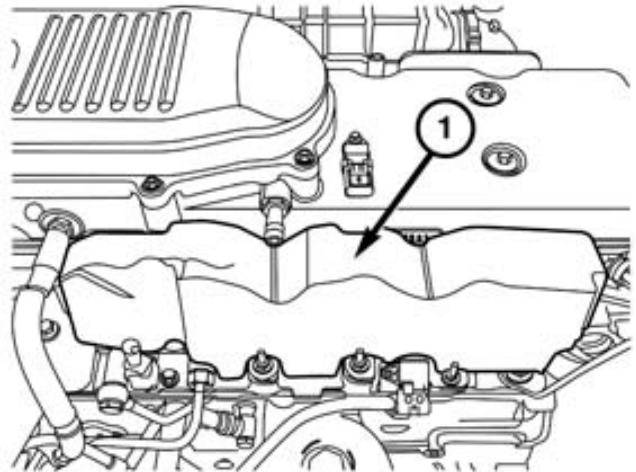
Disconnect both fuel injector harness connectors (1)



Remove the CCV oil drain hoses (1, 2) from cylinder head cover.

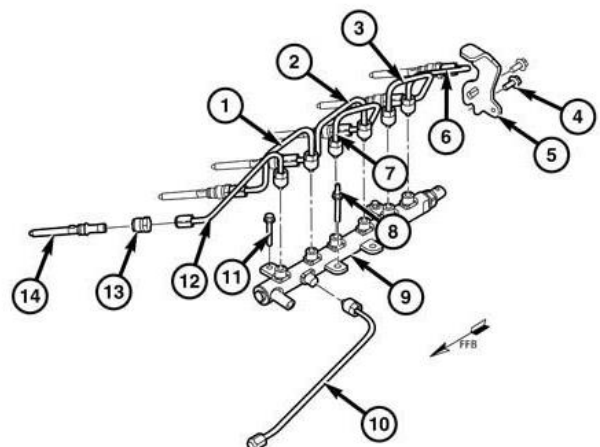


Remove the fuel tube silencer (1)



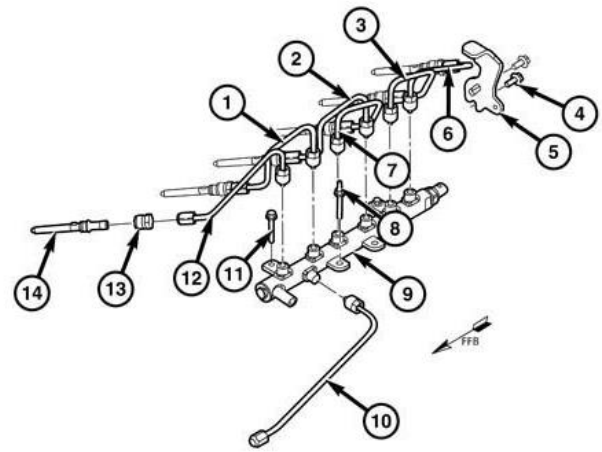
Remove the intake manifold.

Remove the bracket (5) located above the fuel tube connection at cylinder head. Two bolts (4) secure this bracket to the rear of the cylinder head. The upper bolt hole is slotted. Loosen (but do not remove) these two bracket bolts. Tilt the bracket down.



Remove fuel injector lines.

**WARNING:** When loosening or tightening the high pressure lines attached to a separate fitting (13), use a backup wrench on fitting. Do not allow fittings to rotate. Damage to both fuel line and fitting will result.



## IF INSTALLING INJECTORS, PLEASE INSTALL THEM NOW

Installation is reverse of disassembly instructions. Using the following torque specs:

Tighten fuel tube nut at the cylinder head to 40 N.m (30 ft. lbs.)

Tighten fuel tube nuts at the rail to 40 N.m (30 ft. lbs.)

Metal bracket at the rear of cylinder head: 43N.m (32 ft. lbs.)

Oil dipstick bolt and nut:  
Bolt: 24 N.m (18 ft. lbs.)  
Nut: 9 N.m (80 in. lbs.)

Engine cover bolts: 10 N.m (89 in. lbs.)

**WARNING:** Prime fuel system prior to starting the vehicle.

## Fuel System Priming

Turn key to CRANK position and quickly release key to ON position before engine starts. This will operate fuel transfer pump (lift pump) for 25 seconds.



Crank engine. If the engine does not start after 25 seconds, turn key to OFF position, leave for at least 10 seconds. Repeat previous step until engine starts

Fuel system priming is now complete.

Attempt to start the engine. If engine fails to start, proceed to the following steps. **When the engine does start, it may run erratically and be noisy for a few minutes. This is normal condition.**

**Caution:** Do not engage the starter motor for more than 30 seconds at a time. Allow for 2 minutes between cranking intervals.

Perform previous fuel priming procedure steps using fuel transfer (lift) pump. Be sure fuel is present at the fuel tank.

---

Crank the engine for 30 seconds at a time to allow fuel system to prime.

**WARNING:** The fuel injection pump supplies extremely high fuel pressure to each individual injector through the HP lines, Fuel under this amount of pressure can penetrate skin and cause personal injury. Wear safety goggles and adequate protective clothing. Do not loosen fuel fittings while engine is running.

**WARNING:** Engine may start while cranking the starter motor.

---



Once all components have been reinstalled, be sure to check all connection points are tight and inspect for leaks.

