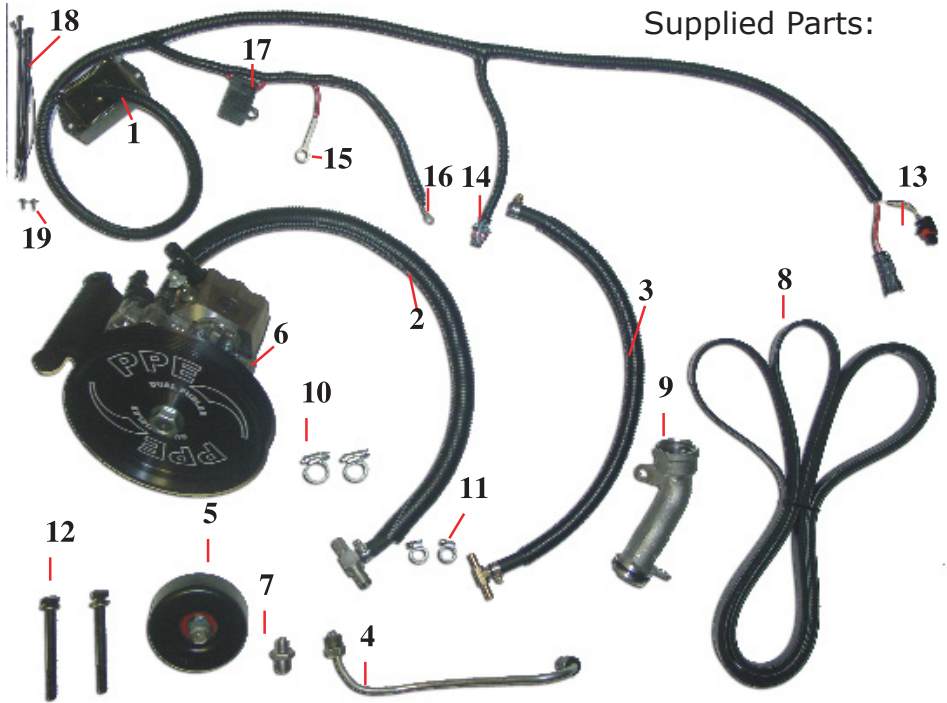


Dual Fueler CP3 Pump Kit
Installation Guide for **LB7 2001**
50 STATES EMISSIONS LEGAL



Supplied Parts:

- | | |
|--|---|
| 1. Control Module Pulley | 9. Oil Filler Tube |
| 2. 3/8" Inlet Fuel Line with Attached
1/2" x 1/2" x 3/8" 'T' Connector | 10. 2 #6 hose Clamps |
| 3. 5/16" Return Fuel Line with Attached
5/16" x 5/16" x 5/16" 'T' Connector | 11. 6 #4 hose Clamps (4 already on
hoses) |
| 4. High Pressure Steel Fuel Supply Line | 12. 2 M10-1.5x100 bolts with 2 washers |
| 5. Idler Pulley with attached parts
(02-04 models only, see
appendix C) | 13. Control Module Internal Engine
Pump connectors |
| 6. Assembled CP3 Pump, Wheel, and
bracket | 14. Control Module Dual Fueler
Connector |
| 7. Fuel Rail Fitting | 15. Control Module +12V (Red Wire) |
| 8. #6 Rib Belt | 16. Control Module Ground (Black Wire) |
| | 17. Control Module Fuse 10A |
| | 18. Control Module Harness Tie Straps |
| | 19. Control Module Mounting Screws |

Please note these part numbers, they will be used in installation descriptions!

DISCLAIMER OF LIABILITY

This is a performance product can be used to increased horsepower above and beyond factory specifications. Additional horsepower creates more stress on the drivetrain components, which could result in drivetrain failure.

This agreement sets forth the terms and conditions for the use of this product. The installation of this product indicates that the Buyer has read and understands this agreement and accepts the terms and conditions.

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 Sellers 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 is limited to two (2) years from the date of sale 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 reinstallation 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.

First: Install the “Dual Fueler” bracket and pulley if not assembled on pump. Refer to Appendix B on page 8.

1. 2002-04 Models: Remove the belt and Install **#5 Idler Pulley** in the existing threaded hole on the engine bracket as shown below. Torque to 27 lb. ft.
2001 Models refer to appendix C.



Fig. 1

3. Remove plug from the end of the fuel rail with a 500E (used on seatbelt bolts) Torx wrench or socket and install **#7, Fuel Rail Fitting**.

Important: Early Model LB7 trucks may have a block off plate behind torx plug fitting. If so REMOVE this Block Off Plate and drill out to same size as supplied fuel rail adapter fitting.



Fig. 3

2. Remove the **4 A/C Bolts** as shown and set the **A/C compressor** to the left of the engine to access the fuel rail below.

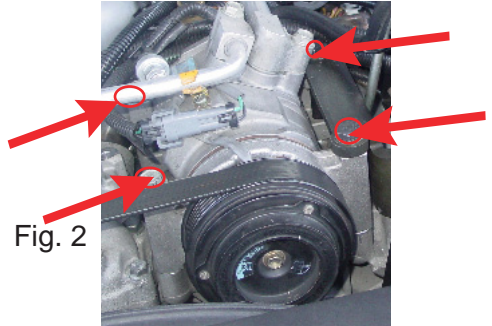


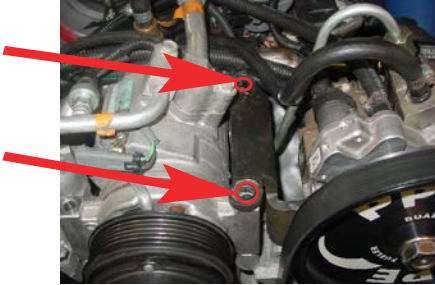
Fig. 2

4. Drain the coolant from the radiator drain plug. Remove the alternator. Remove the EGR by disconnecting the in and out hoses first. Remove the Water Line **W** so you can access the **#4 steel high pressure line** when **A/C compressor** is placed back and the **Dual Fueler** is installed.

Then attach **#4, Steel high pressure line**, BUT DO NOT TORQUE IT YET! Route it so it will lay under the **A/C compressor**.



5. Place the A/C Compressor back into the original position. Place the **#6, (Dual Fueler Assembly bracket with pump)** on top of the Right A/C Compressor bolt holes and use **#12 bolts** to attach the Dual Fueler Bracket Assembly to A/C Compressor, torque 37 lb. ft. Save 1 of the original A/C bolt for the next step.

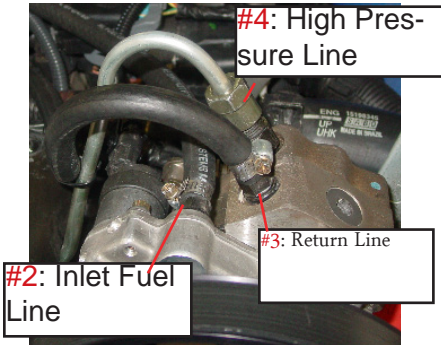


6. Install 1 factory A/C Bolt that you removed from top of A/C Unit into bottom of the Dual Fueler bracket.

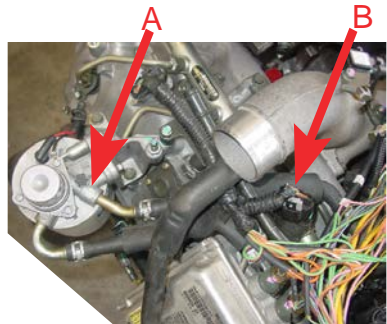


7. Then torque the **#4 high pressure line nut** onto both ends (to 30 ft. lb.). Re-install the **Water Line W** (See figure 4 on step 4).

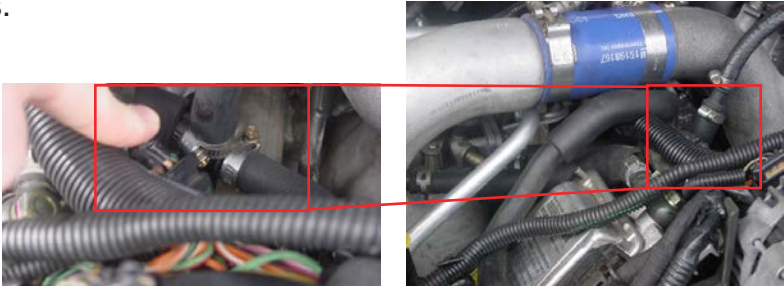
8. Attach the lines by part number as shown below:



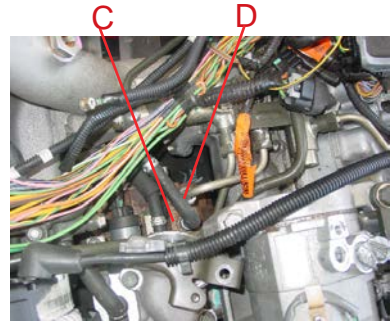
9. Follow the flow direction arrow **A** exiting from the fuel filter housing in order to locate the fuel supply hose **B**.



10. Cut back the rubber sleeve **B**. Cut the stock fuel supply line and insert supplied **#2 1/2"x1/2"x3/8"** 'T' connector in between the 1/2" fuel supply line, secure with **#10 1/2"** hose clamps.



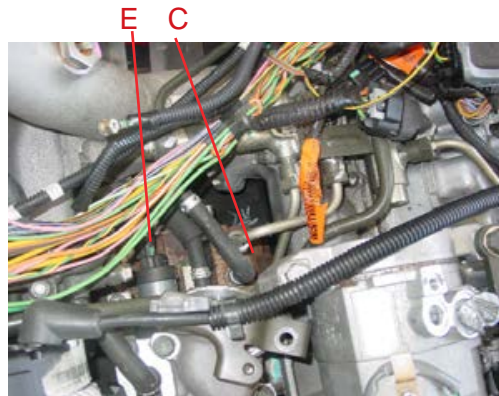
11. Locate the Stock CP3 Pump **C** and the stock return line **D** from Stock CP3 Pump. Cut the rubber hose and insert **#3 5/16"x5/16"x5/16"** 'T' connector. Use **#11** hose clamps to secure.



Now all of the 3 lines should be connected to the Dual Fueler Pump and to the engine in the correct spots.

12. Locate the Stock CP3 Pump **C** from step 11, and the electronic control wire harness **E**. Unplug the wire Harness **E**.

13. Plug the Wire Harness **E** into **#13**, then plug the other end of **#13** back into the Stock CP3 Pump **C**.



19. Remove the original Oil filler tube, install Replacement Oil Filler Tube to allow for the belt clearance and assemble with original bolts. Torque 15 lb. ft.
20. Route #8 Replacement Belt (as shown below) for 2002-04 models. For 2001 models refer to appendix C.

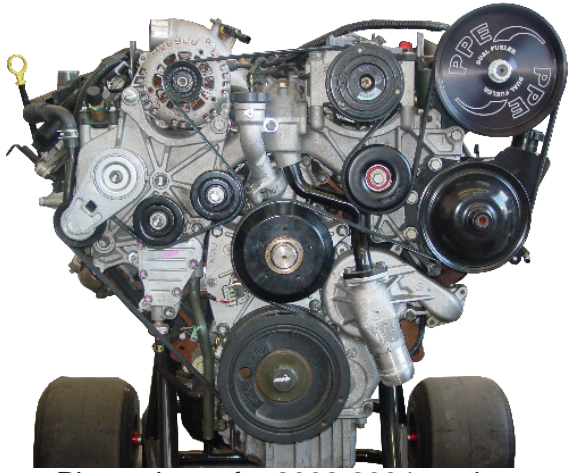
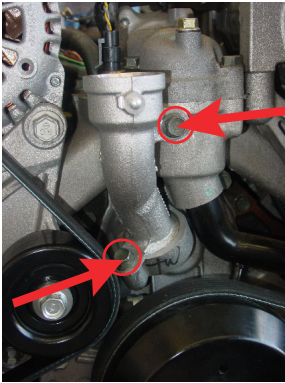


Photo shows for 2002-2004 routing

21. Connect the #15 Red Wire to the 12V constant battery jumber terminal stud, and #16 ground the wire to the terminal stud mounting bolt as shown.



22. Insert 10 Amp Fuse into #17.

23. The engine should be ready to start, prime the fuel filter pump to bleed air from the system and start the engine.

Appendix A: Troubleshooting

Engine noisy: Too Much Fuel Pressure

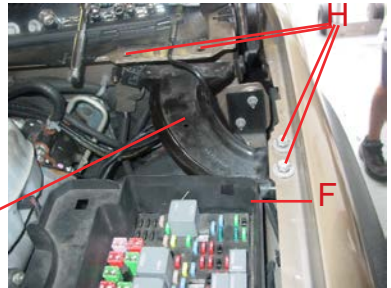
Cause: Check if the fuse is good and in the controller's fuse holder. And all power connections are secure. Including connectors for both pumps, make sue they are fully plugged in.

14. Route #1, (Control Module) Wiring from Stock CP3 Pump C as shown and attach to other wiring with #18 (tie straps). Connect #14 to the back of Dual Fueler CP3 Pump.



Wire Routing

15. Temporarily remove Metal Support G (as shown) by removing 4 bolts H and set them aside to remove the fuse box cover F. #1 will be tucked inside the fuse box cover F.



16. Remove the Fuse box Cover F and place #1 (Control Module) as shown to the below.



(photo is taken from the drivers side of the vehicle)

17. Secure #1 with #19 screws as shown below.

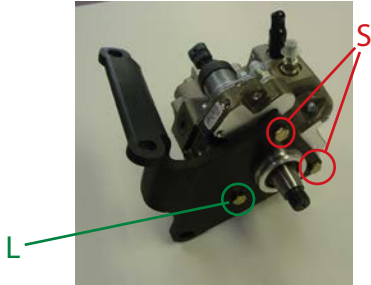


18. Replace fuse box cover F, taking care to not pinch harness, and the re-assemble stock parts G and H as shown in step 15.

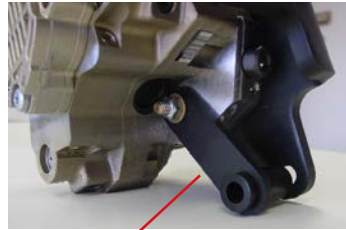
19. Place supplied Dual Fueler decal on the engine shield in the designated area for use during future smog testing.

Appendix B: Fuel Pump with Bracket Assembly

1. Install the Main Bracket and insert the 3 supplied bolts. Make sure the **longer bolt L** and 2 **shorter bolts S** are used as shown.

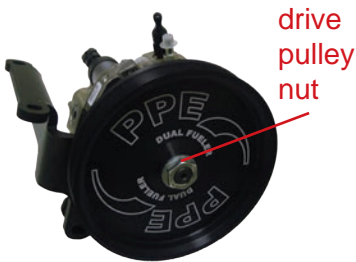


2. Install the **Smaller Support Bracket** and secure with washer and nut on the back of the pump as shown. Secure the other 2 bolts S with a washer and nut on the back of the pump.



Smaller Support Bracket

3. Put the pulley on pump by placing the pulley on pump with washer and nut, and torque fuel injection pump drive pulley nut to 52 lb. ft.



Appendix C: 2001 Installation

For 2001 installs, move Idler Factory Idler Pulley from location **I1** to location **I2**. No other Idler Pulleys are required. Route belt as shown to the left.

