

## Ported Fuel Rail Fitting

GM 6.6L Duramax 2004.5-2010 LLY/LBZ/LMM  
(113071000)

### ***Installation Guide***



## **DISCLAIMER OF LIABILITY**

Performance products can increase horsepower above and beyond factory specifications. Additional horsepower creates more stress on the drive-train components, which could result in drive-train failure.

Note regarding emissions-related, non-E.O.-legal products: THESE PRODUCTS ARE LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES THAT MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR HIGHWAY OR OFF-ROAD USE.

This agreement sets forth the terms and conditions for the use of PPE products. The installation of this product indicates that the Buyer has read and understands this agreement and accepts the terms and conditions. PPE (Pacific Performance Engineering) Inc., its distributors, employees, and dealers (the "Seller") shall not be responsible for the product's proper use and service. The buyer hereby waives all liability claims. The Buyer hereby acknowledges no reliance on the Seller's skill or judgment to select or furnish goods suitable for any particular purpose and that there are no liabilities which extend beyond the description on the face hereof, and the Buyer hereby waives all remedies or liabilities expressed or implied, arising by law or otherwise (including without any obligation of the Seller with respect to fitness, merchantability and 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. 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 to hold the Seller harmless from any claim related to the item of equipment purchased. Under no circumstances will the Seller be liable for any damages or expenses by reason of use or sale of any such equipment. The Seller assumes no liability regarding the improper installation or misapplication of its products. It is the installer's responsibility to check for proper installation and if in doubt, contact the manufacturer. The Buyer is solely responsible for all warranty issues from the manufacturer.

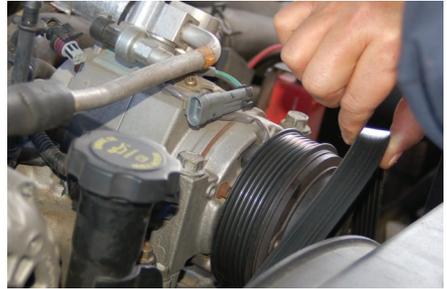
## **LIMITATION OF WARRANTY**

The Seller gives Limited Warranty as to description, quality, merchantability, and fitness for a particular purpose, productiveness, or any other matter of Seller's product sold herewith. The Seller shall not be responsible for the products proper use and service and the Buyer hereby waives all rights other than those expressly written herein. This warranty shall not be extended, altered or varied except by a written instrument signed by Seller and Buyer.

The Warranty on PPE Manifolds and Up-Pipes Kits, OEM-Length Up-Pipes is three (3) years, a limited lifetime warranty on PPE cast aluminum pans and covers, and a limited lifetime warranty on PPE Transmission Coolers and one (1) year limited warranty on all other PPE products from the date of sale to original buyer and limited solely to the parts contained within the products kit. All products that are in question of Warranty must be returned prepaid to the Seller and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by Seller. Under no circumstances will the Seller be liable for any labor charged or travel time incurred in diagnosis for defects, removal, or re-installation - of this product or any other contingent expenses. Under no circumstances will the Seller be liable for any damage or expenses incurred by reason of the use or sale of any such equipment. In the event that the buyer does not agree with this agreement: the buyer may promptly return this product, in a new and unused condition in its original packaging, with a dated proof of purchase to the place of purchase within ten (10) days from date of purchase for a full refund. The installation of this product indicates that the buyer has read and understands this agreement and accepts its terms and conditions.

**DRIVER SIDE INSTALLATION****IMPORTANT:  
READ ALL INSTRUCTIONS PRIOR TO INSTALLATION**

1. *Disconnect both batteries.*
2. *Loosen accessory drive belt (fan belt).*



3. *Disconnect electrical connectors (shown in yellow) on the A/C compressor and set them to one side.*
4. *Remove four (15mm) mounting bolts (shown in red) on the A/C compressor.*

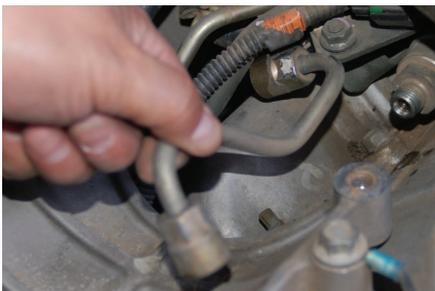


5. *Lift and move A/C compressor up and away.*
6. *Locate and remove driver side fuel line with a 17mm flare nut wrench.*

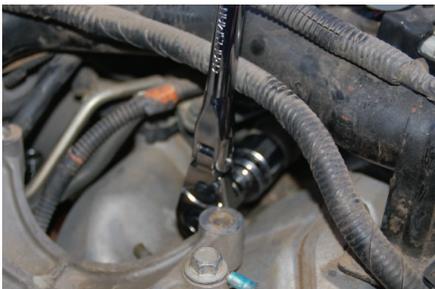


7. Remove opposite end of the high-pressure fuel line with a 17mm flare nut wrench. Set aside. The factory fitting will now be visible.

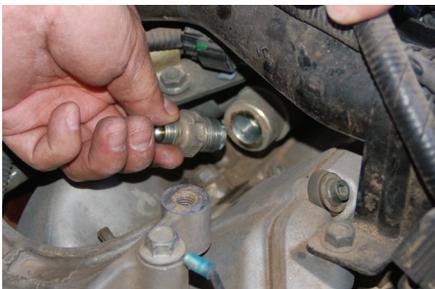
**Note: This fitting is in a tight spot. Quarter-turns of the wrench are required to remove this end of the line fitting.**



8. Remove factory fuel rail fitting using a 7/8 socket.



9. Lubricate the Ported Fuel Rail fitting with petroleum jelly, install and torque to 52 ft. lbs.



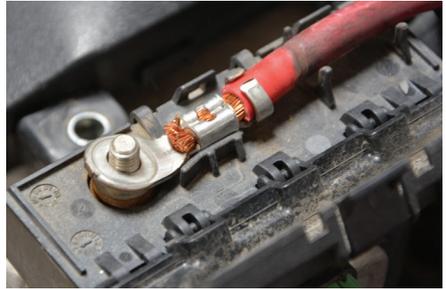
10. Reinstall high-pressure fuel line.
11. Reinstall A/C compressor and mounting bolts(4).
12. Reinstall accessory drive belt.
13. Plug in A/C compressor electrical connectors.
14. Connect battery.

*Installation is complete.*

**PASSENGER SIDE INSTALLATION**

**IMPORTANT:  
READ ALL INSTRUCTIONS PRIOR TO INSTALLATION**

1. *Disconnect both batteries.*
2. *Disconnect power cable from EGR air intake heater.*



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3. *Drain coolant.*
  4. *Remove air intake assembly.*

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5. *Disengage fan belt from alternator pulley.*



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6. *Disconnect power cable and plug from alternator.*



7. Remove alternator using pry bar.



8. Bushing must be pulled forward, as shown, to allow space for longer PPE Ported Fuel Rail Fitting.



9. Disconnect MAP sensor.

10. Remove harness bracket and engine harness cover.



11. Remove Allen screws and nuts from air intake heater.



13. Remove high-pressure fuel line nuts and bolts from bracket on valve cover.



14. Disconnect EGR air intake (6 bolts and nuts). Move up and out of the way to make room for install.



15. For LBZ models only: Remove top bolt from EGR cooler. For all other models remove all bolts.

**NOTE: If you decide to disassemble the EGR further, EGR gaskets must be replaced.**



16. Move up EGR cooler out of the way by keeping it elevated.

17. Remove EGR bracket.



18. *Disconnect fuel line brackets.*
19. *Carefully move high-pressure fuel lines to access fuel rail.*



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20. *Disconnect high-pressure fuel line and remove stock rail fitting.*



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21. *Lubricate the Ported Fuel Rail Fitting with petroleum jelly, install and torque to 52 ft. lbs.*
  22. *Tighten to secure.*
  23. *Re-install high-pressure fuel line.*
  24. *Reassemble in reverse order.*
  25. *Add coolant, start engine and check for leaks.*
- Installation complete.*

## SUGGESTED PRODUCTS

### Performance Silicone Hoses

Drag racing and sled pulling places huge stress on your truck's silicone hoses in a very short period of time. PPE's hoses were designed to handle the rigors of increased pressure during racing and competition. They are equally proficient at daily driving and towing heavy loads.

Each PPE Performance Silicone Hose is strengthened with 5 plies of polyester reinforced fibers making them very tough. The Fluorocarbon lining offers better lubricity (slippery and resistant to chemicals) and the silicone rubber construction ensures that they can withstand constant boost pressures from -76 degrees all the way to +437 degrees Fahrenheit. In short, PPE Performance Silicone Hoses will not blow out like a stock hose will.

PPE's Silicone Hoses are resistant to fuel, oil and chemicals while also being UV and Ozone resistant. These hoses can handle the extreme exposure that heavy usages puts upon them. With multiple sizes and configurations, there is a PPE Performance Silicone Hose for every design application.

#### Features:

- Handles high-boost pressures
- Working pressure: 70 psi - BAR 4.8
- Burst pressure: 207 psi - BAR 14.3
- Higher flow and better lubricity than rubber
- UV and Ozone resistant
- Fluorocarbon lining resistant to oil, fuel and high temperatures

**Note:** Due to the 6mm wall thickness, hose clamps must be 1/2 inch larger diameter than hose ID for proper fit.

Over **100** sizes  
and  
shapes



You can find these and more products at [ppediesel.com](http://ppediesel.com)





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